



## Quantitative Usage Analysis for Naled

Case No: 0092  
Date: 7-29-03

PC Code: 34401  
Analyst: Roger Clark

Based on available pesticide usage information mainly for 1992 through 2001, average domestic usage of naled is about 1,000,000 pounds active ingredient (a.i.) per year. In terms of pounds a.i., total usage is allocated mainly to mosquito abatement (71%) and cotton (12%). Other sites with significant usage include alfalfa, livestock, dogs and cats, safflower and broccoli (10%). The crop with highest average percent of crop treated with naled is safflower at 9%. No other crop has more than 7% of its acreage treated with naled. Application rates per acre on these sites are generally less than 3 pounds active ingredient per acre.

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Modified by Analyst: Roger Clark

Data years: 1987-96  
Data years: 1992-2001

QUA date: 9-Jan-98  
Modified date: 29-Jul-03

### EPA's QUANTITATIVE USAGE ANALYSIS

Site	Acres Grown (000)	Acres Treated (000)		% of Crop Treated		LB AI Applied (000)		Average Application Rate			States of Most Usage
		Wtd Avg	Est Max	Wtd Avg	Est Max	Wtd Avg	Est Max	lb ai/acre/yr	#appl / yr	lb ai/A/appl	(% of total lb ai used on this site)
Peaches	212	1	2	1%	1%	3	6	3.1	1.0	3.1	CA 94%
Strawberries	50	3	8	7%	16%	6	15	1.8	2.2	0.8	CA 85%
Grapes	795	20	43	1%	2%	3	6	0.2	1.2	0.1	CA 100%
Almonds	429	2	8	1%	2%	5	21	2.3	1.2	1.9	CA 100%
Walnuts	205	3	8	3%	4%	8	23	0.8	1.1	0.7	CA 100%

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Celery	34	2	6	7%	18%	1	7	0.4	1.8	0.2	CA MI 100%
Kale	4	0	0	4%	8%	0	1	3.1	1.9	1.6	CA OH SC 90%
Lettuce	268	1	2	0%	1%	4	17	5.2	2.9	1.8	CA 100%
Spinach	36	0*	0*	0*	0*	0*	0*	-	-	-	-
Broccoli	107	7	11	6%	10%	10	18	1.5	1.0	1.5	CA 100%
Brussels Sprouts	4	1	3	5%	10%	1	6	1.0	3.4	0.3	CA 100%
Cabbage	84	5	9	6%	11%	4	9	0.7	1.0	0.7	FL CA 87%
Cauliflower	57	2	15	4%	10%	5	30	1.4	1.1	1.3	CA 100%

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Collards	15	1	1	1%	2%	0	0	0.0	1.0	0.0	CA NC SC 91%
Swiss Chard	-	-	-	-	-	-	-	-	-	-	-
Cucumbers	151	0	0	0%	0%	0	0	-	-	-	-
Pumpkins	41	0	0	0%	0%	1	0	-	-	-	-
Squash	69	0	0	0%	0%	1	0	-	-	-	-
Melons	368	0	2	0%	0%	1	5	2.9	1.5	2.0	CA 100%
Eggplant	3	0	0	6%	12%	0	1	1.0	1.2	0.8	NJ FL 100%
Peppers	48	0	0	3%	6%	3	6	1.9	1.2	1.6	CA MI 90%

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Tomatoes	500	0	1	0%	0%	0	1	1.0	1.3	0.8	CA FL 83%
Beans/Peas-Green	723	0	4	0%	1%	0	1	1.4	1.4	1.0	FL CA 100%
Beans/Peas-Dry	2,181	1	2	0%	0%	1	4	1.1	1.4	0.8	CA 86%
Pasture/Rangeland	-	-	-	-	-	-	-	-	-	-	-
Alfalfa	23,949	23	41	0%	0%	32	67	1.4	1.6	0.9	ID OR 90%
Peanuts	1,824	0*	0*	0*	0*	0*	0*	-	-	-	-
Safflower	243	22	33	9%	14%	17	25	0.8	1.2	0.7	CA 100%
Soybeans	59,288	0*	0*	0*	0*	0*	0*	-	-	-	-

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Rice	2,991	0*	0*	0*	0*	0*	0*	-	-	-	-
Cotton	12,689	90	176	1%	1%	120	250	1.3	1.2	1.1	CA LA 100%
Sugar Beets	1,434	4	8	0%	1%	4	8	0.9	1.0	0.9	CA 88%
Tobacco	839	0	0	0%	0%	0	0	-	-	-	
Hops	-	-	-	-	-	-	-	-	-	-	-
Mushrooms	-	-	-	-	-	-	-	-	-	-	-
Livestock	-	-	-	-	-	23	46	-	-	-	-
<b>Total of above:</b>		<b>198</b>	<b>301</b>			<b>260</b>	<b>393</b>				

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Mosquito Abatement Districts (MADS)	-	-	-	-	-	700	1,200	-	-	0	
Dogs & Cats	-	-	-	-	-	20	30	-	-	-	
<b>Grand Total</b>						<b>980</b>	<b>1252</b>				

#### COLUMN HEADINGS

Wtd Avg = Weighted average--the most recent years and more reliable data are weighted more heavily.

Est Max = Estimated maximum, which is estimated from available data.

Average application rates are calculated from the weighted averages.

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#### NOTES ON TABLE DATA

Usage data covers 1992- 2001 for agriculture, and up to 1997 for nonag.

Calculations of the above numbers may not appear to agree because they are displayed as rounded:

to the nearest 1000 for acres treated or lb. a.i. (Therefore 0 = < 500)

to the nearest whole percentage point for % of crop treated. (Therefore 0% = < 0.5%)

0\* = Available EPA sources indicate that no usage is observed in the reported data for this site,  
which implies that there is little or no usage.

A dash (-) indicates that information on this site is NOT available within EPA or is insufficient to provide an estimate.

SOURCES: EPA data (1987-97), USDA (1992-2001), and National Center for Food and Agricultural Policy (1992 data).