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Update Alert

The 2006 *Vegetable Chemical Usage* publication released on July 25, 2007 by USDA's National Agricultural Statistics Service (NASS) is being reissued due to corrections in the fertilizer data tables. This problem has impacted the estimates for nitrogen, phosphate, potash, and sulfur published in the "Program States" data tables. Fertilizer data for number of applications, rate per crop year, and total applied were updated for 23 vegetable crops surveyed.

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Overview

This publication is the ninth Vegetable Summary in the series of “**Agricultural Chemical Usage**” reports issued by the United States Department of Agriculture's National Agricultural Statistics Service (USDA-NASS). This report contains statistics for on-farm use of commercial fertilizers, agricultural chemicals, and integrated pest management practices from producers of targeted vegetable crops. Chemical application rates listed by active ingredient are also featured in this publication. The agricultural chemical use estimates in this report focus on the acreage treated with herbicides, insecticides, fungicides, and other pesticides for selected vegetable crops. Other publications that have statistics for on-farm agricultural chemical usage have focused on agricultural chemical usage for field crops (May 2007) and chemical usage on dairy cattle and dairy cattle facilities (May 2007). Chemical use information for fruit is collected in odd numbered years, while vegetable information is collected in even numbered years. More details about these publications and others may be found on the USDA website at http://www.nass.usda.gov/Statistics_by_Subject/Environmental/index.asp.

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 to 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.

This report includes chemical usage information for 23 targeted vegetable crops in 19 States. The States surveyed were: Arizona, California, Colorado, Florida, Georgia, Illinois, Michigan, Minnesota, New Jersey, New York, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Texas, Washington, and Wisconsin. The targeted crops were: asparagus, snap beans, broccoli, cabbage, cantaloupes, carrots, cauliflower, celery, sweet corn, cucumbers, eggplant, garlic, honeydews, lettuce, onions, green peas, bell peppers, pumpkins, spinach, squash, strawberries, tomatoes, and watermelons. Graphs containing the 5 most commonly applied active ingredients for snap beans, cabbage, sweet corn, cucumbers, onions, green peas, bell peppers, pumpkins, squash, tomatoes, and watermelons have been included in this publication. Each of these commodities has at least 5 States in the survey program.

California's vegetable chemical usage data are reported to the County Agriculture Commissioner's (CAC) offices by producers. The vegetable crop data collected from the Commissioner's offices are centered around the State's mandatory pesticide reporting requirements which screen for the County Agriculture Commissioner ID and CAL-EPA site location numbers. Some pesticides are labeled for control of more than one type of pest, i.e., used 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. This report excludes pesticides used for seed treatments and postharvest applications to the commodity.

The Active Ingredient and Publication Status tables are provided to show all active ingredients reported in the Program States. The publication status is determined by confidentiality rules.

In order to publish data for an active ingredient, there must be a minimum of 5 reports for the specific active ingredient at the summary level (by crop, by State, or all Program States). If there are 5 or more reports, then the active ingredient data are published and designated as a "P" in the table. In cases where there are not enough reports to publish usage data for a given active ingredient, an "*" appears in the table. This means the active ingredient was reported, but there was an insufficient number of reports to publish the data. However, there are certain instances where the "Program States" total data were suppressed so that a major active ingredient could then be published at the individual State level. If the publication status is blank, there were no reports for the active ingredient for that Program State.

AGRICULTURAL CHEMICAL USE SURVEY COVERAGE

Crop	2006			2004		
	States Surveyed	Reports Summarized	U.S. Acreage Included in Survey	States Surveyed	Reports Summarized	U.S. Acreage Included in Survey
	Number		Percent	Number		Percent
Asparagus	3	217	100	3	275	100
Beans, Snap, Fresh	6	446	85	5	427	77
Beans, Snap, Proc.	6	276	76	5	277	71
Broccoli	1	133	91	1	124	91
Cabbage, Fresh	7	419	81	9	655	85
Cantaloupes	3	251	84	4	291	85
Carrots, Fresh	3	172	88	3	125	86
Carrots, Proc.	4	39	87	4	49	86
Cauliflower	1	75	87	1	80	87
Celery	1	52	93	1	50	92
Corn, Sweet, Fresh	14	1,263	85	13	1,142	66
Corn, Sweet, Proc.	5	449	88	5	474	87
Cucumbers, Fresh	7	549	90	5	410	71
Cucumbers, Pickles	7	219	66	7	299	69
Eggplant	1	65	100	N/A	N/A	N/A
Garlic	1	84	83	1	61	83
Honeydews	2	45	97	2	49	93
Lettuce, Head	2	130	98	2	100	98
Lettuce, Other	2	178	100	2	128	100
Onions, Bulb	7	495	80	6	492	75
Peas, Green, Proc.	5	386	88	5	419	88
Peppers, Bell	5	320	94	4	333	84
Pumpkins	5	566	88	4	581	68
Spinach	3	110	91	3	101	85
Squash	7	848	86	6	755	80
Strawberries	4	285	86	3	263	80
Tomatoes, Fresh	7	686	82	5	472	76
Tomatoes, Proc.	1	113	94	1	105	93
Watermelons	7	637	78	7	713	76

Highlights

Asparagus: In the three Program States: California, Michigan, and Washington asparagus growers applied nitrogen to 77 percent of their acreage. They applied phosphate, potash, and sulfur to 37, 52, and 27 percent of their acreage, respectively. Herbicides, insecticides, and fungicides were applied to 78, 68, and 34 percent of the Program States acres. The most commonly applied herbicide was **Diuron** applied to 62 percent of the crop followed by **Glyphosate isopropylamine salt** and **Metribuzin**, which were applied to 38 and 37 percent of the acreage, respectively. **Carbaryl** was the most widely used insecticide, at 38 percent, followed by **Disulfoton** at 32 percent. **Chlorothalonil** was the most commonly used fungicide, applied to 20 percent of the acreage.

Snap Beans, Fresh: Six Program States: California, Florida, Georgia, New York, North Carolina, and Tennessee, covering 85 percent of the U.S. acreage, were included in the 2006 survey for fresh market snap beans. Nitrogen, phosphate, potash, and sulfur applications were made on 88, 79, 84, and 16 percent of the acreage, respectively. Herbicides were applied to 48 percent of the acres. The two active ingredients utilized most were **S-Metolachlor** and **Pendimethalin**, used to treat 21 and 11 percent of the acreage, respectively. Insecticide, fungicide, and other chemical applications were made to 72, 67, and 7 percent of the acres, respectively. The most commonly used insecticides were **Acephate** and **Esfenvalerate**, covering 20 and 18 percent of the acreage, respectively. **Chlorothalonil** was the most widely used fungicide and was applied on 35 percent of the acreage. **Azoxystrobin** was the next most utilized fungicide being applied to 21 percent of the acreage, followed by **Sulfur** and **Mancozeb** on 13 and 12 percent of the acreage, respectively. The only active ingredient published for Other Chemicals was **Dichloropropene**, at 5 percent.

Snap Beans, Processing: Growers of processed snap beans applied nitrogen to 95 percent of the crop's acreage. Phosphate was applied to 83 percent of the acreage, potash was applied to 81 percent of acreage, while 34 percent of the acreage received sulfur applications. Herbicide applications were reported on 95 percent of the surveyed acres. The herbicides used most were **EPTC**, applied to 39 percent of the acreage, **Trifluralin**, used on 38 percent of the acreage, and **S-Metolachlor**, applied to 35 percent of the acreage. Insecticides were applied to 73 percent of the acres. Insecticides commonly used included **Bifenthrin** on 40 percent of the acreage, followed by **Acephate** and **Zeta-cypermethrin**, at 16 and 11 percent coverage, respectively. Fungicides were applied to 53 percent of the acres. **Thiophanate-methyl**, used on 37 percent of the acres, was the most widely used fungicide.

Broccoli: California's broccoli growers applied nitrogen, phosphate, potash, and sulfur to 96, 61, 42, and 26 percent of their acreage, respectively. Herbicides were used to treat 48 percent of California's broccoli acreage. The most utilized herbicide was **DCPA**, covering 22 percent of the acreage. Insecticides were applied to 84 percent of the acres and fungicides were applied to 19 percent of the acres. The most commonly used insecticides were **Imidacloprid** and **Oxydemeton-methyl**, both applied to 41 percent of the acreage, followed by **Indoxacarb** and **Spinosad**, applied to 34 percent of the acreage. The leading fungicides used were **Azoxystrobin** and **Pyraclostrobin**, applied to 8 and 7 percent of the acreage, respectively.

Cabbage: Program States surveyed for fresh market cabbage included California, Florida, Georgia, New York, North Carolina, Texas, and Wisconsin. Cabbage growers in these seven States applied nitrogen to 95 percent of their acreage, while phosphate, potash, and sulfur were applied to 89, 78 and 24 percent of their acreage, respectively. Herbicides were applied to 56 percent of the

fresh market cabbage acres. The most commonly used herbicides were **Trifluralin**, at 34 percent, followed by **Oxyfluorfen** applied to 11 percent of the acreage. Insecticides were applied to 94 percent of the fresh market cabbage acres. **Spinosad** and **Indoxcarb** were the primary insecticides used on 40 and 30 percent of the acreage, respectively. Fungicides were applied to 60 percent of the acres, with **Chlorothalonil** and **Maneb** being the most commonly used active ingredients, at 47 and 23 percent, respectively. Other Chemicals were applied to 8 percent of the acres, however, there were insufficient reports to publish any active ingredient's data.

Cantaloupes: Arizona, California, and Texas cantaloupe growers applied nitrogen to 97 percent of the acreage. Phosphate, potash, and sulfur were applied to 89, 33, and 28 percent of the acreage. Herbicides were used to treat 43 percent of the acres. **Trifluralin** and **Bensulide** were the most common herbicides used on 26 and 22 percent of the acreage, respectively. Insecticides were applied to 79 percent of the acres, with **Imidacloprid** and **Permethrin** being the most commonly used active ingredients, at 46 and 35 percent, respectively. Fungicides were applied to 62 percent of the acres. The most commonly applied fungicides were **Chlorothalonil** and **Sulfur**. Both active ingredients were used to treat 20 percent of the acreage. Other Chemicals were applied to 26 percent of the acres, however, there were insufficient reports to publish any active ingredient's data.

Carrots, Fresh: Nitrogen was applied to 90 percent of the carrot acreage for the three Program States: California, Michigan, and Texas. Farmers applied phosphate, potash, and sulfur to 69, 37, and 18 percent of their acreage, respectively. Herbicides were applied to 67 percent of the acres. The two herbicides used most were **Linuron**, on 64 percent of the acreage, and **Trifluralin**, on 45 percent of the acreage. Insecticides were reported on 23 percent of the acres. **Esfenvalerate** and **Diazinon** were the most commonly used insecticides, at 13 and 10 percent, respectively. Fungicides were used on 62 percent of the acres, with **Chlorothalonil** being the most utilized, covering 11 percent of the acreage. The only active ingredient published for Other Chemicals was **Metam-sodium**, at 39 percent.

Carrots, Processing: Acreage planted for processing was surveyed in four Program States: California, Michigan, Washington, and Wisconsin. Nitrogen, phosphate, potash, and sulfur applications were made to 80, 64, 67, and 33 percent of the planted acreage, respectively. Herbicide applications were reported on 96 percent of the surveyed acres. The herbicides most commonly used were **Linuron** and **Clethodim**, at 93 and 40 percent, respectively. Insecticides were applied to 75 percent of the acres. **Esfenvalerate** was used most, applied to 66 percent of the acreage. Fungicides were applied to 86 percent of the acres. **Chlorothalonil** was the most utilized fungicide, covering 75 percent of the acreage, followed by **Copper hydroxide**, which was applied to 33 percent of the acreage. The only active ingredient published for Other Chemicals was **Metam-sodium**, at 30 percent.

Cauliflower: For the 2006 crop year, California accounted for 87 percent of all the U.S. planted acres in cauliflower and was the only State surveyed. California producers applied nitrogen to 96 percent of the cauliflower acreage while phosphate, potash, and sulfur were applied to 71, 42, and 33 percent of the acreage, respectively. Herbicides were applied to 42 percent of the cauliflower acres. The herbicides used most often were **Oxyfluorfen**, on 29 percent of the acreage, and **DCPA**, on 11 percent. Insecticides were applied to 77 percent of the surveyed acres. A wide array of insecticides was used which included **Indoxcarb**, applied to 57 percent of the acreage, **Dimethoate**, on 43 percent, and **Oxydemeton-methyl**, on 41 percent of the acreage. Fungicides

were used on 3 percent of the acres. The only fungicides with publishable data were **Chlorothalonil** and **Maneb**, both applied to 1 percent of the acreage.

Celery: California's celery growers applied nitrogen to 94 percent of their acreage, while phosphate and potash were applied to 80 and 84 percent of the acreage, respectively. Herbicides were applied to 55 percent of the planted acres. **Prometryn** was the active ingredient most commonly used, applied to 49 percent of the acreage. Insecticides were applied to 92 percent of the acres. The most utilized insecticides were **Acetamiprid**, on 62 percent of the acreage; followed by **Permethrin**, **Cyromazine** and **Spinosad**, applied to 59, 55, and 53 percent of the acreage, respectively. Fungicides were applied to 74 percent of the acres. **Chlorothalonil** was the most commonly utilized fungicide, applied to 54 percent of the acreage; followed by **Copper hydroxide**, applied to 47 percent acreage; and **Propiconazole**, applied to 44 percent of the acreage.

Corn, Sweet, Fresh: Nitrogen was applied to 94 percent of the 2006 fresh market sweet corn acreage in the following Program States: California, Colorado, Florida, Georgia, Illinois, Michigan, New Jersey, New York, North Carolina, Ohio, Oregon, Pennsylvania, Texas, and Wisconsin. Phosphate, potash, and sulfur were applied to 91, 82, and 26 percent of the acreage, respectively. Herbicides were applied to 83 percent of the fresh market sweet corn acres. **Atrazine** was used on 71 percent of the acreage, followed by **S-Metolachlor** on 39 percent. Insecticides were applied to 88 percent of the surveyed acres. The most common insecticides applied were **Methomyl**, on 54 percent of the acreage; **Lambda-cyhalothrin**, applied to 52 percent of the acreage; and **Chlorpyrifos** and **Thiodicarb** which were both applied to 23 percent of the acreage. Fungicides were used on 20 percent of the acres. The most commonly used fungicides were **Mancozeb** and **Propiconazole**, both of which were applied to 11 percent of the acreage.

Corn, Sweet, Processing: Processed sweet corn was surveyed in five Program States: Minnesota, New York, Oregon, Washington, and Wisconsin. Nitrogen, phosphate, potash, and sulfur applications were made to 93, 75, 62, and 34 percent of the planted acreage, respectively. Herbicides were used on 86 percent of the surveyed acres. The most commonly used herbicides were **Atrazine**, **S-Metolachlor**, and **Dimethenamid-P**, on 62, 37, and 23 percent of the acreage, respectively. Insecticides were used on 72 percent of the surveyed acres. The two insecticides most commonly applied were **Bifenthrin**, on 51 percent, and **Zeta-cypermethrin**, on 12 percent of the acreage. Fungicides were used on 8 percent of the Program States acres. **Azoxystrobin** was the leading fungicide, as it was applied to 5 percent of acreage, followed by **Propiconazole** and **Pyraclostrobin**, both of which were applied to 2 percent of the acreage.

Cucumbers, Fresh: Seven Program States: California, Florida, Georgia, Michigan, New Jersey, New York, and North Carolina, covering 90 percent of the U.S. acreage, were included in the 2006 survey for fresh market cucumbers. Nitrogen, phosphate, potash, and sulfur applications were made on 94, 62, 91, and 16 percent of the acreage, respectively. Herbicides were applied to 40 percent of the acres, with **Ethalfuralin** and **Clomozone** being the most commonly used active ingredients, at 17 and 8 percent, respectively. Insecticides and fungicides were both applied to 75 percent of the Program States acres. The leading insecticides used were **Esfenvalerate** on 26 percent of the acreage, **Endosulfan** on 25 percent, and **Methomyl** on 21 percent of the acreage. **Chlorothalonil** was the fungicide predominantly used, applied to 53 percent of the acreage. **Maneb** and **Cymoxanil** were applied to 41 and 37 percent of the acreage, respectively. Other Chemicals were applied to 25 percent of the acres. **Dichloropropene**, the most utilized Other Chemical, was applied to 20 percent of acreage.

Cucumbers, Pickles: Pickle cucumber acreage was surveyed in seven Program States: Florida, Michigan, North Carolina, Ohio, South Carolina, Texas, and Wisconsin. Nitrogen, phosphate, potash, and sulfur applications were made on 96, 83, 76, and 17 percent of the pickle cucumber acreage. Herbicides were applied to 83 percent of the acres. The three leading herbicides used were **Ethalfuralin**, on 68 percent of the acreage, **Clomazone**, on 36 percent, and **Halosulfuron**, on 32 percent of the acres. Insecticides were applied to 34 percent of the acres. **Esfenvalerate** was the most utilized insecticide, as it was applied to 14 percent of the Program States acreage. Fungicides were applied to 68 percent of the acres with **Chlorothalonil** being used most, covering 50 percent of the acreage. **Cymoxanil**, **Famoxadone**, and **Mancozeb** were used on 45 percent of the acreage.

Eggplant: New Jersey's eggplant growers applied nitrogen to 99 percent of their acreage. Phosphate was applied to 91 percent of the acres, while 99 percent of the acreage was treated with potash. Herbicide, insecticide, and fungicide applications were made on 28, 85, and 62 percent of the acres, respectively. The only herbicide with publishable data was **Napropamide**, used on 28 percent of the acreage. The most commonly used insecticides were **Spinosad**, **Imidacloprid**, and **Oxamyl**, covering 47, 37, and 24 percent of the acreage, respectively. **Copper hydroxide** and **Maneb** were the two most commonly used fungicides, applied to 38 and 29 percent of the acreage, respectively.

Garlic: California's garlic growers applied nitrogen, phosphate, and potash to 98, 88, and 35 percent of their acreage, respectively. Herbicides were used to treat 49 percent of the acres, with **Oxyfluorfen** being the most utilized active ingredient covering 39 percent of the acreage. Insecticides were applied to 31 percent of the planted acres. The only insecticide with publishable data was **Zeta-cypermethrin**, used on 28 percent of the acreage. Fungicides were applied to 55 percent of the acres. The two fungicides used most were **Tebuconazole**, on 48 percent of the acreage, and **Azoxystrobin**, on 43 percent of the acreage.

Honeydews: Arizona and California were the only States surveyed for honeydews. Growers applied nitrogen to 93 percent of the acreage, while phosphate was applied to 82 percent of the acreage. At the Program States level the active ingredient **Trifluralin** was the only herbicide with publishable data, covering 31 percent of the acreage. The most commonly used insecticides were **Imidacloprid** and **Benzoic acid**, on 49 and 29 percent of the acres, respectively. The only fungicides published at the Program State level were **Sulfur** and **Triflumizole**, used on 40 and 27 percent of the acres, respectively.

Lettuce, Head: Growers of head lettuce in Arizona and California applied nitrogen to 98 percent of the acreage. Phosphate, potash, and sulfur were applied to 85, 36, and 32 percent of the acreage. California and Arizona growers applied herbicides to 63 percent of the acres. The most commonly applied active ingredients were **Pronamide**, applied to 55 percent of the acreage, followed by **Bensulide**, applied to 24 percent of the acreage. Insecticides were used on 98 percent of the acres. The most commonly used insecticides were **Zeta-cypermethrin**, on 74 percent of the planted acreage; **Spinosad**, on 71 percent, and **Imidacloprid**, on 64 percent of the acreage. Fungicides were applied to 87 percent of the acres. **Maneb** was the most widely used, applied to 75 percent of the acreage, followed by **Dimethomorph** and **Iprodione**, applied to 34 and 29 percent, respectively. Other Chemicals were applied to 1 percent of the acres, however, there were insufficient reports to publish any active ingredient's data.

Lettuce, Other: Arizona and California other lettuce growers applied nitrogen and phosphate to 94 and 82 percent of their acreage, respectively. Herbicides were used on 62 percent of the acres, with **Pronamide** being the most utilized active ingredient, covering 55 percent of the acreage, followed by **Bensulide**, used to treat 28 percent of the acreage. Insecticides were applied to 93 percent of the acres. Insecticides used include **Zeta-cypermethrin**, on 66 percent, **Imidacloprid**, on 62 percent, **Spinosad**, on 56 percent, and **Diazinon**, on 52 percent of the acreage. Fungicides were applied to 74 percent of the acres. **Maneb** was the leading fungicide, as it was applied to 66 percent of the acreage. The only active ingredient with publishable data for Other Chemicals was **Acibenzolar-S-Methyl**, on 12 percent of the acreage.

Onions: The seven Program States: California, Georgia, New York, Oregon, Texas, Washington, and Wisconsin applied nitrogen to 96 percent of the planted acreage, while phosphate, potash, and sulfur were applied to 79, 55, and 38 percent of the acreage, respectively. Herbicides were applied to 79 percent of the bulb onion acres. Insecticide, fungicide, and other chemical applications were made to 78, 76, and 18 percent of the acres, respectively. Major herbicides used were **Oxyfluorfen**, applied to 69 percent of the acreage; followed by **Pendimethalin**, applied to 57 percent; and **Bromoxynil**, applied to 25 percent of the acreage. The more commonly used insecticides were **Lambda-cyhalothrin** and **Chlorpyrifos**, covering 34 and 32 percent of the acreage, respectively. **Mancozeb** was the most widely used fungicide and was applied to 58 percent of the acreage, followed by **Chlorothalonil**, applied to 50 percent of the acreage. Maleic hydrazide, the most commonly used Other Chemical, was applied to 10 percent of the acreage.

Peas, Green, Processing: Nitrogen was applied to 69 percent of the processed green pea acreage in the Program States: Minnesota, New York, Oregon, Washington, and Wisconsin. Phosphate, and potash application were both made on 45 percent of the acreage, while sulfur was applied to 23 percent of the acreage. Herbicides were applied to 92 percent of the surveyed acres. The most common herbicides applied were **Pendimethalin**, on 61 percent of the acreage; **Imazethapyr**, applied to 47 percent of the acreage; and **Bentazon**, applied to 25 percent of the acreage. Insecticides were applied to 19 percent of the planted acres for processed green peas. **Dimethoate** was applied to 10 percent of the acreage. Fungicides were applied to 3 percent of the acres. The only fungicide with publishable data was **Azoxystrobin**, used on 1 percent of the acreage.

Peppers, Bell: Bell pepper growers in the five Program States: California, Florida, Georgia, New Jersey, and North Carolina applied nitrogen to 99 percent of the acreage, while phosphate, potash, and sulfur were applied to 87, 92, and 21 percent, respectively. Herbicides were applied to 57 percent of the acres. The most commonly applied herbicides were **S-Metolachlor** and **Glyphosate isopropylamine salt**, applied to 37 and 13 percent of the acreage, respectively. Insecticides were applied to 91 percent of the acres. **Spinosad** was applied on 60 percent of the acreage; **Imidacloprid**, on 46 percent; **Acephate**, on 45 percent of the acreage; and **Benzoic acid**, on 40 percent of the acreage. Fungicides were used on 83 percent of the acres. The leading fungicides used were **Copper hydroxide**, on 51 percent of the acreage; **Maneb**, on 45 percent of the acreage; **Azoxystrobin**, on 23 percent of the acreage; and **Pyraclostrobin**, on 20 percent of the acreage. Other Chemicals were applied to 26 percent of the acres. **Chloropicrin** and **Hydrogen peroxide** were applied on 17 and 7 percent of the acreage, respectively.

Pumpkins: Nitrogen was applied to 91 percent of the pumpkin acreage in the Program States: California, Illinois, Michigan, Ohio, and Pennsylvania. Phosphate, potash, and sulfur applications were made on 69, 84, and 11 percent of the acreage, respectively. Herbicides were applied to 75 percent of the acres planted to pumpkins, while insecticide and fungicide applications were

made to 79 and 75 percent of the acres, respectively. Major herbicides used included **Clomazone**, applied to 60 percent of the acreage, followed by **Ethalfuralin**, applied to 25 percent of the acreage. The more commonly used insecticides were **Bifenthrin**, **Carbaryl**, and **Endosulfan**, covering 40, 18, and 16 percent of the acreage, respectively. **Chlorothalonil** was the most widely used fungicide and was applied on 48 percent of the acreage. **Copper hydroxide** was the next most utilized fungicide, applied to 28 percent of the acreage, followed by **Azoxystrobin**, on 22 percent of the acreage.

Spinach: Spinach growers in the three Program States, Arizona, California, and Texas, applied nitrogen to 90 percent of their acreage, while phosphate, potash, and sulfur were applied to 80, 49 and 40 percent, respectively. Herbicides and insecticides were applied to 54 and 74 percent of the acres, respectively. The only herbicide with publishable data was **S-Metolachlor**, used on 10 percent of the acreage. **Spinosad** was the most widely used insecticide, at 47 percent, followed by **Permethrin**, at 46 percent, and **Zeta-cypermethrin**, at 39 percent of the acres. Fungicides were used on 61 percent of the acres. **Mefenoxam** and **Pyraclostrobin** were the primary fungicides used on 48 and 21 percent of the acreage, respectively. Other Chemicals were used to treat 24 percent of the acres. The only Other Chemical with publishable data, **Acibenzolar-S-Methyl**, was used on 23 percent of the acreage.

Squash: Squash growers in the six Program States: California, Florida, Georgia, Michigan, New Jersey, New York, and North Carolina applied nitrogen to 91 percent of the acreage, while phosphate, potash, and sulfur applications were made to 64, 83, and 13 percent of the acreage, respectively. Herbicides were applied to 34 percent of the acres. The most commonly applied herbicides, **Ethalfuralin** and **Clomazone**, were used to treat 25 and 13 percent of the acreage. Insecticides were applied to 72 percent of the acres. The most commonly applied insecticides, **Esfenvalerate** and **Petroleum distillate**, were used to treat 25 percent of the acreage. Fungicides were applied to 71 percent of the acres. **Chlorothalonil** was the most widely used fungicide, on 45 percent of the acreage. Other fungicides included: **Maneb** was used on 20 percent of the acreage, and **Cymoxanil**, **Famoxadone**, and **Mancozeb**, were applied to 16 percent of the acreage. Other Chemicals were applied to 13 percent of the acres and **Dichloropropene**, applied to 10 percent of the acreage, was the most common.

Strawberries: Nitrogen was applied to 97 percent of the strawberry acreage in the four Program States: California, Florida, Oregon, and Washington. Phosphate, potash, and sulfur applications were made on 88, 92, and 23 percent of the acreage, respectively. Herbicides were used to treat 22 percent of the planted acres. **Sulfentrazone** was the most commonly applied on 7 percent of the acreage; followed by **Glyphosate isopropylamine salt** and **Napropamide**, both applied to 5 percent of the acreage. Insecticides were applied to 80 percent of the acres with **Spinosad** and **Methyl bromide** being the most utilized active ingredients, covering 45 and 39 percent of the acreage, respectively. **Bifenazate** and **Methomyl** were applied to 36 percent of the acreage. Fungicides were applied to 89 percent of the acres. **Captan** was the most commonly applied fungicide, at 76 percent; followed by **Pyraclostrobin** on 64 percent; and **Sulfur** on 61 percent of the acreage. Other Chemicals were used to treat 53 percent of the acres. **Chloropicrin**, the most commonly used Other Chemical, was used on 43 percent of the acreage.

Tomatoes, Fresh: For the 2006 crop year, seven Program States, California, Florida, Georgia, New Jersey, North Carolina, Ohio, and Tennessee, were surveyed for tomatoes. Nitrogen, phosphate, potash, and sulfur were applied to 98, 96, 95, and 47 percent of the acreage, respectively. Herbicides were used on 41 percent of the acres. **Metribuzin** was the most

commonly applied herbicide being used on 21 percent of the acreage, followed by **Paraquat** on 17 percent of the acreage. Insecticides were applied to 82 percent of the acres. **Endosulfan** was used on 36 percent of the acreage; **Esfenvalerate**, on 31 percent of the acreage; and **Methyl bromide**, on 30 percent. Fungicides were applied to 81 percent of the acres. The leading fungicides were **Chlorothalonil**, on 65 percent of the acreage, followed by **Copper hydroxide** and **Mancozeb**, both applied to 57 percent of the acreage. Other Chemicals were applied to 27 percent of the acres. **Chloropicrin** was applied on 25 percent of the acreage.

Tomatoes, Processing: California was the only state surveyed for processed tomatoes. Nitrogen, phosphate, potash, and sulfur were applied to 98, 77, 52, and 20 percent of the acreage, respectively. Herbicides were applied to 65 percent of the processed tomato acres. The leading herbicides used were **Trifluralin**, on 51 percent of the acreage, **S-Metolachlor**, on 38 percent, and **Rimsulfuron**, on 30 percent. Insecticides were applied to 71 percent of the acres. **Dimethoate** and **Indoxacarb** were the most commonly applied insecticides on 32 and 31 percent of the acreage, respectively. Fungicides were applied to 76 percent of the acres. **Sulfur** was the most utilized fungicide, as it was applied to 64 percent of California's planted acreage. Other Chemicals were applied to 23 percent of the planted acres, with **Ethephon** being the most commonly applied on 13 percent.

Watermelons: In the seven Program States (Arizona, California, Florida, Georgia, North Carolina, South Carolina, and Texas) watermelon growers applied nitrogen to 98 percent of their acreage. Phosphate was applied to 87 percent of the acreage, while potash was applied to 86 percent of the acreage. Sulfur applications were made to 23 percent of the acreage. Herbicides were applied to 38 percent of the planted acres, while 56 percent of the acres was treated with insecticides. Fungicides were applied to 80 percent of the acres, while 13 percent of the acres was treated with Other Chemicals. **Ethalfuralin** was the most commonly applied herbicide, at 13 percent, followed by **Naptalam** and **Trifluralin**, on 7 percent of the acreage. The insecticide **Imidacloprid** was applied to 10 percent of the acreage, followed by **Esfenvalerate**, to 9 percent, and **Endosulfan**, to 8 percent of the acreage. **Chlorothalonil** was the most utilized fungicide, covering 52 percent of the acreage, followed by **Mancozeb**, which was applied to 31 percent of the acreage. **Metamsodium** and **Dichloropropene** were the two most commonly used Other Chemicals, applied to 6 and 3 percent of the acreage, respectively.

**Asparagus: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied**

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	25,000	66	1,194.0	39	197.7	42	481.4	21	46.9
MI	12,200	97	820.1	37	106.5	94	1,445.3	24	29.8
WA	9,000	77	1,085.8	28	202.3	24	213.9	47	224.8
Total	46,200	77	3,100.0	37	506.4	52	2,140.6	27	301.5

**Asparagus: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	25,000					
Nitrogen		66	1.1	64	72	1,194.0
Phosphate		39	1.2	16	20	197.7
Potash		42	1.3	36	46	481.4
Sulfur		21	1.0	9	9	46.9
Michigan	12,200					
Nitrogen		97	2.2	32	69	820.1
Phosphate		37	1.6	14	23	106.5
Potash		94	2.0	63	126	1,445.3
Sulfur		24	1.2	9	10	29.8
Washington	9,000					
Nitrogen		77	1.6	95	157	1,085.8
Phosphate		28	1.3	61	81	202.3
Potash		24	1.4	70	100	213.9
Sulfur		47	1.7	31	53	224.8
Program States	46,200					
Nitrogen		77	1.6	55	91	3,100.0
Phosphate		37	1.4	23	32	506.4
Potash		52	1.7	56	94	2,140.6
Sulfur		27	1.3	20	27	301.5

**Asparagus: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States			
	ALL	CA	MI	WA
Herbicides				
2,4-D, dieth. salt	*		*	
2,4-D, dimeth. salt	P	*	P	*
Bromoxynil	*			*
Clethodim	*		*	
Clopyralid	*			*
Dicamba, digly. salt	*	*	*	
Dicamba, sodium salt	*			*
Diuron	P	P	P	P
Fluazifop-P-butyl	P	*	P	*
Glyphosate amm. salt	P		*	*
Glyphosate iso. salt	P	P	P	P
Halosulfuron	P	*	*	*
Linuron	P	P	*	*
Metolachlor	*		*	
Metribuzin	P	P	P	P
Norflurazon	*		*	
Paraquat	P	*	P	*
Pendimethalin	*			*
Propachlor	*			*
S-Metolachlor	P	*	*	
Sethoxydim	*	P	*	
Sulfentrazone	P		P	
Terbacil	P		P	
Trifluralin	P	P	*	*
Insecticides				
Abamectin	*	*		
Azadirachtin	*		*	
Bt subsp. kurstaki	*	*		
Carbaryl	P	*	P	*
Carbofuran	*		*	
Chlorpyrifos	P	P	*	*
Cyfluthrin	*		*	
Diazinon	*		*	
Dicofol	*	*		
Dimethoate	*	*		*
Disulfoton	P	P	*	*
Emamectin benzoate	*	*		
Esfenvalerate	*		*	
Imidacloprid	*		*	*
Malathion	P	*	*	*
Methomyl	*	*	*	
Permethrin	P		P	

See footnote(s) at end of table.

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**Asparagus: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States			
	ALL	CA	MI	WA
Insecticides (continued)				
Phosmet	*		*	
Pyrethrins	*	*	*	
Spinosad	*	*		
Thiacloprid	*		*	
Thiamethoxam	*		*	
Fungicides				
Chlorothalonil	P		P	
Mancozeb	P		P	P
Maneb	*		*	
Myclobutanil	*	*	*	
Sulfur	P	*	*	
Tebuconazole	P		P	
Other Chemicals				
Dichloropropene	*	*		
Metam-sodium	*	*		

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

**Asparagus: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	25,000	72	75.6	66	29.7	12	39.4	(²)	
MI	12,200	97	47.4	91	31.9	89	54.7		
WA	9,000	71	17.5	42	6.1	22	3.2		
Total	46,200	78	140.5	68	67.6	34	97.3	(²)	

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.

**Asparagus: Agricultural Chemical Applications,
Program States, 2006 ¹**

Active Ingredient	Area Applied	Appli-cations	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
2,4-D, dimeth. salt	5	1.3	1.418	1.782	3.9
Diuron	62	1.3	1.523	2.034	57.6
Fluazifop-P-butyl	2	1.0	0.285	0.285	0.2
Glyphosate amm. salt	3	1.3	0.145	0.185	0.3
Glyphosate iso. salt	38	1.5	1.095	1.608	27.3
Halosulfuron	3	1.3	0.050	0.065	0.1
Linuron	15	1.4	0.752	1.078	7.6
Metribuzin	37	1.3	0.691	0.902	14.9
Paraquat	6	1.3	0.646	0.848	2.3
S-Metolachlor	9	1.1	1.133	1.192	5.2
Sulfentrazone	9	1.1	0.194	0.217	0.9
Terbacil	1	1.0	0.359	0.359	0.1
Trifluralin	25	1.2	1.358	1.605	18.8
Insecticides					
Carbaryl	38	2.3	0.780	1.813	32.3
Chlorpyrifos	24	1.2	0.918	1.109	12.3
Disulfoton	32	1.1	1.001	1.114	16.5
Malathion	2	1.2	0.892	1.067	0.8
Permethrin	16	2.8	0.105	0.291	2.1
Fungicides					
Chlorothalonil	20	2.7	1.490	3.974	37.5
Mancozeb	14	1.8	1.395	2.495	16.9
Sulfur	3	1.4	20.480	29.064	42.4
Tebuconazole	4	1.3	0.110	0.143	0.3

¹ Planted acreage in 2006 for the 3 Program States was 46,200 acres.

States included are CA, MI, and WA.

**Asparagus: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Diuron	55	1.2	1.765	2.188	30.3
Glyphosate iso. salt	23	1.3	1.693	2.268	12.8
Linuron	25	1.5	0.754	1.115	7.1
Metribuzin	21	1.0	1.029	1.037	5.4
Sethoxydim	5	1.2	0.366	0.438	0.6
Trifluralin	31	1.2	1.572	1.877	14.6
Insecticides					
Chlorpyrifos	20	1.4	0.945	1.282	6.4
Disulfoton	43	1.1	1.002	1.070	11.6

¹ Planted acreage in 2006 for California was 25,000 acres.

**Asparagus: Agricultural Chemical Applications,
Michigan, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
2,4-D, dimeth. salt	8	1.2	0.970	1.169	1.2
Diuron	89	1.5	1.263	1.870	20.2
Fluazifop-P-butyl	5	1.0	0.272	0.272	0.2
Glyphosate iso. salt	89	1.6	0.798	1.254	13.6
Metribuzin	72	1.3	0.419	0.543	4.8
Paraquat	13	1.2	0.588	0.688	1.1
Sulfentrazone	36	1.1	0.194	0.217	0.9
Terbacil	3	1.0	0.359	0.359	0.1
Insecticides					
Carbaryl	88	3.3	0.618	2.041	21.9
Permethrin	59	2.8	0.105	0.291	2.1
Fungicides					
Chlorothalonil	77	2.7	1.490	3.974	37.5
Mancozeb	38	2.2	1.360	2.985	13.7
Tebuconazole	16	1.3	0.110	0.143	0.3

¹ Planted acreage in 2006 for Michigan was 12,200 acres.

**Asparagus: Agricultural Chemical Applications,
Washington, 2006 ¹**

Active Ingredient	Area Applied	Appli- cations	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Diuron	43	1.4	1.348	1.839	7.1
Glyphosate iso. salt	12	1.3	0.684	0.915	1.0
Metribuzin	36	1.8	0.797	1.438	4.7
Fungicides					
Mancozeb	22	1.1	1.527	1.612	3.2

¹ Planted acreage in 2006 for Washington was 9,000 acres.

Snap Beans, Fresh: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	7,700	90	560.6	77	374.6	73	232.9	(¹)	
FL	33,400	87	2,544.7	65	1,747.7	81	3,222.8	(¹)	
GA	20,000	89	2,223.5	89	1,500.7	86	2,172.5	(¹)	
NY	10,700	72	295.6	72	301.0	72	364.9	(¹)	
NC	7,200	99	657.6	95	767.3	99	973.0	23	27.1
TN	9,500	100	611.4	100	611.7	100	616.9		
Total	88,500	88	6,893.4	79	5,303.1	84	7,583.0	16	347.0

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Snap Beans, Fresh: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	7,700					
Nitrogen		90	3.8	21	81	560.6
Phosphate		77	4.3	15	64	374.6
Potash		73	4.3	10	41	232.9
Sulfur ¹						
Florida	33,400					
Nitrogen		87	3.0	29	87	2,544.7
Phosphate		65	1.3	60	80	1,747.7
Potash		81	2.6	45	119	3,222.8
Sulfur ¹						
Georgia	20,000					
Nitrogen		89	2.4	52	125	2,223.5
Phosphate		89	1.7	50	85	1,500.7
Potash		86	1.9	65	126	2,172.5
Sulfur ¹						
New York	10,700					
Nitrogen		72	1.5	25	38	295.6
Phosphate		72	1.5	26	39	301.0
Potash		72	1.5	31	47	364.9
Sulfur ¹						
North Carolina	7,200					
Nitrogen		99	1.8	51	93	657.6
Phosphate		95	1.7	65	112	767.3
Potash		99	1.4	100	137	973.0
Sulfur		23	1.0	16	16	27.1
Tennessee	9,500					
Nitrogen		100	1.1	60	65	611.4
Phosphate		100	1.1	61	65	611.7
Potash		100	1.1	61	65	616.9
Program States	88,500					
Nitrogen		88	2.4	36	86	6,893.4
Phosphate		79	1.5	53	80	5,303.1
Potash		84	2.1	50	105	7,583.0
Sulfur		16	1.1	15	16	347.0

¹ Insufficient reports to publish fertilizer data.

**Snap Beans, Fresh: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States						
	ALL	CA	FL	GA	NY	NC	TN
Herbicides							
Atrazine	*			*	*		
Bensulide	*					*	
Bentazon	P	*		*	*	*	P
Clethodim	*					*	
Clomazone	*				*		
DCPA	*						*
EPTC	P	*	*		*		
Ethalfuralin	*		*				
Fomesafen	*			*		*	
Glyphosate iso. salt	P	*	*	*	*	*	*
Halosulfuron	*		*	*	*		
Imazethapyr	*				*		
Lactofen	*		*				*
Metolachlor	*					*	
Paraquat	P	*		*		*	
Pendimethalin	P	*	*	P	P	P	*
S-Metolachlor	P	*	P	P	P	P	*
Sethoxydim	P		*		*	*	P
Trifluralin	P	*	P	P	P	P	*
Insecticides							
Acephate	P	*	P	P	*	P	*
Aldicarb	*		*				
Aluminum phosphide	*	*					
Azadirachtin	*	*	*				
Azinphos-methyl	*						*
Benzoic acid	*	*	*				
Bifenthrin	P	*	*	*		*	*
Bt subsp. aizawai	*	*					
Bt subsp. kurstaki	P	*	P			*	*
Canola oil	*			*			
Carbaryl	P	*	P	P	*	P	P
Chlorpyrifos	*			*			
Cyfluthrin	*		*	*		*	
Cyromazine	*		*				
Diazinon	*					*	*
Dicofol	*	*	*				
Dimethoate	P	*	*			*	*
Disulfoton	*					*	
Endosulfan	P		P	*	*	P	P
Esfenvalerate	P	*	*	P	*	P	P
Gamma-cyhalothrin	*	*					
Imidacloprid	P	*	*	*			*

See footnote(s) at end of table.

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**Snap Beans, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States						
	ALL	CA	FL	GA	NY	NC	TN
Insecticides (continued)							
Lambda-cyhalothrin	P	*			*	*	*
Malathion	*	*		*		*	
Methomyl	P		P	*	*	*	*
Oxamyl	*		*				
Permethrin	P			*	*	*	P
Petroleum distillate	*	*	*				
Pyrethrins	*	*		*			*
Pyriproxyfen	*			*			
Rotenone	*	*					*
Spinosad	P	P					
Zeta-cypermethrin	P	*		*		*	*
Fungicides							
Azoxystrobin	P	*	P	*	*	*	P
Bacillus subtilis	*	*					
Basic copper sulfate	*						*
Boscalid	*			*			
Chlorothalonil	P		P	P	*	*	P
Copper hydroxide	P		*		*	*	*
Copper sulfate	*					*	*
Cymoxanil	*					*	
Dicloran	*	*					
Etridiazole	*					*	
Famoxadone	*					*	
Iprodione	*	*	*		*		
Mancozeb	P		*		*	*	*
Mefenoxam	P		*	*		*	
Metalaxyl	P		*	*			
Myclobutanil	P	*		*			P
PCNB	*		*			*	
Potassium bicarbon.	*	*					
Propiconazole	*		*				
Pyraclostrobin	P			*		*	*
Sulfur	P	*	P	*		*	*
Tebuconazole	*			*			
Thiophanate-methyl	P	*	*				
Triforine	*				*		
Other Chemicals							
Chloropicrin	*					*	
Dichloropropene	P			P			
Diphacinone	*	*					
GABA	*		*				

See footnote(s) at end of table.

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**Snap Beans, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States						
	ALL	CA	FL	GA	NY	NC	TN
Other Chemicals (continued)							
Hydrogen peroxide	*	*					
L-Glutamic acid	*		*				
Metam-sodium	*	*					
Methyl bromide	*					*	

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

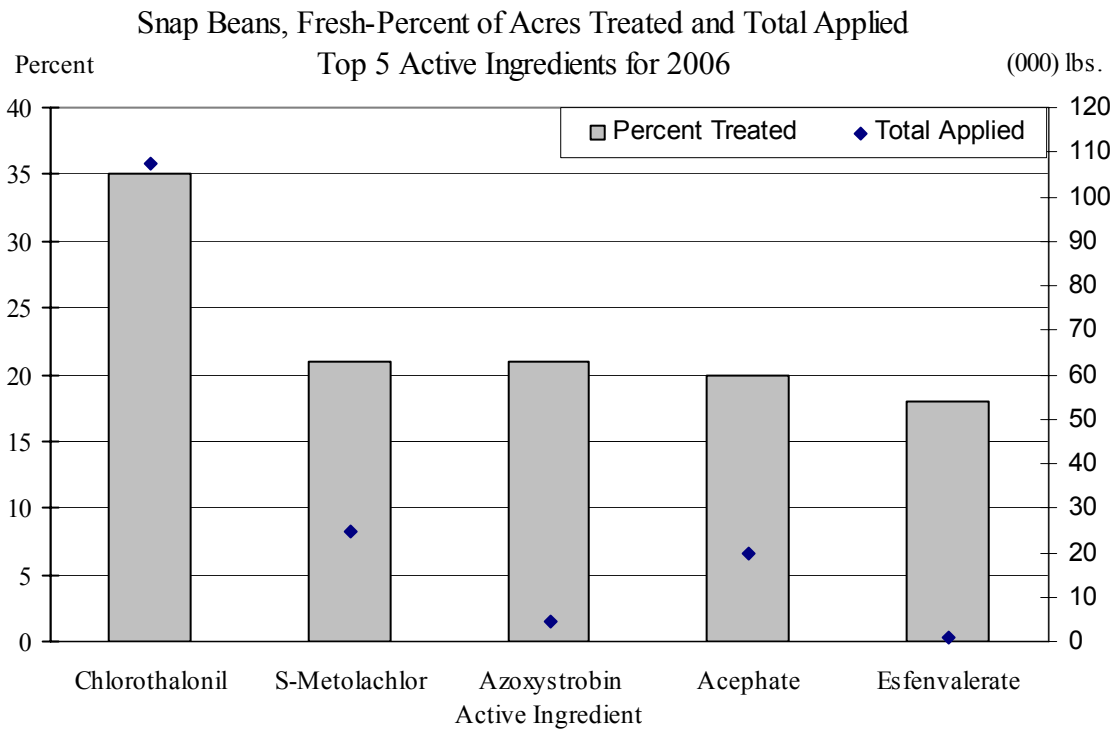
**Snap Beans, Fresh: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	7,700	35	5.5	44	3.7	29	23.5	(²)	
FL	33,400	30	10.2	88	24.8	96	109.5	(²)	
GA	20,000	69	17.5	71	12.9	69	77.1	24	409.2
NY	10,700	14	1.9	1	0.1				
NC	7,200	94	9.1	95	6.1	86	4.5	(²)	
TN	9,500	83	9.2	99	0.5	53	10.0		
Total	88,500	48	53.4	72	48.0	67	224.7	7	414.3

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.



**Snap Beans, Fresh: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	8	1.0	0.804	0.804	5.9
EPTC	3	1.1	2.060	2.266	6.0
Glyphosate iso. salt	3	1.0	0.306	0.316	0.9
Paraquat	2	1.0	0.990	0.990	1.5
Pendimethalin	11	1.1	0.521	0.548	5.6
S-Metolachlor	21	1.2	1.080	1.301	24.5
Sethoxydim	10	1.0	0.527	0.548	5.0
Trifluralin	5	1.0	0.572	0.591	2.8
Insecticides					
Acephate	20	1.6	0.706	1.140	19.9
Bifenthrin	10	2.1	0.071	0.148	1.3
Bt subsp. kurstaki ²	3	3.0			
Carbaryl	1	1.6	0.902	1.436	1.7
Dimethoate	4	2.7	0.260	0.703	2.7
Endosulfan	3	2.0	0.650	1.288	3.9
Esfenvalerate	18	1.6	0.031	0.049	0.8
Imidacloprid	6	1.1	0.181	0.196	1.1
Lambda-cyhalothrin	*	1.4	0.027	0.036	(³)
Methomyl	10	2.4	0.329	0.786	6.9
Permethrin	*	1.1	0.095	0.101	(³)
Spinosad	1	1.1	0.081	0.089	0.1
Zeta-cypermethrin	3	1.0	0.023	0.024	0.1
Fungicides					
Azoxystrobin	21	1.5	0.155	0.227	4.3
Chlorothalonil	35	2.7	1.306	3.486	107.5
Copper hydroxide	1	3.3	0.379	1.253	1.2
Mancozeb	12	4.1	0.526	2.130	23.3
Mefenoxam	7	1.0	0.211	0.211	1.4
Metalaxyl	7	1.7	0.172	0.285	1.7
Myclobutanil	1	2.0	0.100	0.201	0.2
Pyraclostrobin	2	1.0	0.022	0.023	(³)
Sulfur	13	2.5	2.727	6.895	76.9
Thiophanate-methyl	4	1.2	0.802	0.960	3.6
Other Chemicals					
Dichloropropene	5	1.0	86.830	86.830	409.2

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 6 Program States was 88,500 acres.

States included are CA, FL, GA, NY, NC, and TN.

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

³ Total applied is less than 50 lbs.

**Snap Beans, Fresh: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides					
Spinosad	8	1.1	0.081	0.089	0.1

¹ Planted acreage in 2006 for California was 7,700 acres.

**Snap Beans, Fresh: Agricultural Chemical Applications,
Florida, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
S-Metolachlor	14	1.0	0.980	0.981	4.7
Trifluralin	6	1.0	0.544	0.544	1.1
Insecticides					
Acephate	13	2.4	0.658	1.564	6.7
Bt subsp. kurstaki ²	3	5.4			
Carbaryl	1	2.0	0.990	1.976	0.7
Endosulfan	7	2.0	0.671	1.343	3.1
Methomyl	14	2.8	0.342	0.953	4.4
Fungicides					
Azoxystrobin	25	1.6	0.149	0.233	1.9
Chlorothalonil	47	2.4	1.239	2.944	45.9
Sulfur	17	1.8	3.089	5.712	33.0

¹ Planted acreage in 2006 for Florida was 33,400 acres.

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

**Snap Beans, Fresh: Agricultural Chemical Applications,
Georgia, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Pendimethalin	25	1.1	0.527	0.573	2.9
S-Metolachlor	47	1.4	0.980	1.382	12.9
Trifluralin	8	1.0	0.509	0.509	0.8
Insecticides					
Acephate	35	1.7	0.722	1.214	8.5
Carbaryl	*	2.4	0.485	1.170	(²)
Esfenvalerate	15	2.4	0.031	0.075	0.2
Fungicides					
Chlorothalonil	62	3.1	1.344	4.166	51.5
Other Chemicals					
Dichloropropene	24	1.0	86.830	86.830	409.2

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Georgia was 20,000 acres.

² Total applied is less than 50 lbs.

**Snap Beans, Fresh: Agricultural Chemical Applications,
New York, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Pendimethalin	3	1.0	1.148	1.148	0.4
S-Metolachlor	3	1.0	1.319	1.319	0.4
Trifluralin	2	1.0	0.486	0.486	0.1

¹ Planted acreage in 2006 for New York was 10,700 acres.

**Snap Beans, Fresh: Agricultural Chemical Applications,
North Carolina, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Pendimethalin	2	1.0	0.615	0.615	0.1
S-Metolachlor	52	1.0	1.412	1.412	5.3
Trifluralin	5	1.0	0.711	0.711	0.2
Insecticides					
Acephate	85	1.0	0.751	0.754	4.6
Carbaryl	2	2.3	0.857	1.976	0.3
Endosulfan	3	2.4	0.589	1.419	0.4
Esfenvalerate	10	1.8	0.033	0.058	(²)

¹ Planted acreage in 2006 for North Carolina was 7,200 acres.

² Total applied is less than 50 lbs.

**Snap Beans, Fresh: Agricultural Chemical Applications,
Tennessee, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	48	1.0	0.875	0.875	4.0
Sethoxydim	70	1.0	0.585	0.585	3.9
Insecticides					
Carbaryl	*	4.8	0.650	3.114	0.1
Endosulfan	*	3.6	0.580	2.108	(²)
Esfenvalerate	99	1.2	0.028	0.034	0.3
Permethrin	*	2.0	0.174	0.343	(²)
Fungicides					
Azoxystrobin	23	1.7	0.183	0.319	0.7
Chlorothalonil	26	2.5	1.455	3.703	9.1
Myclobutanil	*	3.6	0.093	0.335	(²)

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Tennessee was 9,500 acres.

² Total applied is less than 50 lbs.

Snap Beans, Proc.: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
IL	15,800	97	1,282.9	56	506.3	57	657.4	(¹)	
MI	19,000	93	656.7	85	515.7	80	840.3	34	75.9
NY	22,200	100	763.4	100	1,383.9	55	1,142.6	(¹)	
OR	18,900	98	1,645.6	88	2,040.5	94	1,393.6	65	370.3
PA	10,900	99	325.2	99	543.9	99	504.4	27	38.4
WI	73,500	93	5,291.5	80	2,173.9	89	4,867.8	38	786.7
Total	160,300	95	9,965.4	83	7,164.1	81	9,406.1	34	1,296.0

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Snap Beans, Proc.: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Illinois	15,800					
Nitrogen		97	2.1	40	84	1,282.9
Phosphate		56	1.7	34	57	506.3
Potash		57	1.6	44	73	657.4
Sulfur ¹						
Michigan	19,000					
Nitrogen		93	1.8	21	37	656.7
Phosphate		85	1.0	31	32	515.7
Potash		80	1.2	46	55	840.3
Sulfur		34	1.1	10	12	75.9
New York	22,200					
Nitrogen		100	1.0	34	34	763.4
Phosphate		100	1.0	62	62	1,383.9
Potash		55	1.1	86	94	1,142.6
Sulfur ¹						
Oregon	18,900					
Nitrogen		98	1.5	61	89	1,645.6
Phosphate		88	1.1	113	123	2,040.5
Potash		94	1.1	70	78	1,393.6
Sulfur		65	1.2	25	30	370.3
Pennsylvania	10,900					
Nitrogen		99	1.1	27	30	325.2
Phosphate		99	1.2	41	51	543.9
Potash		99	1.1	42	47	504.4
Sulfur		27	1.0	13	13	38.4
Wisconsin	73,500					
Nitrogen		93	2.3	33	77	5,291.5
Phosphate		80	1.0	36	37	2,173.9
Potash		89	1.3	56	74	4,867.8
Sulfur		38	1.8	15	28	786.7
Program States	160,300					
Nitrogen		95	1.9	37	69	9,965.4
Phosphate		83	1.1	53	60	7,164.1
Potash		81	1.3	55	70	9,406.1
Sulfur		34	1.5	16	23	1,296.0

¹ Insufficient reports to publish fertilizer data.

**Snap Beans, Proc.: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States						
	ALL	IL	MI	NY	OR	PA	WI
Herbicides							
2,4-D, 2-EHE	*					*	
Bentazon	P	P	P	P	P	P	P
Carfentrazone-ethyl	*				*		
Clethodim	*	*	*			*	
Clomazone	*					*	
EPTC	P		P	*	P	*	P
Fomesafen	P		P	P		P	
Glyphosate iso. salt	P	*	P	*	P	P	*
Halosulfuron	P	*		*		P	P
Imazamox	P	*			P	*	*
Imazethapyr	P	*					*
Imazethapyr, ammon.	P						P
Lactofen	P				P		
MCPB	*				*		
Metolachlor	*				*		*
Napropamide	*					*	
Paraquat	*					*	
Pendimethalin	P	P	*	*		*	P
Quizalofop-P-ethyl	P		*	*		*	*
S-Metolachlor	P	P	P	P	P	P	P
Sethoxydim	P	*	*		P	P	P
Sulfosate	*						*
Trifluralin	P	*	P	P	P	*	P
Insecticides							
Acephate	P	*	P	*		P	P
Azinphos-methyl	*			*			
Bifenthrin	P	P	*	*		P	P
Bt subsp. kurstaki	*		*				
Carbaryl	P	*	P		P	*	
Carbofuran	*				*		
Chlorpyrifos	*				*		
Dimethoate	P		*			*	
Disulfoton	*		*				
Esfenvalerate	P	*			P	*	
Ethoprop	P				P		
Imidacloprid	*				*		
Lambda-cyhalothrin	P		P	*	*	*	*
Methomyl	*					*	
Methyl parathion	*					*	
Permethrin	P	*	*		*	*	
Pyrethrins	*		*				
Zeta-cypermethrin	P	P	*		*	*	P

See footnote(s) at end of table.

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**Snap Beans, Proc.: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States						
	ALL	IL	MI	NY	OR	PA	WI
Fungicides							
Azoxystrobin	*		*			*	
Bacillus subtilus	*		*				
Boscalid	P		*	*	P	P	*
Captan	*					*	
Chlorothalonil	P		*	*		*	
Coniothyrium minitan	*	*					
Copper hydroxide	P	P	*		*		P
Copper oxide	*			*			
Cyprodinil	*				*		
Fludioxonil	*				*		
Iprodione	P		*		P	*	
Maneb	*					*	
Mefenoxam	*				*		
Myclobutanil	*	*					*
Pyraclostrobin	*		*				
Sulfur	*		*				
Thiophanate-methyl	P	P	*	P	P	*	P
Other Chemicals							
Cytokinins	*				*		
Dodecadien-1-ol	*					*	
Ethephon	*					*	
Metaldehyde	*				*		

P Usage data are published for this active ingredient.

*Usage data are not published for this active ingredient.

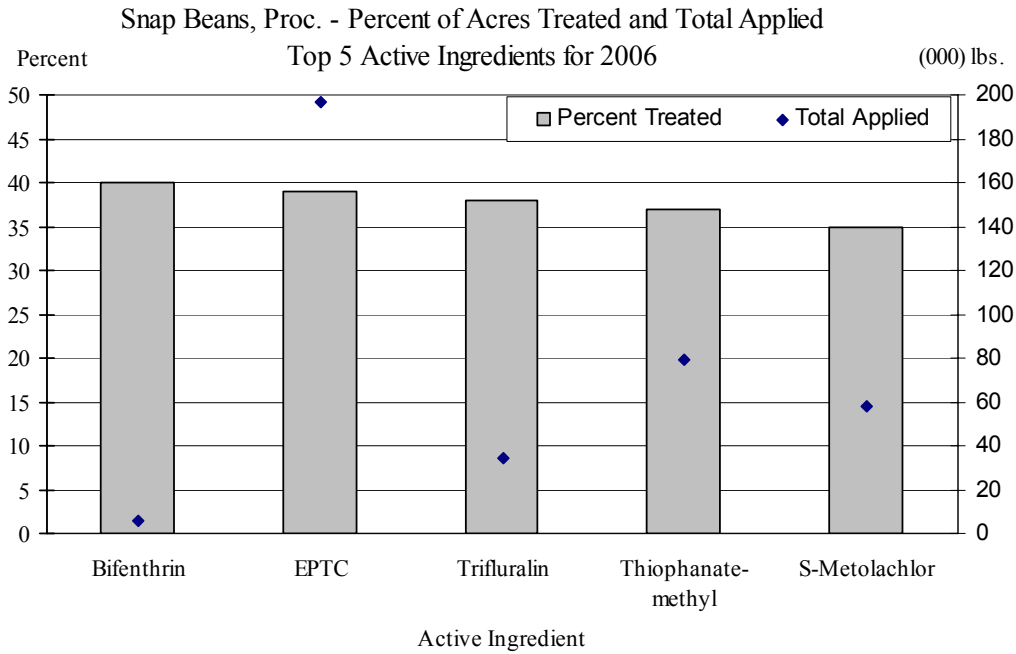
**Snap Beans, Proc.: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
IL	15,800	97	30.1	93	7.2	65	20.9		
MI	19,000	97	31.4	88	24.7	48	21.3		
NY	22,200	100	83.0	35	2.8	92	97.0		
OR	18,900	96	95.5	88	40.0	91	34.3	(²)	
PA	10,900	93	19.7	89	2.1	41	2.9	(²)	
WI	73,500	93	109.6	70	6.5	32	36.6		
Total	160,300	95	369.3	73	83.3	53	213.0	1	1.4

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.



**Snap Beans, Proc.: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	27	1.1	0.626	0.709	31.6
EPTC	39	1.1	2.954	3.244	196.5
Fomesafen	11	1.0	0.187	0.192	3.5
Glyphosate iso. salt	11	1.0	0.928	0.946	17.0
Halosulfuron	21	1.0	0.026	0.026	0.9
Imazamox	7	1.0	0.031	0.031	0.4
Imazethapyr	5	1.0	0.051	0.051	0.4
Imazethapyr, ammon.	4	1.0	0.023	0.023	0.1
Lactofen	2	1.1	0.145	0.159	0.5
Pendimethalin	16	1.2	0.673	0.828	20.7
Quizalofop-P-ethyl	2	1.0	0.053	0.053	0.2
S-Metolachlor	35	1.0	1.007	1.027	57.6
Sethoxydim	8	1.1	0.238	0.259	3.2
Trifluralin	38	1.1	0.527	0.573	34.6
Insecticides					
Acephate	16	1.4	0.656	0.921	23.6
Bifenthrin	40	2.0	0.044	0.090	5.6
Carbaryl	3	2.6	0.905	2.326	9.7
Dimethoate	4	1.6	0.320	0.506	3.5
Esfenvalerate	9	1.1	0.036	0.040	0.6
Ethoprop	7	1.4	2.345	3.208	38.2
Lambda-cyhalothrin	8	1.3	0.026	0.034	0.4
Permethrin	1	1.0	0.075	0.076	0.1
Zeta-cypermethrin	11	1.3	0.024	0.032	0.5
Fungicides					
Boscalid	8	1.3	0.281	0.366	4.8
Chlorothalonil	3	1.3	1.458	1.877	9.3
Copper hydroxide	16	1.6	0.769	1.244	32.8
Iprodione	10	1.1	0.764	0.813	13.1
Thiophanate-methyl	37	1.4	0.920	1.314	79.2

¹ Planted acreage in 2006 for the 6 Program States was 160,300 acres.
States included are IL, MI, NY, OR, PA, and WI.

**Snap Beans, Proc.: Agricultural Chemical Applications,
Illinois, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	48	1.8	0.948	1.661	12.7
Pendimethalin	38	1.8	0.791	1.445	8.7
S-Metolachlor	18	1.1	1.329	1.397	3.9
Insecticides					
Bifenthrin	90	2.7	0.046	0.126	1.8
Zeta-cypermethrin	36	1.4	0.025	0.035	0.2
Fungicides					
Copper hydroxide	55	1.6	0.691	1.081	9.4
Thiophanate-methyl	46	1.3	1.155	1.495	10.8

¹ Planted acreage in 2006 for Illinois was 15,800 acres.

**Snap Beans, Proc.: Agricultural Chemical Applications,
Michigan, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	58	1.0	0.515	0.515	5.7
EPTC	27	1.0	2.283	2.283	11.7
Fomesafen	43	1.0	0.175	0.177	1.4
Glyphosate iso. salt	13	1.0	0.747	0.770	2.0
S-Metolachlor	39	1.0	0.859	0.859	6.3
Trifluralin	37	1.0	0.579	0.579	4.1
Insecticides					
Acephate	54	1.9	0.598	1.108	11.4
Carbaryl	16	3.2	0.919	2.916	8.7
Lambda-cyhalothrin	8	1.6	0.019	0.031	(²)

¹ Planted acreage in 2006 for Michigan was 19,000 acres.

² Total applied is less than 50 lbs.

**Snap Beans, Proc.: Agricultural Chemical Applications,
New York, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	32	1.0	0.357	0.361	2.5
Fomesafen	38	1.0	0.186	0.187	1.6
S-Metolachlor	70	1.0	0.953	0.953	14.8
Trifluralin	78	1.0	0.501	0.504	8.7
Fungicides					
Thiophanate-methyl	92	1.8	0.696	1.282	26.2

¹ Planted acreage in 2006 for New York was 22,200 acres.

**Snap Beans, Proc.: Agricultural Chemical Applications,
Oregon, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	59	1.0	0.580	0.594	6.6
EPTC	86	1.3	3.214	4.237	68.8
Glyphosate iso. salt	10	1.1	1.202	1.279	2.3
Imazamox	49	1.0	0.031	0.032	0.3
Lactofen	17	1.1	0.145	0.159	0.5
S-Metolachlor	36	1.1	1.128	1.187	8.2
Sethoxydim	33	1.1	0.263	0.286	1.8
Trifluralin	45	1.5	0.511	0.783	6.7
Insecticides					
Carbaryl	6	1.0	0.793	0.793	0.9
Esfenvalerate	72	1.1	0.037	0.040	0.5
Ethoprop	63	1.4	2.345	3.208	38.2
Fungicides					
Boscalid	17	1.1	0.320	0.346	1.1
Iprodione	80	1.1	0.775	0.828	12.5
Thiophanate-methyl	84	1.1	1.131	1.293	20.5

¹ Planted acreage in 2006 for Oregon was 18,900 acres.

**Snap Beans, Proc.: Agricultural Chemical Applications,
Pennsylvania, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	13	1.0	0.539	0.539	0.7
Fomesafen	13	1.2	0.255	0.297	0.4
Glyphosate iso. salt	45	1.0	1.058	1.086	5.3
Halosulfuron	59	1.0	0.029	0.029	0.2
S-Metolachlor	88	1.0	1.023	1.071	10.2
Sethoxydim	5	1.3	0.338	0.443	0.3
Insecticides					
Acephate	21	1.1	0.591	0.629	1.5
Bifenthrin	28	1.0	0.062	0.064	0.2
Fungicides					
Boscalid	22	1.0	0.313	0.320	0.8

¹ Planted acreage in 2006 for Pennsylvania was 10,900 acres.

**Snap Beans, Proc.: Agricultural Chemical Applications,
Wisconsin, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	7	1.0	0.633	0.633	3.3
EPTC	31	1.0	2.636	2.662	60.1
Halosulfuron	37	1.0	0.025	0.025	0.7
Imazethapyr, ammon.	8	1.0	0.023	0.023	0.1
Pendimethalin	27	1.0	0.586	0.586	11.6
S-Metolachlor	19	1.0	1.014	1.024	14.1
Sethoxydim	8	1.1	0.159	0.168	1.0
Trifluralin	36	1.0	0.529	0.529	14.2
Insecticides					
Acephate	7	1.0	0.595	0.605	3.0
Bifenthrin	55	1.9	0.040	0.077	3.1
Zeta-cypermethrin	13	1.1	0.024	0.026	0.3
Fungicides					
Copper hydroxide	21	1.5	0.844	1.285	20.2
Thiophanate-methyl	16	1.1	1.201	1.347	16.1

¹ Planted acreage in 2006 for Wisconsin was 73,500 acres.

Broccoli: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	128,500	96	26,639.5	61	6,423.8	42	2,620.4	26	860.5
Total	128,500	96	26,639.5	61	6,423.8	42	2,620.4	26	860.5

**Broccoli: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	128,500					
Nitrogen		96	2.9	75	216	26,639.5
Phosphate		61	1.2	68	82	6,423.8
Potash		42	2.0	25	49	2,620.4
Sulfur		26	1.3	20	26	860.5
Program States	128,500					
Nitrogen		96	2.9	75	216	26,639.5
Phosphate		61	1.2	68	82	6,423.8
Potash		42	2.0	25	49	2,620.4
Sulfur		26	1.3	20	26	860.5

**Broccoli: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States	
	ALL	CA
Herbicides		
Bensulide	P	P
DCPA	P	P
Dithiopyr	*	*
Glyphosate iso. salt	*	*
Napropamide	P	P
Oxyfluorfen	P	P
Paraquat	*	*
Pronamide	P	P
Sethoxydim	*	*
Trifluralin	P	P
Insecticides		
Abamectin	*	*
Acephate	*	*
Acetamiprid	P	P
Azadirachtin	*	*
Benzoic acid	P	P
Bifenthrin	*	*
Bt subsp. aizawai	*	*
Bt subsp. kurstaki	P	P
Chlorpyrifos	P	P
Cyfluthrin	*	*
Cypermethrin	*	*
Cyromazine	*	*
Diazinon	P	P
Diflubenzuron	*	*
Dimethoate	P	P
Dinotefuran	*	*
Disulfoton	P	P
Emamectin benzoate	P	P
Endosulfan	*	*
Esfenvalerate	P	P
Gamma-cyhalothrin	P	P
Imidacloprid	P	P
Indoxacarb	P	P
Lambda-cyhalothrin	P	P
Malathion	P	P
Methamidophos	*	*
Methomyl	P	P
Myrothecium verruc.	*	*
Naled	P	P
Neem oil, clar. hyd.	*	*
Oxydemeton-methyl	P	P

See footnote(s) at end of table.

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**Broccoli: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States	
	ALL	CA
Insecticides (continued)		
Permethrin	P	P
Pymetrozine	P	P
Pyrethrins	*	*
Rotenone	*	*
Spinosad	P	P
Spiromesifen	P	P
Tebufenozide	*	*
Thiodicarb	*	*
Zeta-cypermethrin	P	P
Fungicides		
Azoxystrobin	P	P
Bacillus pumilus	*	*
Borax decahydrate	*	*
Boscalid	*	*
Chlorothalonil	P	P
Copper hydroxide	*	*
Dimethomorph	*	*
Fosetyl-al	*	*
Iprodione	P	P
Maneb	P	P
Mefenoxam	P	P
Myclobutanil	*	*
PCNB	*	*
Phosphorous acid	*	*
Pyraclostrobin	P	P
Sulfur	*	*
Other Chemicals		
Acibenzolar-S-Methyl	*	*

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

**Broccoli: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	128,500	48	218.9	84	180.5	19	15.3	(²)	
Total	128,500	48	218.9	84	180.5	19	15.3	(²)	

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.

**Broccoli: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	19	1.1	3.688	4.016	99.0
DCPA	22	1.0	3.503	3.584	100.0
Napropamide	6	1.0	0.461	0.463	3.3
Oxyfluorfen	15	1.0	0.228	0.237	4.5
Pronamide	*	1.0	1.196	1.200	0.2
Trifluralin	8	1.0	0.305	0.306	3.0
Insecticides					
Acetamiprid	13	1.1	0.057	0.061	1.0
Benzoic acid	8	1.0	0.163	0.171	1.7
Bt subsp. kurstaki ²	1	1.1			
Chlorpyrifos	31	1.1	1.064	1.154	45.6
Diazinon	17	1.1	0.908	0.967	21.5
Dimethoate	28	1.0	0.447	0.459	16.6
Disulfoton	8	1.0	1.001	1.002	10.2
Emamectin benzoate	17	1.0	0.010	0.010	0.2
Esfenvalerate	19	1.1	0.038	0.044	1.1
Gamma-cyhalothrin	1	1.1	0.015	0.016	(³)
Imidacloprid	41	1.1	0.187	0.202	10.6
Indoxacarb	34	1.1	0.063	0.068	2.9
Lambda-cyhalothrin	6	1.2	0.028	0.032	0.3
Malathion	4	1.0	1.911	1.914	9.8
Methomyl	3	1.0	0.828	0.854	3.6
Naled	3	1.1	1.242	1.332	5.3
Oxydemeton-methyl	41	1.1	0.499	0.564	29.5
Permethrin	2	1.2	0.094	0.109	0.3
Pymetrozine	3	1.5	0.085	0.124	0.5
Spinosad	34	1.2	0.090	0.105	4.5
Spiromesifen	1	1.1	0.102	0.111	0.1
Zeta-cypermethrin	14	1.1	0.042	0.047	0.8
Fungicides					
Azoxystrobin	8	1.2	0.186	0.217	2.3
Chlorothalonil	3	1.0	1.044	1.069	3.8
Iprodione	*	1.2	0.981	1.177	0.2
Maneb	3	1.1	1.439	1.611	5.4
Mefenoxam	3	1.0	0.086	0.088	0.3
Pyraclostrobin	7	1.0	0.170	0.171	1.5

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for California was 128,500 acres.

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

³ Total applied is less than 50 lbs.

Cabbage, Fresh: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	13,800	96	3,021.9	91	1,180.4	41	400.2	47	118.2
FL	7,800	78	906.0	67	287.9	78	1,072.9		
GA	11,000	100	2,475.2	98	1,314.7	99	2,277.1	(¹)	
NY	11,100	98	1,305.7	90	1,394.5	92	1,652.9	(¹)	
NC	8,000	100	1,112.5	99	874.4	99	1,101.4	3	3.9
TX	8,000	90	1,206.5	84	712.7	63	128.8	38	79.0
WI	4,100	97	215.5	92	68.7	95	84.5	2	1.0
Total	63,800	95	10,243.2	89	5,833.4	78	6,717.8	24	614.0

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Cabbage, Fresh: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	13,800					
Nitrogen		96	5.1	44	228	3,021.9
Phosphate		91	1.3	75	94	1,180.4
Potash		41	3.1	22	70	400.2
Sulfur		47	1.6	12	18	118.2
Florida	7,800					
Nitrogen		78	1.9	76	149	906.0
Phosphate		67	1.2	47	55	287.9
Potash		78	1.6	111	176	1,072.9
Georgia	11,000					
Nitrogen		100	3.3	69	225	2,475.2
Phosphate		98	1.6	76	122	1,314.7
Potash		99	2.2	95	209	2,277.1
Sulfur ¹						
New York	11,100					
Nitrogen		98	2.0	60	120	1,305.7
Phosphate		90	1.4	97	139	1,394.5
Potash		92	1.4	112	161	1,652.9
Sulfur ¹						
North Carolina	8,000					
Nitrogen		100	1.9	73	139	1,112.5
Phosphate		99	1.4	81	111	874.4
Potash		99	1.6	89	139	1,101.4
Sulfur		3	1.2	14	17	3.9
Texas	8,000					
Nitrogen		90	2.0	82	167	1,206.5
Phosphate		84	1.1	101	106	712.7
Potash		63	1.0	25	25	128.8
Sulfur		38	1.5	17	26	79.0
Wisconsin	4,100					
Nitrogen		97	1.8	30	54	215.5
Phosphate		92	1.0	18	18	68.7
Potash		95	1.0	22	22	84.5
Sulfur		2	1.0	11	11	1.0

See footnote(s) at end of table.

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**Cabbage, Fresh: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006 (continued)**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Program States	63,800					
Nitrogen		95	2.8	61	169	10,243.2
Phosphate		89	1.3	77	99	5,833.4
Potash		78	1.7	75	128	6,717.8
Sulfur		24	1.5	23	34	614.0

¹ Insufficient reports to publish fertilizer data.

**Cabbage, Fresh: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States							
	ALL	CA	FL	GA	NY	NC	TX	WI
Herbicides								
2,4-D, dimeth. salt	*				*			
Atrazine	*				*			
Bensulide	P	P		*		*	*	
Bentazon	*				*			
Clethodim	*				*	*	*	
Clomazone	*				*			*
Clopyralid	P				P			
DCPA	P	*					*	
Ethalfluralin	*				*			
Fluazifop-P-butyl	*						*	
Glyphosate iso. salt	P	*			P	*		*
Metolachlor	*						*	
Napropamide	P	*	*	*	*	*		
Oxyfluorfen	P	P		*	P	P		*
Paraquat	P	*	*			*		
Pendimethalin	P		*	*	*	*	*	
S-Metolachlor	P		P		P		*	*
Sethoxydim	P	*		*		*	*	
Sulfentrazone	*					*		
Trifluralin	P	*	*	P	P	P	P	P
Insecticides								
Acephate	*		*			*		
Acetamiprid	P	P		*	*			
Azadirachtin	*	*						
Azinphos-methyl	*					*		
Benzoic acid	P	P	*	*			*	
Bifenthrin	P	*	P	*	P	*		*
Bt subsp. aizawai	P	P	P	P	*	P	*	
Bt subsp. kurstaki	P	P	P	P	P	P	P	P
Bt. (Berliner)	*						*	
Canola oil	*							*
Carbaryl	P	*		*	P	P	P	P
Chlorpyrifos	P	P	*		*	*	P	*
Cyfluthrin	*	*			*			
Cypermethrin	*	*					*	
Diazinon	P	P			*	*	P	
Dimethoate	P	P			P	P		
Dinotefuran	*	*						
Disulfoton	P	*				*	*	
Emamectin benzoate	P	P	*	*	*	*	*	
Endosulfan	P		*	*	P	P	P	*
Esfenvalerate	P	P	*	P	P	P	*	*

See footnote(s) at end of table.

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**Cabbage, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	FL	GA	NY	NC	TX	WI
Insecticides (continued)								
Ethoprop	*	*						
Gamma-cyhalothrin	*				*			
Imidacloprid	P	P	*			*	*	
Indoxacarb	P	P	*	*	*	P	P	
Lambda-cyhalothrin	P	P		*	P	P	*	P
Malathion	P	*	*			*	*	
Methamidophos	*					*		
Methomyl	P	P	*	*	P	P	P	
Mevinphos	*					*		
Myrothecium verruc.	*	*						
Naled	*	*						
Neem oil, clar. hyd.	*	*	*					
Oxydemeton-methyl	*	P			*			
Permethrin	P	P	*	*	P	P	P	P
Petroleum distillate	*						*	
Phosmet	*					*		
Piperonyl butoxide	*	*						*
Potassium salts	*	*				*		
Pymetrozine	P	*	*					
Pyrethrins	P	*			*	*		*
Rotenone	*	*			*			*
Spinosad	P	P	*	P	P	P	P	*
Spiromesifen	*	*						
Tebufenozide	*	*						
Thiodicarb	P	*	*	*		*		
Zeta-cypermethrin	P	P	*	*	*	P	P	*
Fungicides								
Azoxystrobin	P	*	*	*	*	*	P	
Bacillus subtilis	*				*			
Basic copper sulfate	*				*			
Borax decahydrate	*					*		
Boscalid	*	*	*		*			
Chlorothalonil	P	*	P	P	P	P	*	
Copper hydroxide	P		*		P	*		
Copper oxychloride	*				*			
Copper resinate	*				*			
Copper sulfate	*				*	*		
Etridiazole	*					*		
Fosetyl-al	*	*	*					
Mancozeb	P		*		*	*	*	
Maneb	P	P	*	P	*	*	*	
Mefenoxam	P	*	*			*	*	

See footnote(s) at end of table.

--continued

**Cabbage, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	FL	GA	NY	NC	TX	WI
Fungicides (continued)								
Metalaxyl	*						*	
PCNB	*					*		
Phosphorous acid	*		*				*	
Propamocarb hydroch.	*			*			*	
Pyraclostrobin	*			*		*	*	
Streptomycin sulfate	*							*
Sulfur	*	*	*				*	
Thiophanate-methyl	*				*			
Other Chemicals								
Chloropicrin	*	*	*			*		
Cytokinins	*					*		
Dichloropropene	*	*	*	*				
Garlic oil	*						*	
Gibberellic acid	*					*		
Indolebutyric acid	*					*		
Metam-sodium	*		*					
Methyl bromide	*					*		

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

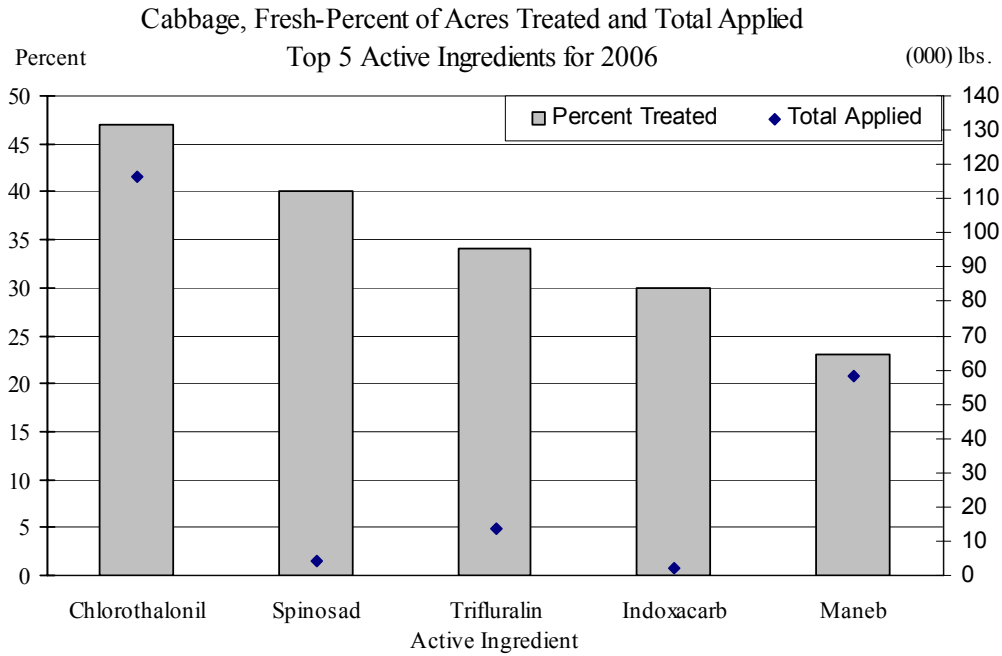
**Cabbage, Fresh: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	13,800	29	7.5	81	20.5	7	1.7	(²)	
FL	7,800	52	4.1	99	5.2	(²)		(²)	
GA	11,000	28	1.9	100	12.5	99	108.4	(²)	
NY	11,100	76	8.1	98	11.8	80	15.6		
NC	8,000	65	4.5	97	9.6	62	12.4	(²)	
TX	8,000	86	5.3	96	7.6	72	15.0	(²)	
WI	4,100	99	2.1	100	0.6	(²)			
Total	63,800	56	33.5	94	67.9	60	185.4	8	438.9

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.



**Cabbage, Fresh: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	1	1.1	2.984	3.307	2.1
Clopyralid	7	1.4	0.090	0.124	0.6
DCPA	2	1.1	3.511	3.874	5.1
Glyphosate iso. salt	1	1.1	0.606	0.676	0.4
Napropamide	3	1.0	1.078	1.078	2.1
Oxyfluorfen	11	1.0	0.477	0.478	3.4
Paraquat	1	1.2	0.591	0.683	0.3
Pendimethalin	1	1.0	1.306	1.348	0.5
S-Metolachlor	7	1.5	0.585	0.865	3.8
Sethoxydim	1	1.4	0.232	0.335	0.2
Trifluralin	34	1.4	0.463	0.640	13.8
Insecticides					
Acetamiprid	11	1.3	0.065	0.086	0.6
Benzoic acid	6	1.3	0.111	0.142	0.6
Bifenthrin	14	2.6	0.078	0.202	1.8
Bt subsp. aizawai ²	30	4.6			
Bt subsp. kurstaki ²	30	3.4			
Carbaryl	6	1.0	0.992	1.014	3.6
Chlorpyrifos	5	1.0	0.904	0.941	2.7
Diazinon	6	1.1	1.043	1.134	4.6
Dimethoate	16	1.8	0.434	0.762	8.0
Disulfoton	2	1.0	1.904	1.937	2.2
Emamectin benzoate	13	1.3	0.010	0.013	0.1
Endosulfan	8	3.4	0.765	2.573	12.6
Esfenvalerate	15	2.1	0.039	0.080	0.8
Imidacloprid	13	1.2	0.102	0.125	1.1
Indoxacarb	30	1.7	0.059	0.098	1.9
Lambda-cyhalothrin	22	1.9	0.026	0.048	0.7
Malathion	*	1.1	1.794	2.059	0.5
Methomyl	11	1.7	0.544	0.914	6.4
Permethrin	19	1.4	0.126	0.180	2.2
Pymetrozine	2	3.2	0.086	0.270	0.3
Pyrethrins	*	1.8	0.015	0.026	(³)
Spinosad	40	2.0	0.084	0.165	4.2
Thiodicarb	4	1.4	0.351	0.505	1.2
Zeta-cypermethrin	16	1.7	0.032	0.054	0.5
Fungicides					
Azoxystrobin	14	1.7	0.170	0.284	2.6
Chlorothalonil	47	3.7	1.041	3.872	116.2
Copper hydroxide	3	1.1	0.652	0.742	1.4
Mancozeb	3	1.8	1.319	2.338	4.7

See footnote(s) at end of table.

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**Cabbage, Fresh: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Maneb	23	3.3	1.209	3.963	58.0
Mefenoxam	3	3.1	0.118	0.359	0.7

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 7 Program States was 63,800 acres.

States included are CA, FL, GA, NY, NC, TX, and WI.

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

³ Total applied is less than 50 lbs.

**Cabbage, Fresh: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	4	1.0	3.043	3.105	1.6
Oxyfluorfen	19	1.0	0.291	0.293	0.8
Insecticides					
Acetamiprid	9	1.1	0.064	0.070	0.1
Benzoic acid	11	1.1	0.124	0.137	0.2
Bt subsp. aizawai ²	6	1.3			
Bt subsp. kurstaki ²	7	1.2			
Chlorpyrifos	9	1.1	0.926	0.975	1.3
Diazinon	13	1.2	0.861	1.032	1.8
Dimethoate	21	1.3	0.470	0.594	1.7
Emamectin benzoate	41	1.0	0.011	0.011	0.1
Esfenvalerate	21	1.1	0.043	0.045	0.1
Imidacloprid	43	1.3	0.115	0.150	0.9
Indoxacarb	47	1.3	0.063	0.080	0.5
Lambda-cyhalothrin	31	1.0	0.023	0.023	0.1
Methomyl	20	1.1	0.623	0.663	1.8
Oxydemeton-methyl	31	1.5	0.601	0.882	3.7
Permethrin	40	1.1	0.165	0.180	1.0
Spinosad	42	1.9	0.089	0.165	1.0
Zeta-cypermethrin	31	1.4	0.048	0.066	0.3
Fungicides					
Maneb	6	1.0	1.543	1.612	1.3

¹ Planted acreage in 2006 for California was 13,800 acres.

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

**Cabbage, Fresh: Agricultural Chemical Applications,
Florida, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
S-Metolachlor	36	1.7	0.459	0.793	2.2
Insecticides					
Bifenthrin	40	1.3	0.069	0.093	0.3
Bt subsp. aizawai ²	76	3.6			
Bt subsp. kurstaki ²	72	3.0			
Fungicides					
Chlorothalonil	82	4.3	0.831	3.594	23.0

¹ Planted acreage in 2006 for Florida was 7,800 acres.

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

**Cabbage, Fresh: Agricultural Chemical Applications,
Georgia, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Trifluralin	28	1.0	0.589	0.589	1.8
Insecticides					
Bt subsp. aizawai ²	62	8.2			
Bt subsp. kurstaki ²	54	5.1			
Esfenvalerate	28	3.2	0.040	0.128	0.4
Spinosad	5	2.7	0.061	0.168	0.1
Fungicides					
Chlorothalonil	83	6.0	1.119	6.699	61.2
Maneb	79	4.2	1.244	5.170	45.1

¹ Planted acreage in 2006 for Georgia was 11,000 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, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clopyralid	40	1.4	0.090	0.124	0.6
Glyphosate iso. salt	*	1.0	0.813	0.824	(²)
Oxyfluorfen	1	1.0	0.460	0.460	0.1
S-Metolachlor	12	1.0	0.971	0.971	1.3
Trifluralin	63	1.0	0.669	0.669	4.7
Insecticides					
Bifenthrin	23	2.0	0.056	0.110	0.3
Bt subsp. kurstaki ³	27	1.7			
Carbaryl	*	1.1	0.883	1.002	(²)
Dimethoate	65	2.0	0.424	0.842	6.1
Endosulfan	14	1.0	0.930	0.952	1.5
Esfenvalerate	7	1.2	0.032	0.036	(²)
Lambda-cyhalothrin	71	2.1	0.027	0.057	0.4
Methomyl	1	1.1	0.511	0.571	(²)
Permethrin	*	2.3	0.133	0.309	(²)
Spinosad	23	1.1	0.040	0.044	0.1
Fungicides					
Chlorothalonil	76	1.5	1.157	1.686	14.2
Copper hydroxide	8	1.3	0.697	0.908	0.8

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for New York was 11,100 acres.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Cabbage, Fresh: Agricultural Chemical Applications,
North Carolina, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Oxyfluorfen	53	1.0	0.593	0.593	2.5
Trifluralin	7	1.0	0.795	0.795	0.5
Insecticides					
Bt subsp. aizawai ²	55	1.4			
Bt subsp. kurstaki ²	24	4.8			
Carbaryl	43	1.0	0.990	1.005	3.5
Dimethoate	5	1.1	0.466	0.509	0.2
Endosulfan	1	1.9	0.508	0.945	0.1
Esfenvalerate	17	2.5	0.035	0.088	0.1
Indoxacarb	10	2.8	0.057	0.158	0.1
Lambda-cyhalothrin	6	3.2	0.022	0.070	(³)
Methomyl	25	3.3	0.580	1.891	3.7
Permethrin	13	2.0	0.098	0.191	0.2
Spinosad	66	1.6	0.059	0.091	0.5
Zeta-cypermethrin	5	2.3	0.011	0.025	(³)
Fungicides					
Chlorothalonil	20	2.7	1.210	3.246	5.1

¹ Planted acreage in 2006 for North Carolina was 8,000 acres.

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

³ Total applied is less than 50 lbs.

**Cabbage, Fresh: Agricultural Chemical Applications,
Texas, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Trifluralin	67	2.5	0.289	0.734	3.9
Insecticides					
Bt subsp. kurstaki ²	21	1.3			
Carbaryl	*	1.7	1.793	3.117	(³)
Chlorpyrifos	8	1.0	0.990	0.990	0.6
Diazinon	18	1.0	0.897	0.897	1.3
Endosulfan	15	2.1	0.752	1.614	2.0
Indoxacarb	35	1.7	0.049	0.082	0.2
Methomyl	5	1.2	0.402	0.473	0.2
Permethrin	48	1.5	0.095	0.141	0.5
Spinosad	80	2.5	0.123	0.312	2.0
Zeta-cypermethrin	10	1.8	0.018	0.031	(³)
Fungicides					
Azoxystrobin	41	1.0	0.229	0.229	0.8

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Texas was 8,000 acres.

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

³ Total applied is less than 50 lbs.

**Cabbage, Fresh: Agricultural Chemical Applications,
Wisconsin, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Trifluralin	98	1.0	0.515	0.515	2.1
Insecticides					
Bt subsp. kurstaki ²	*	2.5			
Carbaryl	*	2.2	0.529	1.178	(³)
Lambda-cyhalothrin	3	3.1	0.029	0.092	(³)
Permethrin	*	2.0	0.114	0.233	(³)

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Wisconsin was 4,100 acres.

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

³ Total applied is less than 50 lbs.

**Cantaloupes: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied**

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	22,900	100	2,828.7	100	1,216.3	(¹)		(¹)	
CA	49,500	95	7,947.8	84	5,082.6	23	574.4	32	437.0
TX	4,900	96	618.1	90	324.1	(¹)		(¹)	
Total	77,300	97	11,394.6	89	6,623.0	33	5,444.2	28	611.7

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Cantaloupes: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Arizona	22,900					
Nitrogen		100	4.0	31	124	2,828.7
Phosphate		100	1.4	37	53	1,216.3
Potash ¹						
Sulfur ¹						
California	49,500					
Nitrogen		95	1.5	114	168	7,947.8
Phosphate		84	1.2	97	122	5,082.6
Potash		23	1.9	27	51	574.4
Sulfur		32	1.3	22	27	437.0
Texas	4,900					
Nitrogen		96	1.8	73	131	618.1
Phosphate		90	1.2	60	74	324.1
Potash ¹						
Sulfur ¹						
Program States	77,300					
Nitrogen		97	2.7	53	143	11,394.6
Phosphate		89	1.3	61	82	6,623.0
Potash		33	4.0	64	254	5,444.2
Sulfur		28	1.2	24	28	611.7

¹ Insufficient reports to publish fertilizer data.

**Cantaloupes: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States			
	ALL	AZ	CA	TX
Herbicides				
Bensulide	P	P	P	P
Carfentrazone-ethyl	*			*
Clethodim	*		*	*
Ethalfluralin	P	*	*	P
Fluazifop-P-butyl	*			*
Glyphosate iso. salt	P		*	*
Halosulfuron	*		*	*
Oryzalin	*			*
Oxyfluorfen	*		*	
Paraquat	*		*	
Pendimethalin	P			P
Sethoxydim	P	*	*	*
Trifluralin	P	*	P	*
Insecticides				
Abamectin	*	*	P	
Acetamiprid	*			*
Azadirachtin	*		*	
Benzoic acid	P		P	
Bifenthrin	P	*	P	*
Bt subsp. aizawai	*		*	
Bt subsp. kurstaki	P	*	P	*
Buprofezin	*	*	P	
Carbaryl	P		P	P
Cyfluthrin	*			*
Cyromazine	*			*
Diazinon	P	*	P	*
Dicofol	*		*	
Dimethoate	*			*
Dinotefuran	P		P	
Endosulfan	P	*	P	*
Esfenvalerate	P	*	*	P
Imidacloprid	P	*	P	*
Malathion	P		*	*
Methomyl	P		P	P
Neem oil, clar. hyd.	*		*	*
Oxamyl	*	*	*	
Permethrin	P	*	P	*
Pymetrozine	*		*	
Pyrethrins	*		*	
Spinosad	P	*	P	*
Spiromesifen	*	*	P	
Zeta-cypermethrin	*			*

See footnote(s) at end of table.

--continued

**Cantaloupes: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States			
	ALL	AZ	CA	TX
Fungicides				
Azoxystrobin	P	*	*	P
Bacillus pumilus	*		*	
Basic copper sulfate	*			*
Borax decahydrate	*			*
Boscalid	*		*	*
Captan	*	*		
Chlorothalonil	P	*	*	P
Copper hydroxide	*			*
Copper resinate	*			*
Copper sulfate	*			*
Fenamidone	*		*	
Iprodione	*			*
Mancozeb	P			P
Mefenoxam	P		*	*
Myclobutanil	P	*	P	*
Phosphorous acid	*			*
Pyraclostrobin	P	*	*	*
Sulfur	P	*	P	*
Thiophanate-methyl	P	*	*	*
Trifloxystrobin	P	*	*	*
Triflumizole	*	*	P	
Other Chemicals				
Dichloropropene	*	*		*
Ethephon	*		*	
Gibberellic acid	*			*
Metam-sodium	*	*	*	

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

**Cantaloupes: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	22,900	35	13.2	95	7.5	91	6.4	(²)	
CA	49,500	46	34.4	75	46.9	49	199.4	(²)	
TX	4,900	57	7.9	48	0.9	51	4.5	(²)	
Total	77,300	43	55.5	79	55.3	62	210.3	26	3,222.7

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.

**Cantaloupes: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	22	1.1	2.212	2.398	39.9
Ethalfuralin	8	1.0	0.216	0.216	1.4
Glyphosate iso. salt	2	1.2	1.176	1.405	1.8
Pendimethalin	*	1.0	0.730	0.730	0.1
Sethoxydim	2	1.1	0.242	0.270	0.4
Trifluralin	26	1.0	0.481	0.489	9.7
Insecticides					
Benzoic acid	16	1.3	0.114	0.143	1.8
Bifenthrin	19	1.3	0.081	0.102	1.5
Bt subsp. kurstaki ²	12	1.1			
Carbaryl	6	1.2	0.552	0.680	3.1
Diazinon	11	1.2	0.521	0.605	5.1
Dinotefuran	3	1.1	0.138	0.153	0.3
Endosulfan	16	1.2	0.846	0.990	12.2
Esfenvalerate	4	1.0	0.040	0.042	0.1
Imidacloprid	46	1.1	0.245	0.278	9.9
Malathion	*	1.0	1.624	1.691	0.4
Methomyl	11	1.2	0.554	0.681	5.7
Permethrin	35	1.0	0.131	0.132	3.6
Spinosad	3	1.2	0.079	0.097	0.2
Fungicides					
Azoxystrobin	9	1.1	0.083	0.090	0.6
Chlorothalonil	20	1.0	0.322	0.334	5.1
Mancozeb	1	1.3	0.781	1.016	0.5
Mefenoxam	3	1.1	0.042	0.044	0.1
Myclobutanil	7	1.4	0.111	0.151	0.8
Pyraclostrobin	3	1.3	0.099	0.133	0.3
Sulfur	20	1.4	9.174	12.996	196.7
Thiophanate-methyl	1	1.3	0.349	0.468	0.5
Trifloxystrobin	4	1.1	0.067	0.075	0.2

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 3 Program States was 77,300 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.

**Cantaloupes: Agricultural Chemical Applications,
Arizona, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	9	1.0	4.364	4.391	9.5

¹ Planted acreage in 2006 for Arizona was 22,900 acres.

**Cantaloupes: Agricultural Chemical Applications,
California, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	27	1.1	1.683	1.860	24.4
Trifluralin	25	1.0	0.422	0.433	5.4
Insecticides					
Abamectin	21	1.0	0.009	0.010	0.1
Benzoic acid	25	1.3	0.114	0.143	1.8
Bifenthrin	27	1.3	0.083	0.106	1.4
Bt subsp. kurstaki ²	18	1.0			
Buprofezin	18	1.1	0.315	0.352	3.1
Carbaryl	9	1.2	0.554	0.677	3.0
Diazinon	15	1.2	0.539	0.635	4.7
Dinotefuran	4	1.1	0.138	0.153	0.3
Endosulfan	22	1.2	0.856	0.997	11.0
Imidacloprid	42	1.2	0.253	0.301	6.2
Methomyl	15	1.2	0.578	0.705	5.4
Permethrin	17	1.0	0.175	0.178	1.5
Spinosad	3	1.3	0.078	0.103	0.2
Spiromesifen	43	1.5	0.123	0.184	3.9
Fungicides					
Myclobutanil	8	1.4	0.109	0.158	0.6
Sulfur	29	1.4	9.557	13.710	194.5
Triflumizole	26	1.1	0.204	0.231	3.0

¹ Planted acreage in 2006 for California was 49,500 acres.

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

**Cantaloupes: Agricultural Chemical Applications,
Texas, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	28	1.0	4.423	4.423	6.0
Ethalfluralin	17	1.0	0.686	0.688	0.6
Pendimethalin	2	1.0	0.730	0.730	0.1
Insecticides					
Carbaryl	1	2.2	0.420	0.905	(²)
Esfenvalerate	4	1.0	0.028	0.029	(²)
Methomyl	14	1.3	0.306	0.409	0.3
Fungicides					
Azoxystrobin	21	1.6	0.215	0.342	0.4
Chlorothalonil	31	1.4	1.068	1.460	2.2
Mancozeb	10	1.3	0.781	1.016	0.5

¹ Planted acreage in 2006 for Texas was 4,900 acres.

² Total applied is less than 50 lbs.

**Carrots, Fresh: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied**

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	69,500	90	11,266.6	69	5,916.2	35	1,785.5	16	265.7
MI	2,900	100	225.1	88	277.2	70	406.5	50	11.0
TX	2,100	99	285.5	46	72.9	45	23.0	44	26.6
Total	74,500	90	11,777.1	69	6,266.2	37	2,215.0	18	303.2

**Carrots, Fresh: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	69,500					
Nitrogen		90	2.0	92	180	11,266.6
Phosphate		69	1.1	116	124	5,916.2
Potash		35	1.0	73	73	1,785.5
Sulfur		16	1.1	21	24	265.7
Michigan	2,900					
Nitrogen		100	1.9	41	78	225.1
Phosphate		88	1.1	103	109	277.2
Potash		70	1.3	151	200	406.5
Sulfur		50	1.3	6	8	11.0
Texas	2,100					
Nitrogen		99	1.6	87	138	285.5
Phosphate		46	1.0	75	75	72.9
Potash		45	1.0	24	24	23.0
Sulfur		44	1.6	18	29	26.6
Program States	74,500					
Nitrogen		90	1.9	85	165	11,777.1
Phosphate		69	1.1	114	121	6,266.2
Potash		37	1.1	94	101	2,215.0
Sulfur		18	1.2	16	19	303.2

**Carrots, Fresh: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States			
	ALL	CA	MI	TX
Herbicides				
Clethodim	P	*	P	*
Diuron	*		*	
EPTC	*	*		
Fluazifop-P-butyl	*	P	*	
Glyphosate iso. salt	*	*	*	
Linuron	P	P	P	P
Oxyfluorfen	*			*
Pendimethalin	*	*		*
Sethoxydim	*	*	*	
Trifluralin	P	P	*	*
Insecticides				
Azadirachtin	*		*	
Benzoic acid	*	*		
Bt subsp. kurstaki	*		*	
Carbaryl	P		*	*
Cyfluthrin	*	*		
Deltamethrin	*			*
Diazinon	P	*	*	*
Esfenvalerate	P	P	*	*
Lambda-cyhalothrin	*		*	
Malathion	P	*	*	*
Methomyl	P	*	*	*
Oxamyl	*			*
Phosmet	*		*	
Pyrethrins	*	*	*	
Spinosad	*	*		
Zeta-cypermethrin	*		*	
Fungicides				
Azoxystrobin	P	P		
Bacillus subtilis	*	*		
Boscalid	P	*		*
Chlorothalonil	P	P	*	*
Copper hydroxide	*	P	*	
Copper oxide	P	P		
Copper sulfate	*		*	
Iprodione	*	P		*
Mancozeb	*		*	*
Mefenoxam	*	P		*
Metalaxyl	*	*		
Pyraclostrobin	*	P	*	
Sulfur	*	P		*

See footnote(s) at end of table.

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**Carrots, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States			
	ALL	CA	MI	TX
Fungicides (continued)				
Trifloxystrobin	*	*		*
Other Chemicals				
Chloropicrin	*	*		
Dichloropropene	*	P		*
Metam-potassium	*	*		
Metam-sodium	P	P		

P Usage data are published for this active ingredient.

*Usage data are not published for this active ingredient.

**Carrots, Fresh: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	69,500	65	78.6	19	10.1	62	1,033.9	46	5,507.9
MI	2,900	84	4.1	68	4.1	93	14.2		
TX	2,100	99	3.3	99	1.2	37	3.2	(²)	
Total	74,500	67	86.0	23	15.4	62	1,051.3	(²)	

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.

**Carrots, Fresh: Agricultural Chemical Applications,
Program States, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clethodim	3	1.3	0.118	0.159	0.3
Linuron	64	1.2	0.756	0.935	44.6
Trifluralin	45	1.1	0.927	1.002	34.0
Insecticides					
Carbaryl	*	2.0	1.005	2.014	0.3
Diazinon	10	1.2	1.056	1.244	8.8
Esfenvalerate	13	1.5	0.041	0.060	0.6
Malathion	1	2.2	1.877	4.036	2.9
Methomyl	2	1.2	0.596	0.730	1.0
Fungicides					
Azoxystrobin	2	1.1	0.218	0.231	0.4
Boscalid	2	1.1	0.140	0.149	0.2
Chlorothalonil	11	1.9	1.217	2.358	20.6
Copper oxide	5	1.8	1.492	2.757	10.7
Other Chemicals					
Metam-sodium	39	1.1	168.635	179.937	5,168.6

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 2 Program States was 74,500 acres.

States included are CA and TX.

**Carrots, Fresh: Agricultural Chemical Applications,
California, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Fluazifop-P-butyl	4	1.1	0.297	0.335	0.9
Linuron	62	1.2	0.772	0.919	39.7
Trifluralin	48	1.1	0.928	1.005	33.8
Insecticides					
Esfenvalerate	12	1.2	0.045	0.056	0.5
Fungicides					
Azoxystrobin	2	1.1	0.218	0.231	0.4
Chlorothalonil	8	1.3	1.186	1.573	8.4
Copper hydroxide	7	1.7	0.512	0.864	4.1
Copper oxide	6	1.8	1.492	2.757	10.7
Iprodione	12	1.4	0.663	0.924	7.4
Mefenoxam	21	2.2	0.136	0.303	4.5
Pyraclostrobin	14	1.6	0.145	0.230	2.2
Sulfur	45	1.3	23.835	32.110	995.9
Other Chemicals					
Dichloropropene	4	1.1	95.003	108.278	286.9
Metam-sodium	41	1.1	168.635	179.937	5,168.6

¹ Planted acreage in 2006 for California was 69,500 acres.

**Carrots, Fresh: Agricultural Chemical Applications,
Michigan, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clethodim	45	1.5	0.120	0.184	0.2
Linuron	83	2.4	0.567	1.335	3.2

¹ Planted acreage in 2006 for Michigan was 2,900 acres.

**Carrots, Fresh: Agricultural Chemical Applications,
Texas, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Linuron	94	1.0	0.846	0.846	1.7

¹ Planted acreage in 2006 for Texas was 2,100 acres.

Carrots, Proc.: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	4,500	100	919.7	87	849.2	(¹)		(¹)	
MI	1,800	(¹)		(¹)		68	100.7	(¹)	
WA	3,500	(¹)		(¹)		(¹)		(¹)	
WI	4,300	33	100.8	(¹)		92	838.1	(¹)	
Total	14,100	80	1,755.9	64	1,118.7	67	2,395.4	33	211.8

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

Carrots, Proc.: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	4,500					
Nitrogen		100	3.1	65	205	919.7
Phosphate		87	1.3	163	218	849.2
Potash ¹						
Sulfur ¹						
Michigan	1,800					
Nitrogen ¹						
Phosphate ¹						
Potash		68	1.0	82	82	100.7
Washington	3,500					
Nitrogen ¹						
Phosphate ¹						
Potash ¹						
Sulfur ¹						
Wisconsin	4,300					
Nitrogen		33	1.6	44	70	100.8
Phosphate ¹						
Potash		92	1.2	173	211	838.1
Sulfur ¹						
Program States	14,100					
Nitrogen		80	2.5	71	174	1,755.9
Phosphate		64	1.2	128	156	1,118.7
Potash		67	1.2	195	234	2,395.4
Sulfur		33	1.2	41	51	211.8

¹ Insufficient reports to publish fertilizer data.

**Carrots, Proc.: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States				
	ALL	CA	MI	WA	WI
Herbicides					
Clethodim	P	*	*		P
EPTC	*	*			
Fluazifop-P-butyl	P	*	*	*	
Glyphosate iso. salt	*	*			
Linuron	P	P	*	*	P
Metribuzin	*		*		*
Paraquat	*		*		
Sethoxydim	*				*
Trifluralin	*	P		*	
Insecticides					
Cyfluthrin	*		*		
Diazinon	P	*		*	
Endosulfan	*	*			
Esfenvalerate	P	*	*	*	P
Malathion	*	*			
Methomyl	*	*			
Oxamyl	*			*	
Fungicides					
Azoxystrobin	P	*	*	*	P
Boscalid	*	*			
Chlorothalonil	P	*	P	*	P
Copper hydroxide	P	*	*	*	
Copper oxide	*	*			
Copper resinate	*		*		
Iprodione	*	*			
Mefenoxam	*	P		*	
Pyraclostrobin	*	P	*		
Sulfur	P	P			
Trifloxystrobin	*	*			
Other Chemicals					
Dichloropropene	*	P		*	
Metam-potassium	*	*			
Metam-sodium	P	*		*	

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

**Carrots, Proc.: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide		Fungicide		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	4,500	88	10.1	40	2.0	70	37.1	52	365.9
MI	1,800	(¹)		(¹)		(¹)			
WA	3,500	(¹)		(¹)		(¹)		(¹)	
WI	4,300	100	8.9	93	0.2	93	22.0		
Total	14,100	96	27.6	75	5.9	86	75.3	(¹)	

¹ Insufficient reports to publish data for pesticide class.

**Carrots, Proc.: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clethodim	40	1.3	0.125	0.166	1.0
Fluazifop-P-butyl	9	1.0	0.267	0.274	0.3
Linuron	93	2.1	0.619	1.287	17.8
Insecticides					
Diazinon	27	1.8	0.520	0.948	3.6
Esfenvalerate	66	2.1	0.024	0.051	0.5
Fungicides					
Azoxystrobin	20	1.0	0.155	0.155	0.4
Chlorothalonil	75	2.3	1.135	2.614	32.3
Copper hydroxide	33	1.7	0.734	1.271	5.7
Sulfur	7	1.4	23.083	31.625	32.1
Other Chemicals					
Metam-sodium	30	1.0	148.105	149.971	627.9

¹ Planted acreage in 2006 for the 3 Program States was 14,100 acres.
States included are CA, MI, and WI.

**Carrots, Proc.: Agricultural Chemical Applications,
California, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Linuron	80	1.4	0.812	1.145	4.1
Trifluralin	61	1.1	0.899	0.967	2.7
Fungicides					
Mefenoxam	45	1.9	0.168	0.312	0.6
Pyraclostrobin	22	1.1	0.142	0.151	0.2
Sulfur	23	1.4	23.083	31.625	32.1
Other Chemicals					
Dichloropropene	26	1.2	99.126	123.742	147.4

¹ Planted acreage in 2006 for California was 4,500 acres.

**Carrots, Proc.: Agricultural Chemical Applications,
Michigan, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides					
Chlorothalonil	100	3.4	1.327	4.491	8.1

¹ Planted acreage in 2006 for Michigan was 1,800 acres.

**Carrots, Proc.: Agricultural Chemical Applications,
Wisconsin, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clethodim	96	1.3	0.118	0.151	0.6
Linuron	100	3.0	0.587	1.747	7.5
Insecticides					
Esfenvalerate	93	2.2	0.028	0.063	0.2
Fungicides					
Azoxystrobin	55	1.0	0.150	0.150	0.4
Chlorothalonil	93	4.0	1.351	5.414	21.6

¹ Planted acreage in 2006 for Wisconsin was 4,300 acres.

Cauliflower: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	38,300	96	8,520.5	71	2,695.9	42	681.7	33	206.8
Total	38,300	96	8,520.5	71	2,695.9	42	681.7	33	206.8

**Cauliflower: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	38,300					
Nitrogen		96	3.4	69	232	8,520.5
Phosphate		71	1.2	81	100	2,695.9
Potash		42	2.6	16	43	681.7
Sulfur		33	1.4	12	16	206.8
Program States	38,300					
Nitrogen		96	3.4	69	232	8,520.5
Phosphate		71	1.2	81	100	2,695.9
Potash		42	2.6	16	43	681.7
Sulfur		33	1.4	12	16	206.8

**Cauliflower: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States	
	ALL	CA
Herbicides		
Bensulide	P	P
DCPA	P	P
Glyphosate iso. salt	*	*
Napropamide	*	*
Oxyfluorfen	P	P
Paraquat	*	*
Sethoxydim	*	*
Trifluralin	*	*
Insecticides		
Abamectin	*	*
Acephate	P	P
Acetamiprid	P	P
Azadirachtin	*	*
Benzoic acid	P	P
Bifenthrin	*	*
Bt subsp. aizawai	*	*
Bt subsp. kurstaki	*	*
Chlorpyrifos	P	P
Cyfluthrin	*	*
Cyromazine	*	*
Diazinon	P	P
Dimethoate	P	P
Dinotefuran	*	*
Disulfoton	*	*
Emamectin benzoate	P	P
Endosulfan	*	*
Esfenvalerate	P	P
Gamma-cyhalothrin	*	*
Imidacloprid	P	P
Indoxacarb	P	P
Lambda-cyhalothrin	P	P
Malathion	*	*
Methomyl	P	P
Naled	P	P
Oxydemeton-methyl	P	P
Permethrin	P	P
Potassium salts	*	*
Pymetrozine	P	P
Spinosad	P	P
Spiromesifen	P	P
Thiodicarb	*	*
Zeta-cypermethrin	P	P

See footnote(s) at end of table.

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**Cauliflower: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States	
	ALL	CA
Fungicides		
Azoxystrobin	*	*
Bacillus subtilus	*	*
Borax decahydrate	*	*
Boscalid	*	*
Chlorothalonil	P	P
Copper hydroxide	*	*
Iprodione	*	*
Maneb	P	P
Mefenoxam	*	*
Phosphorous acid	*	*
Pyraclostrobin	*	*
Other Chemicals		
Capsaicin	*	*

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

**Cauliflower: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	38,300	42	24.0	77	46.3	3	2.0	(²)	
Total	38,300	42	24.0	77	46.3	3	2.0	(²)	

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.

**Cauliflower: Agricultural Chemical Applications,
California, 2006 ¹**

Active Ingredient	Area Applied	Appli-cations	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	3	1.0	3.447	3.509	4.7
DCPA	11	1.2	3.329	3.876	16.0
Oxyfluorfen	29	1.0	0.239	0.250	2.8
Insecticides					
Acephate	2	1.0	0.972	1.019	0.6
Acetamiprid	10	1.5	0.060	0.088	0.3
Benzoic acid	3	1.5	0.139	0.213	0.2
Chlorpyrifos	22	1.0	0.959	0.996	8.6
Diazinon	14	1.0	0.865	0.882	4.9
Dimethoate	43	1.2	0.453	0.551	9.1
Emamectin benzoate	5	1.4	0.010	0.014	(²)
Esfenvalerate	15	1.4	0.041	0.056	0.3
Imidacloprid	30	1.1	0.181	0.201	2.3
Indoxacarb	57	1.1	0.062	0.069	1.5
Lambda-cyhalothrin	14	2.2	0.024	0.051	0.3
Methomyl	3	1.1	0.733	0.826	1.0
Naled	*	1.0	1.023	1.028	0.2
Oxydemeton-methyl	41	1.4	0.500	0.697	11.0
Permethrin	1	1.1	0.093	0.099	(²)
Pymetrozine	4	1.1	0.078	0.089	0.1
Spinosad	23	1.9	0.073	0.136	1.2
Spiromesifen	5	1.5	0.094	0.143	0.3
Zeta-cypermethrin	13	1.6	0.043	0.070	0.4
Fungicides					
Chlorothalonil	1	1.7	1.071	1.870	0.7
Maneb	1	1.7	1.557	2.660	0.7

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for California was 38,300 acres.

² Total applied is less than 50 lbs.

Celery: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	24,500	94	7,882.6	80	2,253.5	84	3,094.0	(¹)	
Total	24,500	94	7,882.6	80	2,253.5	84	3,094.0	(¹)	

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

Celery: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	24,500					
Nitrogen		94	6.5	53	344	7,882.6
Phosphate		80	2.1	55	114	2,253.5
Potash		84	3.2	47	151	3,094.0
Sulfur ¹						
Program States	24,500					
Nitrogen		94	6.5	53	344	7,882.6
Phosphate		80	2.1	55	114	2,253.5
Potash		84	3.2	47	151	3,094.0
Sulfur ¹						

¹ Insufficient reports to publish fertilizer data.

**Celery: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States	
	ALL	CA
Herbicides		
Bensulide	*	*
Clethodim	*	*
Glyphosate iso. salt	*	*
Linuron	P	P
Oxyfluorfen	*	*
Prometryn	P	P
Sethoxydim	*	*
Insecticides		
Abamectin	P	P
Acephate	P	P
Acetamiprid	P	P
Azadirachtin	P	P
Benzoic acid	P	P
Bt subsp. aizawai	*	*
Bt subsp. kurstaki	*	*
Carbaryl	*	*
Cyromazine	P	P
Dimethoate	P	P
Enamectin benzoate	P	P
Endosulfan	*	*
Gamma-cyhalothrin	*	*
Imidacloprid	*	*
Malathion	P	P
Methomyl	P	P
Naled	*	*
Neem oil, clar. hyd.	*	*
Oxamyl	P	P
Permethrin	P	P
Pymetrozine	P	P
Pyrethrins	P	P
Rotenone	*	*
Spinosad	P	P
Tebufenozide	P	P
Thiodicarb	*	*
Zeta-cypermethrin	P	P
Fungicides		
Azoxystrobin	*	*
Bacillus subtilis	*	*
Bacillus subtilis	*	*
Benomyl	*	*
Chlorothalonil	P	P

See footnote(s) at end of table.

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**Celery: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States	
	ALL	CA
Fungicides (continued)		
Copper hydroxide	P	P
Copper octanoate	*	*
Dicloran	P	P
Propiconazole	P	P
Pyraclostrobin	*	*
Sulfur	*	*
Trifloxystrobin	P	P
Other Chemicals		
Hydrogen peroxide	*	*
Metaldehyde	*	*
Metam-sodium	*	*

P Usage data are published for this active ingredient.

*Usage data are not published for this active ingredient.

**Celery: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	24,500	55	21.7	92	55.9	74	79.7	(²)	
Total	24,500	55	21.7	92	55.9	74	79.7	(²)	

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.

**Celery: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Linuron	22	1.0	0.427	0.446	2.4
Prometryn	49	1.0	1.434	1.506	17.9
Insecticides					
Abamectin	34	1.8	0.012	0.020	0.2
Acephate	30	1.2	0.914	1.074	8.0
Acetamiprid	62	1.4	0.061	0.087	1.3
Azadirachtin	5	1.0	0.011	0.012	(²)
Benzoic acid	52	1.6	0.135	0.216	2.8
Cyromazine	55	1.4	0.124	0.169	2.3
Dimethoate	19	1.4	0.445	0.605	2.8
Emamectin benzoate	14	1.1	0.010	0.011	(²)
Malathion	27	1.5	1.497	2.275	15.0
Methomyl	25	1.3	0.791	0.996	6.1
Oxamyl	35	1.2	0.750	0.894	7.7
Permethrin	59	1.6	0.163	0.259	3.7
Pymetrozine	9	1.4	0.086	0.121	0.3
Pyrethrins	2	1.0	0.014	0.015	(²)
Spinosad	53	1.4	0.117	0.168	2.2
Tebufenozide	3	1.0	0.113	0.114	0.1
Zeta-cypermethrin	47	2.0	0.047	0.094	1.1
Fungicides					
Chlorothalonil	54	1.3	1.949	2.568	33.7
Copper hydroxide	47	1.6	0.658	1.085	12.6
Dicloran	39	1.2	2.534	2.953	28.0
Propiconazole	44	1.1	0.113	0.129	1.4
Trifloxystrobin	13	1.2	0.093	0.110	0.3

¹ Planted acreage in 2006 for California was 24,500 acres.

² Total applied is less than 50 lbs.

Sweet Corn, Fresh: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	27,000	82	5,009.4	70	2,408.4	34	715.0	5	25.5
CO	10,000	98	1,136.9	89	1,017.0	54	77.9	59	479.9
FL	33,000	86	2,326.1	89	4,319.1	87	4,793.3	6	8.8
GA	32,000	99	7,899.3	98	3,224.9	99	7,332.5	91	559.7
IL	7,000	100	874.4	90	494.8	71	702.9	12	17.3
MI	9,000	98	1,038.0	96	591.8	84	830.6	23	174.1
NJ	7,200	100	1,275.7	95	743.7	94	939.8	(¹)	
NY	29,100	97	2,156.8	96	1,343.8	96	1,570.9	(¹)	
NC	8,300	96	1,654.3	94	659.9	96	1,175.9	26	38.0
OH	17,000	98	2,056.0	96	1,193.2	92	1,203.0	32	127.4
OR	4,500	98	690.4	97	555.5	93	263.4	6	7.1
PA	20,200	97	1,760.6	88	1,290.4	89	983.1	7	20.7
TX	2,000	86	152.8	77	69.2	61	55.3	(¹)	
WI	8,000	98	715.9	95	381.3	93	563.5	20	30.9
Total	214,300	94	28,746.5	91	18,293.2	82	21,207.2	26	1,552.5

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Sweet Corn, Fresh: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	27,000					
Nitrogen		82	3.0	75	226	5,009.4
Phosphate		70	1.4	89	127	2,408.4
Potash		34	1.8	42	77	715.0
Sulfur		5	1.2	14	18	25.5
Colorado	10,000					
Nitrogen		98	2.9	40	115	1,136.9
Phosphate		89	1.7	68	114	1,017.0
Potash		54	1.0	14	14	77.9
Sulfur		59	1.9	42	81	479.9
Florida	33,000					
Nitrogen		86	1.8	46	82	2,326.1
Phosphate		89	1.7	85	147	4,319.1
Potash		87	1.4	121	168	4,793.3
Sulfur		6	1.0	4	4	8.8
Georgia	32,000					
Nitrogen		99	5.3	47	249	7,899.3
Phosphate		98	1.6	66	102	3,224.9
Potash		99	2.5	92	231	7,332.5
Sulfur		91	2.1	9	19	559.7
Illinois	7,000					
Nitrogen		100	1.6	80	125	874.4
Phosphate		90	1.1	72	78	494.8
Potash		71	1.2	119	141	702.9
Sulfur		12	1.0	20	20	17.3
Michigan	9,000					
Nitrogen		98	1.7	68	117	1,038.0
Phosphate		96	1.1	61	68	591.8
Potash		84	1.3	82	110	830.6
Sulfur		23	1.8	46	83	174.1
New Jersey	7,200					
Nitrogen		100	2.4	73	178	1,275.7
Phosphate		95	2.0	55	109	743.7
Potash		94	2.1	66	139	939.8
Sulfur ¹						

See footnote(s) at end of table.

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**Sweet Corn, Fresh: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006 (continued)**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
New York	29,100					
Nitrogen		97	1.5	51	77	2,156.8
Phosphate		96	1.1	45	48	1,343.8
Potash		96	1.1	50	56	1,570.9
Sulfur ¹						
North Carolina	8,300					
Nitrogen		96	1.9	111	207	1,654.3
Phosphate		94	1.5	58	85	659.9
Potash		96	1.4	107	148	1,175.9
Sulfur		26	1.0	17	17	38.0
Ohio	17,000					
Nitrogen		98	2.1	60	123	2,056.0
Phosphate		96	1.4	54	73	1,193.2
Potash		92	1.4	55	77	1,203.0
Sulfur		32	1.0	24	24	127.4
Oregon	4,500					
Nitrogen		98	1.9	81	157	690.4
Phosphate		97	1.1	119	128	555.5
Potash		93	1.1	56	63	263.4
Sulfur		6	1.7	17	28	7.1
Pennsylvania	20,200					
Nitrogen		97	2.0	45	90	1,760.6
Phosphate		88	1.4	51	72	1,290.4
Potash		89	1.4	38	55	983.1
Sulfur		7	1.2	13	15	20.7
Texas	2,000					
Nitrogen		86	1.4	63	89	152.8
Phosphate		77	1.2	36	45	69.2
Potash		61	1.3	35	45	55.3
Sulfur ¹						
Wisconsin	8,000					
Nitrogen		98	1.7	54	91	715.9
Phosphate		95	1.1	48	50	381.3
Potash		93	1.2	63	76	563.5
Sulfur		20	1.6	12	20	30.9
Program States	214,300					
Nitrogen		94	2.5	56	140	28,746.5
Phosphate		91	1.5	72	107	18,293.2
Potash		82	1.6	88	139	21,207.2
Sulfur		26	1.7	14	25	1,552.5

¹ Insufficient reports to publish fertilizer data.

**Sweet Corn, Fresh: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States							
	ALL	CA	CO	FL	GA	IL	MI	NJ
Herbicides								
2,4-D	*							
2,4-D, 2-EHE	*							
2,4-D, BEE	*							
2,4-D, dieth. salt	*						*	
2,4-D, dimeth. salt	P		*	*	*		P	*
Acetochlor	P					*	*	
Alachlor	P	*	*			P	P	P
Ametryn	*							
Atrazine	P	P		P	P	P	P	P
Bentazon	P				*	P	P	*
Bromoxynil	*							
Bromoxynil heptan.	*							
Bromoxynil octanoate	*							
Butylate	*							
Carfentrazone-ethyl	P	P		*		*		
Clethodim	*							
Clomazone	*							
Clopyralid	P						*	*
Cyanazine	*						*	
Dicamba, digly. salt	*					*		
Dicamba, dimet. salt	*							
Dicamba, sodium salt	*							
Diflufenzopyr-sodium	*							
Dimethenamid	P		*			*	*	
Dimethenamid-P	P					*	*	
EPTC	*							
Ethalfluralin	*			*				
Fluazifop-P-butyl	*				*			
Flufenacet	*						*	
Flumetsulam	*						*	
Glyphosate amm. salt	*							
Glyphosate iso. salt	P	P		*	*	*	P	*
Halosulfuron	P			*	*	*	*	
Imazethapyr	P		*				*	
Linuron	*							
Mesotrione	P					*	P	*
Methanone	*							
Metolachlor	*						*	*
Metribuzin	*						*	
Nicosulfuron	P					*		
Oryzalin	*							
Paraquat	P	*						*
Pendimethalin	P	P	*	*	*	*	P	*

See footnote(s) at end of table.

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**Sweet Corn, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States						
	NY	NC	OH	OR	PA	TX	WI
Herbicides							
2,4-D			*				
2,4-D, 2-EHE					*		
2,4-D, BEE					*		
2,4-D, dieth. salt					*		
2,4-D, dimeth. salt	P	*	P		P	*	*
Acetochlor			P		*		
Alachlor	P	P	P		*		*
Ametryn		*					
Atrazine	P	P	P	P	P	P	P
Bentazon	P	*	P	*	P		P
Bromoxynil	*						*
Bromoxynil heptan.			*				
Bromoxynil octanoate			*				
Butylate	*						
Carfentrazone-ethyl	*		*	*	P		
Clethodim			*				
Clomazone			*		*		
Clopyralid	*				*		
Cyanazine							
Dicamba, digly. salt			*				
Dicamba, dimet. salt	*						
Dicamba, sodium salt					*		
Diflufenzopyr-sodium					*		
Dimethenamid			*	*			*
Dimethenamid-P	*	*	P	P	*		P
EPTC				*			
Ethalfluralin			*		*		
Fluazifop-P-butyl							
Flufenacet							
Flumetsulam							
Glyphosate amm. salt					*		
Glyphosate iso. salt	P	P	P	P	P	*	*
Halosulfuron	*				P		
Imazethapyr	P		*		*		
Linuron			*				
Mesotrione	P		P		P		P
Methanone				*			
Metolachlor			*				
Metribuzin							
Nicosulfuron	*		*			*	*
Oryzalin						*	
Paraquat		*		*	*		
Pendimethalin	P	*	P	*	P	*	P

See footnote(s) at end of table.

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**Sweet Corn, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	CO	FL	GA	IL	MI	NJ
Herbicides (continued)								
S-Metolachlor	P	P	*	P	P	P	P	P
Sethoxydim	P	*		*	*		*	
Simazine	P				*		*	
Sulfosate	*							
Trifluralin	P			*	*	*		
Insecticides								
Acephate	*						*	
Azadirachtin	*			*			*	
Azinphos-methyl	*							
Benzoic acid	*	*		*				
Beta-cyfluthrin	*						*	
Bifenthrin	P	P		*	*	*	*	*
Bt subsp. aizawai	*	*		*				
Bt subsp. kurstaki	P	P		*			*	*
Carbaryl	P		*	P	P	P	P	*
Carbofuran	P						*	
Chlorethoxyfos	*							
Chlorpyrifos	P	*		P	P	*	P	*
Cyfluthrin	P	P	*	P	*	*	P	*
Deltamethrin	*							
Diazinon	P	P		*	*		*	*
Dicofol	*							
Dimethoate	*	*						
Disulfoton	*							
Endosulfan	P		*	*			*	
Esfenvalerate	P	P	*	*	P	*	P	*
Ethyl parathion	*				*			
Fipronil	*						*	
Gamma-cyhalothrin	*							
Helicoverpa zea NPV	*		*					
Imidacloprid	*							
Indoxacarb	*							*
Lambda-cyhalothrin	P	P	P	P	*	P	P	P
Malathion	P	*	*					
Methomyl	P	P	P	P	P	*	P	P
Methyl parathion	P	*		*	*			
Oxydemeton-methyl	*	P						
Permethrin	P	*	*	*	*	P	P	
Petroleum distillate	*	*		*				
Phorate	P			*				
Phosmet	*						*	
Phosphamidon	*							

See footnote(s) at end of table.

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**Sweet Corn, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States						
	NY	NC	OH	OR	PA	TX	WI
Herbicides (continued)							
S-Metolachlor	P	P	P	P	P	*	P
Sethoxydim							
Simazine	*	*	P		*		P
Sulfosate					*		
Trifluralin	*	*	*				
Insecticides							
Acephate	*	*					
Azadirachtin				*			
Azinphos-methyl	*						
Benzoic acid							
Beta-cyfluthrin							
Bifenthrin	*	*	P	*	*		*
Bt subsp. aizawai							
Bt subsp. kurstaki	*	*	*		*	*	*
Carbaryl	P	P	P	*	*	*	*
Carbofuran			*		*		*
Chlorethoxyfos				*			
Chlorpyrifos	*	*	P	P	P	*	*
Cyfluthrin	*	P	P	*	P		*
Deltamethrin			*				
Diazinon	*	*			*		
Dicofol	*						
Dimethoate							
Disulfoton		*		*			
Endosulfan	*	*	*		P		*
Esfenvalerate	P	P	P	P	P	*	P
Ethyl parathion							
Fipronil							
Gamma-cyhalothrin	*		*	*	*		
Helicoverpa zea NPV							
Imidacloprid	*				*		
Indoxacarb					*		
Lambda-cyhalothrin	P	P	P	*	P		P
Malathion		*				P	
Methomyl	P	P	P		P	*	
Methyl parathion	*				*		
Oxydemeton-methyl	*						
Permethrin	P	*	P		P	*	P
Petroleum distillate	*						
Phorate							*
Phosmet							
Phosphamidon					*		

See footnote(s) at end of table.

--continued

**Sweet Corn, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	CO	FL	GA	IL	MI	NJ
Insecticides (continued)								
Piperonyl butoxide	*	*						
Potassium salts	*							
Propargite	P	P	P					
Pyrethrins	P	*					*	
Spinosad	P	P		*	*		*	*
Tebupirimphos	P					*	*	
Tefluthrin	P					*	*	*
Terbufos	P			*	*			*
Thiacloprid	*						*	
Thiodicarb	P			P	*	*	P	*
Zeta-cypermethrin	P	P		*	*	P	P	*
Fungicides								
Azoxystrobin	P			P		*	*	
Captan	*						*	
Chlorothalonil	P			P			P	*
Copper sulfate	*							*
Etridiazole	*							
Fenhexamid	*							
Fosetyl-al	*			*				
Mancozeb	P			P		*	*	*
Maneb	*			*			*	
Mefenoxam	*							
Myclobutanil	*						*	
PCNB	*							
Propiconazole	P			P	*	*	P	*
Pyraclostrobin	*			*				
Sulfur	*	*						
Thiram	*						*	
Other Chemicals								
Chloropicrin	*							
Cytokinins	*							
Dichloropropene	*				*			
Diphacinone	*			*				
Metam-sodium	*				*			
Methyl anthranilate	*		*					
Methyl bromide	*							

See footnote(s) at end of table.

--continued

**Sweet Corn, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States						
	NY	NC	OH	OR	PA	TX	WI
Insecticides (continued)							
Piperonyl butoxide				*			
Potassium salts				*			
Propargite							
Pyrethrins							*
Spinosad	*		*		*		*
Tebupirimphos					P		
Tefluthrin					P		*
Terbufos	*	*					
Thiacloprid							
Thiodicarb	P	P	P		P		
Zeta-cypermethrin	*	P	P		P		*
Fungicides							
Azoxystrobin	*	*	*		*		*
Captan							
Chlorothalonil	*	*	*		*		
Copper sulfate							
Etridiazole		*					
Fenhexamid							*
Fosetyl-al							
Mancozeb		*	*				
Maneb			*				
Mefenoxam		*					
Myclobutanil							
PCNB		*					
Propiconazole		*	*		P		
Pyraclostrobin							
Sulfur							
Thiram							
Other Chemicals							
Chloropicrin		*					
Cytokinins					*		
Dichloropropene							
Diphacinone							
Metam-sodium							
Methyl anthranilate							
Methyl bromide		*					

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

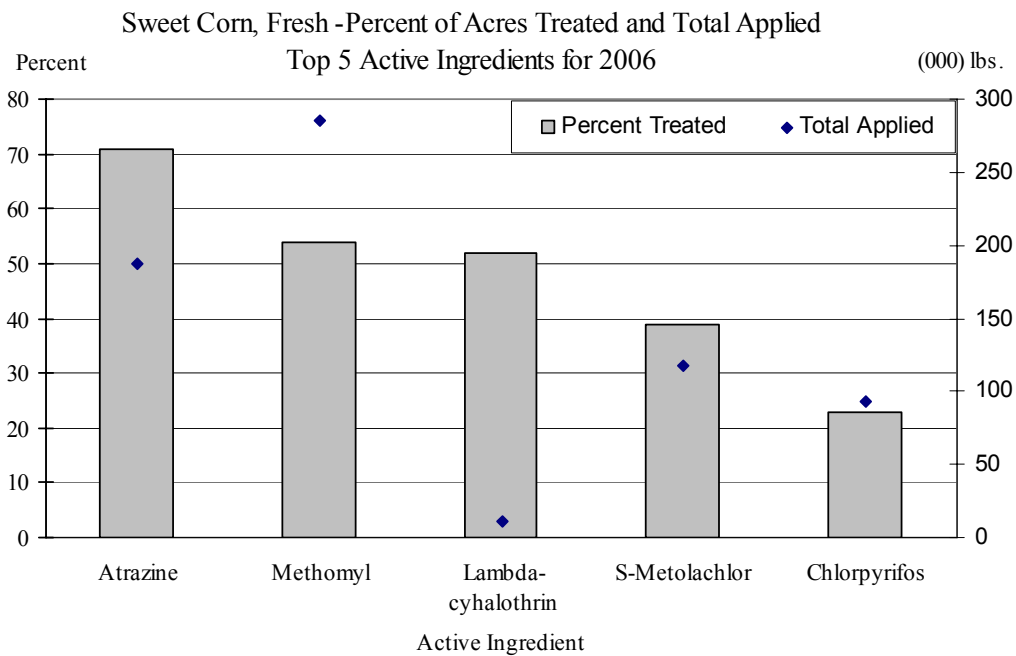
**Sweet Corn, Fresh: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	27,000	62	28.1	89	63.8	(²)			
CO	10,000	13	1.0	98	57.9			(²)	
FL	33,000	92	46.0	98	155.3	77	86.8	(²)	
GA	32,000	99	86.9	98	236.2	(²)		(²)	
IL	7,000	75	14.2	69	2.6	4	0.1		
MI	9,000	83	21.3	82	7.3	31	9.2		
NJ	7,200	63	11.8	81	8.9	24	3.8		
NY	29,100	97	79.3	89	17.8	(²)			
NC	8,300	61	13.9	89	23.8	5	0.3	(²)	
OH	17,000	93	38.7	85	12.2	7	0.4		
OR	4,500	91	12.7	79	3.0				
PA	20,200	95	77.3	73	10.6	22	0.6	(²)	
TX	2,000	28	0.6	69	0.8				
WI	8,000	91	14.0	55	2.1	(²)			
Total	214,300	83	445.7	88	602.2	20	105.0	2	291.1

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.



**Sweet Corn, Fresh: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
2,4-D, dimeth. salt	2	1.0	0.519	0.519	2.4
Acetochlor	*	1.0	1.735	1.735	0.5
Alachlor	12	1.0	1.876	1.906	47.4
Atrazine	71	1.1	1.163	1.221	186.8
Bentazon	4	1.0	0.577	0.596	5.0
Carfentrazone-ethyl	2	1.0	0.018	0.018	0.1
Clopyralid	*	1.1	0.116	0.123	0.1
Dimethenamid	*	1.0	1.265	1.265	0.7
Dimethenamid-P	3	1.0	0.874	0.874	6.5
Glyphosate iso. salt	5	1.1	0.846	0.909	9.6
Halosulfuron	*	1.0	0.028	0.028	(²)
Imazethapyr	1	1.0	0.062	0.062	0.1
Mesotrione	5	1.0	0.124	0.124	1.2
Nicosulfuron	*	1.0	0.029	0.029	(²)
Paraquat	*	1.1	0.415	0.437	0.4
Pendimethalin	13	1.1	1.076	1.168	32.8
S-Metolachlor	39	1.1	1.286	1.428	118.1
Sethoxydim	*	1.1	0.573	0.641	0.2
Simazine	1	1.0	0.938	0.938	1.9
Trifluralin	*	1.0	1.067	1.067	0.2
Insecticides					
Bifenthrin	6	1.5	0.085	0.131	1.6
Bt subsp. kurstaki ³	1	1.7			
Carbaryl	5	3.0	0.586	1.783	21.2
Carbofuran	3	1.1	0.831	0.904	5.7
Chlorpyrifos	23	2.3	0.821	1.921	93.6
Cyfluthrin	15	2.8	0.034	0.093	3.0
Diazinon	3	1.2	0.902	1.124	8.4
Endosulfan	4	2.0	0.931	1.829	17.1
Esfenvalerate	22	5.9	0.037	0.215	10.0
Lambda-cyhalothrin	52	3.6	0.028	0.102	11.4
Malathion	*	1.2	0.754	0.942	1.0
Methomyl	54	7.2	0.341	2.467	285.4
Methyl parathion	1	1.3	0.545	0.723	1.7
Permethrin	14	1.7	0.126	0.210	6.5
Phorate	12	1.0	1.216	1.235	30.6
Propargite	6	1.0	2.016	2.059	26.5
Pyrethrins	*	1.1	0.046	0.049	(²)
Spinosad	3	1.5	0.060	0.090	0.5
Tebupirimphos	1	1.0	0.173	0.173	0.3
Tefluthrin	1	1.0	0.086	0.089	0.1
Terbufos	1	1.0	1.061	1.061	1.1

See footnote(s) at end of table.

--continued

**Sweet Corn, Fresh: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides (continued)					
Thiodicarb	23	2.9	0.477	1.393	69.3
Zeta-cypermethrin	13	2.3	0.038	0.086	2.3
Fungicides					
Azoxystrobin	6	1.8	0.119	0.214	2.8
Chlorothalonil	2	2.3	1.064	2.484	8.1
Mancozeb	11	3.6	0.933	3.400	80.4
Propiconazole	11	1.6	0.098	0.160	3.6

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 14 Program States was 214,300 acres.

States included are CA, CO, FL, GA, IL, MI, NJ, NY, NC, OH, OR, PA, TX, and WI.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
California, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Atrazine	22	1.1	1.124	1.277	7.7
Carfentrazone-ethyl	13	1.0	0.023	0.023	0.1
Glyphosate iso. salt	21	1.0	0.822	0.853	4.8
Pendimethalin	38	1.2	0.865	1.006	10.4
S-Metolachlor	8	1.1	1.435	1.551	3.4
Insecticides					
Bifenthrin	22	1.5	0.099	0.146	0.9
Bt subsp. kurstaki ²	8	1.9			
Cyfluthrin	38	2.8	0.041	0.114	1.2
Diazinon	27	1.2	0.855	1.051	7.7
Esfenvalerate	65	4.0	0.047	0.187	3.3
Lambda-cyhalothrin	56	3.0	0.029	0.087	1.3
Methomyl	72	4.4	0.365	1.617	31.6
Oxydemeton-methyl	17	1.0	0.500	0.504	2.3
Propargite	14	1.1	2.399	2.571	9.5
Spinosad	17	1.3	0.058	0.077	0.4
Zeta-cypermethrin	57	2.4	0.048	0.118	1.8

¹ Planted acreage in 2006 for California was 27,000 acres.

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

**Sweet Corn, Fresh: Agricultural Chemical Applications,
Colorado, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides					
Lambda-cyhalothrin	96	7.4	0.031	0.230	2.2
Methomyl	95	3.3	0.267	0.880	8.3
Propargite	93	1.0	1.842	1.842	17.0

¹ Planted acreage in 2006 for Colorado was 10,000 acres.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
Florida, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Atrazine	91	1.0	1.163	1.211	36.4
S-Metolachlor	11	1.1	1.674	1.857	6.5
Insecticides					
Carbaryl	2	1.1	0.150	0.165	0.1
Chlorpyrifos	36	2.0	0.646	1.321	15.6
Cyfluthrin	36	3.2	0.029	0.092	1.1
Lambda-cyhalothrin	37	6.4	0.025	0.160	2.0
Methomyl	74	8.7	0.326	2.825	69.4
Thiodicarb	48	4.9	0.448	2.210	35.2
Fungicides					
Azoxystrobin	24	2.2	0.136	0.300	2.3
Chlorothalonil	5	1.7	1.387	2.330	3.5
Mancozeb	66	3.6	0.904	3.281	72.0
Propiconazole	34	1.6	0.110	0.179	2.0

¹ Planted acreage in 2006 for Florida was 33,000 acres.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
Georgia, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Atrazine	98	1.0	1.061	1.061	33.3
S-Metolachlor	86	1.0	0.859	0.859	23.7
Insecticides					
Carbaryl	*	2.6	0.529	1.385	(²)
Chlorpyrifos	95	2.7	0.877	2.369	72.2
Esfenvalerate	59	9.0	0.032	0.285	5.4
Methomyl	98	14.4	0.342	4.917	153.5

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Georgia was 32,000 acres.

² Total applied is less than 50 lbs.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
Illinois, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Alachlor	17	1.1	2.399	2.692	3.2
Atrazine	53	1.1	1.361	1.480	5.4
Bentazon	25	1.0	0.790	0.790	1.4
S-Metolachlor	20	1.0	1.478	1.488	2.1
Insecticides					
Carbaryl	2	3.1	1.553	4.842	0.7
Lambda-cyhalothrin	55	5.4	0.024	0.130	0.5
Permethrin	5	3.0	0.127	0.378	0.1
Zeta-cypermethrin	15	3.4	0.022	0.076	0.1

¹ Planted acreage in 2006 for Illinois was 7,000 acres.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
Michigan, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
2,4-D, dimeth. salt	2	1.0	0.545	0.545	0.1
Alachlor	15	1.1	2.082	2.193	2.9
Atrazine	73	1.1	1.259	1.336	8.8
Bentazon	9	1.3	0.491	0.632	0.5
Glyphosate iso. salt	1	1.0	1.102	1.102	0.1
Mesotrione	8	1.0	0.133	0.133	0.1
Pendimethalin	12	1.0	1.096	1.096	1.2
S-Metolachlor	54	1.0	1.412	1.415	6.9
Insecticides					
Carbaryl	3	3.4	1.104	3.735	1.0
Chlorpyrifos	18	1.0	0.229	0.229	0.4
Cyfluthrin	9	1.6	0.027	0.043	(²)
Esfenvalerate	27	3.2	0.038	0.120	0.3
Lambda-cyhalothrin	44	2.7	0.026	0.070	0.3
Methomyl	32	2.3	0.440	1.017	2.9
Permethrin	3	1.9	0.166	0.316	0.1
Thiodicarb	13	2.3	0.651	1.505	1.8
Zeta-cypermethrin	6	1.6	0.021	0.033	(²)
Fungicides					
Chlorothalonil	1	2.3	2.121	4.955	0.6
Propiconazole	6	1.3	0.077	0.102	0.1

¹ Planted acreage in 2006 for Michigan was 9,000 acres.

² Total applied is less than 50 lbs.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
New Jersey, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Alachlor	7	1.0	1.415	1.415	0.8
Atrazine	59	1.0	1.319	1.341	5.7
S-Metolachlor	40	1.1	1.453	1.530	4.4
Insecticides					
Lambda-cyhalothrin	73	7.6	0.048	0.365	1.9
Methomyl	34	4.9	0.528	2.574	6.4

¹ Planted acreage in 2006 for New Jersey was 7,200 acres.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
New York, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
2,4-D, dimeth. salt	1	1.0	0.575	0.575	0.2
Alachlor	63	1.0	1.857	1.876	34.2
Atrazine	92	1.1	1.099	1.164	31.2
Bentazon	4	1.0	0.571	0.579	0.8
Glyphosate iso. salt	1	1.2	0.923	1.068	0.2
Imazethapyr	3	1.0	0.058	0.058	(²)
Mesotrione	4	1.0	0.151	0.151	0.2
Pendimethalin	14	1.0	1.065	1.105	4.6
S-Metolachlor	19	1.0	1.268	1.283	7.2
Insecticides					
Carbaryl	*	2.2	0.793	1.753	0.3
Esfenvalerate	3	1.2	0.034	0.042	(²)
Lambda-cyhalothrin	79	1.3	0.025	0.031	0.7
Methomyl	70	1.2	0.332	0.409	8.3
Permethrin	64	1.1	0.128	0.137	2.5
Thiodicarb	65	1.1	0.240	0.264	5.0

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for New York was 29,100 acres.

² Total applied is less than 50 lbs.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
North Carolina, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Alachlor	9	1.0	2.854	2.854	2.1
Atrazine	57	1.0	1.104	1.142	5.4
Glyphosate iso. salt	7	1.0	0.622	0.622	0.4
S-Metolachlor	44	1.0	1.394	1.449	5.3
Insecticides					
Carbaryl	2	1.7	1.288	2.250	0.4
Cyfluthrin	38	3.7	0.038	0.141	0.4
Esfenvalerate	33	3.9	0.039	0.154	0.4
Lambda-cyhalothrin	55	4.0	0.025	0.102	0.5
Methomyl	6	3.4	0.426	1.455	0.7
Thiodicarb	67	5.1	0.672	3.446	19.1
Zeta-cypermethrin	11	5.0	0.023	0.115	0.1

¹ Planted acreage in 2006 for North Carolina was 8,300 acres.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
Ohio, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
2,4-D, dimeth. salt	8	1.0	0.896	0.896	1.3
Acetochlor	1	1.0	1.563	1.563	0.2
Alachlor	5	1.0	2.205	2.205	2.0
Atrazine	80	1.0	1.257	1.293	17.5
Bentazon	8	1.0	0.549	0.554	0.8
Dimethenamid-P	5	1.0	0.989	0.989	0.9
Glyphosate iso. salt	3	1.0	0.812	0.821	0.5
Mesotrione	2	1.0	0.115	0.115	(²)
Pendimethalin	8	1.0	0.901	0.901	1.2
S-Metolachlor	68	1.0	1.129	1.130	13.0
Simazine	7	1.0	0.929	0.929	1.2
Insecticides					
Bifenthrin	10	1.3	0.086	0.108	0.2
Carbaryl	4	1.6	1.093	1.754	1.1
Chlorpyrifos	2	1.0	1.251	1.278	0.4
Cyfluthrin	18	1.3	0.031	0.039	0.1
Esfenvalerate	2	4.1	0.050	0.204	0.1
Lambda-cyhalothrin	31	2.6	0.021	0.056	0.3
Methomyl	6	2.0	0.406	0.821	0.8
Permethrin	11	3.0	0.148	0.441	0.8
Thiodicarb	14	2.0	0.658	1.330	3.2
Zeta-cypermethrin	3	1.7	0.022	0.037	(²)

¹ Planted acreage in 2006 for Ohio was 17,000 acres.

² Total applied is less than 50 lbs.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
Oregon, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Atrazine	79	1.8	1.259	2.230	8.0
Dimethenamid-P	64	1.0	0.921	0.921	2.6
Glyphosate iso. salt	5	1.0	0.894	0.894	0.2
S-Metolachlor	13	1.0	1.245	1.245	0.7
Insecticides					
Chlorpyrifos	10	1.0	0.915	0.957	0.4
Esfenvalerate	13	2.0	0.038	0.076	(²)

¹ Planted acreage in 2006 for Oregon was 4,500 acres.

² Total applied is less than 50 lbs.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
Pennsylvania, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
2,4-D, dimeth. salt	2	1.0	0.505	0.505	0.2
Atrazine	70	1.1	1.524	1.666	23.4
Bentazon	2	1.0	0.654	0.654	0.3
Carfentrazone-ethyl	4	1.0	0.008	0.008	(²)
Glyphosate iso. salt	6	1.0	1.105	1.105	1.4
Halosulfuron	3	1.0	0.028	0.028	(²)
Mesotrione	25	1.0	0.121	0.121	0.6
Pendimethalin	37	1.0	1.603	1.609	12.1
S-Metolachlor	62	1.7	1.815	2.998	37.4
Insecticides					
Chlorpyrifos	5	1.6	0.715	1.147	1.2
Cyfluthrin	11	1.8	0.022	0.039	0.1
Endosulfan	4	1.2	0.870	1.081	0.8
Esfenvalerate	5	1.1	0.039	0.044	(²)
Lambda-cyhalothrin	56	2.5	0.027	0.068	0.8
Methomyl	20	2.2	0.381	0.831	3.3
Permethrin	9	1.8	0.131	0.239	0.4
Tebupirimphos	7	1.0	0.183	0.183	0.3
Tefluthrin	2	1.0	0.031	0.032	(²)
Thiodicarb	7	1.7	0.620	1.044	1.5
Zeta-cypermethrin	2	2.9	0.024	0.071	(²)
Fungicides					
Propiconazole	17	1.0	0.082	0.082	0.3

¹ Planted acreage in 2006 for Pennsylvania was 20,200 acres.

² Total applied is less than 50 lbs.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
Texas, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Atrazine	13	1.0	1.901	1.901	0.5
Insecticides					
Malathion	29	1.0	0.606	0.609	0.4

¹ Planted acreage in 2006 for Texas was 2,000 acres.

**Sweet Corn, Fresh: Agricultural Chemical Applications,
Wisconsin, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Atrazine	79	1.0	0.561	0.562	3.5
Bentazon	27	1.0	0.447	0.454	1.0
Dimethenamid-P	8	1.0	0.766	0.766	0.5
Mesotrione	27	1.0	0.122	0.122	0.3
Pendimethalin	6	1.0	0.533	0.540	0.2
S-Metolachlor	76	1.0	1.225	1.225	7.4
Simazine	7	1.0	0.994	0.994	0.5
Insecticides					
Esfenvalerate	3	2.0	0.033	0.066	(²)
Lambda-cyhalothrin	34	3.0	0.023	0.069	0.2
Permethrin	12	2.8	0.164	0.462	0.4

¹ Planted acreage in 2006 for Wisconsin was 8,000 acres.

² Total applied is less than 50 lbs.

Sweet Corn, Proc.: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
MN	135,200	89	13,190.0	60	3,538.7	52	4,865.6	(¹)	
NY	18,400	100	1,621.8	100	1,356.3	80	1,371.3	(¹)	
OR	26,100	92	4,044.3	85	2,612.9	86	2,240.6	61	404.4
WA	80,200	91	20,347.2	71	4,325.4	38	7,007.9	65	1,801.2
WI	86,200	100	12,614.9	96	2,934.7	88	6,730.2	50	1,615.2
Total	346,100	93	51,818.1	75	14,767.9	62	22,215.5	34	3,895.1

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Sweet Corn, Proc.: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Minnesota	135,200					
Nitrogen		89	1.3	83	110	13,190.0
Phosphate		60	1.0	42	44	3,538.7
Potash		52	1.0	67	69	4,865.6
Sulfur ¹						
New York	18,400					
Nitrogen		100	1.8	49	88	1,621.8
Phosphate		100	1.0	72	74	1,356.3
Potash		80	1.1	86	93	1,371.3
Sulfur ¹						
Oregon	26,100					
Nitrogen		92	2.3	75	169	4,044.3
Phosphate		85	1.1	104	118	2,612.9
Potash		86	1.1	89	100	2,240.6
Sulfur		61	1.7	15	26	404.4
Washington	80,200					
Nitrogen		91	2.5	110	277	20,347.2
Phosphate		71	1.3	60	76	4,325.4
Potash		38	2.9	79	231	7,007.9
Sulfur		65	1.5	23	34	1,801.2
Wisconsin	86,200					
Nitrogen		100	2.6	56	147	12,614.9
Phosphate		96	1.0	35	36	2,934.7
Potash		88	1.4	65	88	6,730.2
Sulfur		50	1.6	24	37	1,615.2
Program States	346,100					
Nitrogen		93	2.0	80	163	51,818.1
Phosphate		75	1.1	56	61	14,767.9
Potash		62	1.4	74	105	22,215.5
Sulfur		34	1.5	21	32	3,895.1

¹ Insufficient reports to publish fertilizer data.

**Sweet Corn, Proc.: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States					
	ALL	MN	NY	OR	WA	WI
Herbicides						
2,4-D, BEE	*			*		
2,4-D, dimeth. salt	*			*	*	
Alachlor	P	*			P	*
Atrazine	P	P	P	P	P	P
Bentazon	P	P	*	P		*
Bromoxynil octanoate	*				*	
Carfentrazone-ethyl	P	P	*	P	*	P
Clopyralid	P	*				*
Dicamba, sodium salt	*	*			*	
Diflufenzopyr-sodium	*	*				
Dimethenamid	P	*		*		
Dimethenamid-P	P	P	*	P	P	*
EPTC	P			P	P	
Fluroxypyr	*				*	
Glyphosate iso. salt	P	*	*	P	P	P
Halosulfuron	*		*			
Imazethapyr	*	*				
MCPA, 2-ethylhexyl	*				*	
Mesotrione	P	P	P		P	P
Methanone	P			P	P	P
Metolachlor	P			*	*	*
Nicosulfuron	P	P	*	*	P	P
Paraquat	*			*		
Pendimethalin	P	*	P	*	P	*
S-Metolachlor	P	P	P	P	P	P
Sethoxydim	P	*				*
Simazine	*					*
Sulfosate	*		*			
Insecticides						
Azadirachtin	*			*		
Bifenthrin	P	P	P	*	*	P
Chlorethoxyfos	*			*	*	
Chlorpyrifos	P	*		P	*	
Cyfluthrin	*				*	
Esfenvalerate	P			*	*	
Ethoprop	P			P		
Lambda-cyhalothrin	P	P		P	P	
Methomyl	*		*			
Mevinphos	*			*		
Permethrin	*	*			*	
Petroleum distillate	*			*	*	
Phosmet	*			*		

See footnote(s) at end of table.

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**Sweet Corn, Proc.: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

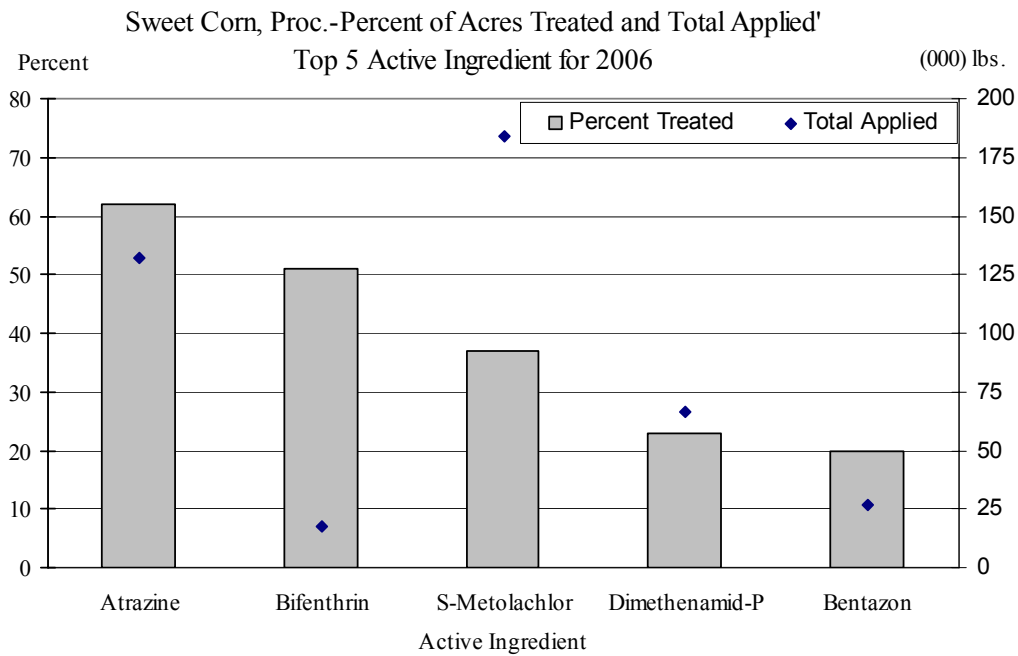
Active Ingredient	Program States					
	ALL	MN	NY	OR	WA	WI
Insecticides (continued)						
Pyrethrins	*			*		
Spinosad	*			*	*	
Tefluthrin	P		P	*	*	P
Zeta-cypermethrin	P	*		*	P	*
Fungicides						
Azoxystrobin	P	P				P
Propiconazole	P	P				P
Pyraclostrobin	P	*				*

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

**Sweet Corn, Proc.: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide		Fungicide		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
MN	135,200	89	186.1	83	12.2	17	4.1		
NY	18,400	89	42.7	35	0.6				
OR	26,100	87	64.0	67	10.6				
WA	80,200	70	114.6	68	7.6				
WI	86,200	96	159.7	67	5.4	6	0.5		
Total	346,100	86	567.2	72	36.4	8	4.6		



**Sweet Corn, Proc.: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Alachlor	5	1.1	1.950	2.106	36.0
Atrazine	62	1.1	0.585	0.616	132.0
Bentazon	20	1.0	0.388	0.389	26.9
Carfentrazone-ethyl	10	1.0	0.010	0.011	0.4
Clopyralid	1	1.2	0.067	0.079	0.4
Dimethenamid	1	1.0	1.025	1.046	5.3
Dimethenamid-P	23	1.0	0.829	0.841	66.7
EPTC	3	1.0	3.788	3.796	39.6
Glyphosate iso. salt	11	1.1	0.778	0.834	31.1
Mesotrione	18	1.0	0.126	0.130	8.2
Methanone	5	1.0	0.015	0.015	0.2
Metolachlor	2	1.0	1.138	1.138	7.0
Nicosulfuron	11	1.1	0.029	0.030	1.1
Pendimethalin	9	1.0	0.673	0.687	21.5
S-Metolachlor	37	1.0	1.420	1.477	184.3
Sethoxydim	1	1.0	0.296	0.296	1.0
Insecticides					
Bifenthrin	51	2.6	0.039	0.100	17.6
Chlorpyrifos	3	1.0	0.889	0.921	9.9
Esfenvalerate	1	1.0	0.039	0.040	0.1
Ethoprop	1	1.0	0.721	0.721	2.4
Lambda-cyhalothrin	5	1.4	0.022	0.032	0.5
Tefluthrin	2	1.0	0.135	0.135	0.9
Zeta-cypermethrin	12	1.7	0.031	0.053	2.2
Fungicides					
Azoxystrobin	5	1.2	0.113	0.141	2.6
Propiconazole	2	1.2	0.112	0.132	0.8
Pyraclostrobin	2	1.5	0.099	0.145	1.2

¹ Planted acreage in 2006 for the 5 Program States was 346,100 acres.
States included are MN, NY, OR, WA, and WI.

**Sweet Corn, Proc.: Agricultural Chemical Applications,
Minnesota, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Atrazine	63	1.0	0.466	0.480	41.2
Bentazon	47	1.0	0.372	0.372	23.5
Carfentrazone-ethyl	14	1.0	0.010	0.010	0.2
Dimethenamid-P	43	1.0	0.877	0.890	51.3
Mesotrione	12	1.0	0.110	0.112	1.8
Nicosulfuron	12	1.0	0.031	0.032	0.5
S-Metolachlor	25	1.0	1.738	1.766	60.4
Insecticides					
Bifenthrin	81	2.7	0.038	0.103	11.3
Lambda-cyhalothrin	3	1.4	0.020	0.028	0.1
Fungicides					
Azoxystrobin	11	1.3	0.118	0.151	2.3
Propiconazole	3	1.2	0.113	0.138	0.6

¹ Planted acreage in 2006 for Minnesota was 135,200 acres.

**Sweet Corn, Proc.: Agricultural Chemical Applications,
New York, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Atrazine	83	1.0	0.734	0.765	11.7
Mesotrione	52	1.0	0.164	0.170	1.6
Pendimethalin	17	1.0	1.138	1.138	3.6
S-Metolachlor	72	1.0	1.555	1.630	21.7
Insecticides					
Bifenthrin	28	1.5	0.048	0.071	0.4
Tefluthrin	10	1.0	0.112	0.112	0.2

¹ Planted acreage in 2006 for New York was 18,400 acres.

**Sweet Corn, Proc.: Agricultural Chemical Applications,
Oregon, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Atrazine	58	1.1	0.990	1.110	16.9
Bentazon	11	1.1	0.597	0.631	1.8
Carfentrazone-ethyl	11	1.0	0.013	0.013	(²)
Dimethenamid-P	37	1.0	0.758	0.776	7.4
EPTC	23	1.0	3.936	3.951	23.3
Glyphosate iso. salt	17	1.1	1.254	1.347	5.8
Methanone	8	1.0	0.016	0.016	(²)
S-Metolachlor	20	1.0	1.177	1.194	6.3
Insecticides					
Chlorpyrifos	18	1.0	1.414	1.466	6.8
Ethoprop	13	1.0	0.721	0.721	2.4
Lambda-cyhalothrin	8	1.0	0.029	0.029	0.1

¹ Planted acreage in 2006 for Oregon was 26,100 acres.

² Total applied is less than 50 lbs.

**Sweet Corn, Proc.: Agricultural Chemical Applications,
Washington, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Alachlor	18	1.1	1.945	2.119	31.4
Atrazine	33	1.1	0.579	0.649	17.0
Dimethenamid-P	8	1.0	0.603	0.611	3.7
EPTC	6	1.0	3.592	3.592	16.2
Glyphosate iso. salt	20	1.1	0.704	0.796	12.5
Mesotrione	6	1.0	0.090	0.095	0.4
Methanone	14	1.0	0.014	0.014	0.2
Nicosulfuron	7	1.2	0.030	0.036	0.2
Pendimethalin	30	1.0	0.617	0.634	15.2
S-Metolachlor	12	1.1	1.251	1.327	12.9
Insecticides					
Lambda-cyhalothrin	12	1.6	0.022	0.035	0.3
Zeta-cypermethrin	41	1.8	0.032	0.058	1.9

¹ Planted acreage in 2006 for Washington was 80,200 acres.

**Sweet Corn, Proc.: Agricultural Chemical Applications,
Wisconsin, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Atrazine	83	1.0	0.611	0.633	45.2
Carfentrazone-ethyl	13	1.1	0.010	0.011	0.1
Glyphosate iso. salt	18	1.0	0.712	0.712	11.2
Mesotrione	37	1.0	0.128	0.133	4.3
Methanone	4	1.0	0.015	0.015	0.1
Nicosulfuron	17	1.0	0.025	0.025	0.4
S-Metolachlor	75	1.1	1.215	1.280	82.9
Insecticides					
Bifenthrin	62	2.2	0.041	0.091	4.8
Tefluthrin	5	1.0	0.131	0.131	0.5
Fungicides					
Azoxystrobin	4	1.0	0.081	0.081	0.3
Propiconazole	2	1.0	0.109	0.109	0.2

¹ Planted acreage in 2006 for Wisconsin was 86,200 acres.

Cucumbers, Fresh: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	5,100	83	359.8	71	156.9	70	108.2	(¹)	
FL	10,000	89	996.0	46	358.1	89	1,011.1		
GA	18,000	97	1,382.5	52	318.5	95	2,612.8	(¹)	
MI	5,600	93	487.9	74	303.0	95	713.3	10	20.4
NJ	3,300	96	390.0	88	287.3	96	488.9	(¹)	
NY	4,500	94	361.8	87	286.6	87	390.2	(¹)	
NC	7,000	100	696.9	66	313.8	96	642.4	9	13.0
Total	53,500	94	4,674.9	62	2,024.3	91	5,966.9	16	123.8

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Cucumbers, Fresh: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	5,100					
Nitrogen		83	4.4	19	85	359.8
Phosphate		71	1.6	28	44	156.9
Potash		70	1.3	24	30	108.2
Sulfur ¹						
Florida	10,000					
Nitrogen		89	3.6	31	112	996.0
Phosphate		46	2.7	30	79	358.1
Potash		89	3.5	33	114	1,011.1
Georgia	18,000					
Nitrogen		97	28.5	3	79	1,382.5
Phosphate		52	1.1	31	34	318.5
Potash		95	28.8	5	153	2,612.8
Sulfur ¹						
Michigan	5,600					
Nitrogen		93	1.7	54	94	487.9
Phosphate		74	1.0	72	73	303.0
Potash		95	1.3	101	134	713.3
Sulfur		10	1.0	35	35	20.4
New Jersey	3,300					
Nitrogen		96	2.5	48	123	390.0
Phosphate		88	2.0	48	98	287.3
Potash		96	2.5	62	154	488.9
Sulfur ¹						
New York	4,500					
Nitrogen		94	1.9	46	85	361.8
Phosphate		87	1.4	52	73	286.6
Potash		87	1.8	54	100	390.2
Sulfur ¹						
North Carolina	7,000					
Nitrogen		100	2.0	49	100	696.9
Phosphate		66	1.3	52	68	313.8
Potash		96	1.4	69	96	642.4
Sulfur		9	1.4	14	20	13.0

See footnote(s) at end of table.

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**Cucumbers, Fresh: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006 (continued)**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Program States	53,500					
Nitrogen		94	8.8	11	98	4,674.9
Phosphate		62	1.6	43	68	2,024.3
Potash		91	8.5	15	125	5,966.9
Sulfur		16	1.1	15	17	123.8

¹ Insufficient reports to publish fertilizer data.

**Cucumbers, Fresh: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States							
	ALL	CA	FL	GA	MI	NJ	NY	NC
Herbicides								
2,4-D, dimeth. salt	*						*	
Bensulide	P				*	P	*	*
Bentazon	*							*
Clethodim	*		*					
Clomazone	P		*	*	P	P	P	*
Ethalfuralin	P		*	*	P	P	P	P
Glufosinate-ammonium	*				*			
Glyphosate iso. salt	P	*	*	*	P		P	*
Halosulfuron	P	*		*	*	*	*	*
Imazethapyr	*						*	
Lactofen	*		*					
Napropamide	*					*	*	*
Naptalam	P		*		*	*	*	
Paraquat	*			*				*
Pendimethalin	*				*		*	
S-Metolachlor	P				P			
Sethoxydim	P						*	*
Trifluralin	P		*	*	P		P	
Insecticides								
Abamectin	*	*	*	*				
Acephate	P		*	*				*
Acetamiprid	*			*				
Azadirachtin	*				*			
Azinphos-methyl	*		*				*	
Benzoic acid	*			*				
Bifenazate	*	*	*					
Bifenthrin	P	*	*	*	*			*
Bt subsp. aizawai	*		*	*				
Bt subsp. kurstaki	P	*	P	*	*			*
Buprofezin	*			*				
Canola oil	*			*				
Carbaryl	P	*	*	P	P	P	P	P
Carbofuran	*				*	*		
Cyfluthrin	*				*		*	*
Diazinon	*	*	*				*	*
Dicofol	*		*					
Dimethoate	*		*			*		
Dinotefuran	*					*		
Endosulfan	P		*	P	P	P	*	P
Esfenvalerate	P	*	*	P	P	P	P	P
Imidacloprid	P		*		*	*	P	
Lambda-cyhalothrin	*				*	*	*	

See footnote(s) at end of table.

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**Cucumbers, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	FL	GA	MI	NJ	NY	NC
Insecticides (continued)								
Malathion	P		*	*				*
Methomyl	P	*	P	*	P	P	*	*
Naled	*		*					
Neem oil, clar. hyd.	*				*			
Oxamyl	*		*					*
Oxydemeton-methyl	*					*		
Permethrin	P			*	*	*	P	P
Petroleum distillate	*		*					
Phosmet	*				*			
Pymetrozine	*				*			
Pyrethrins	P	*	*	*	P	*	*	*
Pyriproxyfen	*			*				
Rotenone	*		*					
Spinosad	P	*	*				*	
Spiromesifen	*		*					
Tebufenozide	*		*					
Thiacloprid	*				*			
Thiamethoxam	*	*			*			
Trichlorfon	*				*			
Zeta-cypermethrin	P			*	*			
Fungicides								
Azoxystrobin	P		*	P	P	*	P	P
Bacillus pumilus	*		*					
Bacillus subtilis	*		*				*	
Basic copper sulfate	P			*	*	*	*	
Benomyl	*				*			
Borax decahydrate	*		*					
Boscalid	*		*	*				
Captan	*		*		*		*	
Chlorothalonil	P		P	P	P	P	P	P
Copper amm. complex	*		*					
Copper hydroxide	P	*	*	*	P	P	P	P
Copper oxychloride	P				*	*	*	
Copper resinate	*					*	*	*
Copper sulfate	*						*	
Cyazofamid	*				*			
Cymoxanil	P			*	P	*	*	P
Dimethomorph	P			*	*	*	*	
Famoxadone	P			*	P	*	*	P
Mancozeb	P		*	*	P	*	P	P
Maneb	P		P	P	*	P	*	*
Mefenoxam	P		*		*	*		*

See footnote(s) at end of table.

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**Cucumbers, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	FL	GA	MI	NJ	NY	NC
Fungicides (continued)								
Metalaxyl	*		*			*		*
Myclobutanil	P	*	*		P	*	*	
Phosphorous acid	P		*		*	*	*	
Propamocarb hydroch.	P		*	P	P	P	*	*
Pyraclostrobin	P		*	*	*	*		*
Sulfur	*		*		*			
Thiophanate-methyl	P		*		*	*		
Triadimefon	*	*						
Trifloxystrobin	*				*		*	
Zoxamide	P		*	*				*
Other Chemicals								
Chloropicrin	P				*			*
Dichloropropene	P			*				*
Gibberellic acid	*			*	*			
Hydrogen peroxide	*		*		*			
Metam-sodium	P		*	*		*		
Methyl bromide	P			*	*			*

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

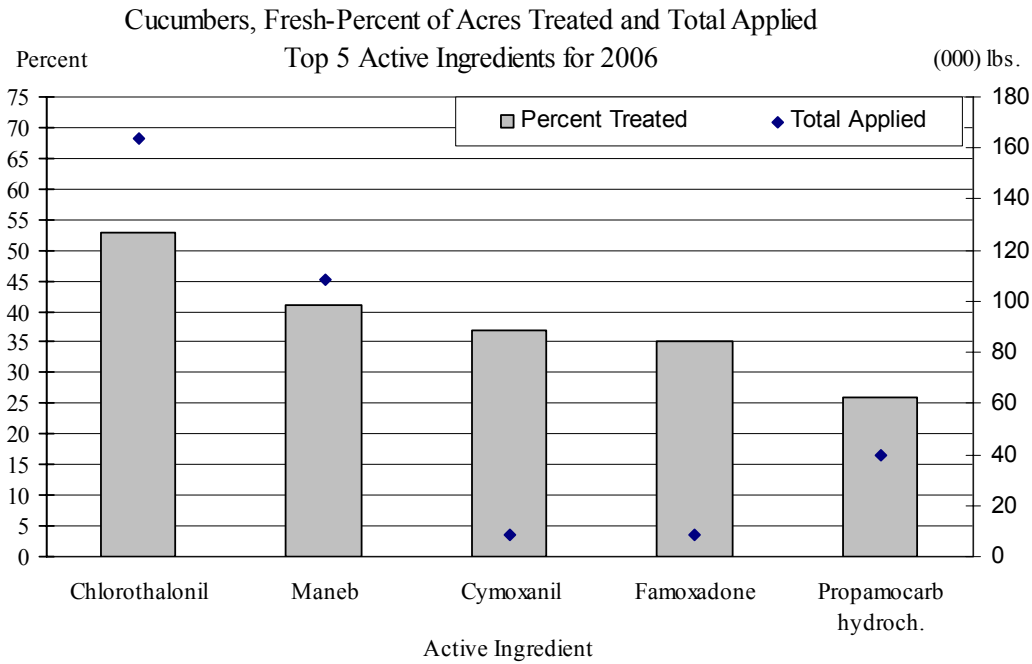
**Cucumbers, Fresh: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	5,100	(²)		17	0.3	(²)			
FL	10,000	41	2.6	97	25.9	(²)		(²)	
GA	18,000	(²)		90	33.1	100	231.7	58	1,661.1
MI	5,600	91	8.1	82	2.9	96	85.3	(²)	
NJ	3,300	52	1.8	97	3.6	97	16.9	(²)	
NY	4,500	16	0.5	28	2.2	41	5.9		
NC	7,000	65	3.0	59	17.7	49	13.8	14	127.8
Total	53,500	40	18.8	75	85.7	75	428.1	25	1,802.0

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.



**Cucumbers, Fresh: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	3	1.0	1.109	1.109	1.7
Clomazone	8	1.0	0.310	0.317	1.4
Ethalfuralin	17	1.0	0.654	0.654	5.9
Glyphosate iso. salt	7	1.2	0.732	0.881	3.3
Halosulfuron	6	1.0	0.029	0.029	0.1
Naptalam	1	1.0	1.565	1.565	1.1
S-Metolachlor	2	1.0	1.576	1.576	2.1
Sethoxydim	5	1.0	0.149	0.149	0.4
Trifluralin	3	1.0	0.509	0.509	0.8
Insecticides					
Acephate	2	1.8	0.966	1.692	1.5
Bifenthrin	19	3.0	0.079	0.233	2.4
Bt subsp. kurstaki ²	27	3.9			
Carbaryl	5	1.2	0.899	1.080	3.1
Endosulfan	25	3.4	0.572	1.957	26.1
Esfenvalerate	26	3.6	0.044	0.157	2.2
Imidacloprid	7	1.0	0.241	0.242	0.9
Malathion	*	1.8	1.074	1.930	(³)
Methomyl	21	4.1	0.418	1.705	19.5
Permethrin	2	3.1	0.116	0.364	0.4
Pyrethrins	*	1.3	0.009	0.011	(³)
Spinosad	2	2.1	0.099	0.206	0.2
Zeta-cypermethrin	1	2.1	0.032	0.068	0.1
Fungicides					
Azoxystrobin	8	1.7	0.192	0.319	1.4
Basic copper sulfate	2	4.0	0.638	2.535	2.3
Chlorothalonil	53	4.5	1.271	5.726	163.6
Copper hydroxide	16	3.3	0.554	1.822	16.4
Copper oxychloride	1	3.0	1.150	3.504	1.5
Cymoxanil	37	3.1	0.140	0.430	8.5
Dimethomorph	7	2.8	0.200	0.563	2.2
Famoxadone	35	3.2	0.140	0.447	8.3
Mancozeb	21	3.5	1.375	4.752	52.9
Maneb	41	4.1	1.222	4.953	108.4
Mefenoxam	5	1.0	0.136	0.137	0.4
Myclobutanil	5	1.7	0.097	0.166	0.5
Phosphorous acid	3	1.9	1.276	2.422	3.7
Propamocarb hydroch.	26	3.6	0.793	2.847	39.9
Pyraclostrobin	6	2.2	0.088	0.195	0.6
Thiophanate-methyl	1	2.5	0.493	1.241	0.3
Zoxamide	9	4.4	0.160	0.700	3.4

See footnote(s) at end of table.

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**Cucumbers, Fresh: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Other Chemicals					
Chloropicrin	2	1.0	29.143	29.143	27.0
Dichloropropene	20	1.0	92.642	93.655	1,012.3
Metam-sodium	1	1.2	81.339	95.695	70.5
Methyl bromide	8	1.0	168.797	168.797	690.6

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 6 Program States was 53,500 acres.

States included are 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.

³ Total applied is less than 50 lbs.

**Cucumbers, Fresh: Agricultural Chemical Applications,
Florida, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides					
Bt subsp. kurstaki ²	50	7.6			
Methomyl	67	5.4	0.404	2.193	14.7
Fungicides					
Chlorothalonil	32	4.8	1.597	7.620	24.5
Maneb	36	5.6	0.606	3.394	12.1

¹ Planted acreage in 2006 for Florida was 10,000 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, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides					
Carbaryl	*	2.7	0.841	2.269	(²)
Endosulfan	62	3.7	0.565	2.107	23.4
Esfenvalerate	62	3.8	0.045	0.171	1.9
Fungicides					
Azoxystrobin	16	2.0	0.185	0.379	1.1
Chlorothalonil	86	5.3	0.960	5.046	78.5
Maneb	83	4.1	1.420	5.805	87.0
Propamocarb hydroch.	25	4.5	0.844	3.833	17.6

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Georgia was 18,000 acres.

² Total applied is less than 50 lbs.

**Cucumbers, Fresh: Agricultural Chemical Applications,
Michigan, 2006 ¹**

Active Ingredient	Area Applied	Appli- cations	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	23	1.0	0.818	0.818	1.1
Ethalfuralin	57	1.0	0.858	0.858	2.7
Glyphosate iso. salt	2	1.0	1.106	1.106	0.1
S-Metolachlor	24	1.0	1.576	1.576	2.1
Trifluralin	*	1.0	0.608	0.608	(²)
Insecticides					
Carbaryl	1	1.1	0.970	1.038	(²)
Endosulfan	14	1.2	0.559	0.658	0.5
Esfenvalerate	33	3.2	0.037	0.119	0.2
Methomyl	18	2.4	0.643	1.525	1.5
Pyrethrins	*	2.0	0.032	0.062	(²)
Fungicides					
Azoxystrobin	3	1.1	0.191	0.202	(²)
Chlorothalonil	73	5.4	2.102	11.382	46.4
Copper hydroxide	73	5.2	0.583	3.005	12.3
Cymoxanil	72	2.5	0.125	0.311	1.3
Famoxadone	72	2.5	0.125	0.310	1.3
Mancozeb	13	5.2	2.213	11.409	8.4
Myclobutanil	18	1.9	0.098	0.182	0.2
Propamocarb hydroch.	73	3.9	0.771	2.989	12.3

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Michigan was 5,600 acres.

² Total applied is less than 50 lbs.

**Cucumbers, Fresh: Agricultural Chemical Applications,
New Jersey, 2006 ¹**

Active Ingredient	Area Applied	Appli- cations	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	15	1.0	1.796	1.796	0.9
Clomazone	34	1.1	0.111	0.122	0.1
Ethalfuralin	24	1.0	0.178	0.179	0.1
Insecticides					
Carbaryl	2	3.4	1.029	3.483	0.3
Endosulfan	18	2.5	0.848	2.123	1.3
Esfenvalerate	3	1.3	0.040	0.053	(²)
Methomyl	67	2.0	0.399	0.802	1.8
Fungicides					
Chlorothalonil	87	1.7	1.294	2.201	6.4
Copper hydroxide	85	2.1	0.434	0.919	2.6
Maneb	56	1.5	1.145	1.727	3.2
Propamocarb hydroch.	52	1.1	0.574	0.657	1.1

¹ Planted acreage in 2006 for New Jersey was 3,300 acres.

² Total applied is less than 50 lbs.

**Cucumbers, Fresh: Agricultural Chemical Applications,
New York, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	4	1.0	0.198	0.198	(²)
Ethalfuralin	3	1.0	1.005	1.005	0.2
Glyphosate iso. salt	1	1.0	1.095	1.106	(²)
Trifluralin	1	1.0	0.788	0.788	(²)
Insecticides					
Carbaryl	4	1.3	0.762	1.012	0.2
Esfenvalerate	2	1.2	0.029	0.033	(²)
Imidacloprid	1	1.1	0.131	0.145	(²)
Permethrin	2	1.3	0.122	0.163	(²)
Fungicides					
Azoxystrobin	*	1.2	0.074	0.092	(²)
Chlorothalonil	11	1.6	1.443	2.249	1.1
Copper hydroxide	11	1.1	0.840	0.950	0.5
Mancozeb	27	2.4	1.188	2.815	3.4

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for New York was 4,500 acres.

² Total applied is less than 50 lbs.

**Cucumbers, Fresh: Agricultural Chemical Applications,
North Carolina, 2006¹**

Active Ingredient	Area Applied	Appli- cations	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Ethalfuralin	31	1.0	0.806	0.806	1.7
Insecticides					
Carbaryl	35	1.1	0.913	1.026	2.5
Endosulfan	*	1.1	0.969	1.077	(²)
Esfenvalerate	7	1.5	0.040	0.060	(²)
Permethrin	7	2.0	0.150	0.294	0.1
Fungicides					
Azoxystrobin	19	1.0	0.202	0.203	0.3
Chlorothalonil	27	1.2	2.966	3.485	6.6
Copper hydroxide	7	1.0	0.632	0.657	0.3
Cymoxanil	8	1.2	0.124	0.148	0.1
Famoxadone	8	1.1	0.124	0.136	0.1
Mancozeb	2	3.0	1.163	3.435	0.5

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for North Carolina was 7,000 acres.

² Total applied is less than 50 lbs.

Cucumbers, Pickles: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
FL	6,700	(¹)		(¹)		(¹)			
MI	34,000	100	2,451.2	82	1,091.4	73	2,458.6	18	73.4
NC	11,100	100	1,239.6	81	445.9	100	1,705.0	(¹)	
OH	3,100	95	245.5	94	217.9	91	488.3	(¹)	
SC	3,500	(¹)		(¹)		(¹)		(¹)	
TX	8,200	93	893.9	73	435.0	26	127.8	35	95.3
WI	4,800	65	287.0	65	80.9	65	284.4	56	72.0
Total	71,400	96	6,134.5	83	2,626.6	76	7,022.6	17	258.2

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Cucumbers, Pickles: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Florida	6,700					
Nitrogen ¹						
Phosphate ¹						
Potash ¹						
Michigan	34,000					
Nitrogen		100	1.9	39	72	2,451.2
Phosphate		82	1.2	32	39	1,091.4
Potash		73	1.5	67	98	2,458.6
Sulfur		18	1.2	10	12	73.4
North Carolina	11,100					
Nitrogen		100	1.9	58	112	1,239.6
Phosphate		81	1.3	40	50	445.9
Potash		100	1.3	123	154	1,705.0
Sulfur ¹						
Ohio	3,100					
Nitrogen		95	2.2	38	84	245.5
Phosphate		94	1.3	57	74	217.9
Potash		91	1.1	162	173	488.3
Sulfur ¹						
South Carolina	3,500					
Nitrogen ¹						
Phosphate ¹						
Potash ¹						
Sulfur ¹						
Texas	8,200					
Nitrogen		93	1.3	90	118	893.9
Phosphate		73	1.1	69	72	435.0
Potash		26	1.1	53	61	127.8
Sulfur		35	1.1	31	33	95.3
Wisconsin	4,800					
Nitrogen		65	3.5	27	91	287.0
Phosphate		65	1.2	22	26	80.9
Potash		65	2.2	41	91	284.4
Sulfur		56	2.5	11	27	72.0

See footnote(s) at end of table.

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**Cucumbers, Pickles: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006 (continued)**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Program States	71,400					
Nitrogen		96	3.6	25	90	6,134.5
Phosphate		83	1.5	27	41	2,626.6
Potash		76	3.6	36	131	7,022.6
Sulfur		17	1.7	13	22	258.2

¹ Insufficient reports to publish fertilizer data.

**Cucumbers, Pickles: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States							
	ALL	FL	MI	NC	OH	SC	TX	WI
Herbicides								
Atrazine	*			*				
Bensulide	*				*		*	*
Clethodim	*		*	*			*	
Clomazone	P		P	*	P	*		
Ethalfuralin	P		P	P	*	*	P	P
Glyphosate iso. salt	P	*	*	*	*		*	
Halosulfuron	P		P	P	*			*
Naptalam	P		*	*	*		*	*
Paraquat	*		*	*				
Pendimethalin	*						*	
S-Metolachlor	*			*				
Sethoxydim	P		P	P		*		*
Trifluralin	*			*			*	
Insecticides								
Acephate	*			*				
Bifenthrin	*				*			
Bt subsp. kurstaki	*	*						
Carbaryl	P	*	*	*	P	*	P	
Carbofuran	P		*		*			
Cyfluthrin	*						*	
Dimethoate	*						*	
Dinotefuran	*						*	
Endosulfan	P			*	P		*	
Esfenvalerate	P		P	P		*	P	*
Fenpropathrin	*						*	
Imidacloprid	*				*		*	
Lambda-cyhalothrin	*				*		*	
Malathion	*				*		*	
Methomyl	P		*				*	
Neem oil, clar. hyd.	*						*	
Oxamyl	*						*	
Permethrin	P				P	*	*	
Pymetrozine	*	*						
Pyrethrins	*				*	*	*	
Rotenone	*						*	
Spinosad	*	*						
Spiromesifen	*						*	

See footnote(s) at end of table.

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**Cucumbers, Pickles: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	FL	MI	NC	OH	SC	TX	WI
Fungicides								
Azoxystrobin	P			*	*		*	
Bacillus pumilus	*				*			
Boscalid	*	*				*		
Chlorothalonil	P	*	P	P	P	*	*	
Copper hydroxide	P	*	P		*		*	
Copper resinate	*				*			
Copper sulfate	*		*					
Cyazofamid	*		*		*			
Cymoxanil	P	*	P	P	*			
Famoxadone	P	*	P	P	*			
Fosetyl-al	*		*					
Mancozeb	P	*	P	*	P	*	*	
Maneb	P	*	*	*	*			
Mefenoxam	*		*				*	
Myclobutanil	*				*		*	
Propamocarb hydroch.	P	*	P	*	P			
Pyraclostrobin	P	*			*	*		
Thiophanate-methyl	*	*			*		*	
Triflumizole	P	*	*	*			*	
Other Chemicals								
Dichloropropene	*			*				

P Usage data are published for this active ingredient.

*Usage data are not published for this active ingredient.

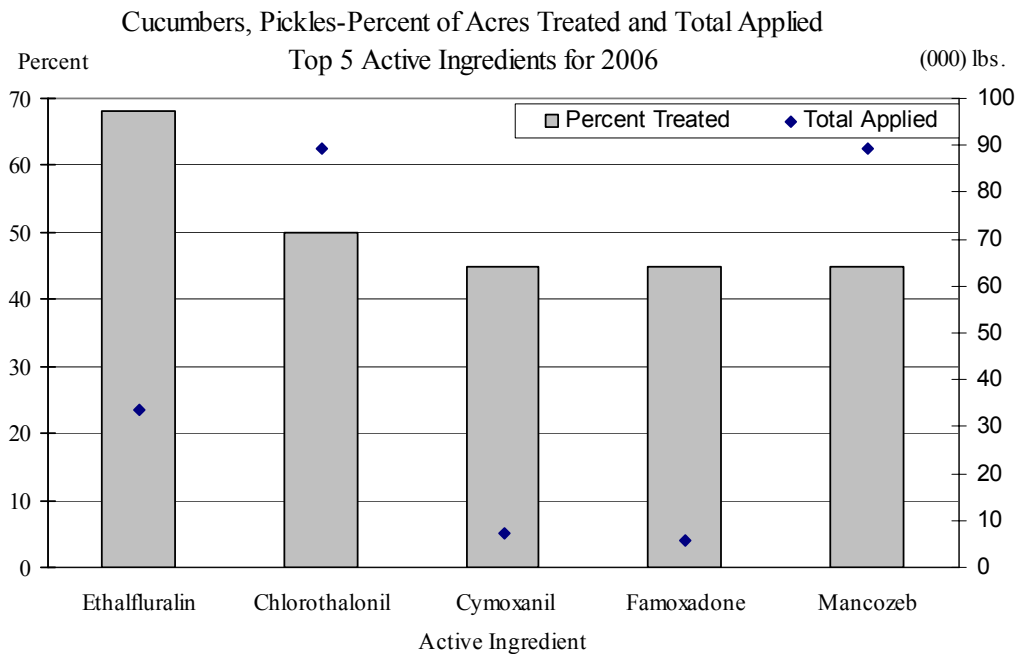
**Cucumbers, Pickles: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
FL	6,700	(²)		(²)		(²)			
MI	34,000	87	23.2	22	1.5	89	183.0		
NC	11,100	96	10.1	32	0.1	81	18.8	(²)	
OH	3,100	82	1.7	52	2.6	99	20.4		
SC	3,500	(²)		(²)		(²)			
TX	8,200	89	5.4	64	1.2	10	0.9		
WI	4,800	91	3.9	(²)					
Total	71,400	83	48.4	34	6.9	68	240.1	(²)	

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.



**Cucumbers, Pickles: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	36	1.1	0.138	0.147	3.7
Ethalfluralin	68	1.0	0.646	0.672	33.6
Glyphosate iso. salt	8	1.0	0.741	0.755	4.4
Halosulfuron	32	1.0	0.033	0.033	0.8
Naptalam	3	1.0	1.231	1.240	2.5
Sethoxydim	7	1.0	0.494	0.494	2.5
Insecticides					
Carbaryl	2	1.8	0.757	1.362	1.9
Carbofuran	2	1.1	0.899	0.966	1.3
Endosulfan	1	1.0	0.480	0.492	0.3
Esfenvalerate	14	1.1	0.032	0.036	0.4
Methomyl	3	1.2	0.375	0.454	1.1
Permethrin	2	2.4	0.139	0.333	0.5
Fungicides					
Azoxystrobin	3	1.1	0.402	0.428	1.1
Chlorothalonil	50	2.1	1.134	2.376	89.3
Copper hydroxide	8	1.3	0.525	0.694	3.7
Cymoxanil	45	1.9	0.116	0.223	7.1
Famoxadone	45	1.6	0.109	0.175	5.6
Mancozeb	45	2.0	1.379	2.750	89.2
Maneb	1	1.5	1.399	2.061	0.8
Propamocarb hydroch.	41	2.1	0.677	1.403	40.9
Pyraclostrobin	8	1.1	0.033	0.036	0.2
Triflumizole	7	1.5	0.123	0.180	0.9

¹ Planted acreage in 2006 for the 4 Program States was 71,400 acres.
States included are MI, NC, OH, and WI.

**Cucumbers, Pickles: Agricultural Chemical Applications,
Michigan, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	61	1.1	0.119	0.128	2.7
Ethalfluralin	78	1.1	0.558	0.591	15.7
Halosulfuron	38	1.0	0.034	0.034	0.4
Sethoxydim	5	1.0	0.653	0.653	1.0
Insecticides					
Esfenvalerate	18	1.1	0.037	0.040	0.2
Fungicides					
Chlorothalonil	71	2.1	1.086	2.286	54.9
Copper hydroxide	3	2.6	0.589	1.536	1.4
Cymoxanil	67	1.8	0.106	0.188	4.3
Famoxadone	67	1.8	0.106	0.188	4.3
Mancozeb	65	2.3	1.540	3.529	78.6
Propamocarb hydroch.	78	2.0	0.720	1.464	39.0

¹ Planted acreage in 2006 for Michigan was 34,000 acres.

**Cucumbers, Pickles: Agricultural Chemical Applications,
North Carolina, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Ethalfluralin	90	1.0	0.761	0.761	7.6
Halosulfuron	62	1.0	0.035	0.035	0.2
Sethoxydim	19	1.0	0.397	0.397	0.8
Insecticides					
Esfenvalerate	28	1.1	0.025	0.029	0.1
Fungicides					
Chlorothalonil	64	1.5	1.173	1.804	12.7
Cymoxanil	64	2.4	0.133	0.320	2.3
Famoxadone	64	1.0	0.109	0.109	0.8

¹ Planted acreage in 2006 for North Carolina was 11,100 acres.

**Cucumbers, Pickles: Agricultural Chemical Applications,
Ohio, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	82	1.0	0.245	0.245	0.6
Insecticides					
Carbaryl	29	2.2	0.819	1.802	1.6
Endosulfan	19	1.0	0.479	0.479	0.3
Permethrin	6	3.0	0.149	0.444	0.1
Fungicides					
Chlorothalonil	95	3.3	1.277	4.167	12.3
Mancozeb	52	2.1	1.364	2.880	4.7
Propamocarb hydroch.	70	2.6	0.249	0.647	1.4

¹ Planted acreage in 2006 for Ohio was 3,100 acres.

**Cucumbers, Pickles: Agricultural Chemical Applications,
Texas, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Ethalfluralin	84	1.0	0.679	0.690	4.7
Insecticides					
Carbaryl	*	2.6	1.079	2.784	(²)
Esfenvalerate	*	3.0	0.028	0.083	(²)

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Texas was 8,200 acres.

² Total applied is less than 50 lbs.

**Cucumbers, Pickles: Agricultural Chemical Applications,
Wisconsin, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Ethalfluralin	72	1.0	0.948	0.948	3.3

¹ Planted acreage in 2006 for Wisconsin was 4,800 acres.

Eggplant: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
NJ	800	99	125.5	91	82.3	99	142.0	(¹)	
Total	800	99	125.5	91	82.3	99	142.0	(¹)	

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

Eggplant: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
New Jersey	800					
Nitrogen		99	6.6	24	158	125.5
Phosphate		91	6.3	18	114	82.3
Potash		99	6.6	27	179	142.0
Sulfur ¹						
Program States	800					
Nitrogen		99	6.6	24	158	125.5
Phosphate		91	6.3	18	114	82.3
Potash		99	6.6	27	179	142.0
Sulfur ¹						

¹ Insufficient reports to publish fertilizer data.

**Eggplant: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States	
	ALL	NJ
Herbicides		
DCPA	*	*
Metribuzin	*	*
Napropamide	P	P
Paraquat	*	*
S-Metolachlor	*	*
Trifluralin	*	*
Insecticides		
Acetamiprid	*	*
Bifenthrin	*	*
Carbaryl	P	P
Diazinon	*	*
Dicofol	*	*
Endosulfan	P	P
Esfenvalerate	*	*
Imidacloprid	P	P
Indoxacarb	*	*
Lambda-cyhalothrin	P	P
Methomyl	P	P
Oxamyl	P	P
Permethrin	P	P
Petroleum distillate	*	*
Spinosad	P	P
Spiromesifen	*	*
Thiamethoxam	*	*
Fungicides		
Azoxystrobin	*	*
Basic copper sulfate	*	*
Boscalid	*	*
Chlorothalonil	P	P
Copper hydroxide	P	P
Copper oxychloride	*	*
Copper resinate	*	*
Copper sulfate	*	*
Dimethomorph	*	*
Mancozeb	*	*
Maneb	P	P
Mefenoxam	*	*
Pyraclostrobin	*	*
Trifloxystrobin	*	*
Other Chemicals		
Hydrogen peroxide	*	*
Metam-sodium	*	*

P Usage data are published for this active ingredient.

*Usage data are not published for this active ingredient.

**Eggplant: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide		Fungicide		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
NJ	800	28	0.5	85	1.3	62	1.6	(¹)	
Total	800	28	0.5	85	1.3	62	1.6	(¹)	

¹ Insufficient reports to publish data for pesticide class.

**Eggplant: Agricultural Chemical Applications,
New Jersey, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Napropamide	28	1.4	1.476	2.100	0.5
Insecticides					
Carbaryl	17	4.8	0.496	2.362	0.3
Endosulfan	11	2.8	0.816	2.313	0.2
Imidacloprid	37	1.3	0.155	0.209	0.1
Lambda-cyhalothrin	13	3.1	0.021	0.066	(²)
Methomyl	4	1.1	0.352	0.403	(²)
Oxamyl	24	4.8	0.375	1.801	0.4
Permethrin	6	1.7	0.043	0.074	(²)
Spinosad	47	2.2	0.091	0.200	0.1
Fungicides					
Chlorothalonil	2	3.0	1.589	4.775	0.1
Copper hydroxide	38	2.7	0.546	1.458	0.4
Maneb	29	3.3	1.009	3.332	0.8

¹ Planted acreage in 2006 for New Jersey was 800 acres.

² Total applied is less than 50 lbs.

Garlic: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	24,700	98	4,965.9	88	3,233.3	35	559.0	(¹)	
US	24,700	98	4,965.9	88	3,233.3	35	559.0	(¹)	

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Garlic: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	24,700					
Nitrogen		98	3.5	58	206	4,965.9
Phosphate		88	1.3	117	150	3,233.3
Potash		35	1.0	64	64	559.0
Sulfur ¹						
Program States	24,700					
Nitrogen		98	3.5	58	206	4,965.9
Phosphate		88	1.3	117	150	3,233.3
Potash		35	1.0	64	64	559.0
Sulfur ¹						

¹ Insufficient reports to publish fertilizer data.

**Garlic: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States	
	ALL	CA
Herbicides		
Bromoxynil	*	*
Bromoxynil heptan.	P	P
Bromoxynil octanoate	P	P
Clethodim	P	P
Fluazifop-P-butyl	*	*
Glyphosate	*	*
Glyphosate iso. salt	*	*
Oxyfluorfen	P	P
Pendimethalin	P	P
Sethoxydim	*	*
Insecticides		
Cypermethrin	*	*
Lambda-cyhalothrin	*	*
Malathion	*	*
Methomyl	*	*
Neem oil, clar. hyd.	*	*
Zeta-cypermethrin	P	P
Fungicides		
Azoxystrobin	P	P
Bacillus pumilus	*	*
Boscalid	*	*
Chlorothalonil	P	P
Copper hydroxide	*	*
Iprodione	*	*
Pyraclostrobin	*	*
Tebuconazole	P	P

P Usage data are published for this active ingredient.

*Usage data are not published for this active ingredient.

**Garlic: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	24,700	49	15.4	31	3.7	55	12.9		
Total	24,700	49	15.4	31	3.7	55	12.9		

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

**Garlic: Agricultural Chemical Applications,
California, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bromoxynil heptan.	16	1.0	0.255	0.255	1.0
Bromoxynil octanoate	16	1.0	0.255	0.255	1.0
Clethodim	6	1.1	0.122	0.129	0.2
Oxyfluorfen	39	1.2	0.245	0.302	2.9
Pendimethalin	22	1.1	0.976	1.118	6.2
Insecticides					
Zeta-cypermethrin	28	2.0	0.050	0.100	0.7
Fungicides					
Azoxystrobin	43	1.5	0.196	0.289	3.0
Chlorothalonil	13	1.0	1.576	1.581	5.1
Tebuconazole	48	1.5	0.225	0.347	4.1

¹ Planted acreage in 2006 for California was 24,700 acres.

Honeydews: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	5,100	100	684.3	100	100.6	(¹)		(¹)	
CA	17,100	91	907.4	77	767.5	63	789.0	(¹)	
US	22,200	93	1,591.6	82	868.0	(¹)		(¹)	

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

Honeydews: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Arizona	5,100					
Nitrogen		100	7.1	19	134	684.3
Phosphate		100	2.7	7	20	100.6
Potash ¹						
Sulfur ¹						
California	17,100					
Nitrogen		91	1.2	49	58	907.4
Phosphate		77	1.2	50	58	767.5
Potash		63	1.2	61	73	789.0
Sulfur ¹						
Program States	22,200					
Nitrogen		93	3.7	24	91	1,591.6
Phosphate		82	1.9	22	40	868.0
Potash ¹						
Sulfur ¹						

¹ Insufficient reports to publish fertilizer data.

**Honeydews: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States		
	ALL	AZ	CA
Herbicides			
Bensulide	*	*	P
Clethodim	*		*
Ethalfuralin	*		*
Glyphosate iso. salt	*		*
Halosulfuron	*		*
Oxyfluorfen	*		*
Paraquat	*		*
Sethoxydim	*		*
Trifluralin	P	*	*
Insecticides			
Abamectin	*	*	P
Benzoic acid	P		P
Bifenazate	*		*
Bifenthrin	*	*	P
Bt subsp. kurstaki	*	*	*
Buprofezin	*	*	*
Carbaryl	*		*
Cyromazine	*		*
Diazinon	*		*
Dicofol	*		*
Dimethoate	*		*
Dinotefuran	*		*
Endosulfan	P	*	*
Esfenvalerate	*	*	*
Fenpropathrin	*		*
Imidacloprid	P	*	*
Kaolin	*		*
Methomyl	*		*
Neem oil, clar. hyd.	*		*
Oxamyl	*	*	*
Permethrin	*	*	*
Petroleum distillate	*		*
Pyrethrins	*		*
Spinosad	*		*
Spiromesifen	*		*
Fungicides			
Azoxystrobin	*		*
Boscalid	*		*
Chlorothalonil	*	*	
Fenamidone	*		*
Folpet	*	*	

See footnote(s) at end of table.

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**Honeydews: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States		
	ALL	AZ	CA
Fungicides (continued)			
Mefenoxam	*		*
Myclobutanil	*	*	*
Pyraclostrobin	*		*
Sulfur	P	*	*
Thiophanate-methyl	*		*
Trifloxystrobin	*	*	*
Triflumizole	P	*	*
Other Chemicals			
Dichloropropene	*	*	
Metam-sodium	*	*	

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

**Honeydews: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	5,100	(²)		(²)		(²)		(²)	
CA	17,100	80	17.2	90	42.4	87	32.9		
Total	22,200	(²)		(²)		(²)		(²)	

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.

**Honeydews: Agricultural Chemical Applications,
Program States, 2006 ¹**

Active Ingredient	Area Applied	Applica-tions	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Trifluralin	31	1.0	0.623	0.648	4.5
Insecticides					
Benzoic acid	29	1.0	0.093	0.095	0.6
Endosulfan	14	1.1	0.890	0.986	3.1
Imidacloprid	49	1.2	0.273	0.339	3.7
Fungicides					
Sulfur	40	2.1	1.682	3.459	30.6
Triflumizole	27	1.0	0.140	0.143	0.9

¹ Planted acreage in 2006 for the 2 Program States was 22,200 acres.

States included are AZ and CA.

**Honeydews: Agricultural Chemical Applications,
California, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	36	1.0	0.879	0.886	5.5
Insecticides					
Abamectin	31	1.0	0.014	0.014	0.1
Benzoic acid	38	1.0	0.093	0.095	0.6
Bifenthrin	78	3.0	0.086	0.260	3.5

¹ Planted acreage in 2006 for California was 17,100 acres.

**Head Lettuce: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied**

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	48,000	100	14,303.8	99	13,754.0			14	298.2
CA	126,000	97	24,313.2	80	11,884.2	50	2,960.7	39	1,160.7
Total	174,000	98	38,617.0	85	25,638.2	36	2,960.7	32	1,458.9

**Head Lettuce: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Arizona	48,000					
Nitrogen		100	5.1	59	298	14,303.8
Phosphate		99	1.3	231	290	13,754.0
Sulfur		14	1.0	44	44	298.2
California	126,000					
Nitrogen		97	2.0	99	200	24,313.2
Phosphate		80	1.1	108	118	11,884.2
Potash		50	1.4	35	47	2,960.7
Sulfur		39	1.2	20	23	1,160.7
Program States	174,000					
Nitrogen		98	3.8	68	258	38,617.0
Phosphate		85	1.2	190	227	25,638.2
Potash		36	1.4	35	47	2,960.7
Sulfur		32	1.1	27	30	1,458.9

**Head Lettuce: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States		
	ALL	AZ	CA
Herbicides			
Benefin	P	P	P
Bensulide	P	P	P
Dithiopyr	*		*
Diuron	*	*	
Glyphosate iso. salt	*	*	P
Hexazinone	*	*	
Paraquat	P	*	*
Pronamide	P	P	P
Sethoxydim	P	*	*
Insecticides			
Abamectin	P		P
Acephate	P	P	P
Acetamiprid	P	P	P
Azadirachtin	P	*	*
Benzoic acid	P	P	P
Bifenthrin	P	*	*
Bt subsp. aizawai	P	*	*
Bt subsp. kurstaki	*	*	P
Carbaryl	*	*	*
Chlorpyrifos	*		*
Cryolite	*		*
Cyfluthrin	P	P	P
Cypermethrin	P	P	P
Cyromazine	P		P
Diazinon	P	P	P
Dimethoate	P	P	P
Dinotefuran	P		P
Disulfoton	*		*
Emamectin benzoate	P	P	P
Endosulfan	P	P	P
Esfenvalerate	P	P	P
Gamma-cyhalothrin	P		P
Imidacloprid	P	P	P
Indoxacarb	P	P	P
Lambda-cyhalothrin	P	P	P
Malathion	*	*	P
Methomyl	P	P	P
Myrothecium verruc.	*		*
Neem oil, clar. hyd.	P		P
Oxydemeton-methyl	P		P
Permethrin	P	P	P
Piperonyl butoxide	*	*	*

See footnote(s) at end of table.

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**Head Lettuce: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States		
	ALL	AZ	CA
Insecticides (continued)			
Pymetrozine	*	*	P
Pyrethrins	*	*	P
Rotenone	*		*
Spinosad	P	P	P
Spiromesifen	*	*	
Tebufenozide	*	*	P
Thiodicarb	P		P
Zeta-cypermethrin	P	P	P
Fungicides			
Azoxystrobin	P		P
Bacillus pumilus	P		P
Bacillus subtilis	P		P
Bacillus subtilis	*	*	*
Borax decahydrate	*		*
Boscalid	P	P	P
Chlorothalonil	*	*	*
Coniothyrium minitana	*	*	
Copper hydroxide	*		*
Copper oxide	*		*
Cymoxanil	P		P
Dicloran	P		P
Dimethomorph	P	P	P
Famoxadone	P		P
Fenamidone	P	P	P
Fosetyl-al	*	*	P
Iprodione	P	P	P
Maneb	P	P	P
Mefenoxam	P		P
Mono-potassium salt	P		P
Phosphorous acid	P	P	P
Potassium bicarbon.	*		*
Pyraclostrobin	P	P	P
Sulfur	P	P	P
Vinclozolin	*	*	
Other Chemicals			
Acibenzolar-S-Methyl	*		*
Chloropicrin	*		*
Dichloropropene	*		*
Metam-sodium	*		*
Methyl bromide	*		*

P Usage data are published for this active ingredient.

*Usage data are not published for this active ingredient.

**Head Lettuce: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	48,000	70	128.6	100	97.8	82	82.7		
CA	126,000	60	161.7	98	336.3	89	481.3	1	156.4
Total	174,000	63	290.3	98	434.1	87	564.0	1	156.4

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

**Head Lettuce: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Benefin	13	1.0	1.038	1.079	25.1
Bensulide	24	1.0	4.284	4.353	182.2
Paraquat	*	1.1	0.851	0.899	0.6
Pronamide	55	1.1	0.641	0.676	64.9
Sethoxydim	2	1.0	0.278	0.289	1.0
Insecticides					
Abamectin	18	1.0	0.007	0.007	0.2
Acephate	41	1.1	0.841	0.934	66.8
Acetamiprid	18	1.0	0.061	0.064	2.0
Azadirachtin	*	1.1	0.012	0.013	(²)
Benzoic acid	46	1.1	0.153	0.171	13.9
Bifenthrin	5	1.0	0.072	0.075	0.6
Bt subsp. aizawai ³	*	1.1			
Cyfluthrin	11	1.2	0.040	0.047	0.9
Cypermethrin	5	1.0	0.093	0.094	0.7
Cyromazine	7	1.0	0.121	0.126	1.5
Diazinon	60	1.6	0.639	1.033	107.3
Dimethoate	22	1.1	0.199	0.217	8.5
Dinotefuran	*	1.0	0.129	0.135	(²)
Emamectin benzoate	20	1.2	0.010	0.013	0.4
Endosulfan	19	1.1	0.881	0.958	32.5
Esfenvalerate	10	1.1	0.042	0.044	0.8
Gamma-cyhalothrin	1	1.0	0.014	0.015	(²)
Imidacloprid	64	1.1	0.198	0.209	23.3
Indoxacarb	13	1.1	0.081	0.088	2.0
Lambda-cyhalothrin	34	1.4	0.028	0.039	2.3
Methomyl	43	1.4	0.583	0.845	62.6
Neem oil, clar. hyd.	2	1.0	0.291	0.291	0.8
Oxydemeton-methyl	25	1.1	0.497	0.549	23.9
Permethrin	50	1.2	0.147	0.180	15.6
Spinosad	71	1.6	0.077	0.121	15.0
Thiodicarb	1	1.3	0.596	0.758	0.7
Zeta-cypermethrin	74	1.6	0.046	0.075	9.7
Fungicides					
Azoxystrobin	1	1.1	0.227	0.239	0.6
Bacillus pumilus ³	4	1.0			
Bacillus subtilis ³	*	1.0			
Boscalid	21	1.0	0.360	0.373	13.4
Cymoxanil	10	1.1	0.122	0.129	2.1
Dicloran	4	1.0	1.623	1.627	10.4
Dimethomorph	34	1.3	0.197	0.259	15.2

See footnote(s) at end of table.

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**Head Lettuce: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Famoxadone	10	1.1	0.122	0.129	2.1
Fenamidone	3	1.1	0.205	0.216	1.2
Iprodione	29	1.1	0.961	1.024	50.9
Maneb	75	1.6	1.356	2.167	280.6
Mefenoxam	8	1.1	0.123	0.129	1.8
Mono-potassium salt	4	1.0	1.649	1.671	11.0
Phosphorous acid	10	1.0	1.596	1.647	27.2
Pyraclostrobin	10	1.1	0.170	0.186	3.3
Sulfur	12	1.2	1.522	1.756	35.4

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 2 Program States was 174,000 acres.

States included are AZ and CA.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Head Lettuce: Agricultural Chemical Applications,
Arizona, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Benefin	27	1.0	1.205	1.222	16.1
Bensulide	35	1.0	5.354	5.381	91.6
Pronamide	61	1.0	0.649	0.668	19.6
Insecticides					
Acephate	31	1.0	0.824	0.837	12.4
Acetamiprid	13	1.1	0.067	0.071	0.4
Benzoic acid	70	1.2	0.192	0.224	7.5
Cyfluthrin	24	1.1	0.041	0.043	0.5
Cypermethrin	15	1.0	0.092	0.093	0.7
Diazinon	38	1.0	0.590	0.592	10.8
Dimethoate	11	1.1	0.240	0.260	1.4
Emamectin benzoate	13	1.0	0.011	0.012	0.1
Endosulfan	42	1.0	0.954	0.964	19.5
Esfenvalerate	5	1.1	0.044	0.046	0.1
Imidacloprid	81	1.0	0.268	0.273	10.6
Indoxacarb	14	1.1	0.072	0.076	0.5
Lambda-cyhalothrin	11	1.2	0.028	0.033	0.2
Methomyl	53	1.1	0.672	0.740	18.9
Permethrin	42	1.0	0.185	0.187	3.8
Spinosad	95	1.5	0.078	0.117	5.4
Zeta-cypermethrin	97	1.8	0.046	0.083	3.9
Fungicides					
Boscalid	8	1.3	0.434	0.558	2.2
Dimethomorph	5	1.0	0.194	0.198	0.5
Fenamidone	3	1.0	0.217	0.223	0.3
Iprodione	67	1.1	0.993	1.083	34.7
Maneb	59	1.0	1.227	1.254	35.7
Phosphorous acid	2	1.1	1.225	1.315	1.3
Pyraclostrobin	2	1.0	0.151	0.158	0.2
Sulfur	5	1.3	1.674	2.143	4.9

¹ Planted acreage in 2006 for Arizona was 48,000 acres.

**Head Lettuce: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Appli-cations	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Benefin	8	1.1	0.839	0.900	9.0
Bensulide	20	1.0	3.587	3.670	90.6
Glyphosate iso. salt	5	1.0	2.819	2.819	16.4
Pronamide	53	1.1	0.638	0.680	45.3
Insecticides					
Abamectin	25	1.0	0.007	0.007	0.2
Acephate	45	1.1	0.845	0.958	54.4
Acetamiprid	20	1.0	0.060	0.062	1.6
Benzoic acid	38	1.1	0.125	0.136	6.4
Bt subsp. kurstaki ²	1	1.7			
Cyfluthrin	6	1.3	0.039	0.051	0.4
Cypermethrin	1	1.0	0.098	0.099	0.1
Cyromazine	9	1.0	0.121	0.126	1.5
Diazinon	68	1.7	0.645	1.124	96.5
Dimethoate	27	1.1	0.192	0.211	7.1
Dinotefuran	*	1.0	0.129	0.135	(³)
Emamectin benzoate	23	1.2	0.010	0.013	0.4
Endosulfan	11	1.2	0.792	0.949	13.0
Esfenvalerate	12	1.1	0.042	0.044	0.7
Gamma-cyhalothrin	1	1.0	0.014	0.015	(³)
Imidacloprid	57	1.1	0.163	0.176	12.7
Indoxacarb	13	1.1	0.085	0.093	1.5
Lambda-cyhalothrin	43	1.4	0.028	0.039	2.1
Malathion	11	1.4	1.724	2.496	35.8
Methomyl	39	1.6	0.553	0.898	43.8
Neem oil, clar. hyd.	2	1.0	0.291	0.291	0.8
Oxydemeton-methyl	35	1.1	0.497	0.549	23.9
Permethrin	53	1.3	0.138	0.178	11.8
Pymetrozine	3	1.0	0.084	0.086	0.3
Pyrethrins	1	1.0	0.026	0.027	(³)
Spinosad	62	1.6	0.076	0.122	9.6
Tebufenozide	3	1.1	0.116	0.130	0.5
Thiodicarb	1	1.3	0.596	0.758	0.7
Zeta-cypermethrin	65	1.6	0.045	0.071	5.8
Fungicides					
Azoxystrobin	2	1.1	0.227	0.239	0.6
Bacillus pumilus ²	5	1.0			
Bacillus subtilis ²	1	1.0			
Boscalid	25	1.0	0.349	0.351	11.1
Cymoxanil	13	1.1	0.122	0.129	2.1
Dicloran	5	1.0	1.623	1.627	10.4

See footnote(s) at end of table.

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**Head Lettuce: Agricultural Chemical Applications,
California, 2006¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Dimethomorph	45	1.3	0.198	0.262	14.7
Famoxadone	13	1.1	0.122	0.129	2.1
Fenamidone	3	1.1	0.202	0.214	0.8
Fosetyl-al	28	1.1	2.643	2.966	105.6
Iprodione	14	1.0	0.900	0.920	16.2
Maneb	81	1.8	1.376	2.414	244.9
Mefenoxam	11	1.1	0.123	0.129	1.8
Mono-potassium salt	5	1.0	1.649	1.671	11.0
Phosphorous acid	12	1.0	1.621	1.668	25.9
Pyraclostrobin	13	1.1	0.171	0.187	3.2
Sulfur	14	1.1	1.501	1.708	30.5

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for California was 126,000 acres.

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

³ Total applied is less than 50 lbs.

**Other Lettuce: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied**

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	27,300	100	6,857.0	100	7,897.4	(¹)		(¹)	
CA	106,100	92	21,531.1	78	6,424.1	50	3,108.8	35	894.7
Total	133,400	94	28,388.2	82	14,321.5	(¹)		(¹)	

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Other Lettuce: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Arizona	27,300					
Nitrogen		100	5.2	48	252	6,857.0
Phosphate		100	1.6	176	290	7,897.4
Potash ¹						
Sulfur ¹						
California	106,100					
Nitrogen		92	2.9	75	220	21,531.1
Phosphate		78	2.1	38	78	6,424.1
Potash		50	2.8	21	59	3,108.8
Sulfur		35	1.6	15	24	894.7
Program States	133,400					
Nitrogen		94	4.3	55	239	28,388.2
Phosphate		82	1.8	120	215	14,321.5
Potash ¹						
Sulfur ¹						

¹ Insufficient reports to publish fertilizer data.

**Other Lettuce: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States		
	ALL	AZ	CA
Herbicides			
Benefin	P	*	*
Bensulide	P	P	P
Clethodim	P	*	*
Dithiopyr	*		*
Glyphosate iso. salt	P		P
Paraquat	*		*
Pronamide	P	P	P
S-Metolachlor	*	*	
Sethoxydim	P	*	*
Insecticides			
Abamectin	P		P
Acephate	*		*
Acetamiprid	P	P	P
Azadirachtin	*	*	P
Benzoic acid	P	P	P
Beta-cyfluthrin	*		*
Bifenthrin	*	*	
Bt subsp. aizawai	*	*	P
Bt subsp. kurstaki	*	*	P
Carbaryl	*	*	
Chlorpyrifos	P	*	*
Cyfluthrin	P	P	P
Cyromazine	P		P
Diazinon	P	P	P
Dimethoate	P	P	P
Dinotefuran	P		P
Disulfoton	*		*
Emamectin benzoate	P	P	P
Endosulfan	P	*	*
Gamma-cyhalothrin	P		P
Imidacloprid	P	P	P
Indoxacarb	P	P	P
Lambda-cyhalothrin	P	P	P
Malathion	*	*	P
Methomyl	P	P	P
Myrothecium verruc.	*		*
Neem oil, clar. hyd.	P		P
Oxydemeton-methyl	*		*
Permethrin	P	P	P
Piperonyl butoxide	P	*	*
Potassium salts	*		*
Pymetrozine	P	P	P

See footnote(s) at end of table.

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**Other Lettuce: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States		
	ALL	AZ	CA
Insecticides (continued)			
Pyrethrins	*	*	P
Rotenone	P		P
Spinosad	P	P	P
Spiromesifen	*		*
Tebufenozide	*	*	P
Thiodicarb	*		*
Zeta-cypermethrin	P	P	P
Fungicides			
Azoxystrobin	P		P
Bacillus pumilus	*	*	P
Bacillus subtilis	P		P
Bacillus subtilis	P	*	*
Borax decahydrate	*		*
Boscalid	P	P	P
Chlorothalonil	*	*	
Coniothyrium minitan	*	*	
Copper hydroxide	*	*	*
Copper oxide	*	*	
Dicloran	P		P
Dimethomorph	P	P	P
Fenamidone	P	P	P
Fosetyl-al	*	*	P
Iprodione	P	P	P
Mancozeb	*		*
Maneb	P	P	P
Mefenoxam	P		P
Mono-potassium salt	P		P
Phosphorous acid	P	P	P
Potassium bicarbon.	*		*
Pyraclostrobin	P	P	P
Sulfur	P	P	P
Vinclozolin	*	*	
Other Chemicals			
Acibenzolar-S-Methyl	P		P
Chloropicrin	*		*
Dichloropropene	*		*
Hydrogen peroxide	*		*
Metam-sodium	*	*	
Methyl bromide	*		*

P Usage data are published for this active ingredient.

*Usage data are not published for this active ingredient.

**Other Lettuce: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	27,300	68	51.5	93	32.7	56	32.9	(²)	
CA	106,100	60	172.5	94	193.2	79	358.8	16	57.4
Total	133,400	62	224.0	93	225.9	74	391.7	(²)	

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.

**Other Lettuce: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Benfen	5	1.0	1.199	1.235	8.7
Bensulide	28	1.0	3.703	3.782	143.4
Clethodim	*	1.2	0.118	0.136	(²)
Glyphosate iso. salt	2	1.0	0.800	0.805	1.7
Pronamide	55	1.0	0.908	0.939	69.4
Sethoxydim	1	1.1	0.268	0.288	0.4
Insecticides					
Abamectin	6	1.1	0.007	0.008	0.1
Acetamiprid	30	1.1	0.064	0.070	2.8
Benzoic acid	21	1.0	0.134	0.137	3.8
Chlorpyrifos	*	1.0	1.124	1.130	0.1
Cyfluthrin	9	1.3	0.041	0.053	0.7
Cyromazine	8	1.1	0.124	0.131	1.4
Diazinon	52	1.7	0.669	1.133	78.8
Dimethoate	15	1.0	0.233	0.243	4.8
Dinotefuran	*	1.0	0.131	0.132	0.1
Emamectin benzoate	4	1.2	0.009	0.010	(²)
Endosulfan	5	1.1	0.940	1.036	6.7
Gamma-cyhalothrin	4	1.0	0.015	0.015	0.1
Imidacloprid	62	1.3	0.113	0.146	12.0
Indoxacarb	4	1.1	0.076	0.082	0.5
Lambda-cyhalothrin	36	1.3	0.028	0.037	1.8
Methomyl	40	1.2	0.643	0.746	39.8
Neem oil, clar. hyd.	14	1.2	1.332	1.665	31.1
Permethrin	43	1.2	0.144	0.176	10.1
Piperonyl butoxide	1	1.0	0.261	0.261	0.3
Pymetrozine	12	1.0	0.085	0.086	1.3
Rotenone	1	1.0	0.008	0.008	(²)
Spinosad	56	1.4	0.079	0.113	8.5
Zeta-cypermethrin	66	1.5	0.045	0.068	6.0
Fungicides					
Azoxystrobin	3	1.1	0.233	0.250	1.0
Bacillus subtilis ³	1	1.0			
Bacillus subtilis ³	1	1.0			
Boscalid	19	1.0	0.400	0.406	10.1
Dicloran	3	1.1	1.272	1.377	5.9
Dimethomorph	39	1.1	0.195	0.215	11.1
Fenamidone	2	1.0	0.226	0.233	0.7
Iprodione	13	1.1	0.991	1.087	19.1
Maneb	66	1.5	1.425	2.106	185.1
Mefenoxam	16	1.0	0.148	0.155	3.4

See footnote(s) at end of table.

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**Other Lettuce: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Mono-potassium salt	3	1.0	1.449	1.456	6.2
Phosphorous acid	11	1.0	1.727	1.755	24.6
Pyraclostrobin	16	1.0	0.176	0.179	3.8
Sulfur	2	1.4	2.133	3.041	9.9
Other Chemicals					
Acibenzolar-S-Methyl	12	1.3	0.031	0.041	0.7

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 2 Program States was 133,400 acres.
States included are AZ and CA.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Other Lettuce: Agricultural Chemical Applications,
Arizona, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	24	1.0	4.954	5.134	33.3
Pronamide	56	1.1	0.659	0.720	11.1
Insecticides					
Acetamiprid	24	1.0	0.065	0.067	0.4
Benzoic acid	28	1.0	0.155	0.158	1.2
Cyfluthrin	32	1.3	0.041	0.053	0.5
Diazinon	22	1.1	0.514	0.586	3.5
Dimethoate	4	1.0	0.236	0.240	0.2
Emamectin benzoate	4	1.0	0.011	0.011	(²)
Imidacloprid	60	1.1	0.201	0.211	3.4
Indoxacarb	8	1.1	0.077	0.082	0.2
Lambda-cyhalothrin	14	1.1	0.027	0.028	0.1
Methomyl	56	1.1	0.633	0.713	10.9
Permethrin	33	1.0	0.175	0.181	1.6
Pymetrozine	1	1.1	0.084	0.093	(²)
Spinosad	78	1.6	0.077	0.120	2.6
Zeta-cypermethrin	82	1.6	0.047	0.077	1.7
Fungicides					
Boscalid	3	1.0	0.445	0.459	0.3
Dimethomorph	6	1.0	0.192	0.201	0.3
Fenamidone	4	1.0	0.199	0.204	0.2
Iprodione	32	1.2	0.996	1.149	10.0
Maneb	41	1.0	1.305	1.334	14.9
Phosphorous acid	4	1.0	1.117	1.167	1.3
Pyraclostrobin	9	1.0	0.133	0.138	0.3
Sulfur	9	1.0	2.026	2.071	5.1

¹ Planted acreage in 2006 for Arizona was 27,300 acres.

² Total applied is less than 50 lbs.

**Other Lettuce: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	30	1.0	3.433	3.496	110.1
Glyphosate iso. salt	2	1.0	0.800	0.805	1.7
Pronamide	55	1.0	0.980	0.998	58.4
Insecticides					
Abamectin	7	1.1	0.007	0.008	0.1
Acetamiprid	32	1.1	0.063	0.071	2.4
Azadirachtin	1	1.0	0.026	0.026	(²)
Benzoic acid	19	1.0	0.126	0.129	2.6
Bt subsp. aizawai ³	*	4.4			
Bt subsp. kurstaki ³	*	1.9			
Cyfluthrin	4	1.3	0.039	0.051	0.2
Cyromazine	10	1.1	0.124	0.131	1.4
Diazinon	60	1.7	0.679	1.186	75.2
Dimethoate	18	1.0	0.233	0.243	4.6
Dinotefuran	1	1.0	0.131	0.132	0.1
Emamectin benzoate	4	1.2	0.008	0.010	(²)
Gamma-cyhalothrin	4	1.0	0.015	0.015	0.1
Imidacloprid	62	1.3	0.096	0.129	8.5
Indoxacarb	3	1.1	0.074	0.082	0.3
Lambda-cyhalothrin	42	1.4	0.028	0.038	1.7
Malathion	7	1.1	1.595	1.798	13.6
Methomyl	36	1.2	0.647	0.760	28.9
Neem oil, clar. hyd.	18	1.2	1.332	1.665	31.1
Permethrin	46	1.3	0.139	0.175	8.5
Pymetrozine	14	1.0	0.085	0.086	1.3
Pyrethrins	8	1.0	0.014	0.014	0.1
Rotenone	1	1.0	0.008	0.008	(²)
Spinosad	51	1.4	0.079	0.110	5.9
Tebufenozide	3	1.3	0.111	0.143	0.4
Zeta-cypermethrin	61	1.5	0.045	0.065	4.2
Fungicides					
Azoxystrobin	4	1.1	0.233	0.250	1.0
Bacillus pumilus ³	6	1.1			
Bacillus subtilis ³	1	1.0			
Boscalid	23	1.0	0.398	0.404	9.8
Dicloran	4	1.1	1.272	1.377	5.9
Dimethomorph	47	1.1	0.195	0.215	10.7
Fenamidone	2	1.0	0.243	0.252	0.5
Fosetyl-al	36	1.1	2.650	2.876	110.0
Iprodione	8	1.0	0.986	1.024	9.0
Maneb	72	1.5	1.437	2.222	170.2

See footnote(s) at end of table.

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**Other Lettuce: Agricultural Chemical Applications,
California, 2006¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Mefenoxam	20	1.0	0.148	0.155	3.4
Mono-potassium salt	4	1.0	1.449	1.456	6.2
Phosphorous acid	12	1.0	1.784	1.809	23.3
Pyraclostrobin	18	1.0	0.182	0.185	3.5
Sulfur	1	2.8	2.266	6.327	4.8
Other Chemicals					
Acibenzolar-S-Methyl	16	1.3	0.031	0.041	0.7

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for California was 106,100 acres.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Onions: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	51,000	99	9,678.9	64	4,446.9	20	798.1	24	715.6
GA	14,000	100	1,240.0	100	1,617.1	97	2,604.2	(¹)	
NY	14,100	98	1,395.1	98	1,808.5	98	2,407.8	(¹)	
OR	19,800	98	4,782.5	92	2,247.9	75	1,350.7	74	683.3
TX	18,700	92	2,443.6	88	1,849.5	45	257.6	43	185.3
WA	21,500	84	3,322.8	65	1,357.3	67	2,605.3	62	637.3
WI	1,900	99	74.9	98	83.4	98	325.7	(¹)	
Total	141,000	96	22,937.8	79	13,410.5	55	10,349.5	38	2,857.7

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Onions: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	51,000					
Nitrogen		99	2.6	74	193	9,678.9
Phosphate		64	1.2	113	136	4,446.9
Potash		20	1.6	48	77	798.1
Sulfur		24	1.2	47	59	715.6
Georgia	14,000					
Nitrogen		100	2.8	31	89	1,240.0
Phosphate		100	2.1	55	116	1,617.1
Potash		97	2.0	95	192	2,604.2
Sulfur ¹						
New York	14,100					
Nitrogen		98	1.1	91	101	1,395.1
Phosphate		98	1.1	118	131	1,808.5
Potash		98	1.1	158	174	2,407.8
Sulfur ¹						
Oregon	19,800					
Nitrogen		98	2.2	111	246	4,782.5
Phosphate		92	1.3	93	123	2,247.9
Potash		75	1.2	73	91	1,350.7
Sulfur		74	1.4	33	46	683.3
Texas	18,700					
Nitrogen		92	2.3	62	142	2,443.6
Phosphate		88	1.2	91	113	1,849.5
Potash		45	1.2	26	31	257.6
Sulfur		43	1.5	15	23	185.3
Washington	21,500					
Nitrogen		84	3.5	52	184	3,322.8
Phosphate		65	1.5	65	97	1,357.3
Potash		67	1.7	106	180	2,605.3
Sulfur		62	1.5	33	48	637.3
Wisconsin	1,900					
Nitrogen		99	1.5	26	40	74.9
Phosphate		98	1.1	42	45	83.4
Potash		98	1.1	164	175	325.7
Sulfur ¹						

See footnote(s) at end of table.

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**Onions: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006 (continued)**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Program States	141,000					
Nitrogen		96	2.5	68	168	22,937.8
Phosphate		79	1.4	87	120	13,410.5
Potash		55	1.5	92	137	10,349.5
Sulfur		38	1.3	42	56	2,857.7

¹ Insufficient reports to publish fertilizer data.

**Onions: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States							
	ALL	CA	GA	NY	OR	TX	WA	WI
Herbicides								
2,4-D	P				P			
Atrazine	*			*				
Bensulide	P	P				P		
Bromoxynil	P	P		P	P	*	P	*
Bromoxynil heptan.	P	P		P	*	*	P	*
Bromoxynil octanoate	P	P		P	*	*	P	*
Clethodim	P	P		*	P	*	P	*
Clopyralid	*			*				
DCPA	P	P			*	P	*	
Dimethenamid	*			*				
Dimethenamid-P	P			P	P		*	*
Fluazifop-P-butyl	P	P		P	*	*	*	*
Glyphosate iso. salt	P	P		*	P	*	P	
Halosulfuron	*		*					
MCPA, 2-ethylhexyl	*						*	*
Metribuzin	*				*		*	
Napropamide	*			*				
Oxyfluorfen	P	P	P	P	P	P	P	P
Paraquat	*	*				*		
Pendimethalin	P	P	P	P	P	*	P	*
S-Metolachlor	P			*	P	*		
Sethoxydim	P	P			*	*	*	
Simazine	*				*			
Trifluralin	P	*		*		*	*	
Insecticides								
Azadirachtin	P				*		*	
Azinphos-methyl	*			*				
Bifenthrin	*			*				
Bt subsp. aizawai	*	*						
Canola oil	*		*					
Carbaryl	P			*		P		*
Chlorpyrifos	P	P	P	P	P	*	*	
Cyfluthrin	*					*		
Cypermethrin	P	*				*	*	
Cyromazine	*	*		*				
Deltamethrin	*				*			
Diazinon	P	P	*	*	P	P	*	
Dimethoate	*			*			*	
Endosulfan	*		*	*				
Esfenvalerate	P			*		*		*
Ethyl parathion	*				*			
Formetanate hydro.	P			P	P			

See footnote(s) at end of table.

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**Onions: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	GA	NY	OR	TX	WA	WI
Insecticides (continued)								
Gamma-cyhalothrin	*	*			*			
Imidacloprid	*			*		*		
Kaolin	*	*					*	
Lambda-cyhalothrin	P	P	P	P	P	*	P	*
Malathion	P	*			P	*	*	
Methomyl	P	P		P	P	P	*	*
Methyl parathion	P	*		P	P		*	*
Neem oil, clar. hyd.	*	*						
Oxamyl	P	P		P	P	*	*	
Oxydemeton-methyl	P			*	P		*	
Permethrin	P	P		P		*		*
Petroleum distillate	*			*			*	
Piperonyl butoxide	*	*						
Potassium salts	*				*			
Pyrethrins	*	*	*					
Spinosad	P	P		*	P	P	*	*
Thiamethoxam	*					*		
Zeta-cypermethrin	P	P		P	P	*	*	*
Fungicides								
Azoxystrobin	P	P		P		*	*	
Bacillus subtilus	*		*					
Basic copper sulfate	*		*			*		
Borax decahydrate	*	*						
Boscalid	P	*	P	P	P	*	*	
Captan	*						*	
Chlorothalonil	P	P	P	P	P	P	*	*
Copper amm. complex	P				*		*	
Copper hydroxide	P	P	P	*	P	P	P	*
Copper resinate	*	*	*				*	
Copper sulfate	*		*	*			*	
Dicloran	P	*			*		*	
Dimethomorph	P	P						
Fenamidone	P	P						
Fosetyl-al	*	*				*		
Iprodione	P	P	P	P	*	P	*	
Mancozeb	P	P	P	P	P	*	P	*
Maneb	P	P		*		*		
Mefenoxam	P	P	*	P	P	*	P	
Metalaxyl	P			*	P	*		
Phosphorous acid	*					*		
Propiconazole	*			*				
Pyraclostrobin	P	*	P	P	P	*	*	

See footnote(s) at end of table.

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**Onions: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	GA	NY	OR	TX	WA	WI
Fungicides (continued)								
Pyrimethanil	P	*		*				
Sulfur	*				*	*	*	
Thiophanate-methyl	*				*			
Other Chemicals								
Chloropicrin	P	P			*		*	
Dichloropropene	P	*			P		*	
GABA	P	*		*	*		*	
L-Glutamic acid	P	*		*	*		*	
Maleic hydrazide	P	P		*	P		*	
Metam-potassium	*				*		*	
Metam-sodium	P	*		*	P		P	
Methyl bromide	*	*						

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

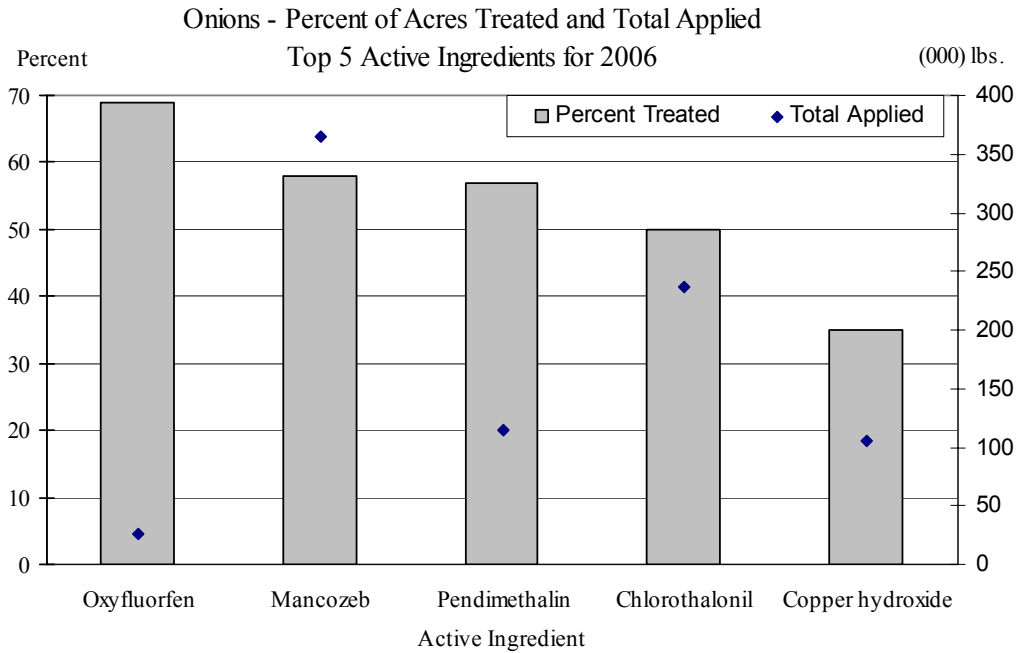
**Onions: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	51,000	68	130.5	61	51.0	67	144.0	9	101.5
GA	14,000	81	22.3	91	17.6	99	168.4		
NY	14,100	97	63.5	99	38.5	99	242.1	24	23.3
OR	19,800	95	48.7	99	82.8	83	75.1	65	1,722.1
TX	18,700	87	81.9	86	72.4	67	64.3		
WA	21,500	68	41.8	71	48.2	(²)		20	934.8
WI	1,900	99	12.0	98	5.9	(²)			
Total	141,000	79	400.7	78	316.3	76	802.2	18	2,781.7

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.



**Onions: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
2,4-D	5	1.0	0.622	0.622	4.0
Bensulide	10	1.6	3.654	5.796	85.5
Bromoxynil	25	1.7	0.171	0.285	10.1
Bromoxynil heptan.	16	1.3	0.121	0.152	3.4
Bromoxynil octanoate	22	1.4	0.195	0.272	8.2
Clethodim	12	1.2	0.132	0.161	2.6
DCPA	8	1.1	5.740	6.370	67.6
Dimethenamid-P	9	2.1	0.696	1.427	18.7
Fluazifop-P-butyl	12	1.2	0.203	0.245	4.3
Glyphosate iso. salt	19	1.1	1.038	1.193	31.9
Oxyfluorfen	69	2.0	0.137	0.269	25.9
Pendimethalin	57	1.6	0.911	1.428	114.6
S-Metolachlor	2	1.1	1.361	1.457	3.4
Sethoxydim	6	1.7	0.239	0.413	3.6
Trifluralin	*	1.0	0.593	0.593	0.4
Insecticides					
Azadirachtin	3	2.0	0.009	0.018	0.1
Carbaryl	*	2.2	1.289	2.862	(²)
Chlorpyrifos	32	1.0	1.367	1.426	63.1
Cypermethrin	3	2.4	0.102	0.249	1.0
Diazinon	16	1.8	1.906	3.416	74.0
Esfenvalerate	*	1.0	0.035	0.035	(²)
Formetanate hydro.	9	1.3	0.942	1.232	16.3
Lambda-cyhalothrin	34	2.3	0.026	0.058	2.7
Malathion	3	1.1	1.300	1.424	6.1
Methomyl	31	2.0	0.656	1.300	57.5
Methyl parathion	11	2.0	0.418	0.830	13.3
Oxamyl	13	3.0	0.476	1.449	25.8
Oxydemeton-methyl	8	1.5	0.502	0.747	8.2
Permethrin	5	1.4	0.154	0.221	1.6
Spinosad	9	1.3	0.099	0.131	1.6
Zeta-cypermethrin	24	2.1	0.042	0.089	3.0
Fungicides					
Azoxystrobin	6	2.5	0.157	0.390	3.2
Boscalid	10	2.1	0.039	0.084	1.1
Chlorothalonil	50	3.2	1.064	3.357	237.4
Copper amm. complex	1	1.1	0.316	0.345	0.4
Copper hydroxide	35	3.0	0.718	2.119	105.5
Dicloran	2	1.0	1.382	1.431	3.6
Dimethomorph	8	1.4	0.191	0.263	2.9
Fenamidone	5	1.7	0.169	0.295	1.9

See footnote(s) at end of table.

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**Onions: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Iprodione	11	2.3	0.552	1.256	18.8
Mancozeb	58	3.5	1.284	4.549	365.4
Maneb	7	2.0	1.549	3.121	31.4
Mefenoxam	29	1.5	0.102	0.150	6.2
Metalaxyl	2	1.4	0.150	0.204	0.4
Pyraclostrobin	9	2.3	0.009	0.020	0.2
Pyrimethanil	1	2.0	0.352	0.695	0.8
Other Chemicals					
Chloropicrin	6	1.0	32.452	32.844	277.2
Dichloropropene	6	1.0	148.198	149.988	1,276.9
GABA	3	2.1	0.071	0.150	0.7
L-Glutamic acid	3	2.1	0.071	0.150	0.7
Maleic hydrazide	10	1.0	1.869	1.920	27.7
Metam-sodium	4	1.0	147.374	147.656	811.5

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 6 Program States was 141,000 acres.

States included are CA, GA, NY, OR, TX, and WI.

² Total applied is less than 50 lbs.

**Onions: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	11	1.1	2.748	3.062	16.7
Bromoxynil	14	1.4	0.249	0.345	2.5
Bromoxynil heptan.	32	1.2	0.082	0.100	1.7
Bromoxynil octanoate	32	1.2	0.082	0.100	1.7
Clethodim	7	1.2	0.138	0.170	0.6
DCPA	17	1.1	6.174	6.898	61.4
Fluazifop-P-butyl	9	1.2	0.233	0.289	1.3
Glyphosate iso. salt	16	1.4	1.798	2.449	19.7
Oxyfluorfen	61	1.8	0.150	0.268	8.3
Pendimethalin	27	1.5	0.736	1.118	15.2
Sethoxydim	7	1.2	0.261	0.321	1.1
Insecticides					
Chlorpyrifos	15	1.2	1.108	1.323	10.1
Diazinon	11	1.4	1.000	1.361	7.3
Lambda-cyhalothrin	13	1.3	0.029	0.037	0.3
Methomyl	15	2.0	0.676	1.337	10.2
Oxamyl	5	1.7	0.605	1.011	2.4
Permethrin	10	1.5	0.183	0.273	1.4
Spinosad	17	1.1	0.099	0.107	0.9
Zeta-cypermethrin	42	2.1	0.049	0.101	2.1
Fungicides					
Azoxystrobin	4	1.0	0.155	0.155	0.3
Chlorothalonil	49	1.6	1.384	2.186	55.0
Copper hydroxide	11	1.6	0.701	1.116	6.3
Dimethomorph	22	1.4	0.191	0.263	2.9
Fenamidone	13	1.7	0.169	0.295	1.9
Iprodione	13	1.2	0.575	0.704	4.8
Mancozeb	36	1.4	1.939	2.777	50.7
Maneb	12	1.6	1.599	2.531	16.0
Mefenoxam	52	1.6	0.088	0.143	3.8
Other Chemicals					
Chloropicrin	1	1.2	46.725	55.082	27.3
Maleic hydrazide	5	1.2	1.948	2.256	5.3

¹ Planted acreage in 2006 for California was 51,000 acres.

**Onions: Agricultural Chemical Applications,
Georgia, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Oxyfluorfen	81	1.0	0.456	0.458	5.2
Pendimethalin	75	1.0	0.893	0.898	9.5
Insecticides					
Chlorpyrifos	66	1.0	1.509	1.519	14.0
Lambda-cyhalothrin	68	1.7	0.018	0.032	0.3
Fungicides					
Boscalid	45	3.0	0.014	0.041	0.3
Chlorothalonil	96	4.7	1.266	5.918	79.4
Copper hydroxide	77	4.4	0.802	3.542	38.3
Iprodione	7	3.7	0.837	3.086	3.2
Mancozeb	90	4.0	0.791	3.135	39.4
Pyraclostrobin	45	3.0	0.001	0.002	(²)

¹ Planted acreage in 2006 for Georgia was 14,000 acres.

² Total applied is less than 50 lbs.

**Onions: Agricultural Chemical Applications,
New York, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bromoxynil	51	1.5	0.198	0.303	2.2
Bromoxynil heptan.	14	1.8	0.316	0.582	1.2
Bromoxynil octanoate	14	1.8	0.316	0.582	1.2
Dimethenamid-P	60	2.5	0.711	1.771	14.9
Fluazifop-P-butyl	56	1.2	0.203	0.244	1.9
Oxyfluorfen	70	4.6	0.068	0.312	3.1
Pendimethalin	91	2.3	1.172	2.663	34.1
Insecticides					
Chlorpyrifos	49	1.0	2.237	2.258	15.5
Formetanate hydro.	14	1.2	0.690	0.860	1.8
Lambda-cyhalothrin	68	4.0	0.027	0.107	1.0
Methomyl	25	2.1	0.653	1.364	4.8
Methyl parathion	25	2.0	0.418	0.825	2.9
Oxamyl	19	2.1	0.732	1.563	4.3
Permethrin	2	2.9	0.128	0.365	0.1
Zeta-cypermethrin	32	2.8	0.028	0.080	0.4
Fungicides					
Azoxystrobin	37	3.3	0.158	0.521	2.7
Boscalid	19	1.7	0.042	0.069	0.2
Chlorothalonil	99	5.3	0.962	5.100	70.9
Iprodione	32	3.5	0.443	1.555	7.1
Mancozeb	87	7.1	1.696	12.020	147.9
Mefenoxam	23	1.0	0.126	0.126	0.4
Pyraclostrobin	16	1.8	0.001	0.001	(²)

¹ Planted acreage in 2006 for New York was 14,100 acres.

² Total applied is less than 50 lbs.

**Onions: Agricultural Chemical Applications,
Oregon, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
2,4-D	33	1.0	0.622	0.622	4.0
Bromoxynil	65	2.1	0.116	0.247	3.2
Clethodim	27	1.0	0.139	0.145	0.8
Dimethenamid-P	15	1.4	0.446	0.612	1.8
Glyphosate iso. salt	42	1.0	0.542	0.554	4.6
Oxyfluorfen	80	1.8	0.075	0.136	2.2
Pendimethalin	92	1.7	0.908	1.526	27.8
S-Metolachlor	9	1.1	1.437	1.566	2.9
Insecticides					
Chlorpyrifos	80	1.0	1.114	1.133	17.8
Diazinon	19	2.8	0.500	1.385	5.1
Formetanate hydro.	56	1.3	0.995	1.314	14.6
Lambda-cyhalothrin	65	1.5	0.026	0.039	0.5
Malathion	9	1.0	1.122	1.122	2.0
Methomyl	61	1.8	0.756	1.360	16.4
Methyl parathion	55	2.1	0.409	0.858	9.3
Oxamyl	17	1.3	0.852	1.121	3.9
Oxydemeton-methyl	41	1.5	0.486	0.706	5.7
Spinosad	9	2.1	0.096	0.206	0.4
Zeta-cypermethrin	29	2.1	0.035	0.074	0.4
Fungicides					
Boscalid	10	1.0	0.015	0.015	(²)
Chlorothalonil	28	1.7	1.176	1.962	11.0
Copper hydroxide	39	2.2	0.872	1.955	15.0
Mancozeb	74	2.4	1.263	3.027	44.5
Mefenoxam	25	1.5	0.120	0.177	0.9
Metalaxyl	8	1.1	0.180	0.199	0.3
Pyraclostrobin	10	1.0	0.001	0.001	(²)
Other Chemicals					
Dichloropropene	36	1.0	141.663	141.663	1,020.2
Maleic hydrazide	23	1.0	1.880	1.880	8.6
Metam-sodium	12	1.0	112.905	112.905	277.0

¹ Planted acreage in 2006 for Oregon was 19,800 acres.

² Total applied is less than 50 lbs.

**Onions: Agricultural Chemical Applications,
Texas, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	50	1.9	3.973	7.401	68.8
DCPA	4	1.2	4.249	5.026	3.3
Oxyfluorfen	75	1.5	0.167	0.258	3.6
Insecticides					
Carbaryl	*	2.1	1.644	3.489	(²)
Diazinon	46	1.9	3.559	6.850	58.5
Methomyl	74	1.9	0.436	0.820	11.4
Spinosad	3	2.1	0.080	0.170	0.1
Fungicides					
Chlorothalonil	6	2.7	1.362	3.659	3.8
Copper hydroxide	52	1.3	1.115	1.414	13.6
Iprodione	11	1.9	0.755	1.457	3.1

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Texas was 18,700 acres.

² Total applied is less than 50 lbs.

**Onions: Agricultural Chemical Applications,
Washington, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bromoxynil	26	1.4	0.227	0.317	1.7
Bromoxynil heptan.	9	1.0	0.156	0.157	0.3
Bromoxynil octanoate	39	1.7	0.340	0.592	4.9
Clethodim	15	1.3	0.128	0.162	0.5
Glyphosate iso. salt	52	1.1	0.634	0.681	7.6
Oxyfluorfen	64	1.1	0.194	0.217	3.0
Pendimethalin	58	1.5	0.765	1.152	14.2
Insecticides					
Lambda-cyhalothrin	29	1.8	0.030	0.055	0.3
Fungicides					
Copper hydroxide	49	3.5	0.616	2.151	22.6
Mancozeb	61	3.2	0.459	1.450	19.0
Mefenoxam	28	1.1	0.162	0.177	1.1
Other Chemicals					
Metam-sodium	14	1.0	172.063	172.430	501.4

¹ Planted acreage in 2006 for Washington was 21,500 acres.

**Onions: Agricultural Chemical Applications,
Wisconsin, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Oxyfluorfen	99	7.0	0.044	0.304	0.6

¹ Planted acreage in 2006 for Wisconsin was 1,900 acres.

Green Peas, Proc.: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
MN	86,700	61	1,796.9	35	1,186.5	33	1,512.2	6	57.7
NY	19,500	88	696.7	88	1,197.3	88	1,313.5	20	42.6
OR	17,600	76	343.7	21	138.6	10	118.5	70	165.5
WA	34,300	64	1,467.9	50	1,165.6	39	1,077.6	43	544.3
WI	31,900	82	1,373.1	55	625.9	77	1,928.9	23	163.8
Total	190,000	69	5,678.4	45	4,313.9	45	5,950.7	23	973.9

**Green Peas, Proc.: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Minnesota	86,700					
Nitrogen		61	1.0	32	34	1,796.9
Phosphate		35	1.0	39	40	1,186.5
Potash		33	1.0	52	53	1,512.2
Sulfur		6	1.0	12	12	57.7
New York	19,500					
Nitrogen		88	1.0	41	41	696.7
Phosphate		88	1.0	70	70	1,197.3
Potash		88	1.0	77	77	1,313.5
Sulfur		20	1.0	11	11	42.6
Oregon	17,600					
Nitrogen		76	1.3	20	26	343.7
Phosphate		21	1.0	37	37	138.6
Potash		10	1.0	69	69	118.5
Sulfur		70	1.0	13	13	165.5
Washington	34,300					
Nitrogen		64	1.4	47	67	1,467.9
Phosphate		50	1.1	64	67	1,165.6
Potash		39	1.1	73	80	1,077.6
Sulfur		43	1.0	35	37	544.3
Wisconsin	31,900					
Nitrogen		82	1.6	34	52	1,373.1
Phosphate		55	1.0	36	36	625.9
Potash		77	1.3	60	79	1,928.9
Sulfur		23	1.3	16	22	163.8
Program States	190,000					
Nitrogen		69	1.2	34	43	5,678.4
Phosphate		45	1.0	49	49	4,313.9
Potash		45	1.1	62	69	5,950.7
Sulfur		23	1.1	21	22	973.9

**Green Peas, Proc.: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States					
	ALL	MN	NY	OR	WA	WI
Herbicides						
2,4-D, dimeth. salt	P			*	*	
2,4-D, triiso. salt	*	*				
Bentazon	P	*	P	*	P	P
Clethodim	*			*		
Clomazone	P	P	*		*	
Clopyralid mono salt	*	*				
Dicamba, sodium salt	*	*				
Diflufenzopyr-sodium	*	*				
Glyphosate iso. salt	P	*	*	*	P	P
Imazamox	P	*	*			*
Imazethapyr	P	P	P	P	P	P
Imazethapyr, ammon.	*					*
MCPA	*				*	
MCPA, 2-ethylhexyl	P			P		
MCPA, dimethyl. salt	P			*	P	*
MCPA, sodium salt	P			*	*	
MCPB	P	P	P		*	*
Metolachlor	*				*	*
Metribuzin	P		*	*	P	
Nicosulfuron	*	*				
Paraquat	*		*			
Pendimethalin	P	P	P	P	P	P
Quizalofop-P-ethyl	P		*	*	P	
S-Metolachlor	P	P	*			*
Sethoxydim	P	P	*	*	*	P
Simazine	*		*			
Triallate	*			*	*	
Trifluralin	P	P		P	P	P
Insecticides						
Bifenthrin	P	P				P
Chlorpyrifos	*			*	*	
Dimethoate	P	P		P	P	P
Esfenvalerate	*			*		
Malathion	*				*	
Petroleum distillate	*				*	
Propargite	*	*				
Zeta-cypermethrin	P		P	P	P	
Fungicides						
Azoxystrobin	P					P
Fludioxonil	*				*	
Other Chemicals						
Gibberellic acid	*				*	

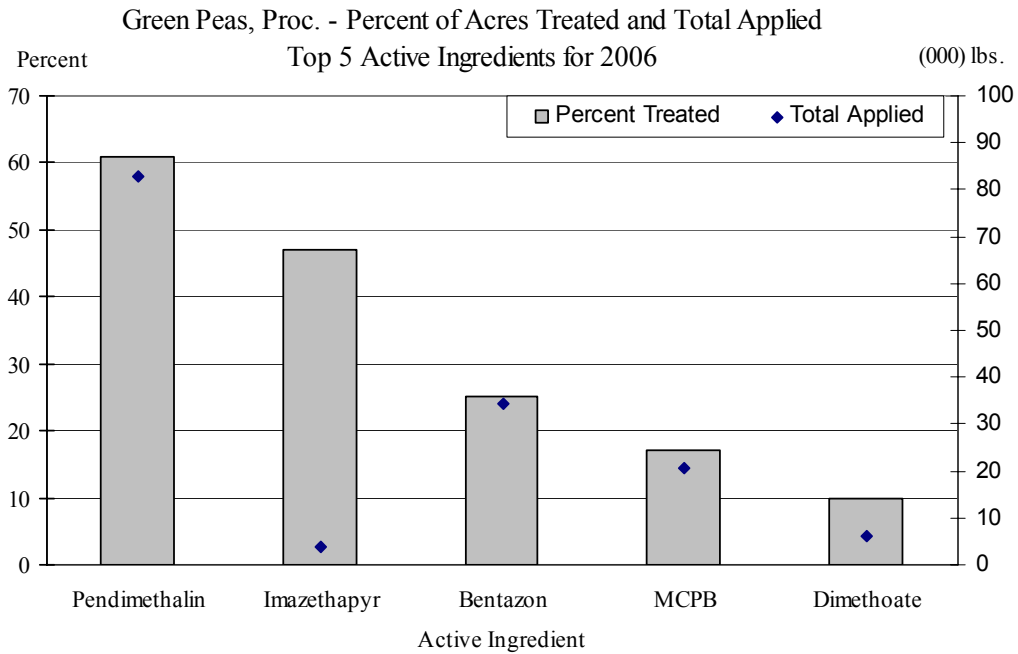
P Usage data are published for this active ingredient.

*Usage data are not published for this active ingredient.

**Green Peas, Proc.: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide		Fungicide		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
MN	86,700	96	83.3	6	0.6				
NY	19,500	99	20.0						
OR	17,600	100	26.4	69	6.0				
WA	34,300	69	21.3	35	2.8	(¹)		(¹)	
WI	31,900	96	33.0	20	0.5	(¹)			
Total	190,000	92	184.0	19	9.9	3	0.2	(¹)	

¹ Insufficient reports to publish data for pesticide class.



**Green Peas, Proc.: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
2,4-D, dimeth. salt	2	1.0	0.421	0.431	1.6
Bentazon	25	1.0	0.699	0.724	34.2
Clomazone	5	1.0	0.605	0.605	5.6
Glyphosate iso. salt	5	1.4	0.948	1.315	13.6
Imazamox	1	1.1	0.023	0.025	(²)
Imazethapyr	47	1.0	0.043	0.044	3.9
MCPA, 2-ethylhexyl	*	1.0	0.140	0.140	0.1
MCPA, dimethyl. salt	6	1.0	0.340	0.351	3.9
MCPA, sodium salt	2	1.0	0.360	0.360	1.3
MCPB	17	1.0	0.621	0.628	20.6
Metribuzin	2	1.0	0.097	0.098	0.3
Pendimethalin	61	1.0	0.701	0.714	82.9
Quizalofop-P-ethyl	2	1.0	0.064	0.064	0.3
S-Metolachlor	3	1.1	1.177	1.247	6.3
Sethoxydim	3	1.1	0.288	0.307	1.8
Trifluralin	7	1.0	0.448	0.448	5.8
Insecticides					
Bifenthrin	3	1.0	0.033	0.033	0.2
Dimethoate	10	1.2	0.239	0.288	6.1
Zeta-cypermethrin	7	1.2	0.025	0.029	0.4
Fungicides					
Azoxystrobin	1	1.0	0.101	0.101	0.2

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 5 Program States was 190,000 acres.
States included are MN, NY, OR, WA, and WI.

² Total applied is less than 50 lbs.

**Green Peas, Proc.: Agricultural Chemical Applications,
Minnesota, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	10	1.0	0.613	0.613	5.5
Imazethapyr	69	1.0	0.045	0.045	2.7
MCPB	13	1.0	0.897	0.909	10.6
Pendimethalin	91	1.0	0.728	0.742	58.8
S-Metolachlor	3	1.1	1.296	1.442	3.8
Sethoxydim	1	1.0	0.294	0.294	0.3
Trifluralin	2	1.0	0.367	0.367	0.7
Insecticides					
Bifenthrin	3	1.0	0.032	0.032	0.1
Dimethoate	4	1.1	0.085	0.090	0.3

¹ Planted acreage in 2006 for Minnesota was 86,700 acres.

**Green Peas, Proc.: Agricultural Chemical Applications,
New York, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	98	1.0	0.522	0.533	10.2
Imazethapyr	4	1.0	0.005	0.005	(²)
MCPB	94	1.0	0.470	0.475	8.7
Pendimethalin	4	1.0	0.063	0.063	(²)
Insecticides					
Zeta-cypermethrin	4	1.0	0.017	0.017	(²)

¹ Planted acreage in 2006 for New York was 19,500 acres.

² Total applied is less than 50 lbs.

**Green Peas, Proc.: Agricultural Chemical Applications,
Oregon, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Imazethapyr	57	1.0	0.043	0.043	0.4
MCPA, 2-ethylhexyl	4	1.0	0.140	0.140	0.1
Pendimethalin	59	1.0	0.790	0.816	8.4
Trifluralin	29	1.0	0.418	0.418	2.1
Insecticides					
Dimethoate	58	1.4	0.322	0.438	4.5
Zeta-cypermethrin	27	1.3	0.021	0.027	0.1

¹ Planted acreage in 2006 for Oregon was 17,600 acres.

**Green Peas, Proc.: Agricultural Chemical Applications,
Washington, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	30	1.1	0.740	0.817	8.5
Glyphosate iso. salt	9	1.2	0.547	0.650	2.0
Imazethapyr	7	1.0	0.004	0.004	(²)
MCPA, dimethyl. salt	27	1.0	0.388	0.402	3.7
Metribuzin	7	1.0	0.094	0.095	0.2
Pendimethalin	8	1.0	0.448	0.449	1.2
Quizalofop-P-ethyl	4	1.0	0.072	0.074	0.1
Trifluralin	11	1.0	0.482	0.482	1.8
Insecticides					
Dimethoate	11	1.2	0.221	0.258	1.0
Zeta-cypermethrin	25	1.1	0.028	0.032	0.3

¹ Planted acreage in 2006 for Washington was 34,300 acres.

² Total applied is less than 50 lbs.

**Green Peas, Proc.: Agricultural Chemical Applications,
Wisconsin, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bentazon	37	1.0	0.952	0.960	11.2
Glyphosate iso. salt	5	1.0	0.658	0.658	0.9
Imazethapyr	53	1.0	0.046	0.047	0.8
Pendimethalin	71	1.0	0.622	0.632	14.4
Sethoxydim	3	1.0	0.178	0.178	0.2
Trifluralin	8	1.0	0.506	0.506	1.2
Insecticides					
Bifenthrin	13	1.0	0.033	0.033	0.1
Dimethoate	8	1.0	0.145	0.145	0.4
Fungicides					
Azoxystrobin	6	1.0	0.101	0.101	0.2

¹ Planted acreage in 2006 for Wisconsin was 31,900 acres.

Bell Peppers: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	28,400	99	7,947.9	78	2,944.1	85	3,068.9	30	410.5
FL	19,800	100	5,304.5	99	3,384.9	100	7,221.5		
GA	4,600	96	849.5	80	226.9	96	1,351.3	(¹)	
NJ	3,200	98	436.7	89	305.8	98	595.1	(¹)	
NC	4,900	100	440.6	98	384.6	99	756.4	17	16.9
Total	60,900	99	14,979.1	87	7,246.3	92	12,993.2	21	656.5

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Bell Peppers: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	28,400					
Nitrogen		99	7.4	38	283	7,947.9
Phosphate		78	3.3	41	133	2,944.1
Potash		85	3.5	36	127	3,068.9
Sulfur		30	4.8	10	48	410.5
Florida	19,800					
Nitrogen		100	6.0	45	269	5,304.5
Phosphate		99	1.5	118	172	3,384.9
Potash		100	6.0	61	366	7,221.5
Georgia	4,600					
Nitrogen		96	67.5	3	193	849.5
Phosphate		80	23.4	3	62	226.9
Potash		96	65.5	5	307	1,351.3
Sulfur ¹						
New Jersey	3,200					
Nitrogen		98	4.1	34	139	436.7
Phosphate		89	3.2	34	107	305.8
Potash		98	4.1	46	189	595.1
Sulfur ¹						
North Carolina	4,900					
Nitrogen		100	2.4	38	90	440.6
Phosphate		98	1.3	61	80	384.6
Potash		99	1.8	85	155	756.4
Sulfur		17	1.0	20	20	16.9
Program States	60,900					
Nitrogen		99	11.2	23	252	14,979.1
Phosphate		87	3.8	37	142	7,246.3
Potash		92	9.8	26	256	12,993.2
Sulfur		21	11.6	5	54	656.5

¹ Insufficient reports to publish fertilizer data.

**Bell Peppers: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States					
	ALL	CA	FL	GA	NJ	NC
Herbicides						
Bensulide	*	*				
Clomazone	P				*	*
DCPA	*	*			*	
Ethalfuralin	*		*			
Glyphosate iso. salt	P	P	*	*	*	*
Halosulfuron	*	*				*
Metribuzin	*	*			*	
Napropamide	P	*		*	P	*
Oxyfluorfen	P	P				
Paraquat	P	P	*	*	*	P
Pendimethalin	*		*		*	
S-Metolachlor	P	*	*		P	
Sethoxydim	*	*				*
Trifluralin	P	P	*	*	*	*
Insecticides						
Abamectin	P	P	*	*		
Acephate	P	P	*	*	P	P
Acetamiprid	P	*			*	
Azadirachtin	*	*				
Azinphos-methyl	*		*			
Benzoic acid	P	P	*	*	*	*
Bifenazate	*	*				
Bifenthrin	P	*	*	*	*	*
Bt subsp. aizawai	P	P	*	*		
Bt subsp. kurstaki	P	P	P	*	*	*
Carbaryl	P	*	*	*	P	P
Chlorpyrifos	*		*			
Cryolite	*	P	*			
Cyfluthrin	P	*	*	*		*
Cyromazine	*	*				
Diazinon	P	*	*		*	*
Dicofol	P	*	*	*		
Diflubenzuron	*	*		*		
Dimethoate	P	P			P	P
Dinotefuran	*	*				
Disulfoton	*	*				
Emamectin benzoate	*	P	*			
Endosulfan	P	P	*	*	*	P
Esfenvalerate	P	P		*	*	P
Imidacloprid	P	P	*	*	*	*
Indoxacarb	P	P	*	*	*	*
Lambda-cyhalothrin	P	P		*	*	

See footnote(s) at end of table.

--continued

**Bell Peppers: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States					
	ALL	CA	FL	GA	NJ	NC
Insecticides (continued)						
Malathion	P			*	*	*
Methomyl	P	P	P	*	P	*
Naled	*	*				
Neem oil, clar. hyd.	*	*	*			
Oxamyl	P	P	*	*	*	
Permethrin	P	*		*	*	*
Petroleum distillate	*	*	*			
Petroleum oil	*	*				
Pymetrozine	P	*	*			
Pyrethrins	*	*				*
Pyriproxyfen	*	*				
Spinosad	P	P	P	P	P	P
Spiromesifen	P	P	*	*		
Tebufenozide	P	*	*			
Thiamethoxam	P	P	*	*		
Zeta-cypermethrin	P	P	*	*	*	
Fungicides						
Agriphage	*		*			
Azoxystrobin	P	P	*	*	P	P
Bacillus pumilus	*	*				
Bacillus subtilis	*	*				
Bacillus subtilis	P	*	*		*	
Basic copper sulfate	P	*		*	*	*
Borax decahydrate	*		*			
Boscalid	*	*			*	
Captan	*				*	
Chlorothalonil	P		*	*	P	P
Copper amm. complex	*		*			
Copper hydroxide	P	P	P	P	P	P
Copper oxychloride	*				*	
Copper resinate	*				*	*
Copper sulfate	*			*	*	*
Cymoxanil	P	*	*	*	P	*
Dimethomorph	*				*	
Famoxadone	P	*	*	*	P	*
Mancozeb	P			*	*	P
Maneb	P	*	P	P	P	*
Mefenoxam	P	P	*	*	P	*
Metalaxyl	*		*		*	*
Myclobutanil	P	P				
Pyraclostrobin	P	P	*	*		*
Sulfur	P	P	*	*		

See footnote(s) at end of table.

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**Bell Peppers: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States					
	ALL	CA	FL	GA	NJ	NC
Fungicides (continued)						
Tetraconazole	*			*		
Thiophanate-methyl	*			*		
Trifloxystrobin	P	P	*		*	
Other Chemicals						
Acibenzolar-S-Methyl	*					*
Chloropicrin	P	P	P	P		P
Cytokinins	*		*			*
Dichloropropene	P	P	*	*		
Ethephon	*	*				
Gibberellic acid	*			*		
Hydrogen peroxide	P	*	*	*	*	
Metam-potassium	*	*				
Metam-sodium	P	P		*	*	
Methyl bromide	P	*	P	*		P

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

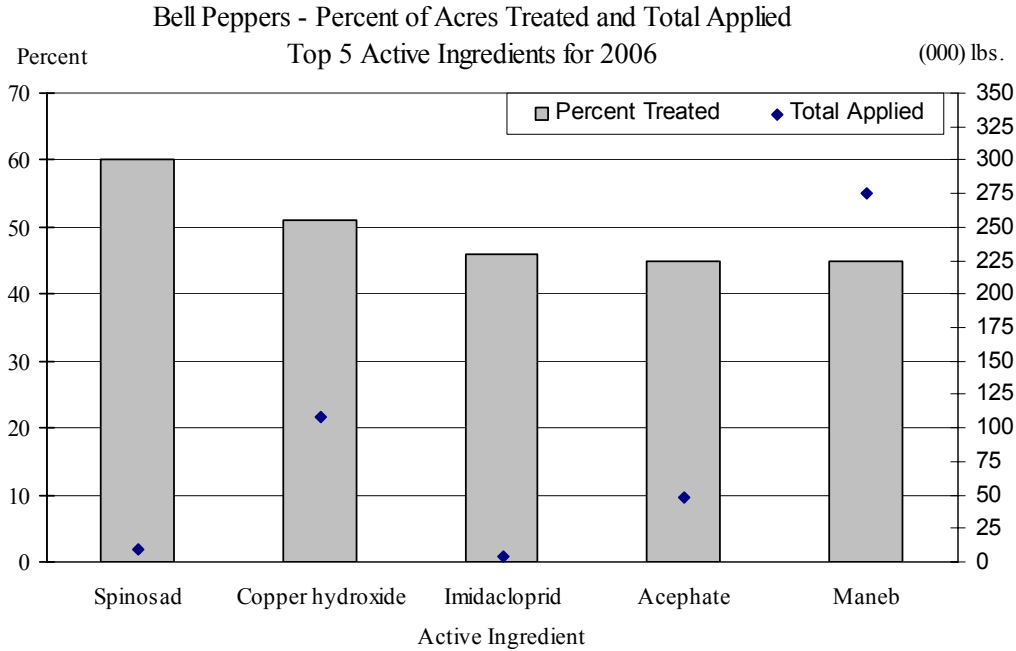
**Bell Peppers: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	28,400	40	63.7	84	118.1	75	241.3	19	894.2
FL	19,800	(²)		98	74.0	99	307.9	(²)	
GA	4,600	(²)		99	41.8	97	71.5	97	852.2
NJ	3,200	46	1.9	90	5.4	90	18.1	(²)	
NC	4,900	60	3.6	99	5.1	40	18.2	18	133.0
Total	60,900	57	86.5	91	244.5	83	657.0	26	2,632.6

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.



**Bell Peppers: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	5	1.0	0.153	0.153	0.5
Glyphosate iso. salt	13	1.1	0.690	0.775	5.9
Napropamide	6	1.1	1.242	1.306	4.5
Oxyfluorfen	4	1.1	0.341	0.370	0.8
Paraquat	3	1.3	0.707	0.894	1.4
S-Metolachlor	37	1.0	0.887	0.893	20.2
Trifluralin	5	1.1	0.603	0.650	2.0
Insecticides					
Abamectin	25	2.3	0.008	0.018	0.3
Acephate	45	2.5	0.703	1.785	48.5
Acetamiprid	1	1.2	0.056	0.065	(²)
Benzoic acid	40	1.6	0.135	0.222	5.4
Bifenthrin	8	3.7	0.076	0.280	1.3
Bt subsp. aizawai ³	12	5.7			
Bt subsp. kurstaki ³	14	6.4			
Carbaryl	1	3.1	0.618	1.894	1.5
Cyfluthrin	10	2.9	0.042	0.122	0.8
Diazinon	5	1.0	0.177	0.177	0.5
Dicofol	12	1.1	0.468	0.535	4.0
Dimethoate	7	1.8	0.278	0.509	2.1
Endosulfan	12	1.2	0.597	0.711	5.2
Esfenvalerate	15	1.4	0.042	0.060	0.6
Imidacloprid	46	1.6	0.101	0.161	4.5
Indoxacarb	26	1.9	0.065	0.121	1.9
Lambda-cyhalothrin	4	2.9	0.029	0.084	0.2
Malathion	*	2.0	0.500	1.016	0.1
Methomyl	33	2.2	0.618	1.383	27.5
Oxamyl	38	2.0	0.560	1.124	26.2
Permethrin	3	1.1	0.146	0.159	0.2
Pymetrozine	25	1.0	0.086	0.087	1.3
Spinosad	60	2.4	0.102	0.248	9.1
Spiromesifen	22	1.4	0.122	0.166	2.2
Tebufenozide	23	1.9	0.124	0.231	3.3
Thiamethoxam	11	1.3	0.064	0.085	0.6
Zeta-cypermethrin	13	1.7	0.037	0.065	0.5
Fungicides					
Azoxystrobin	23	2.2	0.119	0.255	3.6
Bacillus subtilis ³	28	1.9			
Basic copper sulfate	1	9.4	0.727	6.829	3.0
Chlorothalonil	1	3.4	1.259	4.305	2.2
Copper hydroxide	51	4.9	0.713	3.510	108.0

See footnote(s) at end of table.

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**Bell Peppers: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Cymoxanil	3	1.7	0.145	0.240	0.5
Famoxadone	3	1.7	0.145	0.240	0.5
Mancozeb	2	4.7	1.441	6.808	7.0
Maneb	45	7.1	1.412	10.011	274.9
Mefenoxam	16	1.4	0.255	0.351	3.5
Myclobutanil	18	1.4	0.099	0.139	1.6
Pyraclostrobin	20	1.6	0.176	0.277	3.3
Sulfur	19	3.3	6.430	21.065	245.1
Trifloxystrobin	7	1.0	0.091	0.095	0.4
Other Chemicals					
Chloropicrin	17	1.0	54.443	54.649	575.8
Dichloropropene	2	1.0	120.156	125.043	183.6
Hydrogen peroxide	7	1.6	0.665	1.094	4.9
Metam-sodium	6	1.1	140.177	154.911	593.7
Methyl bromide	17	1.0	111.960	111.960	1,128.8

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 5 Program States was 60,900 acres.
States included are CA, FL, GA, NJ, and NC.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Bell Peppers: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Glyphosate iso. salt	14	1.1	0.888	1.006	4.0
Oxyfluorfen	8	1.1	0.341	0.370	0.8
Paraquat	5	1.3	0.719	0.932	1.3
Trifluralin	10	1.1	0.598	0.651	1.8
Insecticides					
Abamectin	11	1.3	0.010	0.013	(²)
Acephate	25	1.4	0.702	0.982	7.0
Benzoic acid	36	1.3	0.162	0.212	2.2
Bt subsp. aizawai ³	7	3.7			
Bt subsp. kurstaki ³	7	3.5			
Cryolite	14	2.3	7.758	17.631	69.9
Dimethoate	11	1.2	0.238	0.284	0.9
Emamectin benzoate	17	1.2	0.010	0.011	0.1
Endosulfan	11	1.1	0.642	0.688	2.1
Esfenvalerate	31	1.3	0.044	0.055	0.5
Imidacloprid	52	1.3	0.167	0.211	3.1
Indoxacarb	9	1.2	0.064	0.079	0.2
Lambda-cyhalothrin	6	2.6	0.028	0.072	0.1
Methomyl	9	2.2	0.836	1.820	4.8
Oxamyl	26	1.5	0.757	1.114	8.1
Spinosad	57	2.0	0.091	0.184	3.0
Spiromesifen	44	1.3	0.121	0.159	2.0
Thiamethoxam	14	1.5	0.056	0.084	0.3
Zeta-cypermethrin	15	1.4	0.046	0.065	0.3
Fungicides					
Azoxystrobin	3	4.1	0.146	0.602	0.5
Copper hydroxide	28	2.1	0.672	1.413	11.0
Mefenoxam	24	1.3	0.248	0.322	2.2
Myclobutanil	40	1.4	0.099	0.139	1.6
Pyraclostrobin	40	1.5	0.180	0.277	3.2
Sulfur	34	2.2	10.079	22.583	220.8
Trifloxystrobin	15	1.0	0.094	0.098	0.4
Other Chemicals					
Chloropicrin	3	1.0	47.587	49.631	46.1
Dichloropropene	4	1.0	124.456	130.614	157.7
Metam-sodium	12	1.1	145.793	163.413	544.3

¹ Planted acreage in 2006 for California was 28,400 acres.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Bell Peppers: Agricultural Chemical Applications,
Florida, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides					
Bt subsp. kurstaki ²	16	13.3			
Methomyl	83	2.2	0.594	1.325	21.8
Spinosad	82	2.9	0.117	0.341	5.5
Fungicides					
Copper hydroxide	91	6.2	0.752	4.644	84.1
Maneb	97	7.2	1.406	10.130	193.8
Other Chemicals					
Chloropicrin	23	1.0	45.893	45.893	211.4
Methyl bromide	26	1.0	98.706	98.706	506.7

¹ Planted acreage in 2006 for Florida was 19,800 acres.

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

**Bell Peppers: Agricultural Chemical Applications,
Georgia, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides					
Spinosad	15	4.5	0.053	0.239	0.2
Fungicides					
Copper hydroxide	14	6.3	0.560	3.552	2.3
Maneb	97	9.6	1.541	14.832	66.0
Other Chemicals					
Chloropicrin	91	1.0	65.875	65.875	274.5

¹ Planted acreage in 2006 for Georgia was 4,600 acres.

**Bell Peppers: Agricultural Chemical Applications,
New Jersey, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Napropamide	6	1.4	1.617	2.274	0.4
S-Metolachlor	39	1.0	0.893	0.893	1.1
Insecticides					
Acephate	60	1.7	0.730	1.213	2.3
Carbaryl	8	6.6	0.516	3.422	0.9
Dimethoate	21	4.1	0.338	1.370	0.9
Methomyl	20	3.0	0.393	1.174	0.7
Spinosad	18	2.0	0.093	0.189	0.1
Fungicides					
Azoxystrobin	3	2.7	0.100	0.271	(²)
Chlorothalonil	7	3.8	0.977	3.696	0.8
Copper hydroxide	78	4.1	0.505	2.050	5.1
Cymoxanil	7	3.4	0.153	0.526	0.1
Famoxadone	7	3.4	0.153	0.526	0.1
Maneb	69	4.2	1.103	4.606	10.2
Mefenoxam	16	1.8	0.294	0.536	0.3

¹ Planted acreage in 2006 for New Jersey was 3,200 acres.

² Total applied is less than 50 lbs.

**Bell Peppers: Agricultural Chemical Applications,
North Carolina, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Paraquat	1	1.0	0.564	0.564	(²)
Insecticides					
Acephate	46	1.9	0.909	1.701	3.8
Carbaryl	2	1.9	0.909	1.722	0.2
Dimethoate	7	3.3	0.265	0.884	0.3
Endosulfan	2	3.6	0.544	1.951	0.2
Esfenvalerate	13	3.4	0.034	0.116	0.1
Spinosad	62	1.6	0.064	0.100	0.3
Fungicides					
Azoxystrobin	8	2.1	0.121	0.257	0.1
Chlorothalonil	6	3.1	1.489	4.657	1.4
Copper hydroxide	35	5.2	0.609	3.156	5.4
Mancozeb	20	4.8	1.441	6.964	6.9
Other Chemicals					
Chloropicrin	17	1.0	52.498	52.498	43.9
Methyl bromide	17	1.0	106.587	106.587	89.1

¹ Planted acreage in 2006 for North Carolina was 4,900 acres.

² Total applied is less than 50 lbs.

Pumpkins: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	5,100	90	598.2	41	132.4	88	528.7	54	147.6
IL	14,200	96	1,348.9	60	799.4	87	2,029.8	(¹)	
MI	6,200	88	401.0	78	319.2	78	445.3	2	1.9
OH	8,000	92	465.8	85	326.4	88	439.9	(¹)	
PA	8,500	87	538.3	78	468.8	78	458.3	6	5.1
Total	42,000	91	3,352.2	69	2,046.1	84	3,902.1	11	175.0

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Pumpkins: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	5,100					
Nitrogen		90	1.3	96	130	598.2
Phosphate		41	1.6	41	63	132.4
Potash		88	1.3	94	118	528.7
Sulfur		54	2.1	26	54	147.6
Illinois	14,200					
Nitrogen		96	1.3	78	99	1,348.9
Phosphate		60	1.1	85	95	799.4
Potash		87	1.1	145	165	2,029.8
Sulfur ¹						
Michigan	6,200					
Nitrogen		88	1.8	41	73	401.0
Phosphate		78	1.4	46	66	319.2
Potash		78	1.5	61	92	445.3
Sulfur		2	1.3	10	13	1.9
Ohio	8,000					
Nitrogen		92	1.5	41	64	465.8
Phosphate		85	1.3	37	48	326.4
Potash		88	1.3	50	62	439.9
Sulfur ¹						
Pennsylvania	8,500					
Nitrogen		87	1.5	50	73	538.3
Phosphate		78	1.3	55	70	468.8
Potash		78	1.3	54	69	458.3
Sulfur		6	1.0	10	10	5.1
Program States	42,000					
Nitrogen		91	1.4	64	92	3,352.2
Phosphate		69	1.3	57	74	2,046.1
Potash		84	1.3	95	119	3,902.1
Sulfur		11	1.8	25	44	175.0

¹ Insufficient reports to publish fertilizer data.

**Pumpkins: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States					
	ALL	CA	IL	MI	OH	PA
Herbicides						
2,4-D, dieth. salt	*					*
Atrazine	*		*	*		
Bensulide	*			*	*	*
Bentazon	*				*	
Bromoxynil heptan.	*		*			
Bromoxynil octanoate	*		*			
Clethodim	P		*	*	*	P
Clomazone	P		P	P	P	P
Ethalfuralin	P		P	P	P	P
Glyphosate amm. salt	*				*	
Glyphosate iso. salt	P	*	*	P	P	P
Halosulfuron	P	*	P	*	P	P
Imazethapyr	*			*		
Napropamide	*					*
Naptalam	*			*		*
Paraquat	P				*	*
Pendimethalin	P			*		*
Quizalofop-P-ethyl	*			*		
S-Metolachlor	P		*	*	P	P
Sethoxydim	P		*	*	*	*
Sulfosate	*		*			*
Trifluralin	P		*	*		
Insecticides						
Abamectin	*	*				
Acephate	*					*
Azadirachtin	*			*		
Azinphos-methyl	*			*		*
Benzoic acid	*	*				
Bifenthrin	P	*	P	P	*	P
Bt subsp. kurstaki	*	*				
Carbaryl	P	*	P	P	P	*
Carbofuran	P		*	*	*	*
Chlorpyrifos	*		*		*	*
Cryolite	*	*				
Cyfluthrin	*					*
Dicofol	*					*
Dimethoate	*		*			
Dinotefuran	*	*				*
Endosulfan	P			P	P	P
Esfenvalerate	P	*	*	P	P	P
Fenbutatin-oxide	*					*
Gamma-cyhalothrin	*			*		

See footnote(s) at end of table.

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**Pumpkins: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States					
	ALL	CA	IL	MI	OH	PA
Insecticides (continued)						
Imidacloprid	P	P	*	*	P	P
Lambda-cyhalothrin	P		*	P	*	P
Malathion	P	*	*		*	*
Methomyl	P	*		*		P
Methoxychlor	*			*		
Naled	*			*		
Neem oil, clar. hyd.	*			*		
Oxamyl	*					*
Oxydemeton-methyl	*	*				
Permethrin	P	*	P	*	P	P
Phosmet	*			*		*
Pymetrozine	P	*				*
Pyrethrins	*			*		
Spinosad	*	*				*
Spiromesifen	*	*				
Thiacloprid	*			*		
Thiamethoxam	*			*		
Trichlorfon	*			*	*	
Zeta-cypermethrin	P		*	*	*	
Fungicides						
Azoxystrobin	P		P	P	P	P
Basic copper sulfate	P			*	*	*
Benomyl	*		*			*
Borax decahydrate	*				*	
Boscalid	P		*	*		P
Captan	P		*	*		*
Chlorothalonil	P	*	*	P	P	P
Copper amm. complex	*		*			
Copper hydroxide	P		P	P	P	P
Copper oxychloride	P			*	*	*
Copper resinate	P		*	*	*	P
Copper sulfate	*		*	*		
Cyazofamid	P				*	*
Cymoxanil	P		*	P	*	P
Dimethomorph	P		*			*
Dinocap	*				*	
Famoxadone	P		*	P	*	P
Fosetyl-al	*			*		*
Mancozeb	P		P	P	P	P
Maneb	P			*	*	P
Mefenoxam	P	*	*	P	*	P
Metalaxyl	*		*	*		*

See footnote(s) at end of table.

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**Pumpkins: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States					
	ALL	CA	IL	MI	OH	PA
Fungicides (continued)						
Metiram	*			*		
Myclobutanil	P	P	*	*	P	P
Phosphorous acid	*					*
Potassium bicarbon.	*					*
Propamocarb hydroch.	P			P	*	*
Propiconazole	*					*
Pyraclostrobin	P		*	*	P	P
Sulfur	P	P		*	P	*
Thiophanate-methyl	P		*	P	P	*
Trifloxystrobin	P	*		*	*	*
Triflumizole	P				*	*
Triforine	*					*
Zoxamide	*		*			
Other Chemicals						
Chloropicrin	*					*
Dichloropropene	*					*
Gibberellic acid	*				*	
Hydrogen peroxide	P			*	*	*

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

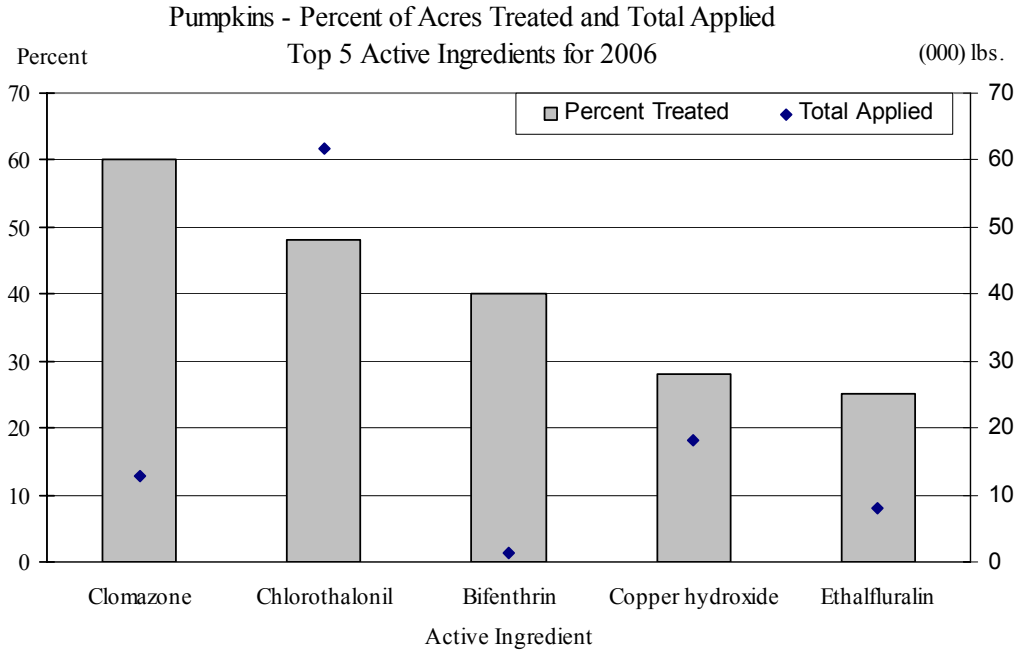
**Pumpkins: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	5,100	(²)		86	3.6	84	155.6		
IL	14,200	(²)		82	4.3	66	25.7		
MI	6,200	70	4.9	54	4.0	62	32.3	(²)	
OH	8,000	68	6.2	77	10.4	80	24.3	(²)	
PA	8,500	87	16.7	90	7.7	90	30.4	(²)	
Total	42,000	75	41.4	79	29.9	75	268.3		

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.



**Pumpkins: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Appli-cations	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clethodim	2	1.0	0.106	0.106	0.1
Clomazone	60	1.0	0.504	0.505	12.8
Ethalfuralin	25	1.0	0.785	0.786	8.1
Glyphosate iso. salt	24	1.1	1.147	1.213	12.0
Halosulfuron	15	1.0	0.026	0.027	0.2
Paraquat	5	1.0	0.329	0.331	0.7
Pendimethalin	*	1.0	0.677	0.677	0.1
S-Metolachlor	4	1.8	1.098	1.937	3.0
Sethoxydim	2	1.1	0.418	0.446	0.4
Trifluralin	*	1.0	0.693	0.693	0.1
Insecticides					
Bifenthrin	40	1.3	0.057	0.075	1.3
Carbaryl	18	2.1	0.897	1.869	14.4
Carbofuran	1	1.1	0.681	0.725	0.4
Endosulfan	16	1.5	0.691	1.070	7.3
Esfenvalerate	6	2.2	0.037	0.082	0.2
Imidacloprid	14	1.1	0.252	0.267	1.6
Lambda-cyhalothrin	4	2.3	0.022	0.049	0.1
Malathion	*	2.0	1.596	3.236	0.3
Methomyl	4	1.8	0.396	0.724	1.3
Permethrin	8	2.5	0.133	0.334	1.1
Pymetrozine	*	1.1	0.088	0.099	(²)
Zeta-cypermethrin	6	1.9	0.015	0.029	0.1
Fungicides					
Azoxystrobin	22	1.4	0.165	0.226	2.1
Basic copper sulfate	1	2.5	0.528	1.320	0.4
Boscalid	11	1.2	0.015	0.018	0.1
Captan	*	2.3	2.080	4.809	0.3
Chlorothalonil	48	2.0	1.489	2.999	61.6
Copper hydroxide	28	2.1	0.714	1.529	18.2
Copper oxychloride	*	3.1	1.477	4.572	0.6
Copper resinate	2	3.4	0.111	0.381	0.3
Cyazofamid	*	1.7	0.062	0.105	(²)
Cymoxanil	5	1.8	0.115	0.207	0.4
Dimethomorph	3	1.5	0.198	0.303	0.3
Famoxadone	5	1.8	0.113	0.203	0.4
Mancozeb	11	1.9	1.508	2.843	12.7
Maneb	3	1.7	1.236	2.090	2.2
Mefenoxam	2	1.6	0.379	0.618	0.6
Myclobutanil	16	2.2	0.102	0.227	1.5
Propamocarb hydroch.	13	1.5	0.862	1.262	7.2

See footnote(s) at end of table.

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**Pumpkins: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Pyraclostrobin	18	1.7	0.083	0.143	1.1
Sulfur	10	1.3	28.900	38.742	155.5
Thiophanate-methyl	3	2.4	0.245	0.581	0.7
Trifloxystrobin	7	1.8	0.065	0.118	0.3
Triflumizole	10	1.0	0.127	0.133	0.5
Other Chemicals					
Hydrogen peroxide	*	2.8	1.236	3.510	0.2

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 5 Program States was 42,000 acres.

States included are CA, IL, MI, OH, and PA.

² Total applied is less than 50 lbs.

**Pumpkins: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides					
Imidacloprid	64	1.1	0.300	0.324	1.1
Fungicides					
Myclobutanil	21	1.8	0.122	0.226	0.2
Sulfur	72	1.2	33.982	41.983	154.5

¹ Planted acreage in 2006 for California was 5,100 acres.

**Pumpkins: Agricultural Chemical Applications,
Illinois, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	79	1.0	0.652	0.655	7.3
Ethalfuralin	6	1.0	1.058	1.058	0.8
Halosulfuron	27	1.0	0.022	0.022	0.1
Insecticides					
Bifenthrin	62	1.0	0.046	0.046	0.4
Carbaryl	15	1.9	0.810	1.510	3.2
Permethrin	8	2.7	0.129	0.343	0.4
Fungicides					
Azoxystrobin	43	1.1	0.170	0.181	1.1
Copper hydroxide	55	1.9	0.696	1.310	10.2
Mancozeb	3	1.6	0.954	1.566	0.6

¹ Planted acreage in 2006 for Illinois was 14,200 acres.

**Pumpkins: Agricultural Chemical Applications,
Michigan, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	45	1.0	0.343	0.345	1.0
Ethalfuralin	48	1.0	0.773	0.773	2.3
Glyphosate iso. salt	15	1.1	0.870	0.927	0.9
Insecticides					
Bifenthrin	4	2.0	0.067	0.134	(²)
Carbaryl	18	1.8	0.831	1.517	1.7
Endosulfan	17	2.2	0.718	1.563	1.7
Esfenvalerate	19	2.9	0.035	0.102	0.1
Lambda-cyhalothrin	6	3.1	0.023	0.071	(²)
Fungicides					
Azoxystrobin	8	2.2	0.112	0.246	0.1
Chlorothalonil	50	3.3	1.714	5.742	17.9
Copper hydroxide	38	3.1	0.855	2.650	6.2
Cymoxanil	15	1.7	0.125	0.218	0.2
Famoxadone	15	1.7	0.125	0.218	0.2
Mancozeb	7	1.9	1.272	2.420	1.1
Mefenoxam	2	2.3	0.163	0.375	(²)
Propamocarb hydroch.	19	3.0	0.999	2.965	3.5
Thiophanate-methyl	11	2.0	0.308	0.629	0.4

¹ Planted acreage in 2006 for Michigan was 6,200 acres.

² Total applied is less than 50 lbs.

**Pumpkins: Agricultural Chemical Applications,
Ohio, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	60	1.0	0.457	0.457	2.2
Ethalfuralin	12	1.0	0.602	0.602	0.6
Glyphosate iso. salt	31	1.0	0.775	0.793	2.0
Halosulfuron	7	1.0	0.021	0.021	(²)
S-Metolachlor	3	1.0	1.239	1.239	0.3
Insecticides					
Carbaryl	44	2.4	0.942	2.236	8.0
Endosulfan	8	3.7	0.527	1.951	1.3
Esfenvalerate	1	1.8	0.036	0.066	(²)
Imidacloprid	17	1.0	0.224	0.224	0.3
Permethrin	10	2.7	0.118	0.322	0.3
Fungicides					
Azoxystrobin	19	2.2	0.178	0.396	0.6
Chlorothalonil	46	2.5	1.290	3.276	12.0
Copper hydroxide	7	3.3	0.443	1.448	0.8
Mancozeb	29	2.1	1.591	3.386	7.8
Myclobutanil	35	2.2	0.103	0.228	0.6
Pyraclostrobin	3	1.7	0.173	0.294	0.1
Sulfur	3	2.8	1.278	3.543	0.7
Thiophanate-methyl	2	2.4	0.350	0.828	0.1

¹ Planted acreage in 2006 for Ohio was 8,000 acres.

² Total applied is less than 50 lbs.

**Pumpkins: Agricultural Chemical Applications,
Pennsylvania, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clethodim	5	1.0	0.101	0.101	(²)
Clomazone	78	1.0	0.349	0.350	2.3
Ethalfuralin	65	1.0	0.783	0.784	4.4
Glyphosate iso. salt	52	1.0	1.428	1.480	6.6
Halosulfuron	15	1.1	0.034	0.037	(²)
S-Metolachlor	10	2.4	1.032	2.455	2.1
Insecticides					
Bifenthrin	49	2.0	0.049	0.096	0.4
Endosulfan	59	1.1	0.752	0.855	4.3
Esfenvalerate	5	1.9	0.035	0.067	(²)
Imidacloprid	11	1.1	0.134	0.149	0.1
Lambda-cyhalothrin	11	2.1	0.024	0.050	(²)
Methomyl	12	2.2	0.395	0.879	0.9
Permethrin	7	2.9	0.157	0.456	0.3
Fungicides					
Azoxystrobin	16	1.5	0.153	0.234	0.3
Boscalid	52	1.1	0.015	0.017	0.1
Chlorothalonil	83	1.8	1.434	2.586	18.2
Copper hydroxide	14	1.6	0.599	0.936	1.1
Copper resinate	5	2.9	0.061	0.176	0.1
Cymoxanil	9	2.1	0.102	0.215	0.2
Famoxadone	9	2.1	0.098	0.205	0.2
Mancozeb	15	1.5	1.587	2.420	3.1
Maneb	4	1.0	1.535	1.565	0.5
Mefenoxam	4	1.5	0.839	1.269	0.4
Myclobutanil	13	2.1	0.101	0.217	0.2
Pyraclostrobin	55	2.1	0.072	0.149	0.7

¹ Planted acreage in 2006 for Pennsylvania was 8,500 acres.

² Total applied is less than 50 lbs.

**Spinach, Fresh: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied**

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	6,100	99	1,031.0	99	1,440.9	(¹)		(¹)	
CA	38,000	89	5,403.6	77	1,755.9	55	1,026.3	43	520.0
TX	2,300	86	290.0	86	167.3	(¹)		(¹)	
Total	46,400	90	6,724.7	80	3,364.1	49	1,103.6	40	585.3

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Spinach, Fresh: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Arizona	6,100					
Nitrogen		99	3.9	43	171	1,031.0
Phosphate		99	1.3	187	239	1,440.9
Potash ¹						
Sulfur ¹						
California	38,000					
Nitrogen		89	2.2	73	159	5,403.6
Phosphate		77	1.9	32	60	1,755.9
Potash		55	2.3	22	49	1,026.3
Sulfur		43	1.6	20	32	520.0
Texas	2,300					
Nitrogen		86	2.0	75	147	290.0
Phosphate		86	1.1	77	85	167.3
Potash ¹						
Sulfur ¹						
Program States	46,400					
Nitrogen		90	3.0	54	164	6,724.7
Phosphate		80	1.5	102	155	3,364.1
Potash		49	2.0	23	47	1,103.6
Sulfur		40	1.5	21	31	585.3

¹ Insufficient reports to publish fertilizer data.

**Spinach, Fresh: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States			
	ALL	AZ	CA	TX
Herbicides				
Bensulide	*		*	
Clethodim	*	*		
Cycloate	*		P	*
DCPA	*	*		
Glyphosate iso. salt	*		*	
Phenmedipham	*		*	
Pronamide	*	*		
S-Metolachlor	P	P		P
Sethoxydim	*	*	*	
Insecticides				
Abamectin	P		P	
Acetamiprid	P	P	P	
Azadirachtin	P		P	
Benzoic acid	P	*	P	*
Bt subsp. aizawai	*	*	*	
Bt subsp. kurstaki	*	*	*	*
Carbaryl	*			*
Cyfluthrin	*	*	*	
Cyromazine	P		P	
Diazinon	P	*	P	*
Dimethoate	*	*	*	
Dinotefuran	*		*	
Emamectin benzoate	*	*	*	
Endosulfan	*		*	
Imidacloprid	P	P	P	P
Malathion	*			*
Methomyl	P	*	P	*
Neem oil, clar. hyd.	*		*	
Permethrin	P	P	P	P
Piperonyl butoxide	*		*	
Pymetrozine	P	*	*	
Pyrethrins	*	*	P	
Rotenone	P		P	
Spinosad	P	*	P	*
Spiromesifen	*		*	
Thiodicarb	*		*	
Zeta-cypermethrin	P	P	P	P

See footnote(s) at end of table.

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**Spinach, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States			
	ALL	AZ	CA	TX
Fungicides				
Azoxystrobin	*		P	*
Bacillus pumilus	P		P	
Bacillus subtilis	*		*	
Bacillus subtilis	*		*	
Borax decahydrate	*		*	
Chlorothalonil	P	*		*
Copper hydroxide	*			*
Fosetyl-al	*	*	P	
Maneb	*		*	
Mefenoxam	P	*	P	*
Mono-potassium salt	*		*	
Phosphorous acid	P	*	*	*
Pyraclostrobin	P	*	P	*
Other Chemicals				
Acibenzolar-S-Methyl	P		P	
Chloropicrin	*			*
Hydrogen peroxide	*	*	*	
Metam-potassium	*		*	
Metam-sodium	*		*	

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

**Spinach, Fresh: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	6,100	64	2.3	79	3.3	57	2.7	(²)	
CA	38,000	54	42.9	74	52.2	62	39.1	29	450.2
TX	2,300	38	1.2	70	2.3	64	2.2	(²)	
Total	46,400	54	46.4	74	57.8	61	44.0	24	450.9

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.

**Spinach, Fresh: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
S-Metolachlor	10	1.0	0.581	0.606	2.7
Insecticides					
Abamectin	9	1.0	0.010	0.010	(²)
Acetamiprid	5	1.1	0.062	0.068	0.1
Azadirachtin	2	1.1	0.012	0.013	(²)
Benzoic acid	5	1.3	0.108	0.136	0.3
Cyromazine	24	1.0	0.123	0.125	1.4
Diazinon	27	1.1	2.095	2.271	27.9
Imidacloprid	24	1.1	0.103	0.109	1.3
Methomyl	17	1.0	0.679	0.711	5.6
Permethrin	46	1.4	0.169	0.242	5.2
Pymetrozine	1	1.1	0.083	0.090	0.1
Rotenone	1	2.0	0.007	0.014	(²)
Spinosad	47	1.4	0.092	0.125	2.7
Zeta-cypermethrin	39	1.2	0.047	0.056	1.0
Fungicides					
Bacillus pumilus ³	2	1.0			
Chlorothalonil	4	1.3	0.927	1.171	2.0
Mefenoxam	48	1.0	0.611	0.639	14.2
Phosphorous acid	4	1.1	1.360	1.442	2.7
Pyraclostrobin	21	1.1	0.172	0.188	1.8
Other Chemicals					
Acibenzolar-S-Methyl	23	1.0	0.023	0.024	0.2

¹ Planted acreage in 2006 for the 3 Program States was 46,400 acres.

States included are AZ, CA, and TX.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Spinach, Fresh: Agricultural Chemical Applications,
Arizona, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
S-Metolachlor	63	1.1	0.550	0.578	2.2
Insecticides					
Acetamiprid	22	1.1	0.068	0.072	0.1
Imidacloprid	21	1.2	0.164	0.191	0.2
Permethrin	55	1.1	0.187	0.206	0.7
Zeta-cypermethrin	48	1.3	0.048	0.062	0.2

¹ Planted acreage in 2006 for Arizona was 6,100 acres.

**Spinach, Fresh: Agricultural Chemical Applications,
California, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Cycloate	49	1.0	2.114	2.150	40.0
Insecticides					
Abamectin	10	1.0	0.010	0.010	(²)
Acetamiprid	2	1.1	0.055	0.063	0.1
Azadirachtin	2	1.1	0.012	0.013	(²)
Benzoic acid	6	1.1	0.114	0.126	0.3
Cyromazine	29	1.0	0.123	0.125	1.4
Diazinon	29	1.1	2.221	2.374	25.9
Imidacloprid	24	1.0	0.103	0.105	1.0
Methomyl	16	1.0	0.658	0.667	4.0
Permethrin	47	1.4	0.167	0.241	4.3
Pyrethrins	1	1.8	0.008	0.015	(²)
Rotenone	1	2.0	0.007	0.014	(²)
Spinosad	49	1.4	0.092	0.128	2.4
Zeta-cypermethrin	39	1.1	0.048	0.055	0.8
Fungicides					
Azoxystrobin	3	1.3	0.186	0.234	0.3
Bacillus pumilus ³	2	1.0			
Fosetyl-al	20	1.0	2.702	2.797	20.8
Mefenoxam	53	1.0	0.646	0.654	13.2
Pyraclostrobin	20	1.1	0.174	0.193	1.5
Other Chemicals					
Acibenzolar-S-Methyl	28	1.0	0.023	0.024	0.2

¹ Planted acreage in 2006 for California was 38,000 acres.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Spinach, Fresh: Agricultural Chemical Applications,
Texas, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
S-Metolachlor	30	1.0	0.735	0.735	0.5
Insecticides					
Imidacloprid	42	1.3	0.043	0.058	0.1
Permethrin	19	3.2	0.160	0.518	0.2
Zeta-cypermethrin	19	2.8	0.029	0.082	(²)

¹ Planted acreage in 2006 for Texas was 2,300 acres.

² Total applied is less than 50 lbs.

Squash: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	8,300	76	695.6	48	257.6	50	317.3	11	31.3
FL	10,500	97	994.5	31	228.3	97	830.4	(¹)	
GA	13,500	99	1,535.0	82	608.1	94	1,473.6	(¹)	
MI	8,700	98	660.7	74	413.3	70	775.6	25	44.7
NJ	2,900	86	315.7	82	209.5	86	411.2	(¹)	
NY	4,000	62	195.0	58	145.4	89	423.0	(¹)	
NC	4,300	99	298.4	95	235.5	96	376.2	5	2.5
Total	52,200	91	4,694.9	64	2,097.8	83	4,607.2	13	217.6

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Squash: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	8,300					
Nitrogen		76	3.7	29	110	695.6
Phosphate		48	2.0	33	65	257.6
Potash		50	1.9	41	76	317.3
Sulfur		11	1.6	22	35	31.3
Florida	10,500					
Nitrogen		97	6.5	15	98	994.5
Phosphate		31	8.9	8	70	228.3
Potash		97	6.5	13	82	830.4
Sulfur ¹						
Georgia	13,500					
Nitrogen		99	19.5	6	115	1,535.0
Phosphate		82	11.8	5	55	608.1
Potash		94	20.0	6	116	1,473.6
Sulfur ¹						
Michigan	8,700					
Nitrogen		98	3.7	21	78	660.7
Phosphate		74	3.9	17	64	413.3
Potash		70	4.1	31	128	775.6
Sulfur		25	1.2	17	20	44.7
New Jersey	2,900					
Nitrogen		86	3.0	42	127	315.7
Phosphate		82	2.5	35	88	209.5
Potash		86	3.0	56	166	411.2
Sulfur ¹						
New York	4,000					
Nitrogen		62	1.8	44	78	195.0
Phosphate		58	1.2	51	62	145.4
Potash		89	1.3	92	119	423.0
Sulfur ¹						
North Carolina	4,300					
Nitrogen		99	1.7	41	70	298.4
Phosphate		95	1.2	50	58	235.5
Potash		96	1.3	69	91	376.2
Sulfur		5	1.0	12	12	2.5

See footnote(s) at end of table.

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**Squash: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006 (continued)**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Program States	52,200					
Nitrogen		91	5.8	16	96	4,694.9
Phosphate		64	4.5	15	66	2,097.8
Potash		83	5.8	19	110	4,607.2
Sulfur		13	9.5	3	27	217.6

¹ Insufficient reports to publish fertilizer data.

**Squash: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States							
	ALL	CA	FL	GA	MI	NJ	NY	NC
Herbicides								
2,4-D, dimeth. salt	*						*	
Bensulide	P	*			*	P	*	*
Clethodim	*				*		*	
Clomazone	P			*	P	P	P	*
Ethalfuralin	P	*	*	P	P	P	P	P
Glyphosate iso. salt	P	*	P	*	P		P	P
Halosulfuron	P			*	P	*	P	
Imazethapyr	*						*	
Napropamide	*			*		*	*	*
Naptalam	*					*		
Oxyfluorfen	*	*						
Paraquat	P		*	*		*		P
Pendimethalin	P		*	*	*	*	*	*
Quizalofop-ethyl	*				*			
S-Metolachlor	P		*	*	P	*	*	
Sethoxydim	P			*	*		*	*
Trifluralin	P	*	*	*	*		P	
Insecticides								
Abamectin	*	*						
Acephate	P		*	*				P
Acetamiprid	*			*		*		
Azadirachtin	*		*		*			
Azinphos-methyl	*						*	
Benzoic acid	P	*	*	*				
Bifenthrin	P	*	*	P	*	*		*
Bt subsp. aizawai	P		*	*				
Bt subsp. kurstaki	P	*	P	*	*			*
Buprofezin	*			*				
Canola oil	*			*				
Carbaryl	P		P	P	P	P	P	P
Carbofuran	P				*	*		
Chlorpyrifos	*		*	*				*
Cyfluthrin	P		*	*			*	*
Diazinon	P				*	*	*	*
Dicofol	*		*					
Dimethoate	*					*		
Disulfoton	*							*
Endosulfan	P		P	P	P	P	P	P
Esfenvalerate	P	*	*	P	P	P	P	P
Gamma-cyhalothrin	*				*			
Imidacloprid	P	*	*	P	P	*	P	*
Lambda-cyhalothrin	P			*	P		*	

See footnote(s) at end of table.

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**Squash: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	FL	GA	MI	NJ	NY	NC
Insecticides (continued)								
Malathion	P	*	*	*	*	*	*	*
Methomyl	P	*	P	*	*	P	P	*
Methoxychlor	*				*			
Naled	*		*		*			
Neem oil, clar. hyd.	*	*			*			
Oxamyl	*	*	*					
Oxydemeton-methyl	*	*				*		
Permethrin	P	*		P	P	*	P	P
Petroleum distillate	P		*	P	*			
Phosmet	*				*			
Potassium salts	*	*						
Pymetrozine	P	P			*		*	
Pyrethrins	P	*		*	P	*	*	
Pyriproxyfen	*			*				
Rotenone	*	*			*			
Spinosad	P	P	*	*		*	*	*
Spiromesifen	*	*		*				
Thiacloprid	*				*			
Thiamethoxam	*	*			*			
Trichlorfon	*				*			
Zeta-cypermethrin	P			*	*		*	
Fungicides								
Azoxystrobin	P	*	*	*	P	*	P	P
Bacillus subtilis	*	*	*					
Basic copper sulfate	P			*	P		*	
Benomyl	*							*
Borax decahydrate	*			*				
Boscalid	P		*	*	*	*	P	*
Captan	*				*		*	
Chlorothalonil	P	*	*	P	P	P	P	P
Copper hydroxide	P	*	*	*	P	P	P	P
Copper octanoate	*				*			
Copper oxychlo. sul.	*						*	
Copper oxychloride	P				*		*	
Copper resinate	P				*	P		*
Copper sulfate	P				*	*	*	*
Cyazofamid	*				*			*
Cymoxanil	P		*	*	P	P	*	*
Dimethomorph	P				*	P	*	*
Etridiazole	*							*
Famoxadone	P		*	*	P	P	*	*
Fosetyl-al	*				*			

See footnote(s) at end of table.

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**Squash: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	FL	GA	MI	NJ	NY	NC
Fungicides (continued)								
Iprodione	*						*	
Mancozeb	P	*	P	*	P	P	P	P
Maneb	P		P	P	P	P	*	*
Mefenoxam	P			*	*	P		P
Metalaxyl	P				*	*		*
Myclobutanil	P	P	*	*	P	P	P	*
PCNB	*							*
Phosphorous acid	P		*	*	*	*	*	
Potassium bicarbon.	*	*						
Propamocarb hydroch.	P			*	P	*		*
Pyraclostrobin	P	*	P	P	P	*	P	P
Quinoline	P						P	
Sulfur	P	P	*		*		*	*
Thiophanate-methyl	P		*		P		*	*
Trifloxystrobin	P	*			*	*	*	*
Triflumizole	*						*	
Zoxamide	*			*		*		*
Other Chemicals								
Chloropicrin	P		*	*				P
Dichloropropene	P			P				
Ethephon	*	*						
Gibberellic acid	*			*	*			
Hydrogen peroxide	*				*		*	
Metam-sodium	P			P				
Methyl bromide	P		*	*				P
NAA	*			*				

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

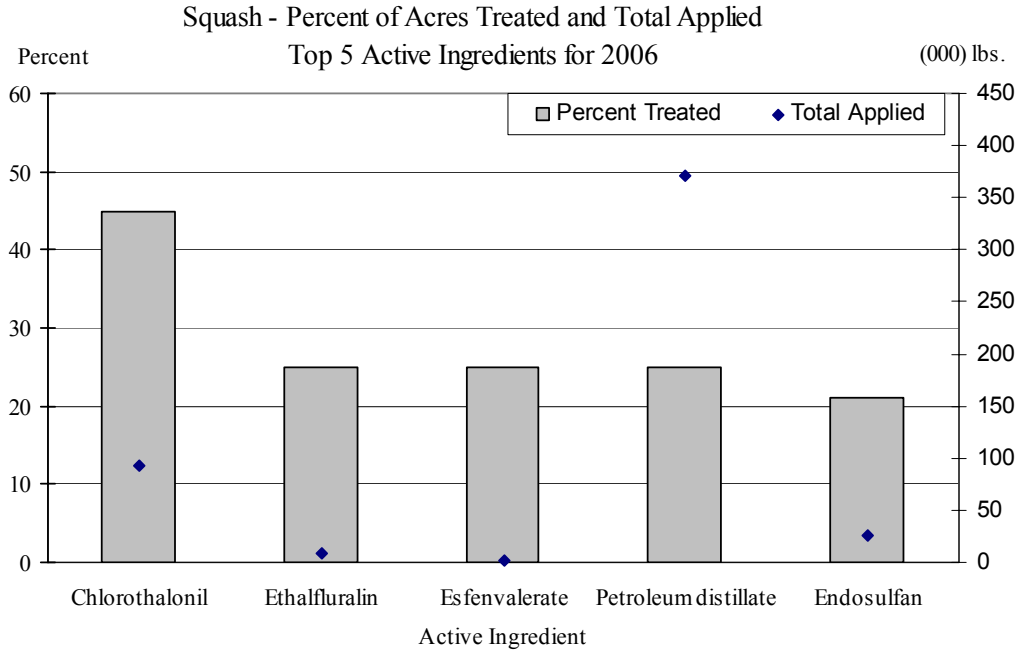
**Squash: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	8,300	3	0.3	21	1.0	16	14.1	(²)	
FL	10,500	8	0.4	70	87.4	72	20.6	(²)	
GA	13,500	39	3.5	98	318.3	94	96.8	48	743.4
MI	8,700	82	8.0	80	7.5	85	50.6	(²)	
NJ	2,900	48	1.1	75	4.2	85	17.9		
NY	4,000	39	1.9	67	1.0	76	9.9	(²)	
NC	4,300	35	1.9	77	4.6	67	7.1	4	29.2
Total	52,200	34	17.2	72	423.9	71	217.0	13	773.0

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.



**Squash: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	1	1.0	2.696	2.699	1.4
Clomazone	13	1.0	0.291	0.302	2.0
Ethalfuralin	25	1.0	0.650	0.650	8.5
Glyphosate iso. salt	2	1.0	0.936	0.960	1.2
Halosulfuron	4	1.0	0.027	0.027	0.1
Paraquat	1	1.0	0.781	0.782	0.5
Pendimethalin	1	1.0	0.719	0.719	0.2
S-Metolachlor	6	1.0	0.928	0.928	2.9
Sethoxydim	*	1.0	0.564	0.564	0.1
Trifluralin	*	1.1	0.777	0.888	0.2
Insecticides					
Acephate	*	2.4	1.080	2.591	0.6
Benzoic acid	3	4.5	0.124	0.558	0.9
Bifenthrin	15	2.7	0.068	0.181	1.4
Bt subsp. aizawai ²	7	2.0			
Bt subsp. kurstaki ²	3	10.0			
Carbaryl	12	2.1	0.767	1.626	9.8
Carbofuran	3	1.0	0.436	0.441	0.8
Cyfluthrin	*	3.0	0.039	0.116	(³)
Diazinon	*	1.1	0.683	0.753	0.1
Endosulfan	21	4.0	0.596	2.401	26.1
Esfenvalerate	25	3.1	0.039	0.122	1.6
Imidacloprid	4	1.2	0.175	0.210	0.4
Lambda-cyhalothrin	1	1.8	0.023	0.043	(³)
Malathion	1	1.5	1.128	1.668	0.7
Methomyl	3	9.0	0.318	2.856	4.5
Permethrin	10	2.5	0.153	0.384	2.0
Petroleum distillate	25	8.2	3.424	27.995	371.3
Pymetrozine	1	2.4	0.086	0.208	0.1
Pyrethrins	*	1.5	0.021	0.032	(³)
Spinosad	2	2.0	0.081	0.159	0.2
Zeta-cypermethrin	1	7.7	0.028	0.213	0.2
Fungicides					
Azoxystrobin	4	2.0	0.206	0.408	0.9
Basic copper sulfate	2	4.2	0.486	2.053	1.8
Boscalid	3	1.0	0.012	0.012	(³)
Chlorothalonil	45	3.1	1.272	3.984	93.6
Copper hydroxide	13	3.3	0.517	1.683	11.6
Copper oxychloride	1	4.0	1.167	4.711	3.1
Copper resinate	2	1.6	0.100	0.163	0.2
Copper sulfate	*	1.1	0.493	0.541	0.1

See footnote(s) at end of table.

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**Squash: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Cymoxanil	16	2.4	0.124	0.299	2.4
Dimethomorph	3	2.3	0.194	0.439	0.8
Famoxadone	16	2.4	0.124	0.299	2.4
Mancozeb	16	3.7	0.754	2.802	23.7
Maneb	20	3.3	1.204	3.913	40.8
Mefenoxam	2	1.9	0.185	0.355	0.4
Metalaxyl	1	4.9	0.164	0.803	0.3
Myclobutanil	7	1.5	0.113	0.170	0.6
Phosphorous acid	1	1.5	1.177	1.744	0.7
Propamocarb hydroch.	6	4.5	0.796	3.571	11.1
Pyraclostrobin	9	1.5	0.110	0.162	0.8
Quinoline	1	1.4	0.044	0.061	(³)
Sulfur	3	1.7	8.483	14.017	19.7
Thiophanate-methyl	2	1.6	0.341	0.539	0.7
Trifloxystrobin	1	1.2	0.082	0.098	(³)
Other Chemicals					
Chloropicrin	1	1.0	59.438	59.438	21.0
Dichloropropene	10	1.0	79.666	79.666	433.1
Metam-sodium	2	1.0	45.982	47.048	60.9
Methyl bromide	3	1.0	156.371	156.371	257.9

*Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 7 Program States was 52,200 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.

³ Total applied is less than 50 lbs.

**Squash: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides					
Pymetrozine	4	1.1	0.086	0.093	(²)
Spinosad	9	1.7	0.086	0.144	0.1
Fungicides					
Myclobutanil	10	1.7	0.117	0.194	0.2
Sulfur	4	3.0	12.466	37.731	13.8

¹ Planted acreage in 2006 for California was 8,300 acres.

² Total applied is less than 50 lbs.

**Squash: Agricultural Chemical Applications,
Florida, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Glyphosate iso. salt	*	1.5	1.161	1.775	(²)
Insecticides					
Bt subsp. kurstaki ³	11	12.1			
Carbaryl	*	2.0	0.531	1.061	(²)
Endosulfan	5	2.7	0.778	2.128	1.1
Methomyl	8	14.8	0.304	4.512	4.0
Fungicides					
Mancozeb	56	3.8	0.520	1.977	11.6
Maneb	7	3.0	1.075	3.215	2.2
Pyraclostrobin	3	1.7	0.068	0.113	(²)

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Florida was 10,500 acres.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Squash: Agricultural Chemical Applications,
Georgia, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Ethalfuralin	34	1.0	0.445	0.445	2.0
Insecticides					
Bifenthrin	50	2.8	0.068	0.194	1.3
Carbaryl	*	3.2	0.851	2.738	(²)
Endosulfan	64	4.3	0.584	2.537	22.1
Esfenvalerate	50	4.1	0.041	0.170	1.1
Imidacloprid	10	1.1	0.150	0.167	0.2
Permethrin	11	3.0	0.200	0.594	0.9
Petroleum distillate	55	11.6	3.375	39.088	289.8
Fungicides					
Chlorothalonil	82	3.6	1.024	3.724	41.2
Maneb	54	3.8	1.224	4.629	33.9
Pyraclostrobin	17	1.8	0.123	0.219	0.5
Other Chemicals					
Dichloropropene	40	1.0	79.666	79.666	433.1
Metam-sodium	10	1.0	45.982	47.048	60.9

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Georgia was 13,500 acres.

² Total applied is less than 50 lbs.

**Squash: Agricultural Chemical Applications,
Michigan, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	37	1.0	0.328	0.336	1.1
Ethalfuralin	62	1.0	0.791	0.791	4.3
Glyphosate iso. salt	5	1.0	0.881	0.918	0.4
Halosulfuron	17	1.0	0.026	0.026	(²)
S-Metolachlor	8	1.0	1.639	1.639	1.2
Insecticides					
Carbaryl	31	1.9	0.764	1.415	3.8
Endosulfan	9	2.1	0.619	1.308	1.0
Esfenvalerate	28	2.9	0.035	0.102	0.2
Imidacloprid	2	1.5	0.124	0.189	(²)
Lambda-cyhalothrin	*	1.1	0.020	0.022	(²)
Permethrin	19	2.3	0.152	0.348	0.6
Pyrethrins	*	1.3	0.022	0.029	(²)
Fungicides					
Azoxystrobin	1	1.2	0.184	0.223	(²)
Basic copper sulfate	7	4.1	0.332	1.349	0.9
Chlorothalonil	71	3.1	1.519	4.647	28.6
Copper hydroxide	39	4.4	0.409	1.799	6.1
Cymoxanil	25	2.0	0.124	0.250	0.6
Famoxadone	25	2.0	0.124	0.249	0.5
Mancozeb	6	2.4	1.610	3.783	1.9
Maneb	7	2.9	1.037	2.979	1.8
Myclobutanil	11	1.7	0.091	0.151	0.1
Propamocarb hydroch.	19	4.3	0.753	3.213	5.4
Pyraclostrobin	14	1.1	0.139	0.147	0.2
Thiophanate-methyl	8	2.1	0.294	0.612	0.4

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Michigan was 8,700 acres.

² Total applied is less than 50 lbs.

**Squash: Agricultural Chemical Applications,
New Jersey, 2006 ¹**

Active Ingredient	Area Applied	Appli- cations	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	4	1.0	2.666	2.666	0.3
Clomazone	32	1.2	0.139	0.164	0.2
Ethalfluralin	25	1.0	0.357	0.357	0.3
Insecticides					
Carbaryl	29	5.0	0.591	2.934	2.4
Endosulfan	25	2.7	0.612	1.667	1.2
Esfenvalerate	7	1.7	0.033	0.058	(²)
Methomyl	5	1.9	0.427	0.826	0.1
Fungicides					
Chlorothalonil	73	3.5	1.827	6.453	13.7
Copper hydroxide	36	3.2	0.542	1.706	1.8
Copper resinate	5	2.4	0.069	0.163	(²)
Cymoxanil	7	1.6	0.115	0.186	(²)
Dimethomorph	27	2.4	0.195	0.474	0.4
Famoxadone	7	1.6	0.115	0.186	(²)
Mancozeb	4	1.2	1.395	1.708	0.2
Maneb	10	2.5	1.367	3.470	1.0
Mefenoxam	21	2.0	0.207	0.409	0.3
Myclobutanil	10	2.1	0.100	0.208	0.1

¹ Planted acreage in 2006 for New Jersey was 2,900 acres.

² Total applied is less than 50 lbs.

**Squash: Agricultural Chemical Applications,
New York, 2006¹**

Active Ingredient	Area Applied	Appli- cations	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clomazone	30	1.0	0.397	0.397	0.5
Ethalfluralin	27	1.0	0.996	0.996	1.1
Glyphosate iso. salt	2	1.1	1.108	1.176	0.1
Halosulfuron	20	1.0	0.028	0.028	(²)
Trifluralin	3	1.3	0.739	0.956	0.1
Insecticides					
Carbaryl	6	1.6	0.873	1.405	0.3
Endosulfan	2	1.8	0.663	1.173	0.1
Esfenvalerate	16	1.8	0.036	0.064	(²)
Imidacloprid	3	1.1	0.164	0.181	(²)
Methomyl	1	1.7	0.427	0.730	(²)
Permethrin	41	2.4	0.102	0.249	0.4
Fungicides					
Azoxystrobin	8	1.4	0.179	0.243	0.1
Boscalid	15	1.0	0.014	0.014	(²)
Chlorothalonil	57	1.4	1.422	2.016	4.6
Copper hydroxide	52	1.7	0.886	1.547	3.2
Mancozeb	6	1.7	1.013	1.676	0.4
Myclobutanil	36	1.2	0.131	0.163	0.2
Pyraclostrobin	15	1.0	0.001	0.001	(²)
Quinoline	14	1.4	0.044	0.061	(²)

¹ Planted acreage in 2006 for New York was 4,000 acres.

² Total applied is less than 50 lbs.

**Squash: Agricultural Chemical Applications,
North Carolina, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Ethalfuralin	26	1.0	0.691	0.691	0.8
Glyphosate iso. salt	13	1.0	0.994	0.994	0.6
Paraquat	10	1.0	0.860	0.860	0.4
Insecticides					
Acephate	5	2.4	1.118	2.728	0.6
Carbaryl	52	1.5	0.967	1.426	3.2
Endosulfan	3	6.7	0.742	4.986	0.6
Esfenvalerate	61	1.4	0.028	0.038	0.1
Permethrin	5	1.8	0.141	0.253	0.1
Fungicides					
Azoxystrobin	15	1.2	0.218	0.267	0.2
Chlorothalonil	25	1.9	1.904	3.701	4.0
Copper hydroxide	4	1.6	0.543	0.856	0.1
Mancozeb	8	1.5	1.313	2.004	0.7
Mefenoxam	7	1.7	0.193	0.327	0.1
Pyraclostrobin	5	1.5	0.106	0.160	(²)
Other Chemicals					
Chloropicrin	4	1.0	55.201	55.201	9.5
Methyl bromide	4	1.0	113.909	113.909	19.7

¹ Planted acreage in 2006 for North Carolina was 4,300 acres.

² Total applied is less than 50 lbs.

**Strawberries: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied**

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	35,800	97	7,435.8	89	4,085.7	91	6,458.8	22	431.0
FL	7,400	98	829.2	84	276.3	98	992.8	19	5.4
OR	3,100	96	121.0	89	144.4	96	258.7	42	33.6
WA	1,400	97	105.9	97	184.0	79	128.3	29	11.9
Total	47,700	97	8,492.0	88	4,690.3	92	7,838.6	23	481.9

**Strawberries: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	35,800					
Nitrogen		97	12.4	17	215	7,435.8
Phosphate		89	8.1	16	128	4,085.7
Potash		91	8.6	23	199	6,458.8
Sulfur		22	8.5	7	56	431.0
Florida	7,400					
Nitrogen		98	74.2	2	114	829.2
Phosphate		84	75.1	1	44	276.3
Potash		98	74.0	2	137	992.8
Sulfur		19	20.5	0	4	5.4
Oregon	3,100					
Nitrogen		96	1.6	26	41	121.0
Phosphate		89	1.3	41	52	144.4
Potash		96	1.4	63	87	258.7
Sulfur		42	1.1	24	26	33.6
Washington	1,400					
Nitrogen		97	1.9	41	78	105.9
Phosphate		97	1.8	77	136	184.0
Potash		79	1.9	61	116	128.3
Sulfur		29	1.3	23	30	11.9
Program States	47,700					
Nitrogen		97	28.9	6	163	8,492.0
Phosphate		88	25.5	4	99	4,690.3
Potash		92	27.6	6	166	7,838.6
Sulfur		23	9.6	4	37	481.9

**Strawberries: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States				
	ALL	CA	FL	OR	WA
Acequinocyl	*	*			
Herbicides					
2,4-D, dimeth. salt	*			*	
Clethodim	P			*	*
Clopyralid	*			*	*
DCPA	*				*
Diuron	*			*	
Glufosinate-ammonium	*			*	
Glyphosate iso. salt	P	*	P	*	
Metribuzin	*		*		
Napropamide	P	P	*	*	P
Oxyfluorfen	*	*		*	
Paraquat	P	P	*	*	*
Pendimethalin	P			*	*
Sethoxydim	*				*
Simazine	P			*	*
Sulfentrazone	P			P	P
Terbacil	P			*	*
Insecticides					
Abamectin	P	P	P	*	*
Azadirachtin	P	P	*	*	
Azinphos-methyl	*		*		
Benzoic acid	*	P	*		
Bifenazate	P	P	*		*
Bifenthrin	P	P	P	P	P
Bt subsp. aizawai	P	P	P		
Bt subsp. kurstaki	P	P	P	*	*
Carbaryl	P	*	*	*	
Chlorethoxyfos	*			*	
Chlorpyrifos	P	P	*	*	
Diazinon	P	*	P	*	*
Dicofol	*	*			
Dimethoate	*	*			
Endosulfan	P		*	P	*
Esfenvalerate	*			*	
Ethyl parathion	*	*			
Etoxazole	*	P		*	
Fenbutatin-oxide	*		*		*
Fenpropathrin	*	P	*		
Hexythiazonx	P	P	*		*
Imidacloprid	P	P		*	*

See footnote(s) at end of table.

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**Strawberries: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States				
	ALL	CA	FL	OR	WA
Insecticides (continued)					
Malathion	P	P	*	*	
Methomyl	P	P	P		
Naled	P	P	P		
Neem oil, clar. hyd.	*	*			
Oxydemeton-methyl	P			*	*
Piperonyl butoxide	*	*			
Potassium salts	*			*	
Pyrethrins	*	P	*		
Pyriproxyfen	*	*			
Rotenone	*	*	*		
Spinosad	P	P	P		
Spiromesifen	*	P	*		
Thiamethoxam	P	P	*		*
Fungicides					
Azoxystrobin	P	P	P	*	*
Bacillus pumilus	*	*	*		
Bacillus subtilis	*	*			
Bacillus subtilis	P	*	*		
Benomyl	*	*	*		
Borax decahydrate	*	P	*		
Boscalid	P	P	P	P	P
Captan	P	P	P	P	P
Chlorothalonil	*	*	*		
Copper hydroxide	P	*	*		*
Copper resinate	*	*			
Cyprodinil	P	P	P	P	P
Dodine	*			*	
Fenhexamid	P	P	P	P	P
Fludioxonil	P	P	P	P	P
Fosetyl-al	P	P		*	*
Iprodione	*	*	*		
Mefenoxam	*	P	*		
Myclobutanil	P	P	*	*	P
Phosphorous acid	P	*		*	
Potassium bicarbon.	P	P	*	*	
Pyraclostrobin	P	P	P	P	P
Pyrimethanil	P	P	*		*
Streptomycin	*		*		
Sulfur	P	P	P		
Thiophanate-methyl	P	P	P		
Thiram	P	P	P	*	*
Triflumizole	P	P	P		
Other Chemicals					
Chloropicrin	P	P	P		

See footnote(s) at end of table.

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**Strawberries: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States				
	ALL	CA	FL	OR	WA
Other Chemicals (continued)					
Dichloropropene	*	P	*		
Flumetralin	*			*	
Harpin protein	P	*	*		
Hydrogen peroxide	P	*	*		
Iron phosphate	*	*			
Maleic hydrazide	*		*		
Metaldehyde	P	*		P	*
Metam-sodium	*	P	*		
Methyl bromide	P	P	P		

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

**Strawberries: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	35,800	13	3.7	80	92.4	87	697.0	60	6,532.6
FL	7,400	27	5.3	98	30.1	98	442.5	35	1,413.6
OR	3,100	90	3.3	43	2.7	88	16.6	(²)	
WA	1,400	88	0.7	67	0.3	94	4.4	(²)	
Total	47,700	22	13.0	80	125.6	89	1,160.4	53	7,947.5

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

² Insufficient reports to publish data for pesticide class.

**Strawberries: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clethodim	1	1.1	0.148	0.158	0.1
Glyphosate iso. salt	5	1.9	1.101	2.112	5.2
Napropamide	5	1.2	1.185	1.433	3.4
Paraquat	2	1.3	0.447	0.594	0.5
Pendimethalin	*	1.0	0.991	0.991	0.1
Simazine	4	1.1	0.918	0.993	1.9
Sulfentrazone	7	1.1	0.274	0.304	1.0
Terbacil	2	1.0	0.224	0.224	0.2
Insecticides					
Abamectin	13	1.4	0.016	0.022	0.1
Azadirachtin	9	4.1	0.012	0.049	0.2
Bifenazate	36	1.4	0.493	0.683	11.8
Bifenthrin	15	1.7	0.310	0.518	3.6
Bt subsp. aizawai ²	11	1.8			
Bt subsp. kurstaki ²	43	2.3			
Carbaryl	9	1.3	1.275	1.601	6.6
Chlorpyrifos	7	1.2	0.881	1.032	3.7
Diazinon	4	1.5	0.867	1.301	2.7
Endosulfan	2	1.2	1.063	1.314	1.6
Hexythiazonx	13	1.1	0.170	0.193	1.2
Imidacloprid	2	1.1	0.414	0.460	0.4
Malathion	28	1.7	1.883	3.158	41.6
Methomyl	36	2.3	0.797	1.857	32.2
Naled	11	2.0	0.891	1.776	9.2
Oxydemeton-methyl	*	1.0	0.500	0.500	0.1
Spinosad	45	1.8	0.087	0.158	3.4
Thiamethoxam	10	1.2	0.061	0.071	0.4
Fungicides					
Azoxystrobin	26	1.6	0.192	0.314	3.9
Bacillus subtilis ²	7	2.2			
Boscalid	58	1.8	0.020	0.036	1.0
Captan	76	6.5	1.957	12.680	460.1
Copper hydroxide	1	2.8	0.521	1.454	0.9
Cyprodinil	47	2.0	0.312	0.632	14.3
Fenhexamid	54	1.7	0.668	1.143	29.2
Fludioxonil	47	2.0	0.208	0.421	9.5
Fosetyl-al	12	1.4	2.969	4.055	23.9
Myclobutanil	33	1.3	0.105	0.141	2.2
Phosphorous acid	*	1.6	1.586	2.577	0.6
Potassium bicarbon.	2	2.1	1.805	3.809	4.2
Pyraclostrobin	64	1.9	0.023	0.043	1.3

See footnote(s) at end of table.

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**Strawberries: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Pyrimethanil	31	1.3	0.569	0.725	10.8
Sulfur	61	4.7	3.351	15.895	461.9
Thiophanate-methyl	20	3.3	0.696	2.306	21.8
Thiram	19	6.9	1.606	11.125	102.0
Triflumizole	27	1.9	0.242	0.451	5.7
Other Chemicals					
Chloropicrin	43	1.1	117.797	135.000	2,744.9
Harpin protein	3	2.0	0.011	0.023	(³)
Hydrogen peroxide	1	1.1	2.074	2.362	0.9
Metaldehyde	3	1.2	0.797	0.934	1.5
Methyl bromide	39	1.0	186.473	195.700	3,639.6

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 4 Program States was 47,700 acres.

States included are CA, FL, OR, and WA.

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

³ Total applied is less than 50 lbs.

**Strawberries: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Napropamide	6	1.2	1.125	1.392	2.9
Paraquat	2	1.3	0.400	0.521	0.4
Insecticides					
Abamectin	14	1.4	0.016	0.022	0.1
Azadirachtin	8	1.3	0.034	0.043	0.1
Benzoic acid	13	1.3	0.166	0.210	1.0
Bifenazate	35	1.1	0.490	0.552	6.9
Bifenthrin	11	1.6	0.097	0.153	0.6
Bt subsp. aizawai ²	12	1.4			
Bt subsp. kurstaki ²	44	1.8			
Chlorpyrifos	7	1.1	1.000	1.116	2.7
Etoxazole	10	1.1	0.135	0.148	0.5
Fenpropathrin	16	1.4	0.292	0.403	2.4
Hexythiazox	16	1.1	0.169	0.194	1.1
Imidacloprid	2	1.1	0.460	0.518	0.4
Malathion	35	1.7	1.920	3.199	40.2
Methomyl	37	1.6	0.900	1.458	19.3
Naled	10	1.6	0.822	1.335	4.8
Pyrethrins	4	1.1	0.046	0.050	0.1
Spinosad	52	1.4	0.092	0.125	2.3
Spiromesifen	11	1.1	0.239	0.261	1.1
Thiamethoxam	13	1.2	0.060	0.071	0.3
Fungicides					
Azoxystrobin	27	1.2	0.209	0.260	2.5
Borax decahydrate	6	3.0	0.035	0.104	0.2
Boscalid	65	1.8	0.020	0.036	0.9
Captan	76	4.2	2.054	8.631	233.4
Cyprodinil	48	2.0	0.307	0.618	10.5
Fenhexamid	58	1.6	0.688	1.111	23.1
Fludioxonil	48	2.0	0.205	0.412	7.0
Fosetyl-al	13	1.0	2.906	3.004	13.9
Mefenoxam	28	1.2	0.457	0.535	5.4
Myclobutanil	42	1.3	0.105	0.141	2.1
Potassium bicarbon.	2	1.5	2.066	3.013	1.9
Pyraclostrobin	70	1.9	0.021	0.041	1.0
Pyrimethanil	39	1.3	0.567	0.726	10.2
Sulfur	71	4.6	3.132	14.562	368.8
Thiophanate-methyl	10	1.4	0.679	0.932	3.3
Thiram	9	1.2	1.988	2.444	7.9
Triflumizole	25	1.5	0.241	0.369	3.3

See footnote(s) at end of table.

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**Strawberries: Agricultural Chemical Applications,
California, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Other Chemicals					
Chloropicrin	51	1.2	122.461	142.223	2,616.9
Dichloropropene	18	1.3	150.158	193.461	1,256.9
Metam-sodium	6	1.0	124.413	130.169	301.8
Methyl bromide	32	1.1	190.412	205.709	2,356.6

¹ Planted acreage in 2006 for California was 35,800 acres.

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

**Strawberries: Agricultural Chemical Applications,
Florida, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Glyphosate iso. salt	25	2.1	1.275	2.730	5.1
Insecticides					
Abamectin	6	2.0	0.013	0.025	(²)
Bifenthrin	27	2.1	0.681	1.457	2.9
Bt subsp. aizawai ³	9	5.0			
Bt subsp. kurstaki ³	63	4.1			
Diazinon	5	2.5	0.970	2.471	0.9
Methomyl	55	4.6	0.681	3.142	12.9
Naled	22	2.8	0.980	2.762	4.4
Spinosad	35	5.1	0.079	0.401	1.0
Fungicides					
Azoxystrobin	35	3.1	0.166	0.520	1.4
Boscalid	25	2.2	0.018	0.039	0.1
Captan	98	16.5	1.862	30.671	221.4
Cyprodinil	33	3.2	0.323	1.036	2.5
Fenhexamid	37	2.9	0.570	1.674	4.6
Fludioxonil	33	3.2	0.215	0.690	1.7
Pyraclostrobin	38	2.0	0.049	0.099	0.3
Sulfur	50	5.4	4.637	24.942	93.1
Thiophanate-methyl	79	4.5	0.699	3.140	18.5
Thiram	73	10.9	1.572	17.094	92.8
Triflumizole	50	2.7	0.244	0.650	2.4
Other Chemicals					
Chloropicrin	26	1.0	66.214	66.214	127.9
Methyl bromide	97	1.0	179.646	179.646	1,283.0

¹ Planted acreage in 2006 for Florida was 7,400 acres.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Strawberries: Agricultural Chemical Applications,
Oregon, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Sulfentrazone	75	1.1	0.297	0.340	0.8
Insecticides					
Bifenthrin	5	1.3	0.108	0.137	(²)
Endosulfan	32	1.2	0.966	1.159	1.1
Fungicides					
Boscalid	54	1.3	0.020	0.025	(²)
Captan	32	1.1	2.343	2.499	2.5
Cyprodinil	71	1.2	0.336	0.415	0.9
Fenhexamid	59	1.0	0.729	0.736	1.3
Fludioxonil	71	1.2	0.224	0.277	0.6
Pyraclostrobin	54	1.3	0.001	0.001	(²)
Other Chemicals					
Metaldehyde	48	1.1	0.729	0.829	1.2

¹ Planted acreage in 2006 for Oregon was 3,100 acres.

² Total applied is less than 50 lbs.

**Strawberries: Agricultural Chemical Applications,
Washington, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Napropamide	9	1.0	1.915	1.915	0.2
Sulfentrazone	71	1.0	0.215	0.220	0.2
Insecticides					
Bifenthrin	58	1.1	0.096	0.104	0.1
Fungicides					
Boscalid	49	1.2	0.019	0.024	(²)
Captan	73	1.5	1.840	2.708	2.8
Cyprodinil	64	1.1	0.325	0.344	0.3
Fenhexamid	9	1.0	0.736	0.752	0.1
Fludioxonil	64	1.1	0.217	0.229	0.2
Myclobutanil	10	1.0	0.063	0.066	(²)
Pyraclostrobin	49	1.2	0.001	0.001	(²)

¹ Planted acreage in 2006 for Washington was 1,400 acres.

² Total applied is less than 50 lbs.

Tomatoes, Fresh: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	41,400	96	9,682.8	93	5,116.5	89	6,432.7	68	4,358.6
FL	41,200	100	10,578.6	100	5,474.6	100	19,631.7	37	2,597.2
GA	6,200	100	508.2	99	403.4	100	674.6	95	144.7
NJ	3,100	98	431.1	96	400.1	98	528.6	(¹)	
NC	2,800	99	262.0	98	324.4	98	443.8	18	7.3
OH	6,700	93	573.1	93	445.7	93	951.0	(¹)	
TN	4,200	97	755.6	97	893.1	97	1,323.1	(¹)	
Total	105,600	98	22,791.5	96	13,057.7	95	29,985.5	47	7,131.3

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Tomatoes, Fresh: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	41,400					
Nitrogen		96	10.6	23	243	9,682.8
Phosphate		93	2.5	53	133	5,116.5
Potash		89	5.9	30	174	6,432.7
Sulfur		68	12.9	12	156	4,358.6
Florida	41,200					
Nitrogen		100	4.1	63	257	10,578.6
Phosphate		100	1.6	83	133	5,474.6
Potash		100	4.1	117	477	19,631.7
Sulfur		37	2.7	64	170	2,597.2
Georgia	6,200					
Nitrogen		100	10.4	8	82	508.2
Phosphate		99	1.2	57	66	403.4
Potash		100	8.9	12	109	674.6
Sulfur		95	1.1	22	25	144.7
New Jersey	3,100					
Nitrogen		98	3.8	37	142	431.1
Phosphate		96	3.8	35	134	400.1
Potash		98	3.8	46	174	528.6
Sulfur ¹						
North Carolina	2,800					
Nitrogen		99	2.1	46	94	262.0
Phosphate		98	1.3	94	119	324.4
Potash		98	1.9	85	162	443.8
Sulfur		18	1.4	10	14	7.3
Ohio	6,700					
Nitrogen		93	1.7	53	92	573.1
Phosphate		93	1.6	44	72	445.7
Potash		93	1.6	94	152	951.0
Sulfur ¹						
Tennessee	4,200					
Nitrogen		97	18.0	10	186	755.6
Phosphate		97	2.1	107	220	893.1
Potash		97	17.1	19	326	1,323.1
Sulfur ¹						

See footnote(s) at end of table.

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**Tomatoes, Fresh: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006 (continued)**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Program States	105,600					
Nitrogen		98	8.4	26	216	22,791.5
Phosphate		96	2.0	66	132	13,057.7
Potash		95	6.3	45	286	29,985.5
Sulfur		47	7.8	17	131	7,131.3

¹ Insufficient reports to publish fertilizer data.

**Tomatoes, Fresh: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States							
	ALL	CA	FL	GA	NJ	NC	OH	TN
Herbicides								
Carfentrazone-ethyl	P	*	*					
Clethodim	P	*	*			*		*
Clomazone	*						*	*
Diuron	*							*
Glyphosate iso. salt	P	P	*	*		*	P	*
Halosulfuron	P	*	*	*		*	*	*
Lactofen	*		*					
MSMA	*			*				
Metribuzin	P	P	*		P	*	P	P
Napropamide	P	*	*		P	*	*	*
Oxyfluorfen	P	P						
Paraquat	P	*	P	*		P		P
Pendimethalin	*		*	*	*			*
Pyridate	*						*	
Quizalofop-P-ethyl	*						*	
Rimsulfuron	P	*					*	
S-Metolachlor	P	P	*		P	*	P	P
Sethoxydim	P	*	*	*		*	*	*
Simazine	*			*				
Sulfentrazone	*							*
Trifluralin	P	P		*	P	*	P	*
Insecticides								
Abamectin	P	P	*		*	*	*	*
Acephate	P		*	*		*		
Acetamiprid	*	*						
Azadirachtin	P	*	*					
Azinphos-methyl	*				*		*	*
Benzoic acid	P	P	*			*		
Bifenazate	P	*	*	*		*		*
Bifenthrin	P	*	P	P	*	*	*	P
Bt subsp. aizawai	P	P	P	*		*		*
Bt subsp. kurstaki	P	P	P	*		P	*	P
Buprofezin	*	*	*					
Canola oil	*			*				
Carbaryl	P	P	P	P	P	P	P	P
Chlorpyrifos	*				*			
Cyfluthrin	P	*	P	*	P	*	*	*
Cyromazine	P	*	*					
Diazinon	P		*	*	*	*		*
Dicofol	P	*		*	*		*	*
Dimethoate	P	P	*		*	P		*
Dinotefuran	*	*						

See footnote(s) at end of table.

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**Tomatoes, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	FL	GA	NJ	NC	OH	TN
Insecticides (continued)								
Emamectin benzoate	*	P				*		
Endosulfan	P	*	P	*	P	P	P	P
Esfenvalerate	P	P	P	*	P	P	*	P
Fenpropathrin	P	P	*		*	*	*	P
Imidacloprid	P	P	P	*	P	*	*	P
Indoxacarb	P	P	*			*		*
Lambda-cyhalothrin	P	P	P	*	P	*	P	P
Malathion	P	P	*	P	*	*	*	*
Methamidophos	P	*	*	*		*		P
Methomyl	P	P	*	P	P	P	*	P
Neem oil, clar. hyd.	*	*						
Octacide-264	*		*					
Oxamyl	P	*	*		P	*		*
Permethrin	P	P	*	*	*	P	P	*
Petroleum distillate	P	*	*					
Petroleum oil	*	*						
Piperonyl butoxide	*	*	*					
Potassium salts	*	*		*	*			
Pymetrozine	P	*	*					
Pyrethrins	P	P	*	*		*		
Pyriproxyfen	P	*	*					*
Rotenone	*	*						
Spinosad	P	P	*	P	P	P		*
Spiromesifen	P	P	P	*	*			
Tebufenozide	*		*		*			
Thiamethoxam	*	*			*		*	
Zeta-cypermethrin	P	P	*		*		*	*
Fungicides								
Agriphage	*		*					
Azoxystrobin	P	P	P	P	P	P	P	P
Bacillus subtilus	P	*	P	*	*	*	*	*
Basic copper sulfate	P		*	*	*	*	*	
Benomyl	*		*	*		*		
Borax decahydrate	*		*				*	
Boscalid	P	*				*		*
Captan	*			*			*	
Chlorothalonil	P	P	P	P	P	P	P	P
Copper amm. complex	*		*					
Copper hydroxide	P	P	P	P	P	P	P	P
Copper oxychloride	*				*		*	
Copper resinate	P				P	*	*	*
Copper sulfate	P			*	*	*	*	P

See footnote(s) at end of table.

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**Tomatoes, Fresh: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	CA	FL	GA	NJ	NC	OH	TN
Fungicides (continued)								
Cymoxanil	P	P	P	*	*	P	*	P
Dimethomorph	P	P			*			*
Famoxadone	P	P	P	*	*	P	*	P
Fosetyl-al	*	*						*
Mancozeb	P	P	P	P	P	P	P	P
Maneb	P	P	P	P	P	*	P	*
Mefenoxam	P	P	*		*	*	*	*
Metalaxyl	P	*	*		*	*		
Myclobutanil	P	P	*		*		*	
PCNB	*	*						
Potassium bicarbon.	*	*						
Pyraclostrobin	P	P	P	P	*	*	P	P
Pyrimethanil	*	*						
Sulfur	P	P	*	*			*	*
Thiophanate-methyl	P		P		*		*	
Trifloxystrobin	*	*			*		*	
Zineb	*					*		
Other Chemicals								
Acibenzolar-S-Methyl	P		*	*	*	P		P
Chloropicrin	P	*	P	P		P		*
Cytokinins	*					*		*
Dichloropropene	P	*	*			*		
Ethephon	*	*					*	*
Harpin protein	*		*					
Hydrogen peroxide	P	*			*		P	
Metam-potassium	*	*						
Metam-sodium	*	*	*		*			
Methyl bromide	P	*	P	P		P		*

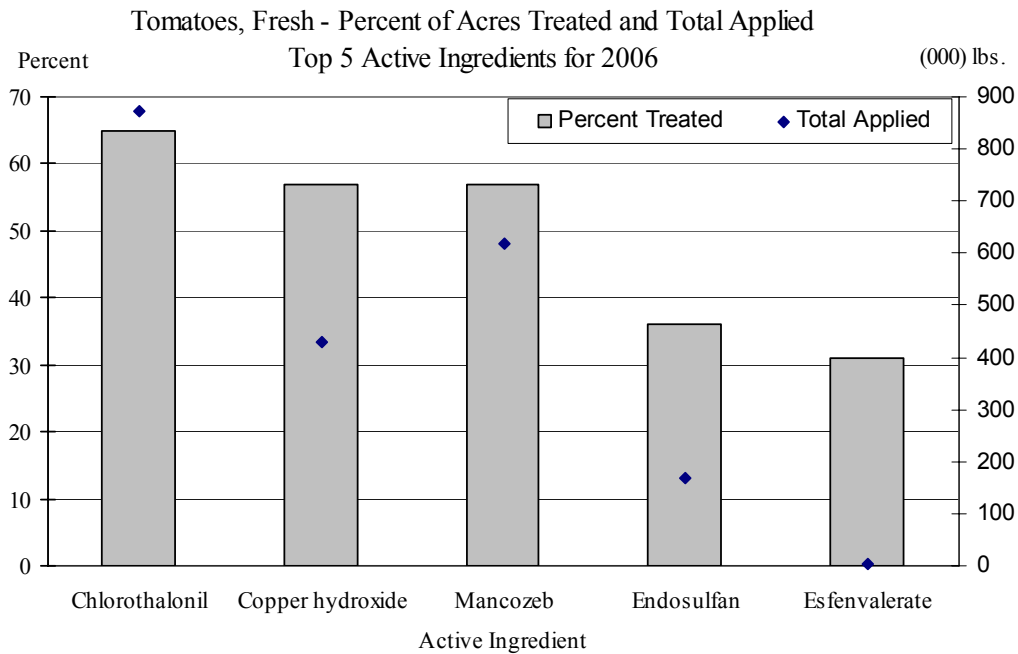
P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

**Tomatoes, Fresh: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	41,400	40	24.1	62	40.0	63	310.4	11	589.7
FL	41,200	41	19.6	99	236.5	94	1,538.9	48	5,934.1
GA	6,200	85	5.6	97	91.7	99	355.1	22	1,117.3
NJ	3,100	24	1.3	90	3.6	93	31.6	14	26.2
NC	2,800	24	2.0	72	5.9	67	36.2	25	79.2
OH	6,700	11	1.3	86	26.7	88	22.9	1	0.1
TN	4,200	66	3.9	91	10.7	91	42.1	54	336.9
Total	105,600	41	57.8	82	415.2	81	2,337.2	27	8,083.4

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



**Tomatoes, Fresh: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Carfentrazone-ethyl	2	1.2	0.021	0.025	(²)
Clethodim	3	1.1	0.052	0.055	0.2
Glyphosate iso. salt	6	1.2	1.031	1.285	8.5
Halosulfuron	7	1.0	0.051	0.051	0.4
Metribuzin	21	1.1	0.564	0.625	13.6
Napropamide	1	1.1	0.906	1.016	1.0
Oxyfluorfen	4	1.1	0.146	0.167	0.7
Paraquat	17	1.4	0.522	0.730	13.5
Rimsulfuron	2	1.2	0.010	0.011	(²)
S-Metolachlor	10	1.1	1.056	1.136	11.5
Sethoxydim	1	1.2	0.416	0.503	0.5
Trifluralin	10	1.0	0.550	0.577	6.3
Insecticides					
Abamectin	10	3.3	0.018	0.058	0.6
Acephate	*	2.7	0.803	2.187	0.1
Azadirachtin	10	1.1	0.012	0.013	0.1
Benzoic acid	24	3.1	0.111	0.343	8.5
Bifenazate	6	11.1	0.499	5.565	34.0
Bifenthrin	28	5.5	0.064	0.352	10.2
Bt subsp. aizawai ³	6	4.2			
Bt subsp. kurstaki ³	36	6.9			
Carbaryl	6	3.4	1.196	4.090	27.6
Cyfluthrin	13	3.3	0.036	0.120	1.7
Cyromazine	20	2.3	0.091	0.211	4.5
Diazinon	1	1.1	0.600	0.675	0.8
Dicofol	5	12.4	0.205	2.539	13.4
Dimethoate	19	1.7	0.294	0.488	9.9
Endosulfan	36	6.4	0.688	4.411	168.5
Esfenvalerate	31	4.5	0.030	0.137	4.5
Fenpropathrin	14	1.9	0.169	0.315	4.7
Imidacloprid	18	2.4	0.119	0.285	5.5
Indoxacarb	6	1.4	0.056	0.076	0.5
Lambda-cyhalothrin	12	2.3	0.022	0.049	0.6
Malathion	2	3.5	0.611	2.157	5.0
Methamidophos	10	2.3	0.723	1.645	17.4
Methomyl	10	8.5	0.476	4.045	42.9
Oxamyl	16	2.1	0.429	0.884	15.0
Permethrin	4	2.5	0.173	0.432	1.8
Petroleum distillate	1	1.5	1.963	2.892	2.2
Pymetrozine	15	2.3	0.059	0.137	2.2
Pyrethrins	2	1.2	0.014	0.016	(²)
Pyriproxyfen	8	1.0	0.036	0.036	0.3

See footnote(s) at end of table.

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**Tomatoes, Fresh: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides (continued)					
Spinosad	23	6.3	0.111	0.700	17.1
Spiromesifen	12	1.8	0.128	0.231	2.8
Zeta-cypermethrin	6	1.5	0.042	0.063	0.4
Fungicides					
Azoxystrobin	22	4.4	0.090	0.399	9.4
Bacillus subtilis ³	15	1.8			
Basic copper sulfate	4	8.8	1.703	14.961	63.4
Boscalid	1	1.5	0.364	0.530	0.4
Chlorothalonil	65	8.6	1.479	12.756	870.9
Copper hydroxide	57	8.8	0.815	7.159	430.2
Copper resinate	1	8.4	0.110	0.922	0.8
Copper sulfate	2	9.8	0.526	5.166	8.2
Cymoxanil	17	2.4	0.110	0.265	4.9
Dimethomorph	6	1.3	0.189	0.253	1.6
Famoxadone	10	2.0	0.113	0.223	2.4
Mancozeb	57	8.1	1.283	10.354	619.5
Maneb	14	6.9	0.954	6.560	96.9
Mefenoxam	9	1.4	0.297	0.421	4.1
Metalaxyl	1	1.4	0.167	0.229	0.2
Myclobutanil	10	1.2	0.096	0.112	1.1
Pyraclostrobin	20	2.5	0.114	0.285	5.9
Sulfur	7	1.3	20.040	25.782	185.3
Thiophanate-methyl	5	1.5	1.166	1.720	9.2
Other Chemicals					
Acibenzolar-S-Methyl	4	3.8	0.019	0.072	0.3
Chloropicrin	25	1.3	66.651	86.180	2,249.3
Dichloropropene	1	1.1	61.960	69.302	58.4
Hydrogen peroxide	*	2.0	1.022	2.081	0.6
Methyl bromide	30	1.2	142.962	176.678	5,642.9

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 7 Program States was 105,600 acres.

States included are CA, FL, GA, NJ, NC, OH, and TN.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Tomatoes, Fresh: Agricultural Chemical Applications,
California, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Glyphosate iso. salt	14	1.2	0.984	1.226	7.2
Metribuzin	8	1.1	0.446	0.471	1.5
Oxyfluorfen	10	1.1	0.146	0.167	0.7
S-Metolachlor	13	1.1	1.263	1.404	7.8
Trifluralin	26	1.0	0.546	0.573	6.1
Insecticides					
Abamectin	4	1.0	0.011	0.011	(²)
Benzoic acid	31	1.5	0.137	0.211	2.7
Bt subsp. aizawai ³	6	7.0			
Bt subsp. kurstaki ³	10	4.9			
Carbaryl	1	1.2	0.709	0.826	0.5
Dimethoate	28	1.3	0.338	0.450	5.2
Emamectin benzoate	4	1.6	0.010	0.017	(²)
Esfenvalerate	23	1.8	0.038	0.067	0.6
Fenpropathrin	31	1.5	0.172	0.253	3.2
Imidacloprid	12	1.3	0.129	0.169	0.8
Indoxacarb	7	1.1	0.061	0.069	0.2
Lambda-cyhalothrin	4	1.1	0.033	0.037	0.1
Malathion	2	1.0	1.234	1.242	0.8
Methomyl	6	2.9	0.758	2.220	5.4
Permethrin	8	2.4	0.191	0.466	1.5
Pyrethrins	5	1.2	0.014	0.016	(²)
Spinosad	17	1.2	0.096	0.118	0.8
Spiromesifen	6	1.0	0.133	0.135	0.3
Zeta-cypermethrin	15	1.2	0.049	0.060	0.4
Fungicides					
Azoxystrobin	7	1.0	0.100	0.101	0.3
Chlorothalonil	26	3.4	1.714	5.752	61.2
Copper hydroxide	30	1.7	0.785	1.310	16.3
Cymoxanil	12	1.6	0.116	0.180	0.9
Dimethomorph	15	1.3	0.189	0.248	1.6
Famoxadone	12	1.6	0.116	0.180	0.9
Mancozeb	25	1.2	1.451	1.761	18.4
Maneb	5	1.2	1.150	1.418	2.8
Mefenoxam	16	1.1	0.123	0.136	0.9
Myclobutanil	24	1.1	0.097	0.110	1.1
Pyraclostrobin	17	1.1	0.176	0.195	1.4
Sulfur	17	1.1	23.027	26.138	182.7

¹ Planted acreage in 2006 for California was 41,400 acres.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

**Tomatoes, Fresh: Agricultural Chemical Applications,
Florida, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Paraquat	28	1.1	0.643	0.737	8.4
Insecticides					
Bifenthrin	54	3.7	0.076	0.280	6.3
Bt subsp. aizawai ²	8	2.1			
Bt subsp. kurstaki ²	79	7.1			
Carbaryl	*	2.5	0.815	2.003	(³)
Cyfluthrin	28	3.3	0.036	0.120	1.4
Endosulfan	86	6.6	0.697	4.566	161.3
Esfenvalerate	32	3.5	0.023	0.080	1.1
Imidacloprid	31	2.9	0.102	0.296	3.7
Lambda-cyhalothrin	9	4.1	0.019	0.077	0.3
Spiromesifen	22	2.0	0.127	0.257	2.4
Fungicides					
Azoxystrobin	27	2.1	0.088	0.186	2.1
Bacillus subtilis ²	28	1.1			
Chlorothalonil	94	9.2	1.659	15.316	593.0
Copper hydroxide	87	11.0	0.888	9.733	350.8
Cymoxanil	30	2.7	0.110	0.295	3.7
Famoxadone	12	2.1	0.115	0.246	1.2
Mancozeb	92	9.6	1.348	12.999	494.2
Maneb	3	8.5	1.090	9.299	12.3
Pyraclostrobin	29	3.2	0.099	0.321	3.9
Thiophanate-methyl	13	1.5	1.188	1.730	9.0
Other Chemicals					
Chloropicrin	48	1.4	65.496	90.632	1,778.6
Methyl bromide	52	1.4	143.958	194.865	4,150.5

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Florida was 41,200 acres.

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

³ Total applied is less than 50 lbs.

**Tomatoes, Fresh: Agricultural Chemical Applications,
Georgia, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides					
Bifenthrin	93	12.9	0.051	0.656	3.8
Carbaryl	*	3.3	0.934	3.111	0.1
Malathion	*	4.5	0.634	2.828	(²)
Methomyl	75	13.9	0.450	6.269	29.2
Spinosad	85	12.9	0.093	1.191	6.3
Fungicides					
Azoxystrobin	79	13.4	0.089	1.198	5.8
Chlorothalonil	91	24.7	1.148	28.307	160.5
Copper hydroxide	93	12.6	0.696	8.783	50.6
Mancozeb	87	12.5	0.999	12.531	67.8
Maneb	86	12.9	1.007	12.969	69.1
Pyraclostrobin	16	3.5	0.123	0.432	0.4
Other Chemicals					
Chloropicrin	17	1.0	83.190	83.190	88.6
Methyl bromide	95	1.0	174.690	174.690	1,028.7

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Georgia was 6,200 acres.

² Total applied is less than 50 lbs.

**Tomatoes, Fresh: Agricultural Chemical Applications,
New Jersey, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Metribuzin	15	1.4	0.375	0.526	0.3
Napropamide	11	1.0	1.404	1.404	0.5
S-Metolachlor	7	1.7	1.031	1.735	0.4
Trifluralin	2	1.0	0.920	0.920	(²)
Insecticides					
Carbaryl	15	1.4	0.609	0.824	0.4
Cyfluthrin	13	3.2	0.042	0.133	0.1
Endosulfan	10	3.2	0.644	2.086	0.7
Esfenvalerate	27	2.3	0.025	0.058	(²)
Imidacloprid	21	1.4	0.150	0.215	0.1
Lambda-cyhalothrin	39	3.1	0.047	0.145	0.2
Methomyl	19	2.1	0.384	0.798	0.5
Oxamyl	15	2.6	0.681	1.740	0.8
Spinosad	52	3.1	0.082	0.253	0.4
Fungicides					
Azoxystrobin	30	2.1	0.086	0.183	0.2
Chlorothalonil	75	4.3	1.543	6.597	15.3
Copper hydroxide	64	5.5	0.368	2.038	4.1
Copper resinate	9	3.5	0.109	0.380	0.1
Mancozeb	32	4.0	1.746	7.042	7.0
Maneb	19	4.3	1.391	5.991	3.6

¹ Planted acreage in 2006 for New Jersey was 3,100 acres.

² Total applied is less than 50 lbs.

**Tomatoes, Fresh: Agricultural Chemical Applications,
North Carolina, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Paraquat	18	1.0	0.680	0.680	0.3
Insecticides					
Bt subsp. kurstaki ²	19	8.1			
Carbaryl	4	1.7	0.857	1.471	0.2
Dimethoate	35	3.0	0.343	1.038	1.0
Endosulfan	22	3.0	0.568	1.720	1.1
Esfenvalerate	32	5.7	0.030	0.173	0.2
Methomyl	34	3.8	0.546	2.089	2.0
Permethrin	2	3.0	0.134	0.400	(³)
Spinosad	12	3.2	0.075	0.242	0.1
Fungicides					
Azoxystrobin	32	2.8	0.092	0.257	0.2
Chlorothalonil	60	5.9	1.419	8.362	14.1
Copper hydroxide	52	5.7	0.449	2.580	3.7
Cymoxanil	20	3.6	0.092	0.332	0.2
Famoxadone	20	3.6	0.092	0.332	0.2
Mancozeb	50	8.1	1.432	11.621	16.4
Other Chemicals					
Acibenzolar-S-Methyl	10	4.3	0.018	0.080	(³)
Chloropicrin	15	1.0	60.098	60.098	24.6
Methyl bromide	15	1.0	122.443	122.443	52.6

¹ Planted acreage in 2006 for North Carolina was 2,800 acres.

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

³ Total applied is less than 50 lbs.

**Tomatoes, Fresh: Agricultural Chemical Applications,
Ohio, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Glyphosate iso. salt	5	1.0	0.760	0.760	0.3
Metribuzin	9	1.0	0.485	0.485	0.3
S-Metolachlor	6	1.0	1.498	1.498	0.6
Trifluralin	1	1.0	0.778	0.778	0.1
Insecticides					
Carbaryl	82	3.9	1.236	4.799	26.5
Endosulfan	1	1.3	0.830	1.080	0.1
Lambda-cyhalothrin	79	1.0	0.008	0.008	(²)
Permethrin	*	1.3	0.105	0.138	(²)
Fungicides					
Azoxystrobin	2	1.9	0.079	0.149	(²)
Chlorothalonil	85	3.9	0.597	2.318	13.3
Copper hydroxide	2	4.3	0.638	2.769	0.4
Mancozeb	2	4.0	1.673	6.725	0.7
Maneb	79	3.0	0.510	1.524	8.1
Pyraclostrobin	1	2.4	0.158	0.373	(²)
Other Chemicals					
Hydrogen peroxide	*	2.7	1.523	4.140	0.1

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for Ohio was 6,700 acres.

² Total applied is less than 50 lbs.

**Tomatoes, Fresh: Agricultural Chemical Applications,
Tennessee, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Metribuzin	63	1.6	0.577	0.909	2.4
Paraquat	42	1.6	0.089	0.142	0.2
S-Metolachlor	18	1.0	1.407	1.407	1.1
Insecticides					
Bifenthrin	8	2.7	0.061	0.166	0.1
Bt subsp. kurstaki ²	8	7.9			
Carbaryl	2	1.5	0.498	0.757	0.1
Endosulfan	38	6.3	0.507	3.188	5.1
Esfenvalerate	65	3.8	0.037	0.142	0.4
Fenpropathrin	41	4.9	0.165	0.813	1.4
Imidacloprid	3	1.0	0.146	0.146	(³)
Lambda-cyhalothrin	10	1.3	0.024	0.030	(³)
Methamidophos	21	3.6	0.217	0.788	0.7
Methomyl	29	4.6	0.426	1.977	2.4
Fungicides					
Azoxystrobin	59	3.1	0.095	0.292	0.7
Chlorothalonil	84	3.9	0.985	3.806	13.5
Copper hydroxide	54	8.8	0.211	1.846	4.2
Copper sulfate	30	11.1	0.522	5.795	7.3
Cymoxanil	6	2.1	0.128	0.274	0.1
Famoxadone	6	2.1	0.128	0.274	0.1
Mancozeb	82	5.7	0.762	4.352	15.0
Pyraclostrobin	8	2.8	0.160	0.450	0.2
Other Chemicals					
Acibenzolar-S-Methyl	16	2.5	0.012	0.030	(³)

¹ Planted acreage in 2006 for Tennessee was 4,200 acres.

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

³ Total applied is less than 50 lbs.

Tomatoes, Proc.: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	283,000	98	52,014.6	77	20,407.1	52	9,445.2	20	1,807.7
Total	283,000	98	52,014.6	77	20,407.1	52	9,445.2	20	1,807.7

**Tomatoes, Proc.: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
California	283,000					
Nitrogen		98	2.8	66	188	52,014.6
Phosphate		77	1.5	63	94	20,407.1
Potash		52	1.8	36	65	9,445.2
Sulfur		20	1.9	17	32	1,807.7
Program States	283,000					
Nitrogen		98	2.8	66	188	52,014.6
Phosphate		77	1.5	63	94	20,407.1
Potash		52	1.8	36	65	9,445.2
Sulfur		20	1.9	17	32	1,807.7

**Tomatoes, Proc.: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States	
	ALL	CA
Herbicides		
Carfentrazone-ethyl	*	*
Clethodim	P	P
DCPA	*	*
Dicamba, digly. salt	*	*
Dithiopyr	*	*
EPTC	*	*
Glyphosate	*	*
Glyphosate iso. salt	P	P
Halosulfuron	P	P
Metolachlor	*	*
Metribuzin	P	P
Napropamide	*	*
Oxyfluorfen	P	P
Paraquat	P	P
Rimsulfuron	P	P
S-Metolachlor	P	P
Sethoxydim	P	P
Trifluralin	P	P
Insecticides		
Abamectin	P	P
Acetamiprid	P	P
Azadirachtin	*	*
Benzoic acid	P	P
Bt subsp. aizawai	P	P
Bt subsp. kurstaki	P	P
Carbaryl	P	P
Cyfluthrin	*	*
Diazinon	*	*
Dicofol	*	*
Dimethoate	P	P
Dinotefuran	*	*
Emamectin benzoate	P	P
Endosulfan	*	*
Esfenvalerate	P	P
Ethyl parathion	*	*
Fenpropathrin	P	P
Imidacloprid	P	P
Indoxacarb	P	P
Kaolin	*	*
Lambda-cyhalothrin	P	P
Malathion	*	*
Methamidophos	P	P

See footnote(s) at end of table.

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**Tomatoes, Proc.: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States	
	ALL	CA
Insecticides (continued)		
Methomyl	P	P
Neem oil, clar. hyd.	*	*
Oxamyl	*	*
Permethrin	P	P
Propargite	*	*
Pyrethrins	*	*
Spinosad	P	P
Spiromesifen	P	P
Tebufenozide	P	P
Thiamethoxam	*	*
Zeta-cypermethrin	P	P
Fungicides		
Azoxystrobin	P	P
Bacillus subtilis	*	*
Chlorothalonil	P	P
Copper hydroxide	P	P
Copper oxide	*	*
Copper resinate	*	*
Cymoxanil	P	P
Dimethomorph	P	P
Famoxadone	P	P
Fosetyl-al	*	*
Mancozeb	P	P
Maneb	*	*
Mefenoxam	P	P
Myclobutanil	P	P
Propiconazole	*	*
Pyraclostrobin	P	P
Sulfur	P	P
Other Chemicals		
Ethephon	P	P
GABA	*	*
L-Glutamic acid	*	*
Metam-sodium	P	P
Tridecen-1-YL-Acetate	*	*
Tridecenyl acetate	*	*

P Usage data are published for this active ingredient.

*Usage data are not published for this active ingredient.

**Tomatoes, Proc.: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
CA	283,000	65	362.1	71	426.3	76	6,669.2	23	1,453.6
Total	283,000	65	362.1	71	426.3	76	6,669.2	23	1,453.6

¹ Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals.

Quantities are not available because amounts of active ingredient are not comparable between products.

**Tomatoes, Proc.: Agricultural Chemical Applications,
California, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clethodim	1	1.0	0.117	0.120	0.2
Glyphosate iso. salt	23	1.2	1.009	1.189	76.4
Halosulfuron	1	1.0	0.013	0.013	(²)
Metribuzin	7	1.1	0.341	0.387	8.2
Oxyfluorfen	5	1.2	0.236	0.280	4.3
Paraquat	9	1.1	0.627	0.666	16.5
Rimsulfuron	30	1.1	0.013	0.015	1.3
S-Metolachlor	38	1.1	1.246	1.359	145.0
Sethoxydim	1	1.0	0.272	0.280	0.8
Trifluralin	51	1.1	0.620	0.666	95.8
Insecticides					
Abamectin	3	1.0	0.005	0.005	0.1
Acetamiprid	5	1.1	0.038	0.041	0.5
Benzoic acid	19	1.1	0.149	0.167	8.7
Bt subsp. aizawai ³	7	1.1			
Bt subsp. kurstaki ³	5	1.5			
Carbaryl	4	1.1	1.019	1.111	11.1
Dimethoate	32	1.1	0.393	0.435	39.4
Emamectin benzoate	20	1.1	0.010	0.010	0.6
Esfenvalerate	8	1.2	0.047	0.056	1.3
Fenpropathrin	2	1.0	0.187	0.189	1.2
Imidacloprid	15	1.1	0.107	0.117	5.1
Indoxacarb	31	1.1	0.065	0.069	6.0
Lambda-cyhalothrin	12	1.3	0.027	0.035	1.2
Methamidophos	1	1.3	0.983	1.249	3.9
Methomyl	5	1.5	0.523	0.766	11.3
Permethrin	5	1.5	0.194	0.294	4.2
Spinosad	3	1.7	0.099	0.166	1.4
Spiromesifen	1	1.1	0.123	0.134	0.2
Tebufenozide	2	1.1	0.148	0.167	1.1
Zeta-cypermethrin	4	1.1	0.047	0.053	0.6
Fungicides					
Azoxystrobin	9	1.1	0.098	0.105	2.5
Chlorothalonil	24	1.1	1.774	1.963	135.9
Copper hydroxide	19	1.3	0.752	0.976	52.8
Cymoxanil	4	1.2	0.124	0.148	1.6
Dimethomorph	1	1.3	0.201	0.254	0.7
Famoxadone	4	1.2	0.124	0.148	1.6
Mancozeb	17	1.1	0.923	1.001	47.6
Mefenoxam	15	1.1	0.083	0.090	3.8
Myclobutanil	5	1.4	0.091	0.125	1.9

See footnote(s) at end of table.

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**Tomatoes, Proc.: Agricultural Chemical Applications,
California, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Pyraclostrobin	20	1.1	0.145	0.153	8.7
Sulfur	64	1.4	25.803	35.523	6,401.8
Other Chemicals					
Ethephon	13	1.1	0.737	0.810	30.7
Metam-sodium	8	1.2	52.740	61.614	1,422.0

¹ Planted acreage in 2006 for California was 283,000 acres.

² Total applied is less than 50 lbs.

³ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Watermelons: Fertilizer Use by State, 2006
Percent of Acres Treated and Total Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		Phosphate		Potash		Sulfur	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	7,900	100	703.6	99	2,472.6	(¹)		(¹)	
CA	15,000	96	1,963.4	49	605.9	64	978.8	20	359.1
FL	25,900	98	4,185.3	96	3,000.0	(¹)		(¹)	
GA	31,000	98	3,722.7	96	2,594.9	98	3,901.7	27	208.7
NC	7,400	99	827.6	91	465.7	96	1,055.8	10	12.2
SC	8,000	97	731.0	93	492.4	95	879.9	18	18.0
TX	25,000	98	2,041.4	85	1,507.3	87	949.3	40	192.0
Total	120,200	98	14,175.1	87	11,138.7	86	13,316.9	23	1,087.5

¹ Insufficient reports to publish data for the fertilizer primary nutrient.

**Watermelons: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Arizona	7,900					
Nitrogen		100	5.6	16	89	703.6
Phosphate		99	4.1	78	316	2,472.6
Potash ¹						
Sulfur ¹						
California	15,000					
Nitrogen		96	2.8	49	136	1,963.4
Phosphate		49	1.6	53	83	605.9
Potash		64	2.7	38	101	978.8
Sulfur		20	7.0	17	119	359.1
Florida	25,900					
Nitrogen		98	4.9	33	165	4,185.3
Phosphate		96	1.4	87	121	3,000.0
Potash ¹						
Sulfur ¹						
Georgia	31,000					
Nitrogen		98	2.0	61	123	3,722.7
Phosphate		96	1.4	62	87	2,594.9
Potash		98	1.7	76	129	3,901.7
Sulfur		27	1.3	19	25	208.7
North Carolina	7,400					
Nitrogen		99	4.5	25	113	827.6
Phosphate		91	1.2	58	70	465.7
Potash		96	4.1	37	149	1,055.8
Sulfur		10	1.0	17	17	12.2
South Carolina	8,000					
Nitrogen		97	3.4	27	94	731.0
Phosphate		93	1.9	34	66	492.4
Potash		95	3.3	35	116	879.9
Sulfur		18	1.0	13	13	18.0
Texas	25,000					
Nitrogen		98	4.0	21	83	2,041.4
Phosphate		85	3.5	20	71	1,507.3
Potash		87	3.3	13	44	949.3
Sulfur		40	2.4	8	19	192.0

See footnote(s) at end of table.

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**Watermelons: Fertilizer Primary Nutrient Applications,
Program States and Total, 2006 (continued)**

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Program States	120,200					
Nitrogen		98	4.0	28	113	14,175.1
Phosphate		87	2.5	48	120	11,138.7
Potash		86	3.4	34	115	13,316.9
Sulfur		23	2.5	16	40	1,087.5

¹ Insufficient reports to publish fertilizer data.

**Watermelons: Active Ingredients and
Publication Status
By Program States, 2006**

Active Ingredient	Program States							
	ALL	AZ	CA	FL	GA	NC	SC	TX
Herbicides								
2,4-D, dimeth. salt	*							*
Bensulide	P	P	*			*	*	*
Bentazon	*				*			
Bromoxynil heptan.	*							*
Bromoxynil octanoate	*							*
Carfentrazone-ethyl	*							*
Clethodim	P	*			P	*	*	*
Clomazone	P			*		*		
DCPA	*							*
Ethalfuralin	P			*	P	P	P	*
Fluazifop-P-butyl	P						*	*
Fomesafen	*				*			
Glyphosate	*		*			*		
Glyphosate iso. salt	P	*	*	*	*	P	*	P
Halosulfuron	P		*	*	*	*		*
Lactofen	*			*				
MSMA	*				*			
Napropamide	*					*		
Naptalam	P				P	P	*	*
Oryzalin	*							*
Paraquat	P			*	*	*	*	*
Pendimethalin	P			*	*	*		P
Pronamide	*					*		
S-Metolachlor	*						*	
Sethoxydim	P	*		*	*	P	*	*
Simazine	*				*			
Terbacil	*				*			
Trifluralin	P	*	*		*	*	*	P
Insecticides								
Abamectin	*	*	P					
Acephate	*				*			
Acetamiprid	*							*
Azadirachtin	*			*				
Benzoic acid	P	*	P	*	*			*
Bifenazate	*		*					
Bifenthrin	P	*	P	*	*	*	*	
Bt subsp. aizawai	*		*	*			*	
Bt subsp. kurstaki	P	*	P	P	*		*	P
Buprofezin	*	*	*					
Carbaryl	P			*	*	P	P	P
Chlorpyrifos	P				*	*	*	
Cyfluthrin	*	*		*		*		

See footnote(s) at end of table.

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**Watermelons: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	AZ	CA	FL	GA	NC	SC	TX
Insecticides (continued)								
Cyromazine	*			*				
Diazinon	P		*			*	*	*
Dicofol	P	*	*				*	
Dimethoate	P	*	*	*	P	*		*
Dinotefuran	*	*						*
Endosulfan	P	P	*	P	*	P	P	P
Esfenvalerate	P	*	*	P	P	P	P	*
Fenamiphos	*				*			
Fenpropathrin	*	*						
Imidacloprid	P	P	P		*	*		P
Kaolin	*					*		
Malathion	P				*	*	*	P
Methamidophos	*				*			
Methomyl	P	*	*	*	*	*	*	P
Neem oil, clar. hyd.	*	*	*					
Oxamyl	P			*	*		*	*
Permethrin	P	*	*		*	*	*	*
Petroleum distillate	*		*	*				
Pymetrozine	*			*				
Spinosad	P	*	P	*	*	*	*	*
Spiromesifen	P	*	*					
Thiamethoxam	*						*	
Zeta-cypermethrin	*				*	*	*	*
Fungicides								
Azoxystrobin	P	*	*	*	*	P	P	P
Bacillus pumilus	*		*					
Bacillus subtilis	P			*		*		
Basic copper sulfate	*							*
Benomyl	*			*	*		*	*
Boscalid	P		*	P	P	P	*	P
Captan	*				*			
Chlorothalonil	P	*	*	P	P	P	P	P
Copper hydroxide	P		*	P	*	*	*	P
Copper oxide	*						*	
Copper resinate	P				*	*		*
Copper sulfate	*			*	*			
Cymoxanil	*			*				
Dimethomorph	*		*		*			
Famoxadone	*			*				
Fosetyl-al	*						*	
Mancozeb	P	*		P	P	*	P	P
Maneb	P			P	P	*	*	

See footnote(s) at end of table.

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**Watermelons: Active Ingredients and
Publication Status
By Program States, 2006 (continued)**

Active Ingredient	Program States							
	ALL	AZ	CA	FL	GA	NC	SC	TX
Fungicides (continued)								
Mefenoxam	P	*	P	P		*		*
Metalaxyl	P			*			*	*
Metiram	*					*		
Myclobutanil	P	P	P					P
Phosphorous acid	*							*
Potassium bicarbon.	*		*					
Pyraclostrobin	P	*	*	P	P	P	*	P
Sulfur	P	*	P			*		*
Tebuconazole	P			*	*			
Thiophanate-methyl	P	*	*	*	P		*	*
Trifloxystrobin	P	P	*					*
Triflumizole	P	*	P	*		*		*
Zoxamide	*					*		
Other Chemicals								
Acibenzolar-S-Methyl	*						*	
Chloropicrin	P		*	*	*	*	*	
Cytokinins	*							*
Dichloropropene	P	*	*	P	*	P	*	
Gibberellic acid	P	*					*	*
Harpin protein	*	*						
Hydrogen peroxide	*							*
Indolebutyric acid	*	*						*
Metam-potassium	*		*					
Metam-sodium	P	*	P				*	
Methyl bromide	P			*	*	*	*	
NAA	*							*
Strychnine	*							*

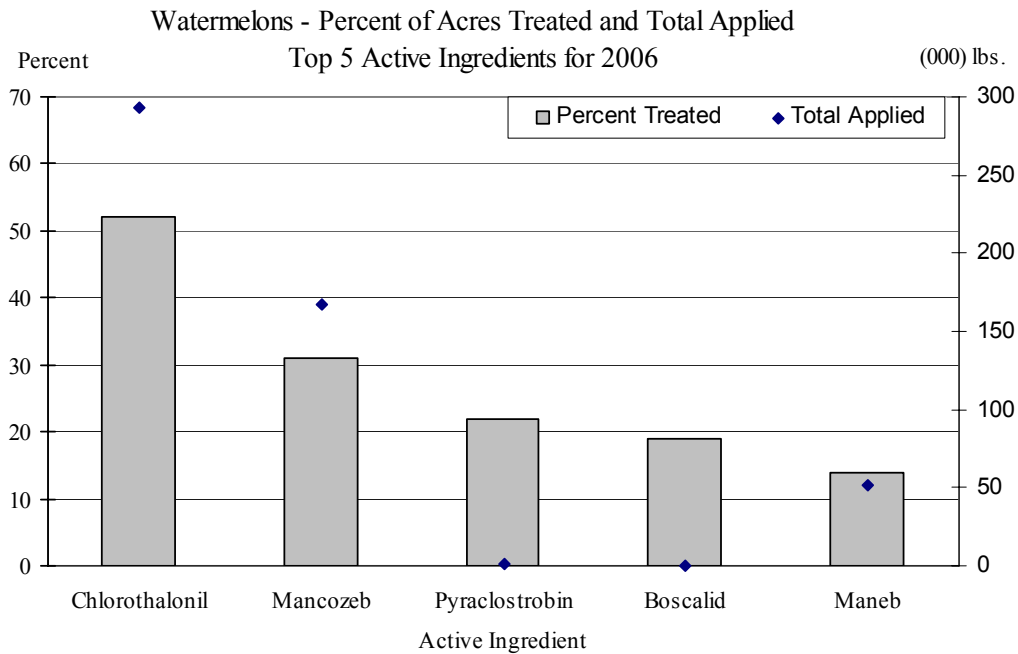
P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

**Watermelons: Planted Acreage, Pesticide,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2006**

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide ¹		Fungicide ¹		Other	
	<i>Acres</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>	<i>Percent</i>	<i>1,000 lbs.</i>
AZ	7,900	33	11.9	54	6.6	48	20.2	14	53.3
CA	15,000	30	10.6	78	28.9	86	188.2	46	749.0
FL	25,900	8	1.9	76	14.5	95	214.3	5	165.5
GA	31,000	46	26.2	41	16.3	89	170.0	2	224.7
NC	7,400	59	5.4	53	6.1	61	15.8	8	58.0
SC	8,000	47	4.0	23	1.1	72	24.9	9	24.3
TX	25,000	57	22.0	53	4.5	67	113.4	19	4.6
Total	120,200	38	81.9	56	78.0	80	747.0	13	1,279.5

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



**Watermelons: Agricultural Chemical Applications,
Program States, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	4	1.0	3.663	3.740	17.5
Clethodim	4	1.4	0.121	0.174	0.8
Clomazone	2	1.0	1.013	1.013	2.1
Ethalfuralin	13	1.8	0.636	1.153	18.0
Fluazifop-P-butyl	1	1.5	0.217	0.334	0.4
Glyphosate iso. salt	5	1.3	0.728	0.980	5.9
Halosulfuron	6	1.0	0.039	0.039	0.3
Naptalam	7	1.0	1.399	1.451	12.5
Paraquat	2	1.2	0.345	0.431	1.1
Pendimethalin	2	1.0	0.802	0.802	2.1
Sethoxydim	2	1.1	0.401	0.434	1.3
Trifluralin	7	1.2	0.716	0.840	7.0
Insecticides					
Benzoic acid	6	2.4	0.142	0.345	2.3
Bifenthrin	2	1.9	0.073	0.136	0.3
Bt subsp. kurstaki ²	21	2.1			
Carbaryl	4	2.6	0.972	2.572	13.2
Chlorpyrifos	1	1.0	0.717	0.717	0.8
Diazinon	2	1.4	3.447	4.811	12.1
Dicofol	2	1.5	0.572	0.846	2.3
Dimethoate	4	3.3	0.293	0.969	4.4
Endosulfan	8	2.2	0.609	1.326	13.1
Esfenvalerate	9	2.3	0.035	0.082	0.9
Imidacloprid	10	1.3	0.178	0.234	2.9
Malathion	*	1.7	0.993	1.659	0.4
Methomyl	6	2.9	0.542	1.550	11.5
Oxamyl	2	4.5	0.283	1.264	2.7
Permethrin	3	2.2	0.114	0.248	1.0
Spinosad	4	2.1	0.090	0.191	0.9
Spiromesifen	2	1.2	0.121	0.148	0.4
Fungicides					
Azoxystrobin	11	2.4	0.175	0.413	5.4
Bacillus subtilus ²	1	6.1			
Boscalid	19	1.7	0.013	0.023	0.5
Chlorothalonil	52	3.6	1.314	4.722	292.6
Copper hydroxide	6	1.6	0.740	1.198	9.3
Copper resinate	1	1.1	0.133	0.152	0.2
Mancozeb	31	3.1	1.510	4.643	167.7
Maneb	14	3.8	0.806	3.092	51.3
Mefenoxam	6	2.0	0.195	0.395	3.1
Metalaxyl	2	1.1	0.167	0.184	0.4

See footnote(s) at end of table.

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**Watermelons: Agricultural Chemical Applications,
Program States, 2006 ¹ (continued)**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Fungicides (continued)					
Myclobutanil	10	1.7	0.104	0.183	2.3
Pyraclostrobin	22	1.7	0.014	0.023	0.6
Sulfur	8	1.7	10.340	17.449	173.6
Tebuconazole	1	2.3	0.193	0.449	0.5
Thiophanate-methyl	10	2.8	0.389	1.095	13.3
Trifloxystrobin	5	1.7	0.103	0.173	1.0
Triflumizole	7	1.7	0.256	0.441	3.9
Other Chemicals					
Chloropicrin	2	1.0	40.262	40.579	80.7
Dichloropropene	3	1.0	68.612	68.891	262.9
Gibberellic acid	2	2.4	(³)	(³)	(⁴)
Metam-sodium	6	1.1	78.419	85.072	572.3
Methyl bromide	1	1.0	183.243	183.243	259.0

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2006 for the 7 Program States was 120,200 acres.
States included are 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.

³ Rate per acre is less than 0.0005 lbs.

⁴ Total applied is less than 50 lbs.

**Watermelons: Agricultural Chemical Applications,
Arizona, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Bensulide	31	1.0	4.769	4.769	11.5
Insecticides					
Endosulfan	19	2.5	0.798	1.983	2.9
Imidacloprid	20	1.2	0.185	0.220	0.4
Fungicides					
Myclobutanil	21	2.7	0.123	0.329	0.5
Trifloxystrobin	21	2.3	0.130	0.302	0.5

¹ Planted acreage in 2006 for Arizona was 7,900 acres.

**Watermelons: Agricultural Chemical Applications,
California, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides					
Abamectin	47	1.8	0.009	0.016	0.1
Benzoic acid	30	2.1	0.158	0.337	1.5
Bifenthrin	7	1.8	0.071	0.129	0.1
Bt subsp. kurstaki ²	28	2.8			
Imidacloprid	35	1.4	0.223	0.319	1.7
Spinosad	21	2.4	0.093	0.221	0.7
Fungicides					
Mefenoxam	20	1.7	0.165	0.285	0.8
Myclobutanil	38	2.1	0.117	0.240	1.4
Sulfur	61	1.7	10.126	17.597	160.8
Triflumizole	48	1.7	0.228	0.394	2.8
Other Chemicals					
Metam-sodium	39	1.1	83.698	91.830	533.8

¹ Planted acreage in 2006 for California was 15,000 acres.

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

**Watermelons: Agricultural Chemical Applications,
Florida, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Insecticides					
Bt subsp. kurstaki ²	56	1.8			
Endosulfan	12	3.8	0.494	1.866	5.8
Esfenvalerate	10	4.4	0.033	0.143	0.4
Fungicides					
Boscalid	18	1.7	0.014	0.023	0.1
Chlorothalonil	88	4.1	1.207	4.892	111.0
Copper hydroxide	7	2.4	0.754	1.773	3.2
Mancozeb	39	4.2	1.485	6.189	61.7
Maneb	47	3.9	0.761	2.977	36.3
Mefenoxam	8	1.3	0.221	0.278	0.6
Pyraclostrobin	18	1.7	0.001	0.002	(³)
Other Chemicals					
Dichloropropene	4	1.0	53.641	53.641	60.7

¹ Planted acreage in 2006 for Florida was 25,900 acres.

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

³ Total applied is less than 50 lbs.

**Watermelons: Agricultural Chemical Applications,
Georgia, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Clethodim	6	1.0	0.112	0.112	0.2
Ethalfuralin	23	2.3	0.587	1.340	9.7
Naptalam	19	1.0	1.397	1.397	8.1
Insecticides					
Dimethoate	6	2.9	0.190	0.543	1.0
Esfenvalerate	17	1.7	0.034	0.058	0.3
Fungicides					
Boscalid	30	2.0	0.012	0.025	0.2
Chlorothalonil	88	3.5	1.370	4.855	132.4
Mancozeb	29	1.6	1.533	2.455	21.7
Maneb	8	4.1	0.771	3.138	7.8
Pyraclostrobin	30	2.0	0.001	0.001	(²)
Thiophanate-methyl	20	1.2	0.504	0.595	3.7

¹ Planted acreage in 2006 for Georgia was 31,000 acres.

² Total applied is less than 50 lbs.

**Watermelons: Agricultural Chemical Applications,
North Carolina, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Ethalfuralin	35	1.0	0.750	0.777	2.0
Glyphosate iso. salt	7	1.1	0.644	0.725	0.4
Naptalam	5	1.3	1.138	1.512	0.5
Sethoxydim	4	1.0	0.475	0.475	0.1
Insecticides					
Carbaryl	5	1.5	0.941	1.452	0.5
Endosulfan	1	1.2	0.706	0.830	0.1
Esfenvalerate	5	1.6	0.038	0.063	(²)
Fungicides					
Azoxystrobin	10	2.6	0.178	0.463	0.3
Boscalid	33	1.7	0.013	0.022	0.1
Chlorothalonil	44	1.5	1.413	2.141	6.9
Pyraclostrobin	35	1.7	0.010	0.017	(²)
Other Chemicals					
Dichloropropene	8	1.0	93.792	93.792	53.7

¹ Planted acreage in 2006 for North Carolina was 7,400 acres.

² Total applied is less than 50 lbs.

**Watermelons: Agricultural Chemical Applications,
South Carolina, 2006¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Ethalfuralin	26	1.0	0.527	0.527	1.1
Insecticides					
Carbaryl	9	1.0	0.555	0.559	0.4
Endosulfan	8	1.0	0.441	0.445	0.3
Esfenvalerate	2	1.2	0.030	0.035	(²)
Fungicides					
Azoxystrobin	54	1.6	0.158	0.248	1.1
Chlorothalonil	25	2.6	1.749	4.516	8.9
Mancozeb	42	1.5	1.648	2.487	8.3

¹ Planted acreage in 2006 for South Carolina was 8,000 acres.

² Total applied is less than 50 lbs.

**Watermelons: Agricultural Chemical Applications,
Texas, 2006 ¹**

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>1,000 lbs.</i>
Herbicides					
Glyphosate iso. salt	13	1.5	0.668	1.003	3.4
Pendimethalin	9	1.0	0.771	0.771	1.7
Trifluralin	16	1.0	0.884	0.884	3.4
Insecticides					
Bt subsp. kurstaki ²	19	2.1			
Carbaryl	1	1.6	0.570	0.932	0.2
Endosulfan	11	1.0	0.592	0.613	1.7
Imidacloprid	18	1.3	0.131	0.171	0.8
Malathion	1	1.9	1.043	2.006	0.3
Methomyl	9	1.6	0.302	0.471	1.0
Fungicides					
Azoxystrobin	13	1.9	0.226	0.436	1.4
Boscalid	21	1.5	0.013	0.020	0.1
Chlorothalonil	24	3.7	1.422	5.247	32.1
Copper hydroxide	13	1.3	0.814	1.051	3.3
Mancozeb	52	3.7	1.506	5.568	71.7
Myclobutanil	21	1.1	0.064	0.070	0.4
Pyraclostrobin	22	1.5	0.006	0.008	(³)

¹ Planted acreage in 2006 for Texas was 25,000 acres.

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

³ Total applied is less than 50 lbs.

Agricultural Chemical Distribution Table – Highlights

The following tables provide details about the distribution of agricultural chemical active ingredients commonly applied to all targeted vegetable crops. Chemical distribution rates are listed by active ingredient for the Percent of Acres Treated, Number of Applications, Rate per Application, and Rate per Crop Year. In order for an active ingredient to be published in these tables, at least 30 farm operators reported an application of the active ingredient on the specified crop. The data in each table are summarized for a specific group of States, called Program States. The Program States designation is specific for each crop and provided in tables within the publication.

These distribution tables show the 10th percentile, median, 90th percentile, mean, and coefficient of variation (cv) of the reported rates. The 10th percentile is the value below which 10 percent of all application rates fall. Thus, only 10 percent of operators reported an application rate for the active ingredient on the specified crop that was lower than the 10th percentile value. Likewise, the 90th percentile is a value for which 90 percent of all applications were at rates lower than this value. The median is the midpoint of the distribution with half of the reported application rates higher and half lower than the median value. The mean is the weighted average that is calculated by summing the application rate multiplied by the acres applied and then dividing by the acres applied.

The cv is a relative measure of the variability, expressed as a percentage of the estimate. For a specific commodity, the States have different agricultural practices which can lead to a wide range of pesticide usage rates. These ranges can lead to higher cv rates for different active ingredients. Some active ingredients are only applied in one manner resulting in smaller cv's, while other active ingredients have more varied agricultural uses which will have larger cv's. Please see the Survey and Estimation Procedures and Reliability sections for more information.

The Number of Applications, Rate per Application, and Rate per Crop Year distribution tables are calculated using data only from reports where the farm operator applied the active ingredient. Data presented in the Percent of Acres Treated table account for all operations in the sample producing the target commodity, whether or not the listed active ingredient was applied.

**Asparagus: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Diuron	0	85	100	62	17
Glyphosate iso. salt	0	13	100	38	10
Metribuzin	0	0	100	37	36
Trifluralin	0	0	99	25	48
Insecticides					
Carbaryl	0	0	100	38	39
Chlorpyrifos	0	0	100	24	23
Disulfoton	0	0	100	32	28
Permethrin	0	0	100	16	15
Fungicides					
Chlorothalonil	0	0	100	20	11
Mancozeb	0	0	100	14	21

¹ Planted acreage in 2006 for the 3 Program States was 46,200 acres.

**Asparagus: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Diuron	1	1	2	1	9
Glyphosate iso. salt	1	1	2	2	6
Metribuzin	1	1	2	1	11
Trifluralin	1	1	2	1	7
Insecticides					
Carbaryl	1	1	5	2	23
Chlorpyrifos	1	1	2	1	11
Disulfoton	1	1	1	1	5
Permethrin	1	3	5	3	17
Fungicides					
Chlorothalonil	1	3	4	3	10
Mancozeb	1	2	3	2	10

¹ Planted acreage in 2006 for the 3 Program States was 46,200 acres.

**Asparagus: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Diuron	0.785	1.400	2.810	1.523	20
Glyphosate iso. salt	0.563	0.773	2.625	1.095	16
Metribuzin	0.375	0.656	1.054	0.691	16
Trifluralin	0.626	1.121	2.000	1.358	16
Insecticides					
Carbaryl	0.467	0.620	1.446	0.780	17
Chlorpyrifos	0.875	1.000	1.000	0.918	5
Disulfoton	1.000	1.000	1.001	1.001	(²)
Permethrin	0.075	0.100	0.128	0.105	9
Fungicides					
Chlorothalonil	1.313	1.485	1.500	1.490	2
Mancozeb	0.750	1.500	1.602	1.395	5

¹ Planted acreage in 2006 for the 3 Program States was 46,200 acres.

² Less than .5 percent

**Asparagus: Rate per Crop Year Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Diuron	1.000	1.604	3.000	2.034	13
Glyphosate iso. salt	0.732	1.272	2.476	1.608	18
Metribuzin	0.375	0.758	1.313	0.902	11
Trifluralin	0.626	2.000	2.000	1.605	15
Insecticides					
Carbaryl	0.800	1.606	3.060	1.813	11
Chlorpyrifos	0.750	1.000	1.750	1.109	10
Disulfoton	1.000	1.011	1.354	1.114	5
Permethrin	0.100	0.240	0.590	0.291	25
Fungicides					
Chlorothalonil	1.695	4.422	5.940	3.974	10
Mancozeb	1.500	2.431	4.500	2.495	8

¹ Planted acreage in 2006 for the 3 Program States was 46,200 acres.

**Snap Beans, Fresh: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
S-Metolachlor	0	0	100	21	37
Insecticides					
Acephate	0	0	100	20	35
Carbaryl	0	0	0	1	62
Endosulfan	0	0	0	3	45
Esfenvalerate	0	0	100	18	34
Fungicides					
Chlorothalonil	0	0	100	35	40

¹ Planted acreage in 2006 for the 6 Program States was 88,500 acres.

**Snap Beans, Fresh: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
S-Metolachlor	1	1	2	1	24
Insecticides					
Acephate	1	2	3	2	20
Carbaryl	1	1	2	2	22
Endosulfan	1	2	2	2	7
Esfenvalerate	1	2	3	2	13
Fungicides					
Chlorothalonil	1	2	6	3	30

¹ Planted acreage in 2006 for the 6 Program States was 88,500 acres.

**Snap Beans, Fresh: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
S-Metolachlor	0.907	0.953	1.429	1.080	10
Insecticides					
Acephate	0.487	0.750	0.974	0.706	11
Carbaryl	0.531	1.000	1.000	0.902	5
Endosulfan	0.375	0.750	0.750	0.650	15
Esfenvalerate	0.009	0.031	0.046	0.031	20
Fungicides					
Chlorothalonil	0.923	1.480	1.500	1.306	9

¹ Planted acreage in 2006 for the 6 Program States was 88,500 acres.

**Snap Beans, Fresh: Rate per Crop Year Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
S-Metolachlor	0.762	1.426	1.905	1.301	19
Insecticides					
Acephate	0.485	1.207	1.701	1.140	19
Carbaryl	0.886	0.886	2.000	1.436	24
Endosulfan	0.563	1.500	1.500	1.288	17
Esfenvalerate	0.013	0.036	0.093	0.049	19
Fungicides					
Chlorothalonil	1.125	3.000	8.880	3.486	34

¹ Planted acreage in 2006 for the 6 Program States was 88,500 acres.

**Snap Beans, Proc.: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Bentazon	0	0	100	27	31
EPTC	0	0	100	39	27
Fomesafen	0	0	100	11	66
Glyphosate iso. salt	0	0	50	11	33
Halosulfuron	0	0	100	21	60
Imazamox	0	0	8	7	46
S-Metolachlor	0	0	100	35	24
Sethoxydim	0	0	32	8	52
Trifluralin	0	0	100	38	20
Insecticides					
Acephate	0	0	100	16	28
Bifenthrin	0	0	100	40	16
Esfenvalerate	0	0	51	9	16
Ethoprop	0	0	0	7	14
Fungicides					
Boscalid	0	0	48	8	58
Copper hydroxide	0	0	74	16	34
Iprodione	0	0	93	10	11
Thiophanate-methyl	0	25	100	37	11

¹ Planted acreage in 2006 for the 6 Program States was 160,300 acres.

**Snap Beans, Proc.: Number of Applications Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Bentazon	1	1	2	1	8
EPTC	1	1	1	1	8
Fomesafen	1	1	1	1	2
Glyphosate iso. salt	1	1	1	1	1
Halosulfuron	1	1	1	1	1
Imazamox	1	1	1	1	1
S-Metolachlor	1	1	1	1	1
Sethoxydim	1	1	2	1	13
Trifluralin	1	1	1	1	8
Insecticides					
Acephate	1	1	3	1	15
Bifenthrin	1	2	3	2	13
Esfenvalerate	1	1	1	1	6
Ethoprop	1	1	2	1	26
Fungicides					
Boscalid	1	1	2	1	25
Copper hydroxide	1	2	3	2	12
Iprodione	1	1	1	1	3
Thiophanate-methyl	1	1	2	1	9

¹ Planted acreage in 2006 for the 6 Program States was 160,300 acres.

**Snap Beans, Proc.: Rate Per Application Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Bentazon	0.313	0.500	1.000	0.626	14
EPTC	2.188	3.063	3.500	2.954	11
Fomesafen	0.125	0.188	0.250	0.187	9
Glyphosate iso. salt	0.750	0.750	1.500	0.928	9
Halosulfuron	0.023	0.023	0.031	0.026	5
Imazamox	0.031	0.031	0.031	0.031	2
S-Metolachlor	0.762	0.953	1.270	1.007	4
Sethoxydim	0.075	0.223	0.281	0.238	14
Trifluralin	0.500	0.500	0.600	0.527	3
Insecticides					
Acephate	0.375	0.728	0.974	0.656	13
Bifenthrin	0.038	0.040	0.048	0.044	5
Esfenvalerate	0.031	0.039	0.041	0.036	1
Ethoprop	1.980	1.980	3.000	2.345	13
Fungicides					
Boscalid	0.219	0.219	0.350	0.281	17
Copper hydroxide	0.563	0.668	1.150	0.769	14
Iprodione	0.750	0.750	0.850	0.764	2
Thiophanate-methyl	0.700	0.788	1.381	0.920	5

¹ Planted acreage in 2006 for the 6 Program States was 160,300 acres.

**Snap Beans, Proc.: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Bentazon	0.250	0.500	2.000	0.709	21
EPTC	1.750	3.063	4.375	3.244	17
Fomesafen	0.125	0.173	0.250	0.192	10
Glyphosate iso. salt	0.750	0.750	1.500	0.946	9
Halosulfuron	0.023	0.023	0.031	0.026	5
Imazamox	0.031	0.031	0.031	0.031	3
S-Metolachlor	0.762	0.953	1.295	1.027	4
Sethoxydim	0.084	0.281	0.356	0.259	18
Trifluralin	0.500	0.500	1.000	0.573	8
Insecticides					
Acephate	0.563	0.750	1.125	0.921	11
Bifenthrin	0.040	0.078	0.138	0.090	17
Esfenvalerate	0.031	0.039	0.047	0.040	6
Ethoprop	2.250	3.000	3.960	3.208	14
Fungicides					
Boscalid	0.228	0.350	0.438	0.366	10
Copper hydroxide	0.563	1.098	3.450	1.244	24
Iprodione	0.750	0.750	1.003	0.813	3
Thiophanate-methyl	0.700	1.400	1.575	1.314	8

¹ Planted acreage in 2006 for the 6 Program States was 160,300 acres.

**Broccoli: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
DCPA	0	2	72	22	40
Insecticides					
Chlorpyrifos	0	11	69	31	43
Diazinon	0	1	63	17	47
Dimethoate	0	4	73	28	40
Esfenvalerate	0	0	100	19	61
Imidacloprid	0	37	100	41	35
Indoxacarb	0	23	99	34	15
Oxydemeton-methyl	0	14	100	41	25
Spinosad	0	10	100	34	58
Zeta-cypermethrin	0	5	29	14	114

¹ Planted acreage in 2006 for the 1 Program State was 128,500 acres.

**Broccoli: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
DCPA	1	1	1	1	2
Insecticides					
Chlorpyrifos	1	1	1	1	7
Diazinon	1	1	1	1	4
Dimethoate	1	1	1	1	2
Esfenvalerate	1	1	1	1	8
Imidacloprid	1	1	1	1	5
Indoxacarb	1	1	1	1	3
Oxydemeton-methyl	1	1	2	1	9
Spinosad	1	1	1	1	5
Zeta-cypermethrin	1	1	1	1	24

¹ Planted acreage in 2006 for the 1 Program State was 128,500 acres.

**Broccoli: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
DCPA	0.807	2.958	6.230	3.503	47
Insecticides					
Chlorpyrifos	0.612	1.000	1.639	1.064	11
Diazinon	0.452	0.807	1.657	0.908	23
Dimethoate	0.339	0.489	0.501	0.447	6
Esfenvalerate	0.034	0.034	0.047	0.038	9
Imidacloprid	0.046	0.230	0.340	0.187	24
Indoxacarb	0.058	0.065	0.066	0.063	2
Oxydemeton-methyl	0.498	0.500	0.500	0.499	(²)
Spinosad	0.060	0.103	0.105	0.090	11
Zeta-cypermethrin	0.033	0.042	0.050	0.042	32

¹ Planted acreage in 2006 for the 1 Program State was 128,500 acres.

² Less than .5 percent

**Broccoli: Rate per Crop Year Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
DCPA	0.807	2.958	6.758	3.584	48
Insecticides					
Chlorpyrifos	0.677	1.122	1.777	1.154	13
Diazinon	0.452	1.030	1.657	0.967	19
Dimethoate	0.339	0.489	0.503	0.459	7
Esfenvalerate	0.041	0.044	0.048	0.044	3
Imidacloprid	0.047	0.236	0.398	0.202	25
Indoxacarb	0.065	0.066	0.071	0.068	2
Oxydemeton-methyl	0.499	0.501	0.773	0.564	9
Spinosad	0.068	0.111	0.129	0.105	14
Zeta-cypermethrin	0.039	0.047	0.053	0.047	8

¹ Planted acreage in 2006 for the 1 Program State was 128,500 acres.

**Cabbage, Fresh: Percent of Acres Treated Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Oxyfluorfen	0	0	43	11	37
Trifluralin	0	0	100	34	26
Insecticides					
Bt subsp. aizawai	0	0	100	30	21
Bt subsp. kurstaki	0	0	100	30	36
Carbaryl	0	0	0	6	78
Esfenvalerate	0	0	100	15	181
Indoxacarb	0	0	100	30	44
Lambda-cyhalothrin	0	0	85	22	65
Methomyl	0	0	65	11	49
Permethrin	0	0	100	19	30
Spinosad	0	5	100	40	23
Zeta-cypermethrin	0	0	100	16	61
Fungicides					
Chlorothalonil	0	67	100	47	14

¹ Planted acreage in 2006 for the 7 Program States was 63,800 acres.

**Cabbage, Fresh: Number of Applications Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Oxyfluorfen	1	1	1	1	0
Trifluralin	1	1	4	1	25
Insecticides					
Bt subsp. aizawai	1	4	10	5	26
Bt subsp. kurstaki	1	2	6	3	24
Carbaryl	1	1	1	1	4
Esfenvalerate	1	1	6	2	92
Indoxacarb	1	1	3	2	13
Lambda-cyhalothrin	1	1	4	2	27
Methomyl	1	1	3	2	30
Permethrin	1	1	2	1	14
Spinosad	1	2	3	2	21
Zeta-cypermethrin	1	2	2	2	10
Fungicides					
Chlorothalonil	1	2	6	4	33

¹ Planted acreage in 2006 for the 7 Program States was 63,800 acres.

**Cabbage, Fresh: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Oxyfluorfen	0.200	0.378	0.750	0.477	36
Trifluralin	0.125	0.500	1.000	0.463	49
Insecticides					
Carbaryl	1.000	1.000	1.000	0.992	4
Esfenvalerate	0.027	0.041	0.046	0.039	19
Indoxacarb	0.026	0.066	0.066	0.059	6
Lambda-cyhalothrin	0.023	0.026	0.029	0.026	12
Methomyl	0.277	0.450	0.900	0.544	28
Permethrin	0.025	0.139	0.194	0.126	19
Spinosad	0.047	0.063	0.173	0.084	10
Zeta-cypermethrin	0.019	0.025	0.048	0.032	25
Fungicides					
Chlorothalonil	0.750	1.125	1.125	1.041	6

¹ Planted acreage in 2006 for the 7 Program States was 63,800 acres.

**Cabbage, Fresh: Rate per Crop Year Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Oxyfluorfen	0.200	0.391	0.750	0.478	36
Trifluralin	0.500	0.500	1.000	0.640	36
Insecticides					
Carbaryl	1.000	1.000	1.000	1.014	2
Esfenvalerate	0.027	0.046	0.278	0.080	110
Indoxacarb	0.027	0.092	0.197	0.098	17
Lambda-cyhalothrin	0.020	0.033	0.105	0.048	36
Methomyl	0.277	0.720	1.800	0.914	19
Permethrin	0.025	0.194	0.300	0.180	25
Spinosad	0.047	0.094	0.375	0.165	22
Zeta-cypermethrin	0.020	0.050	0.070	0.054	19
Fungicides					
Chlorothalonil	1.040	2.250	6.983	3.872	35

¹ Planted acreage in 2006 for the 7 Program States was 63,800 acres.

**Carrots, Fresh: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides Linuron	0	80	100	64	33

¹ Planted acreage in 2006 for the 3 Program States was 74,500 acres.

**Carrots, Fresh: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides Linuron	1	1	2	1	7

¹ Planted acreage in 2006 for the 3 Program States was 74,500 acres.

**Carrots, Fresh: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides Linuron	0.591	0.697	0.945	0.756	8

¹ Planted acreage in 2006 for the 3 Program States was 74,500 acres.

**Carrots, Fresh: Rate per Crop Year Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides Linuron	0.596	0.945	1.250	0.935	7

¹ Planted acreage in 2006 for the 3 Program States was 74,500 acres.

**Carrots, Proc.: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides Linuron	92	100	100	93	5

¹ Planted acreage in 2006 for the 4 Program States was 14,100 acres.

**Carrots, Proc.: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides Linuron	1	2	3	2	27

¹ Planted acreage in 2006 for the 4 Program States was 14,100 acres.

**Carrots, Proc.: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides Linuron	0.413	0.500	1.000	0.619	47

¹ Planted acreage in 2006 for the 4 Program States was 14,100 acres.

**Carrots, Proc.: Rate per Crop Year Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides Linuron	0.964	1.000	2.000	1.287	25

¹ Planted acreage in 2006 for the 4 Program States was 14,100 acres.

**Cauliflower: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Insecticides					
Imidacloprid	0	19	92	30	27
Indoxacarb	0	56	100	57	15

¹ Planted acreage in 2006 for the 1 Program State was 38,300 acres.

**Cauliflower: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Insecticides					
Imidacloprid	1	1	2	1	8
Indoxacarb	1	1	1	1	6

¹ Planted acreage in 2006 for the 1 Program State was 38,300 acres.

**Cauliflower: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Insecticides					
Imidacloprid	0.047	0.210	0.353	0.181	20
Indoxacarb	0.059	0.063	0.066	0.062	4

¹ Planted acreage in 2006 for the 1 Program State was 38,300 acres.

**Cauliflower: Rate per Crop Year Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Insecticides					
Imidacloprid	0.047	0.216	0.386	0.201	17
Indoxacarb	0.061	0.063	0.070	0.069	8

¹ Planted acreage in 2006 for the 1 Program State was 38,300 acres.

**Sweet Corn, Fresh: Percent of Acres Treated Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
2,4-D, dimeth. salt	0	0	0	2	62
Alachlor	0	0	100	12	77
Atrazine	0	100	100	71	5
Bentazon	0	0	0	4	40
Glyphosate iso. salt	0	0	0	5	41
Mesotrione	0	0	0	5	27
Pendimethalin	0	0	97	13	40
S-Metolachlor	0	0	100	39	22
Insecticides					
Bifenthrin	0	0	0	6	51
Carbaryl	0	0	0	5	29
Chlorpyrifos	0	0	100	23	15
Cyfluthrin	0	0	100	15	24
Esfenvalerate	0	0	100	22	63
Lambda-cyhalothrin	0	50	100	52	26
Methomyl	0	70	100	54	15
Permethrin	0	0	100	14	61
Thiodicarb	0	0	100	23	40
Zeta-cypermethrin	0	0	100	13	38
Fungicides					
Propiconazole	0	0	67	11	82

¹ Planted acreage in 2006 for the 14 Program States was 214,300 acres.

**Sweet Corn, Fresh: Number of Applications Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
2,4-D, dimeth. salt	1	1	1	1	0
Alachlor	1	1	1	1	2
Atrazine	1	1	1	1	3
Bentazon	1	1	1	1	3
Glyphosate iso. salt	1	1	1	1	6
Mesotrione	1	1	1	1	0
Pendimethalin	1	1	1	1	3
S-Metolachlor	1	1	1	1	11
Insecticides					
Bifenthrin	1	2	2	2	14
Carbaryl	1	3	5	3	40
Chlorpyrifos	1	2	4	2	165
Cyfluthrin	1	3	4	3	11
Esfenvalerate	2	4	15	6	63
Lambda-cyhalothrin	1	3	8	4	26
Methomyl	1	5	15	7	34
Permethrin	1	1	3	2	33
Thiodicarb	1	2	7	3	31
Zeta-cypermethrin	1	2	4	2	23
Fungicides					
Propiconazole	1	2	2	2	21

¹ Planted acreage in 2006 for the 14 Program States was 214,300 acres.

**Sweet Corn, Fresh: Rate Per Application Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
2,4-D, dimeth. salt	0.238	0.238	0.950	0.519	48
Alachlor	1.250	1.875	2.000	1.876	4
Atrazine	0.625	1.000	1.550	1.163	6
Bentazon	0.344	0.500	1.000	0.577	10
Glyphosate iso. salt	0.597	0.750	1.125	0.846	12
Mesotrione	0.084	0.134	0.168	0.124	15
Pendimethalin	0.612	0.828	2.490	1.076	23
S-Metolachlor	0.833	1.200	2.498	1.286	13
Insecticides					
Bifenthrin	0.063	0.098	0.100	0.085	17
Carbaryl	0.500	0.500	0.750	0.586	11
Chlorpyrifos	0.500	1.000	1.000	0.821	110
Cyfluthrin	0.025	0.031	0.042	0.034	7
Esfenvalerate	0.031	0.031	0.048	0.037	12
Lambda-cyhalothrin	0.022	0.025	0.031	0.028	14
Methomyl	0.300	0.338	0.450	0.341	8
Permethrin	0.050	0.125	0.157	0.126	15
Thiodicarb	0.192	0.400	0.625	0.477	12
Zeta-cypermethrin	0.019	0.047	0.050	0.038	11
Fungicides					
Propiconazole	0.081	0.084	0.113	0.098	15

¹ Planted acreage in 2006 for the 14 Program States was 214,300 acres.

**Sweet Corn, Fresh: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
2,4-D, dimeth. salt	0.238	0.238	0.950	0.519	48
Alachlor	1.875	1.875	2.000	1.906	4
Atrazine	0.688	1.031	1.938	1.221	7
Bentazon	0.344	0.500	1.000	0.596	10
Glyphosate iso. salt	0.633	0.844	1.125	0.909	11
Mesotrione	0.084	0.134	0.168	0.124	16
Pendimethalin	0.675	0.950	2.490	1.168	22
S-Metolachlor	0.833	1.194	1.910	1.428	24
Insecticides					
Bifenthrin	0.100	0.125	0.186	0.131	19
Carbaryl	1.000	1.500	3.000	1.783	41
Chlorpyrifos	0.900	2.000	4.000	1.921	66
Cyfluthrin	0.027	0.094	0.156	0.093	11
Esfenvalerate	0.062	0.165	0.464	0.215	53
Lambda-cyhalothrin	0.024	0.070	0.229	0.102	30
Methomyl	0.300	2.250	5.063	2.467	40
Permethrin	0.125	0.125	0.600	0.210	40
Thiodicarb	0.192	0.600	3.200	1.393	38
Zeta-cypermethrin	0.013	0.091	0.150	0.086	32
Fungicides					
Propiconazole	0.081	0.169	0.225	0.160	14

¹ Planted acreage in 2006 for the 14 Program States was 214,300 acres.

**Sweet Corn, Proc.: Percent of Acres Treated Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Atrazine	0	100	100	62	15
Bentazon	0	0	100	20	56
Carfentrazone-ethyl	0	0	46	10	34
Dimethenamid-P	0	0	100	23	30
EPTC	0	0	0	3	48
Glyphosate iso. salt	0	0	66	11	35
Mesotrione	0	0	100	18	40
Nicosulfuron	0	0	49	11	29
S-Metolachlor	0	0	100	37	20
Insecticides					
Bifenthrin	0	50	100	51	11
Fungicides					
Azoxystrobin	0	0	13	5	22

¹ Planted acreage in 2006 for the 5 Program States was 346,100 acres.

**Sweet Corn, Proc.: Number of Applications Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Atrazine	1	1	1	1	2
Bentazon	1	1	1	1	0
Carfentrazone-ethyl	1	1	1	1	3
Dimethenamid-P	1	1	1	1	3
EPTC	1	1	1	1	0
Glyphosate iso. salt	1	1	1	1	4
Mesotrione	1	1	1	1	2
Nicosulfuron	1	1	1	1	3
S-Metolachlor	1	1	1	1	2
Insecticides					
Bifenthrin	2	3	3	3	3
Fungicides					
Azoxystrobin	1	1	2	1	6

¹ Planted acreage in 2006 for the 5 Program States was 346,100 acres.

**Sweet Corn, Proc.: Rate Per Application Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Atrazine	0.311	0.500	1.000	0.585	10
Bentazon	0.311	0.363	0.483	0.388	7
Carfentrazone-ethyl	0.007	0.007	0.019	0.010	11
Dimethenamid-P	0.563	0.938	0.984	0.829	11
EPTC	1.884	4.054	5.025	3.788	7
Glyphosate iso. salt	0.472	0.750	1.125	0.778	8
Mesotrione	0.063	0.134	0.168	0.126	12
Nicosulfuron	0.015	0.030	0.031	0.029	14
S-Metolachlor	0.953	1.429	1.910	1.420	7
Insecticides					
Bifenthrin	0.033	0.040	0.044	0.039	3
Fungicides					
Azoxystrobin	0.098	0.104	0.156	0.113	10

¹ Planted acreage in 2006 for the 5 Program States was 346,100 acres.

**Sweet Corn, Proc.: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Atrazine	0.311	0.500	1.000	0.616	11
Bentazon	0.311	0.363	0.483	0.389	7
Carfentrazone-ethyl	0.007	0.007	0.019	0.011	13
Dimethenamid-P	0.563	0.938	0.984	0.841	9
EPTC	1.884	4.054	5.025	3.796	7
Glyphosate iso. salt	0.516	0.750	1.125	0.834	8
Mesotrione	0.063	0.134	0.201	0.130	12
Nicosulfuron	0.015	0.030	0.035	0.030	12
S-Metolachlor	0.953	1.670	1.910	1.477	7
Insecticides					
Bifenthrin	0.064	0.098	0.137	0.100	3
Fungicides					
Azoxystrobin	0.098	0.143	0.208	0.141	10

¹ Planted acreage in 2006 for the 5 Program States was 346,100 acres.

**Cucumbers, Fresh: Percent of Acres Treated Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Clomazone	0	0	0	8	99
Ethalfluralin	0	0	100	17	49
Insecticides					
Carbaryl	0	0	0	5	123
Endosulfan	0	0	100	25	69
Esfenvalerate	0	0	100	26	57
Fungicides					
Chlorothalonil	0	100	100	53	16
Copper hydroxide	0	0	100	16	23
Cymoxanil	0	0	100	37	46
Famoxadone	0	0	100	35	48
Mancozeb	0	0	100	21	65
Maneb	0	0	100	41	37
Propamocarb hydroch.	0	0	100	26	41

¹ Planted acreage in 2006 for the 7 Program States was 53,500 acres.

**Cucumbers, Fresh: Number of Applications Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Clomazone	1	1	1	1	5
Ethalfluralin	1	1	1	1	0
Insecticides					
Carbaryl	1	1	2	1	24
Endosulfan	1	4	4	3	46
Esfenvalerate	2	4	4	4	27
Fungicides					
Chlorothalonil	1	4	10	5	23
Copper hydroxide	1	2	5	3	26
Cymoxanil	1	3	5	3	17
Famoxadone	1	3	5	3	18
Mancozeb	2	3	5	4	14
Maneb	1	4	7	4	19
Propamocarb hydroch.	1	4	7	4	31

¹ Planted acreage in 2006 for the 7 Program States was 53,500 acres.

**Cucumbers, Fresh: Rate Per Application Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Clomazone	0.039	0.129	1.125	0.310	72
Ethalfluralin	0.325	0.563	1.125	0.654	31
Insecticides					
Carbaryl	0.750	1.000	1.000	0.899	18
Endosulfan	0.563	0.563	0.563	0.572	6
Esfenvalerate	0.033	0.046	0.046	0.044	12
Fungicides					
Chlorothalonil	0.750	1.125	2.250	1.271	17
Copper hydroxide	0.350	0.575	0.863	0.554	15
Cymoxanil	0.125	0.125	0.156	0.140	10
Famoxadone	0.125	0.125	0.156	0.140	10
Mancozeb	1.000	1.334	1.500	1.375	9
Maneb	0.500	1.133	1.600	1.222	26
Propamocarb hydroch.	0.563	0.844	0.938	0.793	6

¹ Planted acreage in 2006 for the 7 Program States was 53,500 acres.

**Cucumbers, Fresh: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Clomazone	0.039	0.141	1.125	0.317	73
Ethalfluralin	0.325	0.563	1.125	0.654	31
Insecticides					
Carbaryl	0.750	1.000	2.000	1.080	39
Endosulfan	0.750	2.250	2.250	1.957	41
Esfenvalerate	0.062	0.186	0.186	0.157	39
Fungicides					
Chlorothalonil	1.500	4.500	12.000	5.726	19
Copper hydroxide	0.375	1.150	3.688	1.822	22
Cymoxanil	0.125	0.469	0.625	0.430	10
Famoxadone	0.129	0.469	0.625	0.447	9
Mancozeb	1.548	4.500	6.670	4.752	19
Maneb	1.000	5.625	6.400	4.953	22
Propamocarb hydroch.	0.478	2.813	4.500	2.847	30

¹ Planted acreage in 2006 for the 7 Program States was 53,500 acres.

**Cucumbers, Pickles: Percent of Acres Treated Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Clomazone	0	0	100	36	26
Ethalfuralin	0	100	100	68	17
Insecticides					
Carbaryl	0	0	0	2	61
Fungicides					
Chlorothalonil	0	56	100	50	19
Cymoxanil	0	49	100	45	19
Famoxadone	0	49	100	45	19
Mancozeb	0	49	100	45	22
Propamocarb hydroch.	0	0	100	41	11

¹ Planted acreage in 2006 for the 7 Program States was 71,400 acres.

**Cucumbers, Pickles: Number of Applications Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Clomazone	1	1	1	1	6
Ethalfuralin	1	1	1	1	5
Insecticides					
Carbaryl	1	1	4	2	25
Fungicides					
Chlorothalonil	2	2	3	2	6
Cymoxanil	1	2	3	2	11
Famoxadone	1	2	2	2	10
Mancozeb	1	2	3	2	13
Propamocarb hydroch.	2	2	3	2	5

¹ Planted acreage in 2006 for the 7 Program States was 71,400 acres.

**Cucumbers, Pickles: Rate Per Application Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Clomazone	0.059	0.075	0.250	0.138	27
Ethalfluralin	0.375	0.563	1.125	0.646	22
Insecticides					
Carbaryl	0.500	0.750	1.000	0.757	15
Fungicides					
Chlorothalonil	0.750	1.057	1.500	1.134	13
Cymoxanil	0.083	0.125	0.134	0.116	8
Famoxadone	0.083	0.109	0.125	0.109	8
Mancozeb	0.200	1.500	2.250	1.379	16
Propamocarb hydroch.	0.234	0.619	0.900	0.677	10

¹ Planted acreage in 2006 for the 7 Program States was 71,400 acres.

**Cucumbers, Pickles: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Clomazone	0.059	0.075	0.375	0.147	31
Ethalfluralin	0.375	0.563	1.125	0.672	21
Insecticides					
Carbaryl	0.500	0.500	3.750	1.362	37
Fungicides					
Chlorothalonil	1.390	1.688	3.713	2.376	16
Cymoxanil	0.157	0.170	0.334	0.223	14
Famoxadone	0.109	0.167	0.250	0.175	7
Mancozeb	0.200	2.123	5.010	2.750	27
Propamocarb hydroch.	0.750	1.238	2.150	1.403	9

¹ Planted acreage in 2006 for the 7 Program States was 71,400 acres.

**Head Lettuce: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Bensulide	0	11	66	24	40
Pronamide	16	53	97	55	19
Insecticides					
Abamectin	0	0	73	18	36
Acephate	0	39	100	41	23
Acetamiprid	0	12	46	18	28
Benzoic acid	0	40	100	46	22
Cyfluthrin	0	0	45	11	53
Diazinon	0	68	100	60	13
Dimethoate	0	12	75	22	32
Emamectin benzoate	0	4	67	20	40
Esfenvalerate	0	0	50	10	45
Imidacloprid	6	63	100	64	20
Indoxacarb	0	3	55	13	47
Lambda-cyhalothrin	0	15	100	34	30
Methomyl	0	40	100	43	14
Oxydemeton-methyl	0	0	100	25	41
Permethrin	0	51	89	50	12
Spinosad	6	100	100	71	12
Zeta-cypermethrin	0	100	100	74	8
Fungicides					
Boscalid	0	0	67	21	48
Cymoxanil	0	0	35	10	38
Dimethomorph	0	12	100	34	40
Famoxadone	0	0	35	10	38
Fosetyl-al	0	0	79	21	59
Iprodione	0	3	90	29	32
Maneb	8	100	100	75	8
Mefenoxam	0	0	25	8	39
Phosphorous acid	0	0	33	10	35
Pyraclostrobin	0	2	34	10	28

¹ Planted acreage in 2006 for the 2 Program States was 174,000 acres.

**Head Lettuce: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Bensulide	1	1	1	1	1
Pronamide	1	1	1	1	2
Insecticides					
Abamectin	1	1	1	1	0
Acephate	1	1	1	1	6
Acetamiprid	1	1	1	1	2
Benzoic acid	1	1	1	1	4
Cyfluthrin	1	1	1	1	11
Diazinon	1	1	4	2	24
Dimethoate	1	1	1	1	10
Emamectin benzoate	1	1	1	1	8
Esfenvalerate	1	1	1	1	6
Imidacloprid	1	1	1	1	3
Indoxacarb	1	1	1	1	5
Lambda-cyhalothrin	1	1	2	1	18
Methomyl	1	1	3	1	15
Oxydemeton-methyl	1	1	1	1	4
Permethrin	1	1	3	1	10
Spinosad	1	1	3	2	11
Zeta-cypermethrin	1	2	3	2	14
Fungicides					
Boscalid	1	1	1	1	10
Cymoxanil	1	1	1	1	3
Dimethomorph	1	1	2	1	10
Famoxadone	1	1	1	1	3
Fosetyl-al	1	1	1	1	8
Iprodione	1	1	1	1	8
Maneb	1	1	3	2	15
Mefenoxam	1	1	1	1	3
Phosphorous acid	1	1	1	1	2
Pyraclostrobin	1	1	1	1	5

¹ Planted acreage in 2006 for the 2 Program States was 174,000 acres.

**Head Lettuce: Rate Per Application Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Bensulide	2.000	4.526	6.005	4.284	17
Pronamide	0.448	0.637	0.777	0.641	7
Insecticides					
Abamectin	0.005	0.006	0.009	0.007	5
Acephate	0.586	0.872	0.970	0.841	8
Acetamiprid	0.051	0.061	0.072	0.061	4
Benzoic acid	0.113	0.131	0.218	0.153	19
Cyfluthrin	0.035	0.041	0.044	0.040	5
Diazinon	0.427	0.663	0.767	0.639	10
Dimethoate	0.095	0.235	0.251	0.199	15
Emamectin benzoate	0.007	0.010	0.013	0.010	12
Esfenvalerate	0.039	0.041	0.048	0.042	5
Imidacloprid	0.047	0.223	0.313	0.198	11
Indoxacarb	0.059	0.080	0.098	0.081	8
Lambda-cyhalothrin	0.023	0.029	0.030	0.028	4
Methomyl	0.478	0.562	0.746	0.583	6
Oxydemeton-methyl	0.500	0.500	0.500	0.497	1
Permethrin	0.114	0.138	0.192	0.147	4
Spinosad	0.068	0.078	0.083	0.077	2
Zeta-cypermethrin	0.042	0.047	0.050	0.046	4
Fungicides					
Boscalid	0.256	0.358	0.481	0.360	12
Cymoxanil	0.112	0.125	0.125	0.122	2
Dimethomorph	0.187	0.200	0.200	0.197	1
Famoxadone	0.112	0.125	0.125	0.122	2
Fosetyl-al	2.226	2.520	3.192	2.665	6
Iprodione	0.762	0.999	1.001	0.961	4
Maneb	1.016	1.497	1.513	1.356	5
Mefenoxam	0.116	0.125	0.125	0.123	2
Phosphorous acid	0.943	1.839	1.950	1.596	10
Pyraclostrobin	0.123	0.184	0.200	0.170	7

¹ Planted acreage in 2006 for the 2 Program States was 174,000 acres.

**Head Lettuce: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Bensulide	2.000	4.526	6.005	4.353	17
Pronamide	0.448	0.637	0.858	0.676	7
Insecticides					
Abamectin	0.005	0.006	0.009	0.007	5
Acephate	0.682	0.875	1.310	0.934	12
Acetamiprid	0.051	0.066	0.075	0.064	4
Benzoic acid	0.116	0.157	0.265	0.171	23
Cyfluthrin	0.035	0.043	0.060	0.047	9
Diazinon	0.469	0.663	3.070	1.033	32
Dimethoate	0.095	0.244	0.292	0.217	19
Emamectin benzoate	0.007	0.011	0.017	0.013	19
Esfenvalerate	0.040	0.042	0.051	0.044	3
Imidacloprid	0.047	0.250	0.316	0.209	10
Indoxacarb	0.061	0.095	0.103	0.088	7
Lambda-cyhalothrin	0.027	0.030	0.057	0.039	20
Methomyl	0.624	0.771	1.390	0.845	13
Oxydemeton-methyl	0.500	0.500	0.633	0.549	5
Permethrin	0.114	0.165	0.350	0.180	10
Spinosad	0.074	0.107	0.196	0.121	11
Zeta-cypermethrin	0.048	0.070	0.110	0.075	13
Fungicides					
Boscalid	0.256	0.350	0.481	0.373	20
Cymoxanil	0.124	0.125	0.152	0.129	3
Dimethomorph	0.197	0.244	0.345	0.259	11
Famoxadone	0.124	0.125	0.152	0.129	3
Fosetyl-al	2.226	2.520	3.630	2.993	13
Iprodione	0.762	0.999	1.281	1.024	8
Maneb	1.270	1.671	4.023	2.167	19
Mefenoxam	0.121	0.125	0.147	0.129	3
Phosphorous acid	0.943	1.839	1.950	1.647	10
Pyraclostrobin	0.141	0.184	0.200	0.186	7

¹ Planted acreage in 2006 for the 2 Program States was 174,000 acres.

**Other Lettuce: Percent of Acres Treated Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Bensulide	0	15	91	28	40
Pronamide	1	61	99	55	41
Insecticides					
Acetamiprid	0	18	79	30	46
Benzoic acid	0	18	46	21	33
Diazinon	0	43	100	52	31
Dimethoate	0	1	55	15	42
Imidacloprid	0	65	100	62	21
Indoxacarb	0	0	18	4	69
Lambda-cyhalothrin	0	22	100	36	47
Methomyl	0	30	97	40	39
Permethrin	0	27	100	43	46
Pymetrozine	0	0	46	12	116
Spinosad	4	63	100	56	23
Zeta-cypermethrin	9	70	100	66	25
Fungicides					
Boscalid	0	3	48	19	29
Dimethomorph	0	28	100	39	42
Fosetyl-al	0	7	83	29	53
Iprodione	0	1	68	13	62
Maneb	6	64	100	66	16
Mefenoxam	0	3	68	16	173
Phosphorous acid	0	3	36	11	97
Pyraclostrobin	0	8	55	16	88

¹ Planted acreage in 2006 for the 2 Program States was 133,400 acres.

**Other Lettuce: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Bensulide	1	1	1	1	7
Pronamide	1	1	1	1	4
Insecticides					
Acetamiprid	1	1	1	1	5
Benzoic acid	1	1	1	1	1
Diazinon	1	1	4	2	29
Dimethoate	1	1	1	1	3
Imidacloprid	1	1	2	1	12
Indoxacarb	1	1	1	1	6
Lambda-cyhalothrin	1	1	2	1	15
Methomyl	1	1	2	1	20
Permethrin	1	1	2	1	13
Pymetrozine	1	1	1	1	2
Spinosad	1	1	3	1	20
Zeta-cypermethrin	1	1	2	2	34
Fungicides					
Boscalid	1	1	1	1	2
Dimethomorph	1	1	1	1	4
Fosetyl-al	1	1	1	1	8
Iprodione	1	1	1	1	12
Maneb	1	1	3	2	35
Mefenoxam	1	1	1	1	3
Phosphorous acid	1	1	1	1	2
Pyraclostrobin	1	1	1	1	2

¹ Planted acreage in 2006 for the 2 Program States was 133,400 acres.

**Other Lettuce: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Bensulide	2.329	3.301	5.134	3.703	17
Pronamide	0.505	0.793	1.695	0.908	17
Insecticides					
Acetamiprid	0.057	0.062	0.073	0.064	6
Benzoic acid	0.112	0.125	0.175	0.134	13
Diazinon	0.454	0.590	0.826	0.669	28
Dimethoate	0.215	0.246	0.250	0.233	6
Imidacloprid	0.047	0.049	0.288	0.113	40
Indoxacarb	0.062	0.074	0.091	0.076	12
Lambda-cyhalothrin	0.024	0.029	0.030	0.028	6
Methomyl	0.481	0.654	0.820	0.643	11
Permethrin	0.119	0.144	0.188	0.144	6
Pymetrozine	0.083	0.086	0.086	0.085	1
Spinosad	0.067	0.078	0.090	0.079	3
Zeta-cypermethrin	0.036	0.046	0.050	0.045	16
Fungicides					
Boscalid	0.287	0.417	0.478	0.400	11
Dimethomorph	0.184	0.199	0.200	0.195	1
Fosetyl-al	2.308	2.645	3.117	2.650	8
Iprodione	0.987	1.000	1.000	0.991	1
Maneb	1.013	1.500	1.600	1.425	9
Mefenoxam	0.114	0.114	0.371	0.148	49
Phosphorous acid	1.147	1.950	1.950	1.727	17
Pyraclostrobin	0.122	0.183	0.200	0.176	17

¹ Planted acreage in 2006 for the 2 Program States was 133,400 acres.

**Other Lettuce: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Bensulide	2.329	3.301	5.638	3.782	21
Pronamide	0.517	0.824	1.695	0.939	18
Insecticides					
Acetamiprid	0.060	0.070	0.085	0.070	9
Benzoic acid	0.112	0.127	0.192	0.137	14
Diazinon	0.501	0.818	2.683	1.133	23
Dimethoate	0.228	0.246	0.262	0.243	7
Imidacloprid	0.047	0.077	0.321	0.146	31
Indoxacarb	0.066	0.074	0.091	0.082	11
Lambda-cyhalothrin	0.026	0.030	0.061	0.037	15
Methomyl	0.542	0.666	0.989	0.746	20
Permethrin	0.121	0.168	0.277	0.176	15
Pymetrozine	0.083	0.086	0.087	0.086	1
Spinosad	0.070	0.088	0.195	0.113	18
Zeta-cypermethrin	0.047	0.058	0.100	0.068	22
Fungicides					
Boscalid	0.294	0.426	0.478	0.406	10
Dimethomorph	0.184	0.200	0.259	0.215	5
Fosetyl-al	2.365	2.645	4.133	2.876	15
Iprodione	0.996	1.000	1.369	1.087	13
Maneb	1.022	1.727	3.598	2.106	44
Mefenoxam	0.110	0.119	0.371	0.155	48
Phosphorous acid	1.308	1.950	1.950	1.755	15
Pyraclostrobin	0.123	0.183	0.204	0.179	16

¹ Planted acreage in 2006 for the 2 Program States was 133,400 acres.

**Onions: Rate Per Application Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Bromoxynil	0.063	0.149	0.359	0.171	17
Bromoxynil heptan.	0.038	0.074	0.313	0.121	26
Bromoxynil octanoate	0.063	0.125	0.375	0.195	32
Clethodim	0.094	0.125	0.176	0.132	4
Dimethenamid-P	0.422	0.633	1.125	0.696	12
Fluazifop-P-butyl	0.078	0.188	0.375	0.203	15
Glyphosate iso. salt	0.375	0.694	2.163	1.038	29
Oxyfluorfen	0.013	0.115	0.250	0.137	15
Pendimethalin	0.413	0.758	1.650	0.911	5
Insecticides					
Chlorpyrifos	0.750	1.014	2.500	1.367	13
Diazinon	0.500	1.000	4.000	1.906	46
Lambda-cyhalothrin	0.016	0.027	0.031	0.026	5
Methomyl	0.450	0.674	0.900	0.656	7
Methyl parathion	0.250	0.438	0.500	0.418	8
Oxamyl	0.250	0.250	1.000	0.476	29
Zeta-cypermethrin	0.025	0.049	0.050	0.042	7
Fungicides					
Chlorothalonil	0.260	1.125	1.500	1.064	12
Copper hydroxide	0.408	0.670	1.153	0.718	11
Iprodione	0.313	0.500	0.756	0.552	10
Mancozeb	0.300	1.469	2.250	1.284	12
Mefenoxam	0.078	0.094	0.165	0.102	7

¹ Planted acreage in 2006 for the 7 Program States was 141,000 acres.

**Onions: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Bromoxynil	0.078	0.250	0.544	0.285	22
Bromoxynil heptan.	0.047	0.076	0.250	0.152	32
Bromoxynil octanoate	0.061	0.125	0.750	0.272	43
Clethodim	0.094	0.156	0.250	0.161	7
Dimethenamid-P	0.375	1.219	2.953	1.427	14
Fluazifop-P-butyl	0.156	0.188	0.452	0.245	15
Glyphosate iso. salt	0.375	0.694	3.029	1.193	35
Oxyfluorfen	0.063	0.225	0.500	0.269	13
Pendimethalin	0.410	1.118	3.300	1.428	9
Insecticides					
Chlorpyrifos	0.750	1.050	2.500	1.426	12
Diazinon	0.500	2.000	8.000	3.416	50
Lambda-cyhalothrin	0.023	0.039	0.119	0.058	13
Methomyl	0.548	0.900	2.543	1.300	11
Methyl parathion	0.500	0.750	1.625	0.830	13
Oxamyl	0.625	1.250	3.000	1.449	14
Zeta-cypermethrin	0.025	0.094	0.140	0.089	14
Fungicides					
Chlorothalonil	1.173	2.445	6.750	3.357	8
Copper hydroxide	0.650	1.750	4.020	2.119	15
Iprodione	0.500	0.750	3.063	1.256	20
Mancozeb	0.750	2.571	10.500	4.549	13
Mefenoxam	0.082	0.138	0.250	0.150	7

¹ Planted acreage in 2006 for the 7 Program States was 141,000 acres.

**Onions: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Bromoxynil	0	0	100	25	18
Bromoxynil heptan.	0	0	100	16	41
Bromoxynil octanoate	0	0	100	22	36
Clethodim	0	0	52	12	17
Dimethenamid-P	0	0	16	9	17
Fluazifop-P-butyl	0	0	71	12	26
Glyphosate iso. salt	0	0	100	19	35
Oxyfluorfen	0	100	100	69	13
Pendimethalin	0	68	100	57	12
Insecticides					
Chlorpyrifos	0	0	100	32	19
Diazinon	0	0	100	16	35
Lambda-cyhalothrin	0	0	100	34	14
Methomyl	0	0	100	31	16
Methyl parathion	0	0	63	11	32
Oxamyl	0	0	100	13	46
Zeta-cypermethrin	0	0	100	24	27
Fungicides					
Chlorothalonil	0	63	100	50	14
Copper hydroxide	0	0	100	35	20
Iprodione	0	0	41	11	31
Mancozeb	0	100	100	58	18
Mefenoxam	0	0	100	29	25

¹ Planted acreage in 2006 for the 7 Program States was 141,000 acres.

**Onions: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Bromoxynil	1	2	3	2	11
Bromoxynil heptan.	1	1	2	1	11
Bromoxynil octanoate	1	1	2	1	13
Clethodim	1	1	2	1	6
Dimethenamid-P	1	2	3	2	10
Fluazifop-P-butyl	1	1	2	1	8
Glyphosate iso. salt	1	1	1	1	6
Oxyfluorfen	1	1	4	2	9
Pendimethalin	1	1	2	2	6
Insecticides					
Chlorpyrifos	1	1	1	1	3
Diazinon	1	2	2	2	11
Lambda-cyhalothrin	1	2	4	2	15
Methomyl	1	2	3	2	7
Methyl parathion	1	2	5	2	19
Oxamyl	1	3	5	3	24
Zeta-cypermethrin	1	2	3	2	10
Fungicides					
Chlorothalonil	1	2	6	3	11
Copper hydroxide	1	2	6	3	22
Iprodione	1	1	6	2	20
Mancozeb	1	3	7	4	14
Mefenoxam	1	2	2	2	7

¹ Planted acreage in 2006 for the 7 Program States was 141,000 acres.

**Green Peas, Proc.: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Bentazon	0	0	100	25	14
Imazethapyr	0	0	100	47	10
MCPB	0	0	100	17	39
Pendimethalin	0	100	100	61	6
Insecticides					
Dimethoate	0	0	25	10	41

¹ Planted acreage in 2006 for the 5 Program States was 190,000 acres.

**Green Peas, Proc.: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Bentazon	1	1	1	1	2
Imazethapyr	1	1	1	1	0
MCPB	1	1	1	1	1
Pendimethalin	1	1	1	1	1
Insecticides					
Dimethoate	1	1	2	1	9

¹ Planted acreage in 2006 for the 5 Program States was 190,000 acres.

**Green Peas, Proc.: Rate Per Application Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Bentazon	0.500	0.625	1.000	0.699	18
Imazethapyr	0.031	0.047	0.050	0.043	6
MCPB	0.280	0.500	1.000	0.621	24
Pendimethalin	0.500	0.635	0.900	0.701	9
Insecticides					
Dimethoate	0.086	0.165	0.500	0.239	24

¹ Planted acreage in 2006 for the 5 Program States was 190,000 acres.

**Green Peas, Proc.: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Bentazon	0.500	0.523	1.000	0.724	18
Imazethapyr	0.031	0.047	0.050	0.044	6
MCPB	0.280	0.500	1.000	0.628	23
Pendimethalin	0.500	0.670	0.900	0.714	9
Insecticides					
Dimethoate	0.083	0.250	0.500	0.288	26

¹ Planted acreage in 2006 for the 5 Program States was 190,000 acres.

**Bell Peppers: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Insecticides					
Acephate	0	0	100	45	51
Benzoic acid	0	11	100	40	42
Esfenvalerate	0	0	72	15	24
Imidacloprid	0	58	100	46	46
Methomyl	0	0	100	33	27
Spinosad	0	100	100	60	18
Fungicides					
Chlorothalonil	0	0	0	1	44
Copper hydroxide	0	40	100	51	24
Maneb	0	0	100	45	5

¹ Planted acreage in 2006 for the 5 Program States was 60,900 acres.

**Bell Peppers: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Insecticides					
Acephate	1	1	11	3	73
Benzoic acid	1	2	2	2	20
Esfenvalerate	1	1	2	1	12
Imidacloprid	1	2	2	2	13
Methomyl	1	1	4	2	85
Spinosad	1	3	3	2	13
Fungicides					
Chlorothalonil	1	2	8	3	18
Copper hydroxide	1	5	7	5	27
Maneb	4	6	12	7	26

¹ Planted acreage in 2006 for the 5 Program States was 60,900 acres.

**Bell Peppers: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Insecticides					
Acephate	0.487	0.750	0.750	0.703	9
Benzoic acid	0.125	0.125	0.170	0.135	4
Esfenvalerate	0.033	0.043	0.046	0.042	3
Imidacloprid	0.047	0.048	0.257	0.101	34
Methomyl	0.360	0.600	0.900	0.618	39
Spinosad	0.073	0.096	0.125	0.102	15
Fungicides					
Chlorothalonil	0.750	1.500	1.500	1.259	12
Copper hydroxide	0.438	0.800	0.800	0.713	13
Maneb	1.000	1.600	1.600	1.412	15

¹ Planted acreage in 2006 for the 5 Program States was 60,900 acres.

**Bell Peppers: Rate per Crop Year Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Insecticides					
Acephate	0.487	0.750	8.250	1.785	81
Benzoic acid	0.135	0.250	0.274	0.222	18
Esfenvalerate	0.042	0.044	0.086	0.060	12
Imidacloprid	0.066	0.095	0.315	0.161	23
Methomyl	0.900	0.900	1.440	1.383	49
Spinosad	0.107	0.233	0.375	0.248	18
Fungicides					
Chlorothalonil	0.750	3.000	7.500	4.305	18
Copper hydroxide	1.024	3.500	5.600	3.510	38
Maneb	4.000	9.600	16.000	10.011	22

¹ Planted acreage in 2006 for the 5 Program States was 60,900 acres.

**Pumpkins: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Clomazone	0	100	100	60	16
Ethalfuralin	0	0	100	25	31
Glyphosate iso. salt	0	0	100	24	41
Halosulfuron	0	0	52	15	33
Insecticides					
Bifenthrin	0	0	100	40	32
Carbaryl	0	0	100	18	24
Endosulfan	0	0	100	16	40
Esfenvalerate	0	0	16	6	31
Imidacloprid	0	0	86	14	46
Lambda-cyhalothrin	0	0	0	4	32
Permethrin	0	0	10	8	53
Fungicides					
Azoxystrobin	0	0	100	22	41
Chlorothalonil	0	0	100	48	21
Copper hydroxide	0	0	100	28	30
Cymoxanil	0	0	0	5	57
Famoxadone	0	0	0	5	54
Mancozeb	0	0	100	11	55
Myclobutanil	0	0	100	16	20
Pyraclostrobin	0	0	100	18	51

¹ Planted acreage in 2006 for the 5 Program States was 42,000 acres.

**Pumpkins: Number of Applications Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Clomazone	1	1	1	1	0
Ethalfuralin	1	1	1	1	0
Glyphosate iso. salt	1	1	1	1	4
Halosulfuron	1	1	1	1	2
Insecticides					
Bifenthrin	1	1	2	1	11
Carbaryl	1	2	4	2	13
Endosulfan	1	1	3	2	29
Esfenvalerate	1	2	4	2	20
Imidacloprid	1	1	1	1	5
Lambda-cyhalothrin	1	2	4	2	17
Permethrin	1	2	5	3	24
Fungicides					
Azoxystrobin	1	1	2	1	12
Chlorothalonil	1	1	4	2	27
Copper hydroxide	1	2	3	2	9
Cymoxanil	1	1	4	2	65
Famoxadone	1	1	4	2	64
Mancozeb	1	2	2	2	15
Myclobutanil	1	2	4	2	11
Pyraclostrobin	1	2	2	2	11

¹ Planted acreage in 2006 for the 5 Program States was 42,000 acres.

**Pumpkins: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Clomazone	0.188	0.563	0.750	0.504	10
Ethalfuralin	0.532	0.800	1.125	0.785	9
Glyphosate iso. salt	0.750	1.315	1.500	1.147	15
Halosulfuron	0.014	0.023	0.047	0.026	25
Insecticides					
Bifenthrin	0.042	0.047	0.110	0.057	15
Carbaryl	0.500	1.000	1.000	0.897	4
Endosulfan	0.495	0.750	0.750	0.691	6
Esfenvalerate	0.031	0.036	0.049	0.037	5
Imidacloprid	0.125	0.252	0.322	0.252	17
Lambda-cyhalothrin	0.008	0.023	0.025	0.022	20
Permethrin	0.050	0.150	0.188	0.133	11
Fungicides					
Azoxystrobin	0.098	0.175	0.195	0.165	8
Chlorothalonil	1.043	1.500	2.104	1.489	5
Copper hydroxide	0.350	0.756	0.967	0.714	9
Cymoxanil	0.063	0.125	0.125	0.115	39
Famoxadone	0.063	0.125	0.125	0.113	46
Mancozeb	1.074	1.600	1.600	1.508	9
Myclobutanil	0.069	0.100	0.125	0.102	6
Pyraclostrobin	0.001	0.075	0.125	0.083	16

¹ Planted acreage in 2006 for the 5 Program States was 42,000 acres.

**Pumpkins: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Clomazone	0.188	0.563	0.750	0.505	10
Ethalfuralin	0.532	0.800	1.125	0.786	9
Glyphosate iso. salt	0.750	1.500	1.576	1.213	12
Halosulfuron	0.014	0.023	0.047	0.027	25
Insecticides					
Bifenthrin	0.042	0.047	0.110	0.075	13
Carbaryl	0.500	2.000	4.000	1.869	12
Endosulfan	0.750	0.750	2.250	1.070	25
Esfenvalerate	0.031	0.064	0.165	0.082	18
Imidacloprid	0.125	0.322	0.358	0.267	14
Lambda-cyhalothrin	0.016	0.023	0.100	0.049	29
Permethrin	0.051	0.254	0.750	0.334	20
Fungicides					
Azoxystrobin	0.175	0.175	0.390	0.226	10
Chlorothalonil	1.500	1.500	6.000	2.999	27
Copper hydroxide	0.639	1.512	2.300	1.529	13
Cymoxanil	0.094	0.125	0.375	0.207	29
Famoxadone	0.094	0.125	0.375	0.203	20
Mancozeb	1.500	3.200	3.200	2.843	21
Myclobutanil	0.100	0.208	0.375	0.227	12
Pyraclostrobin	0.004	0.151	0.151	0.143	19

¹ Planted acreage in 2006 for the 5 Program States was 42,000 acres.

**Spinach, Fresh: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Insecticides					
Imidacloprid	0	8	62	24	38
Permethrin	0	17	100	46	47
Spinosad	0	36	100	47	46
Zeta-cypermethrin	0	35	100	39	65
Fungicides					
Mefenoxam	0	62	87	48	38

¹ Planted acreage in 2006 for the 3 Program States was 46,400 acres.

**Spinach, Fresh: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Insecticides					
Imidacloprid	1	1	1	1	4
Permethrin	1	1	2	1	14
Spinosad	1	1	2	1	23
Zeta-cypermethrin	1	1	2	1	9
Fungicides					
Mefenoxam	1	1	1	1	2

¹ Planted acreage in 2006 for the 3 Program States was 46,400 acres.

**Spinach, Fresh: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Insecticides					
Imidacloprid	0.046	0.047	0.241	0.103	48
Permethrin	0.154	0.166	0.187	0.169	3
Spinosad	0.081	0.092	0.099	0.092	5
Zeta-cypermethrin	0.044	0.048	0.050	0.047	3
Fungicides					
Mefenoxam	0.445	0.524	0.852	0.611	10

¹ Planted acreage in 2006 for the 3 Program States was 46,400 acres.

**Spinach, Fresh: Rate per Crop Year Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Insecticides					
Imidacloprid	0.047	0.048	0.241	0.109	47
Permethrin	0.181	0.237	0.317	0.242	12
Spinosad	0.078	0.101	0.195	0.125	24
Zeta-cypermethrin	0.049	0.050	0.071	0.056	9
Fungicides					
Mefenoxam	0.514	0.524	0.994	0.639	12

¹ Planted acreage in 2006 for the 3 Program States was 46,400 acres.

**Squash: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Clomazone	0	0	100	13	35
Ethalfuralin	0	0	100	25	24
Glyphosate iso. salt	0	0	0	2	71
Insecticides					
Carbaryl	0	0	100	12	37
Endosulfan	0	0	100	21	37
Esfenvalerate	0	0	100	25	26
Imidacloprid	0	0	0	4	78
Methomyl	0	0	0	3	41
Permethrin	0	0	33	10	48
Fungicides					
Azoxystrobin	0	0	0	4	70
Chlorothalonil	0	0	100	45	14
Copper hydroxide	0	0	100	13	21
Cymoxanil	0	0	100	16	42
Famoxadone	0	0	100	16	42
Mancozeb	0	0	100	16	73
Maneb	0	0	100	20	33
Myclobutanil	0	0	9	7	47
Pyraclostrobin	0	0	0	9	50

¹ Planted acreage in 2006 for the 7 Program States was 52,200 acres.

**Squash: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Clomazone	1	1	1	1	4
Ethalfuralin	1	1	1	1	0
Glyphosate iso. salt	1	1	1	1	2
Insecticides					
Carbaryl	1	1	3	2	25
Endosulfan	2	4	5	4	16
Esfenvalerate	1	3	4	3	15
Imidacloprid	1	1	2	1	19
Methomyl	1	2	20	9	65
Permethrin	2	3	4	3	11
Fungicides					
Azoxystrobin	1	2	5	2	43
Chlorothalonil	1	3	7	3	20
Copper hydroxide	1	2	7	3	53
Cymoxanil	1	2	5	2	29
Famoxadone	1	2	5	2	29
Mancozeb	1	4	5	4	8
Maneb	1	3	5	3	20
Myclobutanil	1	1	2	2	31
Pyraclostrobin	1	1	2	2	17

¹ Planted acreage in 2006 for the 7 Program States was 52,200 acres.

**Squash: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Clomazone	0.094	0.205	0.563	0.291	40
Ethalfluralin	0.375	0.750	1.125	0.650	15
Glyphosate iso. salt	0.527	0.980	1.500	0.936	17
Insecticides					
Carbaryl	0.500	1.000	1.000	0.767	21
Endosulfan	0.488	0.563	0.750	0.596	8
Esfenvalerate	0.031	0.041	0.046	0.039	10
Imidacloprid	0.047	0.156	0.359	0.175	23
Methomyl	0.300	0.300	0.300	0.318	6
Permethrin	0.100	0.150	0.200	0.153	18
Fungicides					
Azoxystrobin	0.193	0.195	0.244	0.206	29
Chlorothalonil	0.750	1.125	1.800	1.272	9
Copper hydroxide	0.235	0.400	0.940	0.517	37
Cymoxanil	0.094	0.125	0.156	0.124	21
Famoxadone	0.094	0.125	0.156	0.124	21
Mancozeb	0.500	0.500	1.334	0.754	31
Maneb	0.800	1.125	1.600	1.204	19
Myclobutanil	0.070	0.100	0.155	0.113	30
Pyraclostrobin	0.001	0.150	0.150	0.110	24

¹ Planted acreage in 2006 for the 7 Program States was 52,200 acres.

**Squash: Rate per Crop Year Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Clomazone	0.094	0.250	0.563	0.302	40
Ethalfuralin	0.375	0.750	1.125	0.650	15
Glyphosate iso. salt	0.527	0.938	1.500	0.960	16
Insecticides					
Carbaryl	1.000	1.000	3.000	1.626	19
Endosulfan	0.750	2.250	4.500	2.401	17
Esfenvalerate	0.021	0.139	0.186	0.122	20
Imidacloprid	0.156	0.156	0.250	0.210	29
Methomyl	0.450	0.900	6.000	2.856	59
Permethrin	0.188	0.251	0.600	0.384	22
Fungicides					
Azoxystrobin	0.193	0.390	0.951	0.408	53
Chlorothalonil	1.403	3.375	7.500	3.984	16
Copper hydroxide	0.700	1.333	4.100	1.683	83
Cymoxanil	0.125	0.313	0.469	0.299	11
Famoxadone	0.125	0.313	0.469	0.299	11
Mancozeb	1.600	2.000	6.670	2.802	34
Maneb	1.125	4.800	6.750	3.913	16
Myclobutanil	0.100	0.180	0.227	0.170	14
Pyraclostrobin	0.001	0.150	0.300	0.162	39

¹ Planted acreage in 2006 for the 7 Program States was 52,200 acres.

**Strawberries: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Glyphosate iso. salt	0	0	10	5	41
Sulfentrazone	0	0	0	7	13
Insecticides					
Abamectin	0	0	39	13	19
Bifenazate	0	39	100	36	23
Bifenthrin	0	0	43	15	20
Bt subsp. kurstaki	0	18	100	43	34
Methomyl	0	0	100	36	42
Methyl bromide	0	38	100	39	22
Spinosad	0	49	100	45	23
Fungicides					
Azoxystrobin	0	0	77	26	34
Boscalid	0	74	100	58	17
Captan	0	100	100	76	10
Cyprodinil	0	64	100	47	28
Fenhexamid	0	60	100	54	20
Fludioxonil	0	64	100	47	28
Myclobutanil	0	0	88	33	37
Pyraclostrobin	0	100	100	64	15
Pyrimethanil	0	4	82	31	29
Sulfur	0	100	100	61	16
Thiophanate-methyl	0	0	100	20	21
Thiram	0	0	100	19	21
Triflumizole	0	0	100	27	25
Other Chemicals					
Chloropicrin	0	51	86	43	20

¹ Planted acreage in 2006 for the 4 Program States was 47,700 acres.

**Strawberries: Number of Applications Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Glyphosate iso. salt	1	2	3	2	15
Sulfentrazone	1	1	2	1	12
Insecticides					
Abamectin	1	1	2	1	9
Bifenazate	1	1	2	1	9
Bifenthrin	1	1	3	2	14
Bt subsp. kurstaki	1	2	3	2	19
Methomyl	1	2	4	2	18
Methyl bromide	1	1	1	1	2
Spinosad	1	1	4	2	20
Fungicides					
Azoxystrobin	1	1	3	2	18
Boscalid	1	2	3	2	7
Captan	1	6	14	7	17
Cyprodinil	1	2	4	2	11
Fenhexamid	1	2	2	2	7
Fludioxonil	1	2	4	2	11
Myclobutanil	1	1	2	1	14
Pyraclostrobin	1	2	3	2	6
Pyrimethanil	1	1	2	1	12
Sulfur	2	5	7	5	10
Thiophanate-methyl	1	2	11	3	38
Thiram	1	2	25	7	43
Triflumizole	1	2	4	2	15
Other Chemicals					
Chloropicrin	1	1	1	1	6

¹ Planted acreage in 2006 for the 4 Program States was 47,700 acres.

**Strawberries: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Glyphosate iso. salt	0.073	1.500	1.733	1.101	28
Sulfentrazone	0.156	0.250	0.375	0.274	13
Insecticides					
Abamectin	0.007	0.016	0.019	0.016	8
Bifenazate	0.500	0.500	0.500	0.493	1
Bifenthrin	0.089	0.100	1.569	0.310	64
Methomyl	0.450	0.900	0.900	0.797	6
Methyl bromide	134.000	193.978	201.811	186.473	2
Spinosad	0.078	0.093	0.094	0.087	3
Fungicides					
Azoxystrobin	0.130	0.195	0.247	0.192	6
Boscalid	0.017	0.020	0.023	0.020	5
Captan	1.500	2.000	2.373	1.957	5
Cyprodinil	0.281	0.328	0.328	0.312	4
Fenhexamid	0.500	0.715	0.750	0.668	3
Fludioxonil	0.188	0.219	0.219	0.208	4
Myclobutanil	0.100	0.100	0.125	0.105	2
Pyraclostrobin	0.001	0.003	0.098	0.023	30
Pyrimethanil	0.442	0.625	0.703	0.569	10
Sulfur	2.028	3.212	4.900	3.351	9
Thiophanate-methyl	0.700	0.700	0.700	0.696	1
Thiram	1.300	1.625	1.950	1.606	3
Triflumizole	0.228	0.250	0.250	0.242	1
Other Chemicals					
Chloropicrin	78.625	134.114	152.212	117.797	6

¹ Planted acreage in 2006 for the 4 Program States was 47,700 acres.

**Strawberries: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Glyphosate iso. salt	0.091	1.500	5.200	2.112	43
Sulfentrazone	0.156	0.375	0.405	0.304	6
Insecticides					
Abamectin	0.014	0.020	0.032	0.022	10
Bifenazate	0.500	0.552	1.000	0.683	9
Bifenthrin	0.098	0.108	0.387	0.518	74
Methomyl	0.940	1.354	3.600	1.857	15
Methyl bromide	134.000	193.978	237.955	195.700	3
Spinosad	0.093	0.103	0.375	0.158	18
Fungicides					
Azoxystrobin	0.193	0.229	0.585	0.314	21
Boscalid	0.022	0.028	0.059	0.036	10
Captan	2.500	10.055	18.578	12.680	19
Cyprodinil	0.328	0.503	1.313	0.632	14
Fenhexamid	0.603	1.044	1.367	1.143	6
Fludioxonil	0.219	0.335	0.875	0.421	14
Myclobutanil	0.100	0.100	0.229	0.141	16
Pyraclostrobin	0.001	0.005	0.150	0.043	32
Pyrimethanil	0.442	0.616	1.163	0.725	22
Sulfur	5.049	17.335	30.564	15.895	12
Thiophanate-methyl	0.700	1.050	7.700	2.306	38
Thiram	1.300	3.250	40.625	11.125	43
Triflumizole	0.236	0.366	1.000	0.451	16
Other Chemicals					
Chloropicrin	69.960	134.114	184.220	135.000	3

¹ Planted acreage in 2006 for the 4 Program States was 47,700 acres.

**Tomatoes, Fresh: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Metribuzin	0	0	100	21	73
S-Metolachlor	0	0	38	10	43
Trifluralin	0	0	45	10	30
Insecticides					
Bt subsp. kurstaki	0	0	100	36	21
Carbaryl	0	0	4	6	60
Endosulfan	0	0	100	36	10
Esfenvalerate	0	0	100	31	56
Imidacloprid	0	0	100	18	88
Lambda-cyhalothrin	0	0	40	12	48
Methomyl	0	0	24	10	56
Methyl bromide	0	0	100	30	64
Permethrin	0	0	0	4	67
Spinosad	0	0	100	23	52
Fungicides					
Azoxystrobin	0	0	100	22	69
Chlorothalonil	0	100	100	65	8
Copper hydroxide	0	93	100	57	10
Cymoxanil	0	0	100	17	73
Famoxadone	0	0	23	10	48
Mancozeb	0	82	100	57	11
Maneb	0	0	100	14	41
Pyraclostrobin	0	0	100	20	73
Other Chemicals					
Chloropicrin	0	0	100	25	81

¹ Planted acreage in 2006 for the 7 Program States was 105,600 acres.

**Tomatoes, Fresh: Number of Applications Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Metribuzin	1	1	1	1	8
S-Metolachlor	1	1	1	1	4
Trifluralin	1	1	1	1	3
Insecticides					
Bt subsp. kurstaki	3	9	9	7	34
Carbaryl	1	4	4	3	24
Endosulfan	3	5	12	6	36
Esfenvalerate	1	4	14	5	40
Imidacloprid	1	2	4	2	31
Lambda-cyhalothrin	1	1	7	2	46
Methomyl	1	10	14	9	36
Methyl bromide	1	1	2	1	17
Permethrin	1	3	3	3	16
Spinosad	1	6	14	6	41
Fungicides					
Azoxystrobin	1	2	14	4	63
Chlorothalonil	2	7	16	9	26
Copper hydroxide	1	9	16	9	18
Cymoxanil	1	2	3	2	15
Famoxadone	1	2	4	2	10
Mancozeb	1	9	12	8	13
Maneb	1	3	14	7	51
Pyraclostrobin	1	2	4	3	30
Other Chemicals					
Chloropicrin	1	1	2	1	18

¹ Planted acreage in 2006 for the 7 Program States was 105,600 acres.

**Tomatoes, Fresh: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Metribuzin	0.250	0.503	0.750	0.564	14
S-Metolachlor	0.381	1.429	1.433	1.056	22
Trifluralin	0.329	0.509	0.755	0.550	18
Insecticides					
Carbaryl	1.250	1.250	1.250	1.196	8
Endosulfan	0.581	0.720	0.750	0.688	7
Esfenvalerate	0.021	0.032	0.041	0.030	12
Imidacloprid	0.076	0.099	0.250	0.119	49
Lambda-cyhalothrin	0.008	0.016	0.042	0.022	27
Methomyl	0.450	0.450	0.563	0.476	7
Methyl bromide	83.750	144.050	196.000	142.962	10
Permethrin	0.100	0.195	0.195	0.173	13
Spinosad	0.094	0.094	0.138	0.111	17
Fungicides					
Azoxystrobin	0.081	0.089	0.104	0.090	1
Chlorothalonil	0.938	1.650	1.980	1.479	10
Copper hydroxide	0.378	0.700	1.425	0.815	30
Cymoxanil	0.094	0.108	0.125	0.110	3
Famoxadone	0.078	0.125	0.125	0.113	5
Mancozeb	0.843	1.395	1.600	1.283	13
Maneb	0.500	1.000	1.125	0.954	8
Pyraclostrobin	0.100	0.100	0.188	0.114	13
Other Chemicals					
Chloropicrin	41.250	70.950	82.500	66.651	11

¹ Planted acreage in 2006 for the 7 Program States was 105,600 acres.

**Tomatoes, Fresh: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Metribuzin	0.250	0.750	0.800	0.625	11
S-Metolachlor	0.381	1.429	1.848	1.136	24
Trifluralin	0.329	0.509	0.835	0.577	19
Insecticides					
Carbaryl	0.501	5.000	5.000	4.090	31
Endosulfan	2.250	3.750	7.218	4.411	30
Esfenvalerate	0.031	0.103	0.448	0.137	45
Imidacloprid	0.038	0.294	0.394	0.285	50
Lambda-cyhalothrin	0.008	0.012	0.111	0.049	49
Methomyl	0.633	4.500	6.300	4.045	31
Methyl bromide	83.750	176.400	288.100	176.678	14
Permethrin	0.150	0.566	0.566	0.432	25
Spinosad	0.092	0.563	1.313	0.700	48
Fungicides					
Azoxystrobin	0.100	0.208	1.251	0.399	62
Chlorothalonil	2.238	9.337	31.680	12.756	24
Copper hydroxide	0.996	6.300	22.800	7.159	44
Cymoxanil	0.125	0.239	0.324	0.265	14
Famoxadone	0.094	0.202	0.375	0.223	11
Mancozeb	1.551	13.950	14.400	10.354	12
Maneb	1.500	2.000	14.000	6.560	54
Pyraclostrobin	0.141	0.209	0.400	0.285	22
Other Chemicals					
Chloropicrin	41.250	82.500	141.900	86.180	16

¹ Planted acreage in 2006 for the 7 Program States was 105,600 acres.

**Tomatoes, Proc.: Percent of Acres Treated Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Glyphosate iso. salt	0	13	59	23	16
Rimsulfuron	0	11	86	30	21
S-Metolachlor	0	36	100	38	16
Trifluralin	0	57	100	51	18
Insecticides					
Benzoic acid	0	7	62	19	22
Dimethoate	0	0	100	32	19
Indoxacarb	0	13	82	31	26
Lambda-cyhalothrin	0	0	55	12	29
Fungicides					
Chlorothalonil	0	16	66	24	15
Pyraclostrobin	0	4	69	20	35
Sulfur	0	80	100	64	12
Other Chemicals					
Ethephon	0	1	44	13	18

¹ Planted acreage in 2006 for the 1 Program State was 283,000 acres.

**Tomatoes, Proc.: Number of Applications Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Glyphosate iso. salt	1	1	2	1	7
Rimsulfuron	1	1	1	1	4
S-Metolachlor	1	1	1	1	3
Trifluralin	1	1	1	1	3
Insecticides					
Benzoic acid	1	1	1	1	4
Dimethoate	1	1	1	1	4
Indoxacarb	1	1	1	1	3
Lambda-cyhalothrin	1	1	2	1	4
Fungicides					
Chlorothalonil	1	1	1	1	3
Pyraclostrobin	1	1	1	1	3
Sulfur	1	1	2	1	6
Other Chemicals					
Ethephon	1	1	1	1	2

¹ Planted acreage in 2006 for the 1 Program State was 283,000 acres.

**Tomatoes, Proc.: Rate Per Application Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Glyphosate iso. salt	0.551	0.850	2.040	1.009	10
Rimsulfuron	0.005	0.011	0.027	0.013	12
S-Metolachlor	0.622	1.267	1.591	1.246	6
Trifluralin	0.360	0.625	0.801	0.620	8
Insecticides					
Benzoic acid	0.130	0.145	0.187	0.149	5
Dimethoate	0.314	0.395	0.501	0.393	5
Indoxacarb	0.065	0.066	0.066	0.065	(²)
Lambda-cyhalothrin	0.020	0.029	0.030	0.027	5
Fungicides					
Chlorothalonil	1.501	1.817	2.063	1.774	2
Pyraclostrobin	0.125	0.150	0.176	0.145	2
Sulfur	7.869	27.174	39.200	25.803	12
Other Chemicals					
Ethephon	0.264	0.711	1.262	0.737	9

¹ Planted acreage in 2006 for the 1 Program State was 283,000 acres.

² Less than .5 percent

**Tomatoes, Proc.: Rate per Crop Year Distribution,
Program States, 2006¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Glyphosate iso. salt	0.551	0.896	2.376	1.189	14
Rimsulfuron	0.005	0.012	0.022	0.015	14
S-Metolachlor	0.762	1.366	1.785	1.359	5
Trifluralin	0.449	0.626	0.873	0.666	7
Insecticides					
Benzoic acid	0.130	0.148	0.219	0.167	8
Dimethoate	0.349	0.430	0.551	0.435	6
Indoxacarb	0.065	0.066	0.078	0.069	3
Lambda-cyhalothrin	0.027	0.033	0.049	0.035	8
Fungicides					
Chlorothalonil	1.501	1.836	2.356	1.963	4
Pyraclostrobin	0.126	0.150	0.203	0.153	3
Sulfur	10.343	33.046	59.634	35.523	14
Other Chemicals					
Ethephon	0.384	0.766	1.338	0.810	8

¹ Planted acreage in 2006 for the 1 Program State was 283,000 acres.

**Watermelons: Percent of Acres Treated Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Ethalfluralin	0	0	100	13	31
Trifluralin	0	0	0	7	40
Insecticides					
Carbaryl	0	0	0	4	85
Endosulfan	0	0	32	8	44
Esfenvalerate	0	0	51	9	29
Fungicides					
Azoxystrobin	0	0	44	11	52
Boscalid	0	0	100	19	29
Chlorothalonil	0	100	100	52	10
Mancozeb	0	0	100	31	34
Pyraclostrobin	0	0	100	22	26

¹ Planted acreage in 2006 for the 7 Program States was 120,200 acres.

**Watermelons: Number of Applications Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
Herbicides					
Ethalfluralin	1	1	4	2	26
Trifluralin	1	1	2	1	11
Insecticides					
Carbaryl	1	3	3	3	13
Endosulfan	1	1	6	2	55
Esfenvalerate	1	1	4	2	49
Fungicides					
Azoxystrobin	1	1	4	2	109
Boscalid	1	1	3	2	10
Chlorothalonil	1	4	5	4	13
Mancozeb	1	3	7	3	23
Pyraclostrobin	1	1	3	2	9

¹ Planted acreage in 2006 for the 7 Program States was 120,200 acres.

**Watermelons: Rate Per Application Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Ethalfluralin	0.563	0.563	0.750	0.636	7
Trifluralin	0.500	0.540	1.000	0.716	15
Insecticides					
Carbaryl	1.000	1.000	1.000	0.972	4
Endosulfan	0.375	0.563	0.956	0.609	23
Esfenvalerate	0.031	0.031	0.043	0.035	7
Fungicides					
Azoxystrobin	0.125	0.163	0.260	0.175	13
Boscalid	0.010	0.014	0.016	0.013	5
Chlorothalonil	0.825	1.125	1.500	1.314	8
Mancozeb	0.750	1.500	2.250	1.510	9
Pyraclostrobin	0.001	0.001	0.050	0.014	63

¹ Planted acreage in 2006 for the 7 Program States was 120,200 acres.

**Watermelons: Rate per Crop Year Distribution,
Program States, 2006 ¹**

Active Ingredient	10th Percentile	Median	90th Percentile	Mean	cv(%)
	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	<i>Pounds per Acre</i>	
Herbicides					
Ethalfluralin	0.375	0.750	2.250	1.153	21
Trifluralin	0.500	0.819	1.001	0.840	10
Insecticides					
Carbaryl	0.800	3.000	3.000	2.572	17
Endosulfan	0.563	0.750	3.750	1.326	54
Esfenvalerate	0.031	0.060	0.124	0.082	43
Fungicides					
Azoxystrobin	0.150	0.284	0.561	0.413	99
Boscalid	0.008	0.024	0.041	0.023	11
Chlorothalonil	1.500	4.500	7.500	4.722	8
Mancozeb	1.000	3.000	8.297	4.643	26
Pyraclostrobin	0.001	0.001	0.058	0.023	61

¹ Planted acreage in 2006 for the 7 Program States was 120,200 acres.

Integrated Pest Management Practice - Highlights

Overview: The following tables present data on pest management practices that growers use on vegetable acres in an effort to enhance and improve the statistics available to control pests. Each question has been placed into one of four pest management categories: Prevention, Avoidance, Monitoring, or Suppression. The actual questions used to collect these data are shown in the survey instrument on page 362. It is important to note that the practice of good pest management techniques is site-specific in nature, and individual tactics are principally determined by the particular crop/pest/environment scenario.

The data are published in two tables: Percent of Farms Utilizing Practice, and Percent of Acres Utilizing Practice. These percentages are published at the Program State and State levels. For all the crops in this survey, the percentages refer only to farms and vegetable acres.

Producers were first asked how many total acres of vegetable crops they grew in 2006, followed by questions regarding the use of specific pest management practices, in a yes/no format. Pests were defined as weeds, insects, or diseases. If the respondent used a specific practice on any vegetable crop, it was assumed that the practice was used on all acres of vegetable crops. For example, if a producer had 100 acres of various vegetable crops, and used field mapping of previous weed problems to assist in making weed management decisions, it was assumed that all 100 acres were mapped.

Highlights: Field cultivation for weed control was the most commonly reported pest management practice for prevention, used by 70 percent of the vegetable farms on 76 percent of the acres. The next most commonly used prevention practices were; removing or plowing down crop residue and maintaining field edges, chopping, mowing/etc., used by 63 and 59 percent of the vegetable farms on 71 and 72 percent of the acres, respectively.

For avoidance practices, rotating crops was used by the majority of vegetable farms, 79 percent, on 81 percent of the acreage. The second most common avoidance practice was choosing a crop variety for pest resistance, used by 37 percent of the vegetable farms on 43 percent of the acres.

For monitoring practices, scouting for insects and mites along with scouting for weeds were the most commonly used scouting practices, used on 93 and 91 percent of the vegetable farms, respectively. Scouting for insects and mites and scouting for diseases were the most common monitoring practice, occurring on 97 and 96 percent of the vegetable acres, respectively. Scouting was usually done by the operator, partner, or family member. Scouting for diseases was used on 90 percent of the vegetable farms while scouting for weeds was utilized on 94 percent of the vegetable acres.

The most widely used pest suppression practice was to maintain ground cover or physical barriers and alternate pesticides with different mechanisms of action (MOA). These practices were used on 43 and 36 percent of the vegetable farms. Alternating pesticides with different mechanisms of action (MOA) and scouting to make decisions were used on 63 and 53 percent of the acreage, respectively.

Pest Management Practices
Percent of Farms Utilizing Practice
All, 2006

Practice	States									
	ALL	AZ	CA	CO	FL	GA	IL	MI	MN	NJ
Prevention Practices:										
No-till or minimum till used to manage pests	25	60	19	8	15	18	22	22	29	22
Remove or plow down crop residue	63	5	72	62	76	74	73	62	43	78
Clean implements after field work	55	98	64	34	61	76	25	38	49	68
Field cultivated for weed control	70	67	81	72	56	75	70	83	27	80
Field edges/etc. chopped, mowed/etc.	59	67	73	66	59	72	72	62	28	72
Water management practices	42	64	48	26	45	27	40	27	17	40
Avoidance Practices:										
Adjust planting/harvesting dates	18	3	26	43	20	21	32	13	2	26
Rotate crops to control pests	79	67	70	65	54	77	92	77	87	71
Planting locations planned to avoid pests	35	5	37	49	32	34	52	34	9	54
Grow trap crop to control insects	5	*	12	10	1	4	6	6	*	2
Crop variety chosen for pest resistance	37	5	35	29	43	43	39	50	14	48
Monitoring Practices:										
Scouting by general observation	72	99	76	53	64	62	70	66	87	47
Deliberate scouting activities	23	1	19	34	28	30	27	27	7	51
Field was not scouted	5	*	4	13	9	7	3	7	6	2
Established scouting process/insect trap used	37	64	49	16	23	22	27	37	65	16
Scouting due to pest advisory warning	16	*	21		8	9	13	24	12	19
Scouting due to pest development model	17	1	21	4	4	11	13	16	14	11
Scouted for weeds	91	99	94	87	88	86	80	90	93	92
Scouting for weeds was done by:										
Operator, partner, or family member	73	94	47	90	80	86	77	80	44	86
An employee	3	*	6		9	7		1		6
Farm supply or chemical dealer	6	3	15	7	*	*	2	12	4	4
Indep. crop consultant or comm. scout	8	2	32	3	10	7	2	6	3	5
Other	10		*				18	1	50	
Scouted for insects and mites	93	10	95	87	93	90	98	93	93	95
Scouting for insects or mites was done by:										
Operator, partner, or family member	65		40	86	77	83	61	79	4	82
An employee	3	93	5		9	7	17	1		5
Farm supply or chemical dealer	8	*	19	7	*	1	2	13	3	4
Indep. crop consultant or comm. scout	10	4	36	7	13	9	3	6	7	9
Other	14	3	*				17	1	86	
Scouted for diseases	90		92	87	93	89	82	91	93	95
Scouting for diseases was done by:										
Operator, partner, or family member	66		38	86	77	84	73	78	4	83
An employee	3	93	5		9	6		1		5
Farm supply or chemical dealer	8	*	19	7	*	1	3	14	2	3
Indep. crop consultant or comm. scout	10	4	38	7	13	9	3	6	8	8
Other	14	3	*				21	1	86	

See footnote(s) at end of table.

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**Pest Management Practices
Percent of Farms Utilizing Practice
All, 2006 -continued**

Practice	States									
	ALL	AZ	CA	CO	FL	GA	IL	MI	MN	NJ
Records kept to track pests	37	6	51	42	37	20	24	33	59	23
Field mapping of pest problem	17	2	33	9	13	5	10	11	45	16
Soil/plant tissue analysis to detect pests	16	4	44	24	39	12	7	13	6	23
Weather monitoring	59	4	49	31	78	53	76	70	78	59
Biological pest controls	7	*	17	28	5	6	14	15		4
Suppression Practices:										
Biological pesticides	10	4	30	28	27	7	6	7	4	12
Beneficial organisms	6	1	23	5	5	8	4	3		6
Scouting used to make decisions	35	34	42	27	29	19	25	40	57	36
Maintain ground cover or physical barriers	43	36	48	29	46	43	32	38	16	61
Adjusted planting methods	24	61	28	19	25	18	37	18	5	22
Alternate pesticides with different MOA	36	6	49	42	43	35	33	42	23	37

See footnote(s) at end of table.

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Pest Management Practices
Percent of Farms Utilizing Practice
All, 2006 -continued

Practice	States									
	NY	NC	OH	OR	PA	SC	TN	TX	WA	WI
Prevention Practices:										
No-till or minimum till used to manage pests	23	13	28	9	35	19	10	18	27	36
Remove or plow down crop residue	71	82	69	51	66	67	83	70	61	56
Clean implements after field work	48	67	44	43	47	75	72	55	67	38
Field cultivated for weed control	75	78	74	74	56	79	76	85	70	60
Field edges/etc. chopped, mowed/etc.	60	71	43	66	61	55	44	72	67	35
Water management practices	24	50	17	59	28	46	30	36	42	39
Avoidance Practices:										
Adjust planting/harvesting dates	18	34	14	27	18	14	18	20	15	13
Rotate crops to control pests	90	86	82	82	87	67	83	75	60	91
Planting locations planned to avoid pests	47	41	42	39	48	26	27	34	22	34
Grow trap crop to control insects	5	2	1	13	4	6	2	4	5	3
Crop variety chosen for pest resistance	45	57	47	44	48	37	34	36	30	20
Monitoring Practices:										
Scouting by general observation	75	63	66	84	69	37	74	60	60	84
Deliberate scouting activities	19	33	27	13	27	58	18	35	37	11
Field was not scouted	6	5	8	3	4	6	8	5	4	5
Established scouting process/insect trap used	29	20	14	44	30	15	17	22	31	59
Scouting due to pest advisory warning	14	9	19	23	24	*	11	6	13	33
Scouting due to pest development model	12	17	10	21	25	2	12	5	15	49
Scouted for weeds	89	86	91	98	93	90	92	89	94	95
Scouting for weeds was done by:										
Operator, partner, or family member	88	95	91	63	87	94	86	77	65	44
An employee		3	6	4	2	1	1	5	4	1
Farm supply or chemical dealer	5	*	2	25	4			9	20	2
Indep. crop consultant or comm. scout	5	2	1	9	6	5	13	9	6	2
Other	2				1				4	51
Scouted for insects and mites	84	90	90	98	93	85	92	89	95	96
Scouting for insects or mites was done by:										
Operator, partner, or family member	84	95	92	51	85	92	84	70	59	30
An employee		3	5	3	2	1	1	6	5	1
Farm supply or chemical dealer	4	*	2	34	4			12	24	2
Indep. crop consultant or comm. scout	10	2	1	12	8	7	15	12	5	3
Other	2				1				7	64
Scouted for diseases	79	89	88	97	87	88	92	85	90	91
Scouting for diseases was done by:										
Operator, partner, or family member	86	95	91	53	85	92	84	70	59	27
An employee		3	6	3	2	1	1	6	3	1
Farm supply or chemical dealer	5	*	2	32	5			12	23	2
Indep. crop consultant or comm. scout	6	2	1	10	8	7	15	12	7	3
Other	2			*	1				8	67

See footnote(s) at end of table.

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**Pest Management Practices
Percent of Farms Utilizing Practice
All, 2006 -continued**

Practice	States									
	NY	NC	OH	OR	PA	SC	TN	TX	WA	WI
Records kept to track pests	37	22	28	56	30	13	23	25	39	65
Field mapping of pest problem	18	9	6	24	13	9	7	5	15	23
Soil/plant tissue analysis to detect pests	12	14	8	17	9	10	15	8	30	11
Weather monitoring	57	68	52	88	74	34	77	44	62	51
Biological pest controls	7	5	11	4	8	2	5	8	12	2
Suppression Practices:										
Biological pesticides	8	8	7	4	8	5	12	11	7	3
Beneficial organisms	4	8	1	3	1	3	1	8	7	1
Scouting used to make decisions	37	22	23	41	30	17	16	15	25	52
Maintain ground cover or physical barriers	53	51	51	29	61	44	74	33	44	33
Adjusted planting methods	22	44	22	26	20	21	34	25	19	14
Alternate pesticides with different MOA	36	29	32	53	51	12	61	28	48	32

* Percentage is less than 0.5

**Pest Management Practices
Percent of Acres Utilizing Practice
All, 2006**

Practice	States									
	ALL	AZ	CA	CO	FL	GA	IL	MI	MN	NJ
Prevention Practices:										
No-till or minimum till used to manage pests	28	17	26	2	26	35	26	26	23	16
Remove or plow down crop residue	71	40	87	61	88	87	56	74	36	89
Clean implements after field work	68	84	75	24	66	87	28	64	59	81
Field cultivated for weed control	76	82	88	38	65	82	89	83	27	93
Field edges/etc. chopped, mowed/etc.	72	81	84	73	75	86	55	61	44	76
Water management practices	52	51	53	49	56	52	27	57	21	44
Avoidance Practices:										
Adjust planting/harvesting dates	26	38	33	61	24	43	19	22	3	22
Rotate crops to control pests	81	74	78	32	70	87	93	89	88	76
Planting locations planned to avoid pests	37	50	44	58	46	51	29	45	9	41
Grow trap crop to control insects	8	*	16	19	2	17	11	4	1	3
Crop variety chosen for pest resistance	43	60	44	13	46	70	27	43	13	32
Monitoring Practices:										
Scouting by general observation	87	98	92	87	83	90	91	87	85	64
Deliberate scouting activities	10	*	7	10	13	9	8	8	6	35
Field was not scouted	3	2	*	3	4	2	1	5	9	*
Established scouting process/insect trap used	60	49	69	27	54	61	36	71	62	32
Scouting due to pest advisory warning	23	1	26		6	27	20	50	8	31
Scouting due to pest development model	25	8	27	1	6	38	21	33	9	23
Scouted for weeds	94	96	99	97	76	96	99	93	91	92
Scouting for weeds was done by:										
Operator, partner, or family member	40	30	19	87	48	54	49	50	33	77
An employee	9	1	9		16	31		2		2
Farm supply or chemical dealer	15	23	27	12	*	*	2	22	2	8
Indep. crop consultant or comm. scout	25	45	44	1	35	14	1	19	2	13
Other	10		*				49	7	63	
Scouted for insects and mites	97	99	10	97	98	98	10	94	91	99
Scouting for insects or mites was done by:			0				0			
Operator, partner, or family member	31	19		86	44	42		46	7	72
An employee	9	*	11		13	31	46	2		2
Farm supply or chemical dealer	17	31	9	12	*	2	*	25	2	8
Indep. crop consultant or comm. scout	29	50	31	2	43	26	2	20	4	19
Other	14		49				2	7	87	
Scouted for diseases	96	99	*	97	98	98	50	94	91	98
Scouting for diseases was done by:			99				99			
Operator, partner, or family member	31	19		86	44	43		46	6	73
An employee	8	*	11		13	31	46	2		2
Farm supply or chemical dealer	17	31	6	12	*	1		25	2	7
Indep. crop consultant or comm. scout	30	50	30	2	43	26	2	20	4	18
Other	14		52				2	7	88	
			*				50			

See footnote(s) at end of table.

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**Pest Management Practices
Percent of Acres Utilizing Practice
All, 2006 -continued**

Practice	States									
	ALL	AZ	CA	CO	FL	GA	IL	MI	MN	NJ
Records kept to track pests	62	63	76	77	58	39	57	56	66	45
Field mapping of pest problem	35	26	54	5	29	23	12	23	52	25
Soil/plant tissue analysis to detect pests	45	49	67	48	63	45	16	34	4	30
Weather monitoring	78	40	78	16	92	79	84	93	84	69
Biological pest controls	15	5	24	53	3	30	40	11		5
Suppression Practices:										
Biological pesticides	28	51	46	61	49	21	3	12	2	8
Beneficial organisms	11	15	19	2	2	21	3	2		4
Scouting used to make decisions	53	30	68	68	56	62	28	70	61	51
Maintain ground cover or physical barriers	45	51	44	19	64	67	59	43	16	61
Adjusted planting methods	23	23	27	4	34	27	24	21	3	20
Alternate pesticides with different MOA	63	64	81	70	59	73	52	66	15	45

See footnote(s) at end of table.

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Pest Management Practices
Percent of Acres Utilizing Practice
All, 2006 -continued

Practice	States									
	NY	NC	OH	OR	PA	SC	TN	TX	WA	WI
Prevention Practices:										
No-till or minimum till used to manage pests	27	13	38	8	48	7	6	24	43	53
Remove or plow down crop residue	83	84	71	36	68	90	43	84	61	40
Clean implements after field work	51	76	41	60	60	91	88	78	80	34
Field cultivated for weed control	70	89	85	50	43	31	81	95	85	76
Field edges/etc. chopped, mowed/etc.	66	82	55	46	56	24	35	86	78	57
Water management practices	31	71	20	49	39	92	68	45	62	55
Avoidance Practices:										
Adjust planting/harvesting dates	10	64	22	9	15	12	32	22	25	8
Rotate crops to control pests	94	88	84	81	89	92	85	85	86	77
Planting locations planned to avoid pests	55	34	48	23	54	14	69	29	13	19
Grow trap crop to control insects	1	1	*	1	8	65	1	3	7	2
Crop variety chosen for pest resistance	48	74	45	51	51	74	40	27	47	16
Monitoring Practices:										
Scouting by general observation	95	84	88	95	74	81	80	83	73	74
Deliberate scouting activities	4	11	10	4	24	19	19	15	22	18
Field was not scouted	1	5	1	1	2	1	2	2	5	9
Established scouting process/insect trap used	65	61	35	52	40	72	46	45	58	53
Scouting due to pest advisory warning	27	48	57	22	24	2	20	6	26	26
Scouting due to pest development model	27	54	30	18	27	4	19	6	31	42
Scouted for weeds	97	91	98	99	97	99	96	96	95	91
Scouting for weeds was done by:										
Operator, partner, or family member	68	97	89	30	74	34	85	47	43	43
An employee		1	5	14	2	*	9	15	15	12
Farm supply or chemical dealer	7	*	5	35	10			25	14	*
Indep. crop consultant or comm. scout	24	2	1	20	15	66	6	13	11	5
Other	1				*				18	39
Scouted for insects and mites	96	95	98	10	95	97	96	97	98	92
Scouting for insects or mites was done by:				0						
Operator, partner, or family member	64	90	89		72	32	84	41	39	15
An employee		8	5	21	2	*	9	16	11	10
Farm supply or chemical dealer	9	*	5	13	10			28	19	1
Indep. crop consultant or comm. scout	27	2	1	41	16	67	7	15	6	6
Other	1			24	*				24	68
Scouted for diseases	94	95	96		85	97	96	96	96	91
Scouting for diseases was done by:				99						
Operator, partner, or family member	64	90	89		69	32	84	42	40	14
An employee		8	5	22	2	*	9	16	9	11
Farm supply or chemical dealer	9	*	5	13	12			28	18	1
Indep. crop consultant or comm. scout	25	2	1	41	17	67	7	14	7	5
Other	1			22	*				26	69

See footnote(s) at end of table.

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**Pest Management Practices
Percent of Acres Utilizing Practice
All, 2006 -continued**

Practice	States									
	NY	NC	OH	OR	PA	SC	TN	TX	WA	WI
Records kept to track pests	62	23	31	83	38	70	50	47	64	57
Field mapping of pest problem	28	17	8	41	26	68	17	4	21	22
Soil/plant tissue analysis to detect pests	36	60	16	17	15	68	23	20	59	14
Weather monitoring	86	84	71	95	81	84	66	66	78	67
Biological pest controls	16	1	29	3	7	*	13	6	25	1
Suppression Practices:										
Biological pesticides	15	45	20	3	5	2	23	14	16	3
Beneficial organisms	3	39	*	1	1	1	*	9	12	*
Scouting used to make decisions	54	29	34	28	38	73	34	17	35	55
Maintain ground cover or physical barriers	50	62	56	25	75	84	64	28	47	22
Adjusted planting methods	14	61	22	17	23	6	47	32	19	8
Alternate pesticides with different MOA	58	70	44	82	49	9	39	58	79	29

* Percentage is less than 0.5

Survey & Estimation Procedures

Survey Procedures: There were 5,417 samples drawn from the NASS List Sampling Frame for the Vegetable Chemical Usage Survey. This extensive sampling frame covers all types of farms and accounts for about 90 percent of all land in farms in the United States. Samples were selected from States with the largest production for the selected vegetable crops. The sample design for the Vegetable Chemical Usage Survey (VCUS) uses a Multivariate Probability Proportional to Size (MPPS) design. The probability of being selected for the sample was based on the percentage of acreage for a given crop that a grower had on a State's list frame. The maximum of these probabilities was selected to draw the sample. The general idea is to assure that the total acreage of all targeted vegetable crops that a grower has on the list frame was included when determining a grower's probability of selection. The operator of the sampled farm was personally interviewed to obtain information on chemical applications made to each sampled farm.

Estimation Procedures: The chemical application data, reported by product name or trade name, are reviewed within each 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. For this publication, detailed data within a table may not multiply across or add down due to independent rounding of the published values.

Estimates of the total amount of active ingredient applied are based on the acreage estimates published in the annual NASS report "**Vegetables - 2006 Summary**"[Vg 1-2(07)] released on January 26, 2007. Please note that the estimates for total amounts of an active ingredient will not be revised even if there are subsequent revisions to acreage for a given crop.

Reliability

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 Program States. The reliability of these survey results is affected by sampling variability and non-sampling errors.

Since all operations producing the crops of interest are not included in the sample, survey estimates are subject to sampling variability. The sampling variability expressed as a percentage of the estimate is referred to as the coefficient of variation (cv). Sampling variability of the estimates differed considerably by chemical and crop. Variability for estimates of percent 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, which are recommended by the manufacturer of the product, and are generally followed. In general, the more often the chemical is applied, the smaller the sampling variability. For example, estimates of a commonly used active ingredient such as Chlorothalonil, will exhibit less variability than a rarely used chemical. A commonly used active ingredient is defined as an active ingredient used on at least 40 percent of the acres planted for a crop at the Program State level. For these active ingredients, cv's range from 5 to 50 percent at the Program State level and 5 to 100 percent at the individual State level. Active ingredients that are less frequently used have cv's that range from 50 to 200 percent.

The variability of estimates also depends on factors such as how similar agricultural practices are across States or within a State. Some active ingredients have widely varying recommended rates with different application approaches. This can increase the variability of the rates and acres treated. The differing intensity of the pest problem can influence the variability of acres treated and rate. The more consistent the intensity of the pest problem, the more likely the acres treated and rates are to be similar.

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. For this survey, all survey procedures and analysis are carried out in a consistent and orderly manner to minimize the occurrence of these types of errors.

Terms and Definitions

Active ingredient: The specific chemical which kills or controls the target pest(s). 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 salt or acid equivalent form.

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 application is the average number of pounds applied per acre in one application. Rate per crop year is the average number of pounds applied per acre counting multiple applications. Number of applications is the average number of times a treated acre received a specific primary nutrient or active ingredient.

Area applied: Represents the percentage of crop acres receiving one or more applications of a specific primary nutrient or active ingredient.

Avoidance: May be practiced when pest populations exist in a field or site but the impact of the pest on the crop can be avoided through some cultural practice. Examples of avoidance tactics include crop rotation such that the crop of choice is not a host for the pest, choosing cultivars with genetic resistance to pests, using trap crops, choosing cultivars with maturity dates that may allow harvest before pest populations develop, fertilization programs to promote rapid crop development, and simply not planting certain areas of fields where pest populations are likely to cause crop failure. Some tactics for avoidance and prevention strategies may overlap.

The following pest management questions were categorized as avoidance practices:

Were planting or harvesting dates adjusted to manage pests?

Were crops rotated during the 3 years for the purpose of managing pests?

Were planting locations planned to avoid infestation of pests?

Was a trap crop grown to help manage insects?

Was a crop variety chosen because it had resistance to a specific pest?

Beneficial insects: Insects collected and introduced into locations because of their value in biologic control as prey on harmful insects and parasites.

Chemigation: Application of an agricultural chemical by injecting it into irrigation water.

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

Crop year: The period immediately following harvest of the previous crop through harvest of the current crop.

Cultivar: A horticulturally or agriculturally derived variety of a plant, as distinguished from a natural variety.

Farm: Any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year. Government payments are included in sales. Places with all acreage enrolled in set aside or other government programs are considered to be a farm.

Fertilizer: The primary nutrients; nitrogen, phosphate, potash, and sulfur.

Fungi: A lower form of parasitic plant life which often reduces crop production and/or lowers the grade quality of its host.

Mechanism of Action (MOA): The method/biological pathway the pesticide uses to kill the pest.

Monitoring: Includes proper identification of pests through systematic sampling or counting or other forms of scouting. Also, weather monitoring to predict levels of pest populations or to determine the most effective time to make pesticide applications, and soil testing where appropriate.

The following pest management practices questions were categorized as monitoring practices:

In 2006, how were your vegetable acres primarily scouted for insects, weeds, diseases and/or beneficial organisms? (By deliberately going to the vegetable acres specifically for scouting activities? By conducting general observations while performing routine tasks? The vegetable acres were not scouted?)

Was an established scouting process used (systematic sampling, recording counts, etc.) or were insect traps used on any vegetable acres?

Was scouting for pests done on these vegetable acres due to a pest advisory warning?

Was scouting for pests done on these vegetable acres due to a pest development model?

Were your vegetable acres scouted for weeds? (If so, Who did the majority of the scouting? Operator, partner or family member, OR An employee, OR Farm supply or chemical dealer, OR Independent crop consultant or commercial scout, OR Others, such as a processing company?)

Were your vegetable acres scouted for insects or mites? (If so, Who did the majority of the scouting? Operator, partner or family member, OR An employee, OR Farm supply or chemical dealer, OR Independent crop consultant or commercial scout, OR Others, such as a processing company?)

Were your vegetable acres scouted for diseases? (If so, Who did the majority of the scouting? Operator, partner or family member, OR An employee, OR Farm supply or chemical dealer, OR Independent crop consultant or commercial scout, OR Others, such as a processing company?)

Were written or electronic records kept to track the activity or numbers of weeds, insects or diseases?

Was field mapping data used for making pest management decisions?

Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest analysis?

Was weather data used to assist in determining either the need or when to make pesticide applications?

Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on any vegetable acres?

Nematodes: Microscopic, worm-shaped parasitic animals. Damage to many crops can be severe.

Pesticides: As defined by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), pesticides include any substance or mixture of substances intended for preventing, destroying, repelling or mitigating any pest, and any substance or mixture of substances intended for use as a plant regulator, defoliant, or desiccant. The four classes of pesticides presented in this report and the pests targeted are: herbicides - weeds, insecticides - insects, fungicides - fungi, and other chemicals - other forms of life. Miticides and nematicides are included as insecticides while soil fumigants, growth regulators, defoliants, and desiccants are included as other chemicals.

Pheromone: A chemical substance produced by an insect which serves as a stimulus to other individuals of the same species for one or more behavioral responses.

Prevention: The practice of keeping a pest population from infesting a crop or field. It includes such tactics as using pest-free seeds and transplants, alternative tillage approaches such as no-till or minimum till, choosing cultivars with genetic resistance to insects or disease, irrigation scheduling to avoid situations conducive to disease development, cleaning equipment and implements after completing field work, using field sanitation procedures, and eliminating alternate hosts or sites for insect pests and disease organisms.

The following pest management questions were categorized as prevention practices:

Was no-till or minimum till used to manage pests?

Were crop residues plowed down or removed to manage pests?

Were equipment and implements cleaned after completing field work to reduce the spread of pests?

Were any vegetable acres cultivated for weed control during the growing season?

Were field edges, lanes, ditches, roadways or fence lines chopped, mowed, plowed, or burned to manage pests on any vegetable acres?

Were water management practices (excluding chemigation) such as irrigation scheduling, controlled drainage, or treatment of retention water used to manage pests?

Suppression: Reducing the presence or spread of pests. Suppression tactics include making adjustments in cultural practices such as narrow row spacings or optimized in-row plant populations, using cover crops or mulches, or using crops with allelopathic potential in the rotation. Physical suppression tactics may include cultivation or mowing for weed control, baited or pheromone traps for certain insects, and temperature management or exclusion devices for insect and disease management. Biological pesticides and controls, including mating disruption for insects, can be considered as alternatives to conventional pesticides. Determining pest thresholds and alternating pesticide active ingredients to avoid resistance buildup are suppression methods which minimize pesticide use.

The following pest management questions were categorized as suppression practices:

Were any biological pesticides such as Bt (*Bacillus thuringiensis*), insect growth regulators (Courier, Intrepid, etc.) neem or other natural/biological based products sprayed or applied to manage pests?

Were any beneficial organisms (insects, nematodes, or fungi) applied or released to manage pests?

Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests?

Were ground covers, mulches, or other physical barriers maintained to manage pest problems?

Were row spacing or plant density adjusted to manage pests?

Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?

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.

Pesticide class, Common name, and Trade name

The following is a list of 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 vegetable crops and NASS does not mean to promote use of any specific trade name.

Pesticide Class, Common Names, and Trade Names

Class	Common Names	Trade Names
H	2,4-D	Envy 2,4-D
H	2,4-D, 2-ethylhexyl	2,4-D L.V. 4 Ester (3.84 lbs/ g), 2,4-D LV4 (3.80 lbs/g), 2,4-D Lo-V Ester
H	2,4-D, butoxyethyl e	Weedone 638, Weedone LV6
H	2,4-D, diethanolamin	Hi-Dep, Weedar 64A
H	2,4-D, dimethylamine	2,4-D Amine 4, Formula 40, Hi-Dep, Weedar 64
H	2,4-D, triisopropano	Curtail (EC)
I	Abamectin	Abba, Agri-Mek 0.15EC, Epi-mek 0.15 EC, Quali-Pro Abamectin 0.15 EC, Zephyr 0.15 EC
I	Acephate	Acephate 75 WSP, Acephate 97UP, Orthene 75 S, Orthene 75 WSP, Orthene 97, Othenex Garden Insect & Disease Control
O	Acequinocyl	Kanemite 15 SC
I	Acetamiprid	Assail 30 SG, Assail 70WP
H	Acetochlor	Degree Xtra, Harness, Harness Xtra (6.0L), Harness Xtra 5.6L, Keystone
O	Acibenzolar-S-Methyl	Actigard, Blockade 50WG
H	Alachlor	Alachlor 4 EC, Arena (4EC), Bullet, Intrro (4E), Lariat (4F), Lasso, Micro-Tech, Partner WDG, Saddle
I	Aldicarb	Temik 15G
I	Aluminum phosphide	Gastoxin Tablets
H	Ametryn	Evik 80W
H	Atrazine	AAtrax 4L, AAtrax Nine-O (WP), Atrazine 4L, Atrazine 5L, Atrazine 90DF, Bicep II Magnum, Bicep Lite II Magnum, Bullet, Cinch ATZ, Cinch ATZ Lite Herbicide, Degree Xtra, G-Max Lite, Guardsman, Guardsman Max, Harness Xtra (6.0L), Harness Xtra 5.6L, Keystone, Laddok, Laddok S-12, Lariat (4F), Lexar, Lumax
I	Azadirachtin	Agroneem, Aza-Direct, Bollwhip 4.5, Ecozin 3% EC, Margosan-O, Neemix 4.5, Neemix Botanical Insecticide, Ornazin 3% EC, SuperNeem 4.5-B
I	Azinphos-methyl	Azinphos-M 2 EC, Guthion Solupak 50%, Sniper 2E, Sniper 50W
F	Azoxystrobin	About, Amistar, Quadris, Quadris Opti, Quilt
F	Bacillus pumilus (QS)	Sonata AS
F	Bacillus subtilis (Q)	Serenade AS, Serenade ASO
F	Bacillus subtilis	Rhapsody AS Biofungicide, Serenade Biofungicide (WP), Serenade MAX, Serenade WP Biofungicide
F	Basic copper sulfate	Basic Copper 53, C-O-C-S WDG, Cuprofix Disperss, Cuprofix MZ Disperss, Cuprofix Ultra 40D, Nu-Cop WDG, TOP COP Tri-Basic, TOP COP with Sulfur, Tri-Basic Copper
H	Benefin	Balan DF
F	Benomyl	Benlate, Benlate PNW, Benlate SP
H	Bensulide	Prefar 4E, Prefar 6-E
H	Bentazon	Basagran, Basagran (For Turf & Ornamental), Laddok, Laddok S-12
I	Benzoic acid	Intrepid 2F
I	Beta-cyfluthrin	Baythroid XL
I	Bifenazate	Acramite 50WS
I	Bifenrinthrin	Bifenthrin 2EC, Bifenture EC, Brigade WSB 10WP, Capture 2EC,

Pesticide Class, Common Names, and Trade Names - continued

Class	Common Names	Trade Names
I	Bifenthrin - cont.	Discipline 2EC, Empower 2, Fanfare 2EC, Talstar Nursery Granular, Tundra EC
F	Boscalid	Endura (70WG), Pristine
H	Bromoxynil	Buctril (2EC), Moxy 2E
H	Bromoxynil heptanoat	Buctril 4EC
H	Bromoxynil octanoic	Bromox 2E, Bromox/ MCPA 2-2, Brox 2EC, Brox-M, Buctril 4EC
I	Bt subsp. aizawai	Agree WG, Ketch DF, XenTari Biological Insecticide (DF), Xentari WDG
I	Bt subsp. kurstaki	Crymax WDG, Deliver, Dipel 2X (WP), Dipel DF, Dipel ES, Dipel WP, Javelin WG, Lepinox WDG, Thuricide 32B, Thuricide Bt, Thuricide HPC
I	Bt. (Berliner)	Bt Sulfur 15-50 Dust
I	Buprofezin	Buprofezin 40SC, Centaur, Courier
H	Butylate	Sutan+ 6.7E
I	Canola oil	NEU1161, NEU1161 aka Fruit & Veg. Insect Spray
O	Capsaicin	Hot Sauce Animal Repellent
F	Captan	Captan 10 Dust, Captan 4L, Captan 50W, Captan 7.5 Dust, Captan 80 WDG, Captan 80-WP, Captec 4L, Captevate 68 WDG
I	Carbaryl	Carbaryl 4L, Carbaryl 5% Bait, Carbaryl 80S, Ortho Liquid Sevin, Sevin 10%, Sevin 20% Bait, Sevin 4F, Sevin 5 Pellets, Sevin 50W, Sevin 80S, Sevin 80WSP, Sevin Bait (5%), Sevin Brand RP2, Sevin Liquid, Ortho, Sevin SL, Sevin XLR Plus
I	Carbofuran	Furadan 15G, Furadan 4F
H	Carfentrazone-ethyl	Aim (40% WDG), Aim EC, Aim EW, Shark
I	Chlorethoxyfos	Fortress 5G
O	Chloropicrin	Chloropicrin 100, InLine, MBC 67-33, MBC-33, Methyl Bromide 45% & Chloropicrin 55%, Methyl Bromide 50% & Chloropicrin 50%, Methyl Bromide 57% & Chloropicrin 43%, Methyl Bromide 67% & Chloropicrin 33%, Methyl Bromide 75% & Chloropicrin 25%, Pic-Clor 60, TM-442(aka Chloropicrin), Telone C-17, Telone C-35, Tri-Clor Chloropicrin, Tri-Color EC
F	Chlorothalonil	Bravo 500, Bravo 720, Bravo S (EC), Bravo Ultrex, Bravo W-75, Bravo Weather Stik, Bravo ZN, Chloronil 720, Chlorothalonil 4L, Chlorthalonil 720 F, Daconil 2787 Flowable, Daconil 2787 Multipurpose, Echo 720, Echo 90DF, Echo Zn, Ensign 720 / Bravo 720, Equus 500 ZN, Equus 720, Equus 720 SST, Equus DF, PathGuard 6F, Quadris Opti, Ridomil Gold Bravo L (7008 & 7286), Ridomil Gold/ Bravo (WP), Ridomil/Bravo 81W
I	Chlorpyrifos	Chlorpyrifos 4E AG, Dursban ¹ 2G, Govern 4E, Lorsban 15G, Lorsban 4E, Lorsban 50W, Lorsban 75WG, Nufos 15G, Nufos 4E, Whirlwind, Yuma 4E
I	Clarified hydrophobi	Do Not Use Call HQ, NeemGard, Triact 70 (T & O), Trilogy
H	Clethodim	Arrow 2EC, Envoy, Intensity, Prism, Section 2 EC, Select 2 EC, Volunteer
H	Clomazone	Command 3ME, Command 4EC, Strategy

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Pesticide Class, Common Names, and Trade Names - continued

Class	Common Names	Trade Names
H	Clopyralid	Hornet, Stinger (3EC)
H	Clopyralid monoethan	Curtail (EC)
F	Coniothyrium minitan	Contans WG
F	Copper ammonium comp	Copper-Count-N
F	Copper hydroxide	Blue Shield 3L, Blue Shield 50 WP, Blue Shield WP, Champ Dry Prill, Champ Flowable, Champ Formula 2, Champ Formula II DF WSP, Champ Plus, Champion ²⁰ 20 (WP), Champion WP, Coppercide 50, Kocide 101 (WP), Kocide ²⁰ 20, Kocide 2000, Kocide 4.5 LF, Kocide 606 (aka Kocide 4.5LF), Kocide DF, Kocide LF, Kop-Hydroxide 50, Mankocide, Nu-Cop 3L, Nu-Cop 50DF, Ridomil Copper 70W, Ridomil Gold/ Copper
F	Copper octanoate	NEU1140F Copper Soap
F	Copper oxide	Nordox (WP), Nordox 75 WG
F	Copper oxychloride	C-O-C-S WDG
F	Copper oxychloride s	C-O-C-S 15 Sulfur 25
F	Copper resinate	Camelot, Copper Fungicide 4E, Tenn-Cop 5E
F	Copper sulfate	Basicop, Copper Sulfate, Copper Sulfate Powdered Bluestone
I	Cryolite	Cryolite 96 Dust, Cryolite Bait, Kryocide
H	Cyanazine	Bladex 4L, Cy-Pro 4L
F	Cyazofamid	Ranman
H	Cycloate	Ro-Neet 6E
I	Cyfluthrin	Aztec 2.1% Granular, Aztec 4.67% Granular, Bayer Multi-Insect Killer Concentrate, Baythroid 2 (EC), Renounce 20WP, Tempo 2, Tempo 20 WP, Tombstone
F	Cymoxanil	Curzate 60DF, Tanos
I	Cypermethrin	Ammo 2.5 EC, Ammo WSB (39%), Battery 2.5 EC
F	Cyprodinil	Switch 62.5WG
I	Cyromazine	Trigard (75W)
O	Cytokinins	Cytokin Bioregulator Concentrate, Cytoplex HMS, Early Harvest, Foliar Triggrr, Soil Triggrr, Stimplex
H	DCPA	Dacthal Flowable, Dacthal W-75
I	Deltamethrin	Decis 0.2EC, Decis 1.5EC, Delta Gold
I	Diazinon	D-264 EC500, D-z-n Diazinon 50W, D-z-n Diazinon AG500 (4E), Diazinon 14G, Diazinon 4 Spray, Diazinon 4E, Diazinon 5 Granules, Diazinon 50W, Diazinon AG500 (4E), Diazinon AG600 WBC, Diazinon Ultra, Spectracide 25
H	Dicamba, diglycolami	Clarity
H	Dicamba, dimethylami	Banvel (4L)
H	Dicamba, sodium salt	Celebrity Plus, Dicamba SG, Distinct (aka Overdrive)
O	Dichloropropene	InLine, Pic-Clor 60, Telone C-17, Telone C-35, Telone EC, Telone II
F	Dicloran	Botran 5F, Botran 6 Dust, Botran 75W, Diclor, Sclerban 75 WDG
I	Dicofol	Dicofol 3 Dust, Dicofol 4 E, Kelthane 35 (WP), Kelthane 50 (WP), Kelthane EC, Kelthane MF
I	Diflubenzuron	Dimilin 25W, Dimilin 2L
H	Diflufenzopyr-sodium	Celebrity Plus, Distinct (aka Overdrive)
H	Dimethenamid	Frontier 6.0, Guardsman

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Pesticide Class, Common Names, and Trade Names - continued

Class	Common Names	Trade Names
H	Dimethenamid-P	G-Max Lite, Guardsman Max, Outlook
I	Dimethoate	Cygon 2-E, Cymate 267, De-Fend E-267, Dimate 4EC, Dimethoate 2.67 EC, Dimethoate 25WP, Dimethoate 400, Dimethoate 4EC, Dimethoate 5 lb.
F	Dimethomorph	Acrobat 50WP, Acrobat MZ, Forum
F	Dinocap	Karathane WD
I	Dinotefuran	Dinotefuran 20SG, Dinotefuran 70 SG, Venom, Venom 20 SG
O	Diphacinone	P.C.Q. Pelleted Rodent Bait, Ramik Green
F	Disodium tetraborate	Prevam Ultra
I	Disulfoton	Di-Syston 15% G, Di-Syston 8, Terraclor Super X w/ Di-Syston
H	Dithiopyr	Dimension
H	Diuron	Direx 4L, Direx 80DF, Diuron 4L, Diuron 80DF, Diuron 80W, Karmex DF, Karmex IWC (Turf & Ornamental), Karmex IWC 4L (Turf & Ornamental), Karmex XP, Velpar AlfaMax
F	Dodine	Syllit 65W
O	E,E-8, 10-Dodecadien	Checkmate CM Puffer Dispenser
H	EPTC	Eptam 20-G, Eptam 7-E, Eptek 7EC, Eradicane 25G, Eradicane 6.7E, Eradicane Extra (6EC)
I	Emamectin benzoate	Proclaim
I	Endosulfan	Endocide 3EC, Endosulfan 3EC, Endosulfan 50W, Phaser (3EC), Phaser 3EC, Thiodan 2 C.O. EC, Thiodan 3EC, Thiodan 50WP, Thionex (Thiodan) 3EC, Thionex 50W
I	Esfenvalerate	Asana, Asana XL, Ortho Bug-B-Gon
H	Ethalfuralin	Curbit EC, Sonalan (3EC), Strategy
O	Ethephon	Ethephon 2, Ethrel Plant Regulator (2EC), Florel Plant Growth Regulator
I	Ethoprop	Mocap 10G, Mocap 15G, Mocap EC
I	Ethyl parathion	Parathion 4-EC, Parathion 4L, Parathion-Methyl Parathion 6-3EC C2002
I	Etoxazole	Secure Miticide, Zeal Miticide
F	Etridiazole	Terraclor Super X w/ Di-Syston
F	Famoxadone	Tanos
F	Fenamidone	Reason 500 SC
I	Fenamiphos	Nemacur 3 Turf
I	Fenbutatin-oxide	Othenex Garden Insect & Disease Control, Vendex 50WP
F	Fenhexamid	Captevate 68 WDG, Elevate 50 WDG
I	Fenpropathrin	Danitol 2.4 EC Spray
I	Fipronil	Regent 80 WG
H	Fluazifop-P-butyl	Fusilade 2000 (1EC), Fusilade DX
F	Fludioxonil	Maxim 4FS, Switch 62.5WG
H	Flufenacet	Axiom DF
O	Flumetralin	Prime+ EC
H	Flumetsulam	Hornet
H	Fluroxypyr	Starane EC
F	Folpet	Folpet 50W
H	Fomesafen	Reflex
I	Formetanate hydrochl	Carzol SP

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Pesticide Class, Common Names, and Trade Names - continued

Class	Common Names	Trade Names
F	Fosetyl-al	Aliette WDG (For Crop Protection), Aliette WDG (For Turf & Ornamental)
O	Gamma aminobutyric a	Auxigro
I	Gamma-cyhalothrin	Proaxis, Prolex
O	Garlic oil	Garlic Barrier AG
O	Gibberellic acid	Cytoplex HMS, Early Harvest, Falgro 20SP, PGR-IV, ProGibb 4%, RyzUp
H	Glufosinate-ammonium	Liberty, Rely Herbicide
H	Glyphosate	Touchdown Herbicide, Touchdown Total
H	Glyphosate isopropyl	Buccaneer, Buccaneer Plus, ClearOut 41 Plus, Cornerstone, Cornerstone Plus, Credit, Credit Duo Extra, Durango, Gly Star Original, Gly Star Plus, Gly-4 Plus, Gly-Flo Herbicide, Glyphos X-TRA, Glyphomax, Glyphosate 4 (Turf & Ornamental), Glyphosate 41% Plus, Glyphosate Original, Hi-Yield Killzall, Honcho, Honcho Plus, Imitator Plus, Mirage (4EC), Mirage Plus, Polado L, Rattler, Roundup Custom, Roundup Export, Roundup Original, Roundup Original II, Roundup Original Max, Roundup Pro (T & O), Roundup Ultra, Roundup Ultra Max, Roundup UltraMax II, Roundup Weather Max, Silhouette Herbicide
H	Glyphosate, ammonium	Credit Duo Extra, Roundup Ultra Dry
H	Halosulfuron	Permit, Sandea
O	Harpin protein	Messenger STS
I	Helicoverpa zea NPV	Gemstar LC
H	Hexazinone	Velpar AlfaMax
I	Hexythiazonx	Savey 50 DF, Savey 50 WP
O	Hydrogen peroxide (d	Oxidate
H	Imazamox	Raptor
H	Imazethapyr	Pursuit DG, Pursuit Plus EC
H	Imazethapyr, ammoniu	Pursuit, Pursuit W
I	Imidacloprid	Admire 2 Flowable, Admire Pro, Merit 75 WP, Provado 1.6 Flowable, Widow
O	Indole-3-butyric aci	Cytoplex HMS, Early Harvest, PGR-IV
I	Indoxacarb	Avaunt Insecticide
F	Iprodione	Iprodione 4L, Rovral 4 Flowable, Rovral Fungicide (50WP)
O	Iron phosphate	Sluggo
I	Kaolin	Surround WP
O	L-Glutamic acid	Auxigro
H	Lactofen	Cobra (2E), Phoenix Herbicide
I	Lambda-cyhalothrin	Chemsico Insect Granule LH, Chemsico Insecticide Concentrate 5L, Demand CS, Karate (1EC), Lambda-T, Scimitar GC, Silencer, Taiga Z, Warrior
H	Linuron	Lorox DF
H	MCPA	Rhonox (EC), Sodium MCPA 2
H	MCPA, 2-ethylhexyl e	Bromox/ MCPA 2-2, Brox-M, Solve MCPA Ester
H	MCPA, dimethylamine	MCP Amine 4, MCPA Amine (3.7SC), Rhomene MCPA Amine
H	MCPA, sodium salt	Chiptox MCPA Sodium (2L)

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Pesticide Class, Common Names, and Trade Names - continued

Class	Common Names	Trade Names
H	MCPB	Thistrol (2L)
H	MSMA	MSMA Plus
I	Malathion	Malathion 25 WP, Malathion 5 Dust, Malathion 5 EC (56%), Malathion 5 EC (57%), Malathion 55, Malathion 8E, Malathion Aquamul (8E), Malathion Spray 50%, Malathion ULV 9.7lbs. (95%)
O	Maleic hydrazide	Maleic Hydrazide 1.5, Royal MH-30, Royal MH-30 SG, Royal MH-30 Xtra, Sprout Stop
F	Mancozeb	Acrobat MZ, Cuprofix MZ Disperss, Dithane 75DF Rainshield (For T & O), Dithane DF Rainshield, Dithane F-45 Rainshield, Dithane M-45 (WP), Dithane WF (For Turf & Ornamental), Fore FloXL, Fore Turf & Ornamental, Gavel 75DF, Mancozeb 80% WP, Manex II (4EC), Mankocide, Manzate 200 DF, Manzate 200 WP, Manzate 75DF, Manzate Flowable, Manzate Pro-Stick, Penncozeb (80WP), Penncozeb 75DF, Pentathlon DF, Ridomil Gold MZ
F	Maneb	Amazin (80WP), Dithane M-22 Special (80WP), Maneb 4 Flowable, Maneb 75DF, Maneb 80W, Maneb Plus Zinc, Manex
F	Mefenoxam	Ridomil Gold Bravo L (7008 & 7286), Ridomil Gold EC, Ridomil Gold GR, Ridomil Gold MZ, Ridomil Gold PC, Ridomil Gold/ Bravo (WP), Ridomil Gold/Copper, Ultra Flourish
H	Mesotrione	Callisto, Camix, Lexar, Lumax
F	Metalaxyl	Ridomil 2E, Ridomil Copper 70W, Ridomil PC 11G, Ridomil/ Bravo 81W
O	Metaldehyde	Deadline Bullets, Deadline M-Ps, Metaldehyde 3.5G, OR-CAL Snail & Slug Bait
O	Metam-potassium	K-Pam HL
O	Metam-sodium	Metam 426 (For All Crops), Metam Sodium (32.7%) (For All Crops), Sectagon 42, Vapam HL (4.26 lb.), Vapam Soil Fumigant (For All Crops)
I	Methamidophos	Monitor 4 Spray, Monitor 4 Spray (For Cotton & Potatoes)
H	Methanone	Impact
I	Methomyl	Lannate L (1.8 lbs.), Lannate LV (2.4 lbs.), Lannate SP, Nudrin 1.8
I	Methoxychlor	Methoxychlor 2EC
O	Methyl anthranilate	Bird Shield
I	Methyl bromide	MBC 67-33, MBC-33, Methyl Bromide 45% & Chloropicrin 55%, Methyl Bromide 50% & Chloropicrin 50%, Methyl Bromide 57% & Chloropicrin 43%, Methyl Bromide 67% & Chloropicrin 33%, Methyl Bromide 75% & Chloropicrin 25%, Methyl Bromide 98%
I	Methyl parathion	Declare, Methyl Parathion 4EC, Parathion-Methyl Parathion 6-3EC C2002, Pennacap-M
F	Metiram	Polyram 80 DF
H	Metolachlor	Dual 25G, Dual 8E, Me-Too-Lachlor, Parallel, Stalwart C
H	Metribuzin	Axiom DF, Lexone DF, Metri DF, Metribuzin 75DF, Sencor 4,

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Pesticide Class, Common Names, and Trade Names - continued

Class	Common Names	Trade Names
H	Metribuzin - cont.	Sencor DF (75%)
I	Mevinphos	Phosdrin 4EC
F	Mono-potassium salt	Fungi-Phite
F	Myclobutanil	Nova 40W, Rally 40W, Rally 40WSP
I	Myrothecium verrucar	DiTera DF Biological Nematicide, Ditera Biological Nematicide
I	N-octy bicyclohepten	Pyreth-In Pt 1100
I	Naled	Dibrom 4 Dust, Dibrom 8 Emulsive, Dibrom 8 Miscible, Trumpet EC
O	Naphthaleneacetic ac	SNAAP-2
H	Napropamide	Devrinol 2-E, Devrinol 5-G, Devrinol 50-DF, Devrinol 50-DF Ornamental, Devrinol 50WP Ornamental
H	Naptalam	Alanap-L
H	Nicosulfuron	Accent Herbicide, Celebrity Plus
H	Norflurazon	Solicam DF
H	Oryzalin	Surflan AS Specialty (T & O)
I	Oxamyl	Vydate L
I	Oxydemeton-methyl	Metasystox-R (2EC)
H	Oxyfluorfen	Goal 1.6E, Goal 2XL, Goaltender, OxiFlo 2EC, Oxyfluorfen 2 Herbicide
H	Paraquat	Cyclone Concentrate, Gramoxone Extra, Gramoxone Inteon, Gramoxone Max, Gramoxone Super
H	Pendimethalin	Acumen, Pendant 3.3 EC herbicide, Pendimax 3.3, Pendimethalin, Prowl (4EC), Prowl 3.3 EC, Prowl DG, Prowl H2O, Pursuit Plus EC, Stealth
F	Pentachloronitrobenz	Ridomil Gold PC, Ridomil PC 11G, Terraclor 15G, Terraclor 75WP, Terraclor Super X w/ Di-Syston
I	Permethrin	Ambush, Ambush 0.5% Bait, Ambush 25W, Arctic 3.2 EC, Eight Insect Control, Perm-UP 3.2 EC, Permethrin 3.2 AG, Permethrin 3.2 EC, Pounce 1.5G, Pounce 25WP, Pounce 3.2EC, Pounce WSB, Unicorn .25 Permethrin WB, Waylay 3.2 AG
I	Petroleum distillate	JMS Stylet-Oil, Oil, Saf-T-Side, Sunspray Ultra-Fine Spray Oil, Supreme Oil Spray
I	Petroleum oil	PureSpray Green, Purespray Spray Oil 10E
H	Phenmedipham	Spin-Aid (1.33EC)
I	Phorate	Phorate 20G, Thimet 15-G, Thimet 20-G
I	Phosmet	Imidan 50-WSB, Imidan 70 WSB (WP)
I	Phosphamidon	Phosphamidon 8 Spray
F	Phosphorous acid	Agri-Fos Systemic Fungicide, Fosphite Fungicide, Phostrol, Prophyt, Topaz
I	Piperonyl butoxide	Evergreen Crop Protection EC 60-6, PBO-8 (EC), Pyreth-In Pt 1100, Pyroicide Emulsifiable 60-6
F	Potassium bicarbonat	Armicarb 100, Kaligreen (WP), MilStop Broad Spectrum Foliar Fungicide
I	Potassium salts	M-Pede, Safer Insecticidal Soap
H	Prometryn	Caparol 4L, Cotton-Pro, Prometryne 4L
H	Pronamide	Kerb 50-W (For Reformulation Use ONLY), Kerb 50WP Specicalty (Turf & Ornamental)
H	Propachlor	Ramrod 65 (WP)

--continued

Pesticide Class, Common Names, and Trade Names - continued

Class	Common Names	Trade Names
F	Propamocarb hydrochl	Previcur Flex
I	Propargite	Comite
F	Propiconazole	Bumper 41.8 EC, PropiMax EC, Quilt, Tilt
I	Pymetrozine	Fulfill
F	Pyraclostrobin	Cabrio EG, Headline, Pristine
I	Pyrethrins	Evergreen Crop Protection EC 60-6, Evergreen Growers Spray, NEU1161, NEU1161 aka Fruit & Veg. Insect Spray, PyGanic EC 1.4 II, PyGanic EC 5.0 II, Pyrellin E.C., Pyreth-In Pt 1100, Pyroicide Emulsifiable 60-6, Rotenone/ Pyrethrins EC
H	Pyridate	Tough / Lentagran EC
F	Pyrimethanil	SCALA SC
I	Pyriproxyfen	Knack
F	Quinoline	Quintec
H	Quizalofop-P-ethyl	Assure II
H	Quizalofop-ethyl	Targa
H	Rimsulfuron	Matrix (aka Shadeout)
I	Rotenone	Pyrellin E.C., Rotenone Dust 1%, Rotenone/ Pyrethrins EC
H	S-Metolachlor	Bicep II Magnum, Bicep Lite II Magnum, Brawl, Brawl II, Camix, Cinch, Cinch ATZ, Cinch ATZ Lite Herbicide, Dual II Magnum, Dual Magnum, Lexar, Lumax, Medal, Medal II
H	Sethoxydim	BASF Poast Herbicide, Conclude G (Poast), Poast, Poast HC, Poast Micro Flo, Poast Plus, Torpedo Herbicide, Trigger
H	Simazine	Princep 4G, Princep Caliber 90, Princep Liquid (For Turf & Ornamental), Sim-Trol 4L, Sim-Trol 90DF, Simazine 4L, Simazine 80W, Simazine 90 WDG, Simazine 90DF
I	Spinosad	Conserve Professional Fire Ant Bait, Entrust, GF-120 NF Naturalyte Fruit Fly Bait, SpinTor 2SC, Success, Tracer
I	Spiromesifen	Oberon 2 SC
F	Streptomycin	Agri-Mycin 17
F	Streptomycin sulfate	Firewall 17 WP
O	Strychnine	Gopher Getter AG Bait
H	Sulfentrazone	Spartan (75%), Spartan 4F
H	Sulfosate	Touchdown 5
F	Sulfur	Ben-Sul 85, Bravo S (EC), Bt Sulfur 15-50 Dust, C-O-C-S 15 Sulfur 25, Kumulus DF, Micro Sulf, Microfine Sulfur, Microthiol Disperss, Microthiol Disperss (USE-7449), Microthiol Special, Signal Dusting Sulfur, Special Electric Dusting Sulfur, Suffa (6L), Sul-Preme 52, Sulfur (92%), Sulfur 6L (52%), Sulfur 90W, Sulfur DF (80%), Sulfur Dusting (90%), Sulfur Dusting (98%), Sulfur Flowable (6F), Sulfur Wettable Powder (95%), Super Six, TOP COP with Sulfur, That Flowable Sulfur, Thiolux (80DF), Thiolux Jet, Yellow Sulfur Special Dusting Sulfur
F	Tebuconazole	Folicur 3.6 F
I	Tebufenozide	Confirm 2F

--continued

Pesticide Class, Common Names, and Trade Names - continued

Class	Common Names	Trade Names
I	Tebupirimphos	Aztec 2.1% Granular, Aztec 4.67% Granular
I	Tefluthrin	Force 3G
H	Terbacil	Sinbar (80WP)
I	Terbufos	Counter 15G
F	Tetraconazole	Domark 230 ME
I	Thiacloprid	Calypso
I	Thiamethoxam	Actara, Centric, Platinum
I	Thiodicarb	Larvin 3.2
F	Thiophanate-methyl	T-Methyl 70W WSB, Topsin 4.5FL, Topsin M 70WP, Topsin M 85 WDG, Topsin M WSB
F	Thiram	Thiram 65WP, Thiram 75WP
F	Triadimefon	Bayleton 50% DF
H	Triallate	Far-Go
I	Trichlorfon	Dylox 80% SP
O	Tridecen-1-YL-Acetat	Consep TPW Spr1m Pheromone Sprayable
O	Tridecen-1-yl acetat	Consep TPW Spr1m Pheromone Sprayable
F	Trifloxystrobin	Flint
F	Triflumizole	Procure 480SC, Procure 50WS, Procure 50WS (Use 7242)
H	Trifluralin	Preen, Treflan 4L, Treflan 5 (EC), Treflan E.C., Treflan HFP, Treflan M.T.F., Treflan TR-10, Tri-4, Trifluralin 10G, Trifluralin 4EC, Trifluralin HFP, Triflurex HFP, Trilin, Trilin 10G, Trilin 5, Trust 4EC
F	Triforine	Funginex (1.6EC), Othenex Garden Insect & Disease Control
F	Vinclozolin	Ronilan EG
F	Xanthomonas Campestr	Agriphage
I	Zeta-cypermethrin	Fury 1.5 EC, Mustang, Mustang Max
F	Zineb	Zineb (75WP)
F	Zoxamide	Gavel 75DF

C

FERTILIZER APPLICATIONS

C

Enumerator Note---
 If column 4 of the table in Section B is YES for any crops, continue with item 1.
 If column 4 of the table in Section B is NO for all crops, go to Section D, page 9.

1. I need to record complete information on all commercial fertilizers applied to the target vegetables you grew during the 2006 crop year. Include all applications regardless of how they were applied. (Irrigation water, foliar applications, etc.) [Record amount of analysis of fertilizers applied or pounds of **actual plant nutrients** applied. Complete the table below (and any necessary supplemental fertilizer tables).]

T-TYPE 002	TABLE 001
OFFICE USE LINES IN TABLE	
LINE 99	299

LINE	1	2	3	4	5	6	7	8	9	10
	CROP	CROP CODE	NITROGEN N	PHOSPHATE P ₂ O ₅	POTASH K ₂ O	SULFUR S	How much was applied per acre per application? [Leave this column blank if actual nutrients were reported.]	UNIT CODES 1 Pounds 12 Gallons 13 Quarts 15 Liquid Oz. 28 Dry Oz. 19 ACTUAL NUTRIENTS	How many acres was this applied to? ACRES	How many times was it applied? NUMBER
01		201	202	203	204	214	205 .	206	207 .	208
02		201	202	203	204	214	205 .	206	207 .	208
03		201	202	203	204	214	205 .	206	207 .	208
04		201	202	203	204	214	205 .	206	207 .	208
05		201	202	203	204	214	205 .	206	207 .	208
06		201	202	203	204	214	205 .	206	207 .	208
07		201	202	203	204	214	205 .	206	207 .	208
08		201	202	203	204	214	205 .	206	207 .	208
09		201	202	203	204	214	205 .	206	207 .	208
10		201	202	203	204	214	205 .	206	207 .	208
11		201	202	203	204	214	205 .	206	207 .	208
12		201	202	203	204	214	205 .	206	207 .	208
13		201	202	203	204	214	205 .	206	207 .	208
14		201	202	203	204	214	205 .	206	207 .	208
15		201	202	203	204	214	205 .	206	207 .	208
16		201	202	203	204	214	205 .	206	207 .	208
17		201	202	203	204	214	205 .	206	207 .	208

D PESTICIDE APPLICATIONS D

6. Now I need to get complete information on all of the chemicals applied, including applications made by you and/or by custom applicators during the 2006 crop year to each of the target vegetable crops you grew. **Let's start with the first application to your [crop] since the 2005 crop year harvest.**

[Complete the table for all chemical applications to the target vegetable crops. Use supplemental tables if necessary. Exclude seed treatments, spot treatments, foliar applications of nutrients, and applications made to vegetables after harvest.]

ENUMERATOR NOTE: *[If respondent is not able to report columns 6 or 7, ask respondent to report: Amount of product mixed with 100 gallons of water, number of gallons per tank and number of tanks used.]*

		LINES IN TABLE OFFICE USE	T-TYPE	3	TABLE	001	LINE 99	399
CHEMICAL PRODUCT NAME	L I N E	1 CROP	2 CROP CODE	3 What product(s) was applied to the [crop]? <i>[Enter product code.]</i>	4 Was this product bought in liquid or dry form? <i>[Enter L or D.]</i>	5 Was this part of a tank mix? <i>[If tank mix, enter line number of first product in mix.]</i>		
	01		304	305			306	
	02		304	305			306	
	03		304	305			306	
	04		304	305			306	
	05		304	305			306	
	06		304	305			306	
	07		304	305			306	
	08		304	305			306	
	09		304	305			306	
	10		304	305			306	
	11		304	305			306	
	12		304	305			306	
	13		304	305			306	
	14		304	305			306	
	15		304	305			306	

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

Line No.	Pesticide Type <i>(Herbicide, Insecticide, Fungicide, etc.)</i>	Tradename and Formulation	Form Purchased <i>(Liquid or Dry)</i>	EPA No.
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

D

PESTICIDE APPLICATIONS

D

CODES FOR COLUMN 8

1 POUNDS	30 GRAMS
12 GALLONS	40 KILOGRAMS
13 QUARTS	41 LITERS
14 PINTS	46 SPIRALS
15 OUNCES, LIQUID	47 PACKETS
28 OUNCES, DRY	50 OTHER (<i>Specify</i> _____)

LINE	6	OR	7	8	9	10
	How much was applied per acre per application?		What was the total amount applied per application?	[Enter unit code from above.] CODE	How many acres were treated with this product? ACRES	How many times was it applied? NUMBER
01	308		309	310	312	313
02	308		309	310	312	313
03	308		309	310	312	313
04	308		309	310	312	313
05	308		309	310	312	313
06	308		309	310	312	313
07	308		309	310	312	313
08	308		309	310	312	313
09	308		309	310	312	313
10	308		309	310	312	313
11	308		309	310	312	313
12	308		309	310	312	313
13	308		309	310	312	313
14	308		309	310	312	313
15	308		309	310	312	313

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

Line No.	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	Tradename and Formulation	Form Purchased (Liquid or Dry)	EPA No.
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

E PEST MANAGEMENT PRACTICES E

Now I have some questions about pest management practices you may have used on any of the **total vegetable acres** on this operation
(Include both target and non-target vegetable crops grown.)

T-TYPE	TABLE	LINE
0	000	00

By pests, we mean insects, weeds, and diseases.

1. [Enumerator Action: Were PESTICIDE APPLICATIONS reported in Section D, column 3?]

- YES** - [Continue.] **No** - [Go to item 5.]

2. Was weather data used to assist in determining either the need or when to make pesticide applications? **YES = 1**

CODE
600

3. Were any biological pesticides such as Bt (*Bacillus thuringiensis*), insect growth regulators (*Courier, intrepid, etc.*) neem or other natural/biological based products sprayed or applied to manage pests? **YES = 1**

CODE
601

4. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides? **YES = 1**

CODE
602

5. In 2006, how were your vegetable acres primarily scouted for insects, weeds, diseases and/or beneficial organisms--

- 1 By deliberately going to the vegetable acres specifically for scouting activities? (Enter code 1 and go to item 6.)
- 2 By conducting general observations while performing routine tasks? (Enter code 2 and go to item 8.)
- 3 The vegetable acres were not scouted? (Enter code 3 and go to item 11.)

CODE
608

6. Was an established scouting process used (*systemic sampling, recording counts, etc.*) or were insect traps used on any vegetable acres? **YES = 1**

CODE
609

7. Was scouting for pests done on these vegetable acres due to---

CODE

a. a pest advisory warning? **YES = 1** 610

b. a pest development model? **YES = 1** 611

1	2 [If column 1 = YES, ask---] Who did the majority of the scouting for [column 1]--	
	1 Operator, partner or family member 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or commercial scout 5 Other, (specify _____)	
8. Were your vegetable acres scouted for ---	YES = 1	CODE
a. weeds?	612	614
b. insects and mites?	615	617
c. disease?	618	620

E PEST MANAGEMENT PRACTICES E

		CODE
9.	Were written or electronic records kept to track the activity or numbers of weeds, insects or diseases?	623
	YES = 1	
10.	Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests?	624
	YES = 1	
11.	Was field mapping data used for making pest management decisions?	625
	YES = 1	
12.	Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest analysis?	626
	YES = 1	
13.	Were crop residues plowed down or removed to manage pests?	627
	YES = 1	
14.	Were crops rotated during the 3 years for the purpose of managing pests?	628
	YES = 1	
15.	Were ground covers, mulches, or other physical barriers maintained to manage pest problems?	629
	YES = 1	
16.	Was a crop variety chosen because it had resistance to a specific pest?	630
	YES = 1	
17.	Was no-till or minimum till used to manage pests?	631
	YES = 1	
18.	Were planting locations planned to avoid infestation of pests?	632
	YES = 1	
19.	Were planting or harvesting dates adjusted to manage pests?	633
	YES = 1	
20.	Were row spacing or plant density adjusted to manage pests?	634
	YES = 1	
21.	Was a trap crop grown to help manage insects?	635
	YES = 1	
22.	Were any beneficial organisms (<i>insects, nematodes, fungi</i>) applied or released to manage pests?	636
	YES = 1	
23.	Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on any vegetable acres?	637
	YES = 1	
24.	Were any vegetable acres cultivated for weed control during the growing season?	640
	YES = 1	
25.	Were field edges, lanes, ditches, roadways or fence lines chopped, mowed, plowed, or burned to manage pests on any vegetable acres?	642
	YES = 1	
26.	Were equipment and implements cleaned after completing field work to reduce the spread of pests?	643
	YES = 1	
27.	Were any vegetable acres irrigated for the 2006 crops?	644
	YES = 1	
	[If item 27 = YES, ask---]	
a.	Were water management practices (excluding chemigation) such as irrigation scheduling, controlled drainage, or treatment of retention water used to manage pests?	645
	YES = 1	

COMPLETION CODE for FERTILIZER APPLICATIONS

1 – Incomp/R	200
3 – Valid Zero	

COMPLETION CODE for PESTICIDE APPLICATIONS

1 – Incomp/R	300
3 – Valid Zero	

COMPLETION CODE for PEST MANAGEMENT PRACTICES

1 – Incomp/R	500
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Report Features

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