

# 2000 Agricultural Chemical Use Estimates for Vegetable Crops



This report, which summarizes the use of agricultural chemicals on vegetables in 2000, is

issued by the National Agricultural Statistics Service (NASS) as part of its series on Agricultural Chemical Usage. Other publications in the series present statistics for on-farm agricultural chemical usage for field crops, fruits, livestock, floriculture, nursery and postharvest applications.

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

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

## ASPARAGUS: Agricultural Chemical Applications, New Jersey, 2000 1/

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

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

## BEANS, SNAP, FRESH: Agricultural Chemical Applications, New Jersey, 2000 1/

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

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

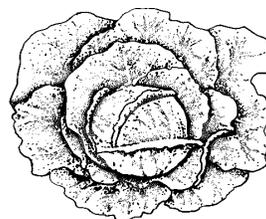
## CABBAGE, FRESH: Agricultural Chemical Applications, New Jersey, 2000 1/

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

\*\* Total applied is less than 50 lbs.

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

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



**CORN, SWEET, FRESH: Agricultural Chemical Applications, New Jersey, 2000 1/**

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

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

**CUCUMBERS, FRESH: Agricultural Chemical Applications, New Jersey, 2000 1/**

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

\*\* Total applied is less than 50 lbs.

1/ Planted acres in 2000 for New Jersey were 3,000 acres.

**EGGPLANT: Agricultural Chemical Applications, New Jersey, 2000 1/**

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

\*\* Total applied is less than 50 lbs.

1/ Planted acres in 2000 for New Jersey were 800 acres.

**LETTUCE, HEAD: Agricultural Chemical Applications, New Jersey, 2000 1/**

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

1/ Planted acres in 2000 for New Jersey were 1,200 acres.

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



**PEPPERS, BELL: Agricultural Chemical Applications, New Jersey, 2000 1/**

Agricultural Chemicals	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pound per Acre		1,000 Lbs
<b>Herbicides:</b>					
Clomazone	35	1.0	0.33	0.33	0.4
Napropamide	21	1.1	1.12	1.30	1.0
Trifluralin	3	1.0	0.70	0.70	0.1
<b>Insecticides:</b>					
Acephate	79	2.7	0.72	2.01	6.0
Cyfluthrin	7	2.6	0.04	0.11	**
Dimethoate	26	3.3	0.18	0.61	0.6
Endosulfan	2	3.0	0.52	1.58	0.1
Esfenvalerate	6	3.5	0.04	0.13	**
Imidacloprid	2	1.1	0.08	0.09	**
Lambda-cyhalothrin	2	1.4	0.02	0.04	**
Methomyl	46	3.4	0.48	1.67	2.9
Permethrin	7	1.6	0.14	0.23	0.1
Spinosad	22	2.2	0.07	0.16	0.1
<b>Fungicides:</b>					
Chlorothalonil	25	4.0	1.57	6.41	6.0
Copper hydroxide	60	5.3	0.80	4.32	9.8
Copper resinate	9	7.3	0.09	0.64	0.2
Copper sulfate	1	3.3	0.49	1.67	0.1
Mancozeb	*	5.4	0.77	4.17	0.1
Maneb	71	5.5	0.97	5.40	14.6
Metalaxyl	18	6.0	0.21	1.31	0.9

\* Area applied is less than one percent.

\*\* Total applied is less than 50 lbs.

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

**SPINACH, FRESH: Agricultural Chemical Applications, New Jersey, 2000 1/**

Agricultural Chemicals	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pound per Acre		1,000 Lbs
<b>Herbicides:</b>					
Cycloate	13	1.0	2.54	2.54	0.7
Metolachlor	77	1.0	0.59	0.59	0.9
<b>Insecticides:</b>					
Methomyl	110	1.6	0.43	0.70	0.1
Permethrin	25	2.1	0.16	0.35	0.2
<b>Fungicides:</b>					
Copper hydroxide	6	1.4	0.44	0.63	0.1
Metalaxyl	24	1.0	0.16	0.16	0.1

1/ Planted acres in 2000 for New Jersey were 1,900 acres.

**SQUASH: Agricultural Chemical Applications, New Jersey, 2000 1/**

Agricultural Chemicals	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pound per Acre		1,000 Lbs
<b>Herbicides:</b>					
Bensulide	19	1.0	5.32	5.32	3.9
Clomazone	34	1.0	0.17	0.17	0.2
<b>Insecticides:</b>					
Carbaryl	10	3.4	0.78	2.68	1.0
Endosulfan	32	1.9	0.62	1.22	1.5
Esfenvalerate	10	2.6	0.04	0.09	**
Imidacloprid	11	1.4	0.12	0.17	0.1
Methomyl	14	1.4	0.44	0.62	0.3
Permethrin	5	1.6	0.15	0.25	**
<b>Fungicides:</b>					
Azoxystrobin	17	1.7	0.21	0.37	0.2
Benomyl	9	2.7	0.30	0.80	0.3
Chlorothalonil	77	2.9	1.41	4.09	12.0
Copper hydroxide	20	3.0	0.71	2.14	1.6
Mancozeb	4	4.9	0.71	3.50	0.5
Maneb	10	1.8	0.81	1.53	0.6
Metalaxyl	26	3.0	0.10	0.32	0.3

\*\* Total applied is less than 50 lbs.

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

**STRAWBERRIES: Agricultural Chemical Applications, New Jersey, 2000 1/**

Agricultural Chemicals	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pound per Acre		1,000 Lbs
<b>Herbicides:</b>					
Napropamide	50	1.2	2.85	3.46	0.9
Sethoxydim	4	1.1	0.27	0.33	**
Terbacil	9	1.3	0.22	0.30	**
<b>Fungicides:</b>					
Benomyl	64	2.8	0.45	1.27	0.4
Captan	54	2.7	2.22	6.19	1.7
Iprodione	7	2.3	0.69	1.62	0.1
Vinclozolin	25	1.5	0.82	1.28	0.2

\*\* Total applied is less than 50 lbs.

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

**TOMATOES, FRESH: Agricultural Chemical Applications, New Jersey, 2000 I/**

<b>Agricultural Chemicals</b>	<b>Area Applied</b>	<b>Applications</b>	<b>Rate per Application</b>		<b>Total Applied</b>
	<i>Percent</i>	<i>Number</i>	<i>Pound per Acre</i>		<i>1,000 Lbs</i>
<b>Herbicides:</b>					
Metribuzin	30	1.0	0.37	0.38	0.4
Napropamide	27	1.0	1.29	1.38	1.3
Trifluralin	6	1.0	0.84	0.85	0.2
<b>Insecticides:</b>					
Azinphos-methyl	12	3.9	0.51	2.00	0.9
Carbaryl	2	2.8	0.87	2.48	0.2
Cyfluthrin	12	3.0	0.04	0.13	0.1
Dicofol	7	1.4	0.43	0.62	0.2
Endosulfan	21	2.8	0.56	1.62	1.2
Esfenvalerate	11	4.2	0.05	0.22	0.1
Imidacloprid	31	1.4	0.10	0.14	0.2
Lambda-cyhalothrin	42	2.8	0.02	0.07	0.1
Methomyl	11	2.2	0.41	0.94	0.4
Oxamyl	6	3.3	0.69	2.27	0.5
Rotenone	*	6			
<b>Fungicides:</b>					
Azoxystrobin	36	2.4	0.09	0.22	0.3
Benomyl	14	1.9	0.44	0.87	0.4
Chlorothalonil	72	3.7	1.73	6.47	16.7
Copper hydroxide	31	4.1	0.53	2.21	2.4
Copper resinate	12	4.7	0.10	0.49	0.2
Mancozeb	14	6.6	1.84	12.32	6.0
Maneb	21	3.8	1.29	4.98	3.8
Metalaxyl	12	2.0	0.52	1.04	0.5

\* Area applied is less than one percent.

\*\* Total applied is less than 50 lbs.

I/ Planted acres in 2000 for New Jersey were 3,600 acres.



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