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Agricultural Chemical Usage 2005 Restricted Use Summary

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Overview

As determined by the U.S. Environmental Protection Agency (EPA), a restricted use pesticide is a pesticide which is available for purchase and use only by certified pesticide applicators or persons under their direct supervision, and only for the uses covered by the applicator's certification. This group of pesticides is not available for use by the general public because of the very high toxicities or due to the environmental hazards associated with the materials.

The agricultural chemical usage data in this report were derived from pesticide products reported in the Agricultural Chemical Usage 2005 Field Crops Summary published in May 2006 and in the Agricultural Chemical Usage 2005 Fruit Summary published in July 2006 that are labeled as restricted use pesticides by the EPA. This report contains statistics for on-farm use of agricultural chemicals listed by active ingredient.

The agricultural chemical usage data in this year's Restricted Use Summary are summarized by product. Only application data for active ingredients which were part of a restricted use pesticide are included. In previous years, data were summarized by whether or not the active ingredients had any restricted uses. All pesticide products that contained the active ingredient, whether the product was restricted or not, were included.

Highlights

Field Crops: The data were compiled from 2 surveys, the Agricultural Resources Management Survey (ARMS) and Conservation Effects Assessment Project (CEAP). Targeted crops included corn, fall potatoes, oats, upland cotton, and soybeans. The Program States accounted for 82 to 93 percent of the U.S. acreage for these crops.

A limited number of restricted use herbicides were applied to field crops in 2005. The most commonly used herbicides were **Atrazine**, **Acetochlor**, and **Isoxaflutole** on 49, 23, and 6 percent of the acreage, respectively, to the acres planted to corn in the States surveyed.

A wide range of restricted use insecticides was used on corn, fall potatoes, soybeans, and upland cotton. **Cyfluthrin** was the most commonly used restricted insecticide, covering 29 percent of the fall potato acres; followed by **Esfenvalerate** and **Imidacloprid**, applied to 27 and 20 percent of the fall potatoes acreage, respectively. **Aldicarb** and **Diclotophos**, the next most utilized insecticides, were both applied to 19 percent of the upland cotton acreage. **Triphenyltin hydroxide**, was the only restricted use fungicide applied to any program field crop, as it was applied to 10 percent of the fall potato acreage. **Paraquat**, used as a defoliant, on 14 percent of the upland cotton acreage and 2 percent of the fall potato acreage was the most commonly applied Other Chemical.

Fruit Crops: Growers in 13 Program States were surveyed to obtain restricted chemical use data on 22 selected fruit crops in 2005. The data on restricted use applications cover the period immediately following harvest of the 2004 crop through harvest of the 2005 crop. Dates and figs were included in the survey but do not appear in the publication because there were no restricted use chemicals reported.

A limited number of restricted use herbicides were applied to fruit crops in 2005. The only restricted use herbicide applied was **Paraquat**, as it was applied to nearly every target crop, in percentages ranging from 1 percent of the grapefruit acreage to 76 percent of the raspberry acreage. A wide variety of restricted use insecticides were used on fruit crops. The most widely used insecticide was **Abamectin**, as it was applied to 66 percent of the pear acreage, 61 percent of the tangelos, and 58 percent of the grapefruit acreage; followed by **Esfenvalerate**, which was applied 49 percent of the nectarine acreage, 43 percent of the plums, and 37 percent of the peach acreage. **Bifenthrin** was applied to 70 percent of the raspberry acreage. **Azinphos-methyl** was applied to 60 percent of the tart cherry acreage. **Strychnine** was the most commonly used Other Chemical, applied to 19 percent of the avocado acreage.

**Corn: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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					
Acetochlor	23	1.0	1.645	1.661	29,802
Alachlor	1	1.0	1.747	1.765	1,562
Atrazine	49	1.1	0.966	1.057	39,784
Bromoxynil	1	1.0	0.203	0.203	88
Cyanazine	*	1.0	1.337	1.337	389
Dicamba, Pot. salt	2	1.0	0.354	0.354	557
Dimethenamid	1	1.0	1.202	1.202	623
Flufenacet	1	1.0	0.260	0.260	156
Glufosinate-ammonium	*	1.0	0.237	0.237	79
Glyphosate iso. salt	1	1.0	0.392	0.392	211
Isoxaflutole	6	1.0	0.051	0.053	233
Metolachlor	1	1.0	1.376	1.376	1,049
Nicosulfuron	*	1.0	0.020	0.020	6
Paraquat	1	1.0	0.570	0.575	394
Rimsulfuron	*	1.0	0.010	0.010	3
S-Metolachlor	2	1.0	0.902	0.902	1,354
Insecticides					
Bifenthrin	2	1.0	0.055	0.057	72
Carbofuran	*	1.0	0.593	0.593	113
Chlorpyrifos	*	1.0	0.779	0.779	192
Cyfluthrin	7	1.0	0.007	0.007	38
Esfenvalerate	*	1.0	0.041	0.041	8
Fipronil	1	1.0	0.113	0.117	88
Lambda-cyhalothrin	1	1.1	0.023	0.026	25
Methyl parathion	*	1.1	0.283	0.323	82
Permethrin	1	1.0	0.107	0.109	116
Tebupirimphos	6	1.0	0.115	0.115	573
Tefluthrin	7	1.0	0.118	0.118	637
Terbufos	*	1.0	0.870	0.872	331
Zeta-cypermethrin	*	1.3	0.022	0.029	11

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2005 for the 19 Program States was 76.5 million acres.

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

**Fall Potatoes: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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					
Aldicarb	9	1.0	2.839	2.839	211
Azinphos-methyl	1	1.1	0.726	0.779	8
Carbofuran	4	1.0	0.847	0.847	26
Cyfluthrin	29	1.8	0.028	0.051	12
Diazinon	2	1.0	2.255	2.255	29
Esfenvalerate	27	1.7	0.030	0.050	11
Ethoprop	3	1.0	5.200	5.353	116
Imidacloprid	20	1.5	0.043	0.065	11
Methamidophos	12	1.6	0.885	1.427	139
Methomyl	2	1.1	0.505	0.549	7
Oxamyl	13	2.1	0.798	1.656	176
Permethrin	5	1.6	0.119	0.188	8
Phorate	4	1.0	2.688	2.688	98
Fungicides					
Triphenyltin hydrox.	10	1.8	0.139	0.249	20
Other Chemicals					
Dichloropropene	6	1.0	166.474	166.474	7,869
Paraquat	2	1.2	0.494	0.588	12

¹ Planted acreage in 2005 for the 8 Program States was 845,000 acres.
States included are CO, ID, ME, MI, MN, ND, WA, and WI.

**Oats: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	*	1.0	0.027	0.027	(²)

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2005 for the 15 Program States was 3.6 million acres.

States included are CA, ID, IL, IA, KS, MI, MN, MT, NE, NY, ND, PA, SD, TX, and WI.

² Total applied is less than 500 lbs.

**Soybeans: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	*	1.0	4.025	4.025	423
Insecticides					
Chlorpyrifos	4	1.0	0.490	0.495	1,396
Cyfluthrin	*	1.4	0.026	0.038	8
Esfenvalerate	1	1.1	0.040	0.043	25
Lambda-cyhalothrin	5	1.0	0.024	0.024	84
Permethrin	1	1.0	0.122	0.122	67
Zeta-cypermethrin	1	1.0	0.024	0.024	19

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2005 for the 17 Program States was 64.8 million acres.

States included are AR, IL, IN, IA, KS, KY, LA, MI, MN, MS, MO, NE, NC, OH, SD, TN, and VA.

**Upland Cotton: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005¹**

Restricted Use Pesticide	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	2	1.2	0.006	0.007	2
Aldicarb	19	1.0	0.658	0.673	1,551
Bifenthrin	1	1.2	0.080	0.094	17
Chlorpyrifos	2	1.2	0.635	0.742	211
Cyfluthrin	8	1.3	0.034	0.043	41
Cypermethrin	13	1.3	0.055	0.071	115
Deltamethrin	1	2.7	0.026	0.072	10
Dicrotophos	19	1.6	0.289	0.452	1,090
Esfenvalerate	3	1.2	0.044	0.055	19
Imidacloprid	1	1.2	0.039	0.047	5
Lambda-cyhalothrin	11	1.4	0.031	0.044	62
Methamidophos	1	1.0	0.140	0.140	10
Methomyl	*	1.6	0.169	0.275	7
Methyl parathion	2	1.4	0.622	0.895	183
Oxamyl	3	1.4	0.346	0.492	196
Permethrin	1	1.2	0.066	0.078	6
Phorate	1	1.0	1.183	1.183	78
Profenofos	*	1.3	0.693	0.888	51
Zeta-cypermethrin	6	1.4	0.021	0.030	23
Other Chemicals					
Paraquat	14	1.1	0.321	0.351	625

* Area applied is less than 0.5 percent.

¹ Planted acreage in 2005 for the 9 Program States was 12.4 million acres.
States included are AL, AR, CA, GA, LA, MS, NC, TN, and TX.

**Apples: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005¹**

Restricted Use Pesticide	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	15	1.2	0.717	0.881	39.2
Insecticides					
Abamectin	4	1.3	0.013	0.017	0.2
Azinphos-methyl	62	2.4	0.792	1.887	360.0
Chlorpyrifos	46	1.2	1.523	1.763	250.2
Diazinon	6	1.8	0.888	1.601	27.3
Esfenvalerate	11	1.6	0.038	0.060	2.0
Lambda-cyhalothrin	8	1.6	0.043	0.068	1.6
Methidathion	*	1.4	0.804	1.104	1.4
Methomyl	4	1.8	0.598	1.104	14.7
Oxamyl	1	2.2	0.300	0.673	1.8
Permethrin	3	1.2	0.177	0.216	1.9
Other Chemicals					
Zinc phosphide	3	1.4	0.118	0.161	1.4

* Area applied is less than 0.5 percent.

¹ Bearing acreage in 2005 for the 8 Program States was 306,400 acres.
States included are CA, MI, NY, NC, OR, PA, WA, and WI.

**Apricots: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	4	1.1	0.859	0.965	0.5
Insecticides					
Diazinon	3	1.1	1.728	1.934	0.9
Esfenvalerate	26	1.4	0.044	0.061	0.2
Lambda-cyhalothrin	38	1.9	0.025	0.048	0.3

¹ Total acreage in 2005 for California was 14,500 acres.
Acreage includes both bearing and nonbearing acres.

**Avocados: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	33	1.2	0.017	0.021	0.4
Other Chemicals					
Strychnine	19	1.5	0.001	0.001	(²)

¹ Total acreage in 2005 for California was 62,000 acres.
Acreage includes both bearing and nonbearing acres.

² Total applied is less than 50 lbs.

**Blackberries: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	34	1.3	0.524	0.658	1.4
Insecticides					
Bifenthrin	20	1.0	0.117	0.117	0.2
Diazinon	11	1.2	1.551	1.826	1.3
Esfenvalerate	15	1.0	0.043	0.043	(²)

¹ Bearing acreage in 2005 for Oregon was 6,400 acres.

² Total applied is less than 50 lbs.

**Blueberries: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	9	1.3	0.544	0.710	2.6
Insecticides					
Azinphos-methyl	31	1.7	0.565	0.966	11.6
Diazinon	20	1.6	0.772	1.248	10.0
Esfenvalerate	20	1.7	0.040	0.066	0.5
Methomyl	20	2.0	0.642	1.311	10.0
Other Chemicals					
Zinc phosphide	1	1.1	0.117	0.129	(²)

¹ Bearing acreage in 2005 for the 5 Program States was 39,100 acres.

States included are GA, MI, NJ, NC, and OR.

² Total applied is less than 50 lbs.

**Cherries, Sweet: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	20	1.4	0.585	0.805	12.4
Insecticides					
Azinphos-methyl	28	1.7	0.655	1.082	23.3
Chlorpyrifos	26	1.1	1.844	2.055	40.2
Diazinon	8	1.1	1.546	1.717	10.4
Esfenvalerate	17	1.9	0.050	0.095	1.2
Lambda-cyhalothrin	3	1.1	0.029	0.032	0.1
Methidathion	1	1.2	1.071	1.301	1.2
Methyl bromide	1	1.1	47.382	50.436	26.0
Permethrin	3	1.9	0.101	0.188	0.5
Other Chemicals					
Strychnine	3	1.3	0.008	0.011	(²)
Zinc phosphide	1	1.8	0.084	0.155	0.1

¹ Bearing acreage in 2005 for the 4 Program States was 76,200 acres.
States included are CA, MI, OR, and WA.

² Total applied is less than 50 lbs.

**Cherries, Tart: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	12	1.1	0.392	0.416	1.6
Insecticides					
Azinphos-methyl	60	2.0	0.506	1.036	19.3
Chlorpyrifos	5	1.1	0.632	0.677	1.0
Esfenvalerate	18	1.6	0.036	0.058	0.3
Lambda-cyhalothrin	15	1.8	0.028	0.049	0.2
Permethrin	13	1.8	0.104	0.188	0.7

¹ Bearing acreage in 2005 for the 3 Program States was 31,100 acres.
States included are MI, NY, and WI.

**Grapefruit: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	1.5	0.442	0.645	0.7
Insecticides					
Abamectin	58	1.4	0.010	0.014	0.8
Aldicarb	23	1.0	4.118	4.124	97.2
Chlorpyrifos	14	1.9	2.356	4.565	64.4
Diflubenzuron	7	1.1	0.130	0.146	1.0
Oxamyl	11	2.5	0.553	1.391	15.5

¹ Bearing acreage in 2005 for the 3 Program States was 102,000 acres. States included are CA, FL, and TX.

**Grapes, All: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	17	1.4	0.551	0.760	115.3
Insecticides					
Abamectin	2	1.0	0.016	0.017	0.2
Bifenthrin	*	1.0	0.076	0.079	0.2
Chlorpyrifos	*	1.1	1.690	1.854	5.9
Diazinon	*	1.1	0.928	1.024	3.2
Fenamiphos	1	1.3	1.887	2.361	19.0
Methomyl	1	1.0	0.931	0.973	10.4
Other Chemicals					
Dichloropropene	*	1.0	295.338	299.902	996.6
Strychnine	2	1.4	0.004	0.006	0.1

* Area applied is less than 0.5 percent.

¹ Bearing acreage in 2005 for the 3 Program States was 885,000 acres. States included are CA, NY, and WA.

**Grapes, Raisin: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	11	1.2	0.393	0.465	12.1

¹ Total acreage in 2005 for California was 242,000 acres.
Acreage includes both bearing and nonbearing acres.

**Grapes, Table: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	20	1.2	0.664	0.783	13.1
Insecticides					
Abamectin	5	1.0	0.018	0.018	0.1
Methomyl	6	1.0	1.125	1.148	5.6

¹ Total acreage in 2005 for California was 84,000 acres.
Acreage includes both bearing and nonbearing acres.

**Grapes, Wine: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	17	1.3	0.503	0.672	55.4
Insecticides					
Abamectin	1	1.1	0.014	0.016	0.1
Diazinon	*	1.1	1.000	1.148	2.3
Methomyl	1	1.1	0.776	0.827	4.8
Other Chemicals					
Dichloropropene	*	1.0	326.143	332.863	771.0
Strychnine	3	1.2	0.006	0.007	0.1

* Area applied is less than 0.5 percent.

¹ Total acreage in 2005 for California was 474,000 acres.
Acreage includes both bearing and nonbearing acres.

**Kiwifruit: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	1.8	0.751	1.369	1.7

¹ Total acreage in 2005 for California was 4,500 acres.
Acreage includes both bearing and nonbearing acres.

**Lemons: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005¹**

Restricted Use Pesticide	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	18	1.1	0.010	0.011	0.1
Chlorpyrifos	3	1.3	2.285	2.981	4.0
Other Chemicals					
Strychnine	4	1.6	0.001	0.001	(²)

¹ Total acreage in 2005 for California was 44,000 acres.

Acreage includes both bearing and nonbearing acres.

² Total applied is less than 50 lbs.

**Nectarines: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005¹**

Restricted Use Pesticide	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	6	1.1	0.564	0.621	1.4
Insecticides					
Diazinon	1	1.2	1.909	2.287	1.0
Esfenvalerate	49	1.2	0.045	0.052	0.9
Methomyl	4	1.6	0.864	1.414	2.0
Other Chemicals					
Dichloropropene	1	1.0	257.881	258.504	129.0

¹ Total acreage in 2005 for California was 36,500 acres.

Acreage includes both bearing and nonbearing acres.

**Olives: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	2	1.2	0.488	0.584	0.4

¹ Total acreage in 2005 for California was 32,000 acres.
Acreage includes both bearing and nonbearing acres.

**Oranges: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	8	1.3	0.381	0.489	26.6
Insecticides					
Abamectin	15	1.5	0.009	0.013	1.5
Aldicarb	6	1.0	3.575	3.636	157.0
Chlorpyrifos	10	2.0	0.896	1.787	129.3
Cyfluthrin	5	1.4	0.059	0.085	2.9
Diflubenzuron	2	1.6	0.268	0.435	5.2
Fenamiphos	1	1.0	1.662	1.664	14.0
Methidathion	*	1.0	3.456	3.619	3.4
Oxamyl	2	2.2	0.916	2.028	30.0

* Area applied is less than 0.5 percent.

¹ Bearing acreage in 2005 for the 2 Program States was 717,800 acres.
States included are CA and FL.

**Peaches: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	15	1.6	0.567	0.881	15.5
Insecticides					
Azinphos-methyl	15	2.9	0.669	1.913	33.4
Chlorpyrifos	12	1.2	0.932	1.086	14.7
Diazinon	3	2.1	1.198	2.484	8.9
Esfenvalerate	37	2.1	0.051	0.108	4.6
Lambda-cyhalothrin	7	1.7	0.028	0.048	0.4
Methomyl	5	2.5	0.478	1.185	6.2
Permethrin	8	3.1	0.182	0.566	5.0
Other Chemicals					
Dichloropropene	2	1.0	290.160	294.652	548.0

¹ Bearing acreage in 2005 for the 7 Program States was 114,800 acres.
States included are CA, GA, MI, NJ, PA, SC, and TX.

**Pears: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	10	1.7	0.789	1.322	8.1
Insecticides					
Abamectin	66	1.3	0.019	0.024	0.9
Azinphos-methyl	36	1.6	1.058	1.720	37.4
Chlorpyrifos	15	1.0	2.098	2.201	19.5
Diazinon	3	1.0	1.068	1.120	1.8
Esfenvalerate	18	1.2	0.057	0.068	0.7
Lambda-cyhalothrin	29	1.2	0.038	0.046	0.8
Other Chemicals					
Zinc phosphide	3	1.4	0.084	0.116	0.2

¹ Bearing acreage in 2005 for the 3 Program States was 59,700 acres.
States included are CA, OR, and WA.

**Plums: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	10	1.1	0.422	0.481	1.7
Insecticides					
Diazinon	1	1.1	1.869	2.109	1.0
Esfenvalerate	43	1.1	0.041	0.046	0.7

¹ Total acreage in 2005 for California was 36,000 acres.
Acreage includes both bearing and nonbearing acres.

**Prunes: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	12	1.4	0.553	0.787	6.3
Insecticides					
Diazinon	5	1.5	1.924	2.793	9.9
Esfenvalerate	29	1.1	0.040	0.044	0.9
Lambda-cyhalothrin	5	1.2	0.024	0.028	0.1
Other Chemicals					
Strychnine	3	1.3	0.012	0.016	(²)

¹ Bearing acreage in 2005 for California was 67,000 acres.

² Total applied is less than 50 lbs.

**Raspberries: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005¹**

Restricted Use Pesticide	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	76	1.6	0.392	0.637	6.2
Insecticides					
Bifenthrin	70	1.4	0.094	0.135	1.2
Diazinon	44	1.3	1.076	1.388	7.7
Fenamiphos	3	1.0	4.286	4.286	1.7

¹ Bearing acreage in 2005 for the 2 Program States was 12,700 acres.
States included are OR and WA.

**Tangelos: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005¹**

Restricted Use Pesticide	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	7	1.7	0.449	0.756	0.4
Insecticides					
Abamectin	61	1.3	0.010	0.013	(²)
Diflubenzuron	4	1.0	0.197	0.203	0.1

¹ Bearing acreage in 2005 for Florida was 6,400 acres.

² Total applied is less than 50 lbs.

**Tangerines: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	4	1.0	0.352	0.369	0.5
Insecticides					
Abamectin	40	1.2	0.011	0.013	0.2
Chlorpyrifos	3	1.4	0.917	1.303	1.1
Cyfluthrin	6	1.2	0.080	0.095	0.2
Diflubenzuron	9	1.3	0.251	0.321	0.9

¹ Bearing acreage in 2005 for the 2 Program States was 30,600 acres.
States included are CA and FL.

**Temples: Agricultural Chemical Applications,
Restricted Use Pesticides,
Program States, 2005 ¹**

Restricted Use Pesticide	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	29	1.4	0.009	0.012	(²)

¹ Bearing acreage in 2005 for Florida was 2,900 acres.

² Total applied is less than 50 lbs.

Estimation Procedures

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

Estimates of the total amount of active ingredient applied are based on the acreage estimates published in the annual NASS report "**Crop Production - 2005 Summary**" [Cr Pr 2-1(06)] for corn, fall potatoes, oats, upland cotton, and soybeans. The estimates for total amount applied of an active ingredient will not be revised even if there are subsequent revisions to acreage for a given crop.

Estimates of the total amount of active ingredient applied for fruits are based on the acreage estimates published in the annual NASS report "**Citrus Fruits - 2005 Summary**" [Fr Nt 3-1(05)] released on September 22, 2005, and "**Noncitrus Fruits and Nuts - 2005 Summary**" [Fr Nt 1-3 (05)] released on January 24, 2006. The estimates for total amount applied will not be revised even if there are subsequent revisions to acreage for a given crop.

Detailed data within some published tables may not multiply across due to independent rounding of the published values. Only those restricted use active ingredients that met NASS publication standards in the "**Agricultural Chemical Usage - 2005 Field Crops Summary**," and the "**Agricultural Chemical Usage - 2005 Fruit Summary**" publications are included in this report.

Terms and Definitions

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

Application rates: Refer to the average number of pounds of pesticide active ingredients applied to an acre of land. A rate per acre is the average number of pounds applied in one application. Rate per crop year is the average number of pounds applied counting multiple applications. Number of applications is the average number of times a treated acre receives a specific active ingredient.

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

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

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

Pesticides: As defined by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), pesticides include any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest, and any substance or mixture of substances intended for use as a plant regulator, defoliant, or desiccant. The four classes of pesticides presented in this report and the pests targeted are: herbicides - weeds, insecticides - insects, fungicides - fungi, and other chemicals - other forms of life. Miticides and nematocides are included as insecticides while soil fumigants, growth regulators, defoliants, and desiccants are included as other chemicals.

Restricted Use Pesticide: A restricted use pesticide is a pesticide which is available for purchase and use only by certified pesticide applicators or persons under their direct supervision, and only for the uses covered by the applicator's certification.

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 pesticide class, common name, 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 restricted pesticides used on crops and NASS does not mean to promote use of any specific trade name.

Class	Common Name	Trade Name
H	2, 4-D	Dacamine 4D, Envy 2,4-D, Scorpion III, Shotgun Flowable Herbicide, Unison
I	Abamectin	Abba, Agri Mek 0.15EC, Clinch Ant Bait, Epi-mek 0.15 EC, Zephyr 0.15 EC
H	Acetochlor	Confidence, Degree Xtra, Field Master, Fultime Herbicide, Harness, Harness 20G, Harness Xtra, Harness Xtra 5.6L, Keystone, Keystone LA, Surpass 100, Surpass 20G, Surpass EC, TopNotch, Volley ATZ Lite
H	Alachlor	Bronco (4EC), Bullet (4EC), Lariat (4F), Lasso (4EC), Lasso/ Atrazine 4EC, Micro-Tech, Partner WDG, Saddle 4EC/ Alachlor 4EC
I	Aldicarb	Temik 15G
H	Atrazine	Aatrex 4L, Aatrex 80W, Aatrex Nine-O (WP), Atrazine 4L, Atrazine 5L, Atrazine 80 (WP), Atrazine 90DF, Basis Gold, Bicep 6L, Bicep II, Bicep II Magnum, Bicep Lite II Magnum, Buctril + Atrazine (1+2EC), Bullet (4EC), Cinch AT Degree Xtra, Extrazine 4L, Extrazine II 4L, Field Master, Fultime Herbicide, G-Max Lite, Guardsman Herbicide, Guardsman Max, Harness Xtra, Harness Xtra 5.6L, Keystone, Keystone LA, Lariat (4F), Lasso/ Atrazine 4EC, LeadOff, Lexar Herbicide, Liberty ATZ, Lumax, Marksman, Ready Master ATZ, Rifle Plus, Shotgun Flowable Herbicide, Simazate 4L, Steadfast ATZ, Surpass 100, Sutazine+ (EC), Volley ATZ Lite
I	Azinphos-methyl	Azinphos-M 2 EC, Azinphos-M 50 WP, Azinphosmethyl 50W, Guthion 2L, Guthion 35% WP, Guthion 3F, Guthion Solupak 50%, Sniper 50W
H	Bentazon	Basagran
I	Bifenthrin	Attain Total Release, Brigade WSB 10WP, Capture 2E Discipline 2EC, Double Threat, Empower 2, Fanfare 2EC
H	Bromoxynil	Buctril (2EC), Buctril + Atrazine (1+2EC)
I	Carbofuran	Furadan 15G, Furadan 3G, Furadan 4F
I	Chlorethoxyfos	Fortress 5G
O	Chloropicrin	InLine, MBC 67-33, Telone C-17, Tri-Clor Chloropicrin
I	Chlorpyrifos	Chlorpyrifos 4E AG, Dursban 1% Granules, Govern 4E Lorsban 15G, Lorsban 4E, Lorsban 4E (USE-1069), Lorsban 50W, Lorsban 75WG, Nufos 15G, Nufos 4E, Warhawk, Whirlwind, Yuma 4E

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Pesticide class, Common name, and Trade name

Class	Common Name	Trade Name
H	Cyanazine	Extrazine 4L, Extrazine II 4L
I	Cyfluthrin	Aztec 2.1% Granular, Aztec 4.67% Granular, Baythroid 2 (EC), Leverage 2.7, Renounce 20WP, Tempo SC Ultra
I	Cypermethrin	Ammo 2.5EC, Battery 2.5 EC, Battery 2.5 EC (Use-1907), Up-Cyde 2.5 EC
I	Deltamethrin	Decis 1.5EC
I	Diazinon	D-264 EC500, D-z-n Diazinon 50W, D-z-n Diazinon AG500 (4E), Diazinon 25% Spray (2EC), Diazinon 4 Spray, Diazinon 40WP, Diazinon 4E, Diazinon 50W, Diazinon AG500 (4E), Diazinon AG600 WBC, Spectracide 25
H	Dicamba Pot. salt	Marksman, Rifle Plus
O	Dichloropropene	InLine, Telone C-17, Telone II
I	Dicrotophos	Bidrin 8
I	Diflubenzuron	Dimilin 2F, Dimilin 2L, Micromite 25WS, Micromite 4L, Micromite 80 WGS
H	Dimethenamid	Guardsman Herbicide, LeadOff
I	Disulfoton	Di-Syston 15% G, Di-Syston 8 (EC), Terraclor 6.5% Plus Di-Syston 6.5% G
H	EPTC	Eptam 7-E, Eradicane 6.7E
I	Emamectin benzoate	Denim
I	Esfenvalerate	Asana, Asana XL
I	Ethion	Ethion 4 Miscible
I	Ethoprop	Mocap 15G, Mocap EC
I	Ethyl parathion	Aqua 8 Parathion, Parathion 25W, Phoskil 15 WP
I	Fenamiphos	Namacur 15G, Namacur 3 Turf, Namacur 3E
H	Fenoxaprop-p-ethyl	Puma 1EC (Bronate Pro #1), Silverado Herbicide
I	Fipronil	Regent 4 SC, Regent 80 WG
H	Flufenacet	Axiom DF, DEFINE DF, DEFINE SC (aka Flufenacet 4 SC), Epic
H	Flumetsulam	Accent Gold, Hornet, Hornet WDG, Python WDG, Scorpion III
H	Glufosinate-ammonium	Finale, Ignite, Liberty, Liberty ATZ, Rely Herbicide, Rely Herbicide (aka Ignite 1SC)
H	Glyphosate iso. salt	Accord, Bronco (4EC), Buccaneer Herbicide, ClearOut 41 Plus, Cornerstone, Credit, Credit Duo Extra, Durango(aka GF-1279), Fallow Master, Fallow Star, Field Master, Fire Power, Gly Star Original, Gly Star Plus, Gly-4 Plus, Gly-Flo Herbicide, Glyfos X-TRA, Glyphomax, Glyphomax Plus, Glyphosate 4, Glyphosate Original, Glyphosate-4DS, Helosate Plus, Hi-Yield Killzall, Honcho, Jury, Landmaster BW, Landmaster II, Mad Dog Glyphosate, Mirage (4EC), Protocol, RT Master, Ranger (2EC), Rattler, Ready Master ATZ, Roundup Custom, Roundup D-Pak, Roundup Export, Roundup Original, Roundup Original II, Roundup Original Max,

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Pesticide class, Common name, and Trade name

Class	Common Name	Trade Name
I	Imidacloprid	Roundup Pro, Roundup Super Concentrate, Roundup Ultra, Roundup Ultra Dry, Roundup Ultra Ma Roundup UltraMax II, Roundup Weather Max
H	Isoxaflutole	Admire 2 Flowable, Admire Pro, Leverage 2.7, Merit 75 WP, Provado 1.6 Flowable, Provado Solupak (75WSP), Trimax
I	Lambda-cyhalothrin	Balance Pro, Balance WDG, Epic Karate (IEC), Karate Z, Silencer (aka Lambda-CY 1EC), Warrior, Warrior (Use-1553)
I	Methamidophos	Monitor 4, Monitor 4 Spray
I	Methidathion	Supracide 25WP, Supracide 2E
I	Methomyl	Lannate L (1.8 lbs.) Canceled 1998, Lannate LV (2.4 lbs.), Lannate SP
I	Methyl bromide	MBC 67-33, Methyl Bromide 98%, Methyl Bromide 99.5
I	Methyl parathion	Methyl Parathion 4EC, Methyl Parathion 6EC, Penncap-M
H	Metolachlor	Bicep 6L, Bicep II, Dual (8E), Dual 4E (DELETE), Me-Too-Lachlor, Parallel, Stalwart C
H	Nicosulfuron	Accent Gold, Accent Herbicide, Basis Gold, Celebrity, Celebrity Plus, Steadfast, Steadfast AT
I	Oxamyl	Vydate C-LV (3.77lbs), Vydate L, Vydate L (2 Lbs)
F	PCNB	Blocker 10G, Blocker 4F, Defend 10G, PCNB 2-E, Prevail, Ridomil Gold PC, Ridomil Gold PC GR, Scotts Proturf FF II, Terraclor 6.5% Plus Di-Syston 6.5% G, Terraclor Super X 18.8G, Terraclor Super X Emulsifiable (2.5EC)
H	Paraquat	Cyclone, Cyclone Concentrate, Gramox Extra (Misnumbered, a Herbicide), Gramoxone Extra, Gramoxone Max, Gramoxone Super, Starfire (1.5L)
I	Permethrin	Ambush, Ambush 25W, Arctic 3.2 EC, Last Call CM, Perm-UP 3.2 EC, Permethrin 3.2 AG, Permethrin 3.2 EC, Pounce 1.5G, Pounce 25WP, Pounce 3.2EC, Waylay 3.2 AG
I	Phorate	Phorate 15G, Phorate 20-G, Thimet 10-G, Thimet 15-Thimet 20-G
I	Phosphamidon	Swat (8E)
H	Picloram K salt	Tordon 22K (2EC)
I	Profenofos	Curacron 8E
H	Rimsulfuron	Accent Gold, Basis, Basis Gold, Matrix (aka Shadeout), Steadfast, Steadfast ATZ
H	S-Metolachlor	Bicep II Magnum, Bicep Lite II Magnum, Boundary, Brawl, Camix, Cinch, Cinch ATZ, Dual II Magnum, Dual II Magnum SI, Dual IIG Magnum, Dual Magnum, Lexar Herbicide, Lumax, Sequence
H	Simazine	Princep 4L, Princep 4L TO, Princep 80W, Princep Caliber 90, Sim-Trol 4L, Sim-Trol 90DF, Simazat 4L, Simazine 4L, Simazine 80W,

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Pesticide class, Common name, and Trade name

Class	Common Name	Trade Name
O	Strychnine	Simazine 90 WDG, Simazine 90DF Cooke Gopher Mix, Gopher Getter AG Bait, Strychnine 1.8%, Strychnine Bait (.35%), Strychnine Bait (.5%)
I	Tebupirimphos	Aztec 2.1% Granular, Aztec 4.67% Granular
I	Tefluthrin	Force 3G
I	Terbufos	Counter (15G), Counter 20CR
I	Thiodicarb	Larvin 3.2
I	Tralomethrin	Scout 0.3 EC, Scout X-TRA
H	Trifluralin	Treflan 5 (EC), Treflan E.C., Treflan HFP, Treflan M.T.F., Treflan TR-10, Tri-4 (EC), Trific 60DF, Trifluralin 10G, Trifluralin 4 (EC), Trilin, Trilin 5, Trust 4EC
F	Triphenyltin hydrox.	Agri Tin, Super Tin 4L, Super Tin 80WP
I	Zeta-cypermethrin	Fury 1.5 EC, Mustang, Mustang Max
O	Zinc phosphide	ZP Rodent Bait AG, Zinc Phosphide Oat Bait

Report Features

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USDA Data Users' Meeting

October 16, 2006

Doubletree Chicago O'Hare Airport - Rosemont

Chicago, Illinois

(847) 292-9100

The USDA's National Agricultural Statistics Service will be organizing an open forum for data users. The purpose will be to provide updates on pending changes in the various statistical and information programs and seek comments and input from data users. Other USDA agencies to be represented will include the Agricultural Marketing Service, the Economic Research Service, the Foreign Agricultural Service, and World Agricultural Outlook Board. The Foreign Trade Division from the Census Bureau will also be included in the meeting.

For registration details or additional information for the Data Users' Meeting, see the NASS homepage at www.nass.usda.gov/forum/ or contact Amy Jenkins (NASS) at (202) 690-8141 or at amy_jenkins@nass.usda.gov.

This Data Users' Meeting precedes an Industry Outlook meeting that will be held at the same location on October 17, 2006. The Outlook meeting brings together analysts from various commodity sectors to discuss the outlook situation. For more information about the outlook meeting and to register contact Jim Robb (Livestock and Marketing Information Center) at (720) 544-2941 or at robb@lmic.info.