

ETHOPROP
ethoprop8.wpd

Case #: 0106

AI #: 041101

Analyst: John Faulkner

Data Years: 1987-96

01-Aug-98

Pineapples added: 02-Feb-99

EPA's QUANTITATIVE USAGE ANALYSIS

Based on available pesticide survey usage information for the years of 1987 through 1996, an annual estimate of ethoprop's total domestic usage averaged approximately 700,000 pounds active ingredient (a.i.) for a little over 200,000 acres treated. Most of the acreage is treated once per year with 6 pounds a.i. per acre or less. Ethoprop is an insecticide with its largest U.S. markets in terms of total pounds active ingredient allocated to potatoes (35%), sugarcane (28%), and tobacco (14%). Most of the usage is in the Northwest and South, with some in the Midwest. The crops with the highest percentage of the crop treated are sugarcane and bananas (about 7% and 6% respectively).

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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	
Beans/Peas, Dry	2,181	0	2	0.0%	0.1%	1	4	2.2	1.0	2.2	WI OR
Beans/Peas, Green	723	10	20	1.4%	2.8%	15	38	1.5	1.0	1.5	OR
Corn	72,284	20	60	0.0%	0.1%	20	60	1.0	1.0	1.0	NE NC
Cotton	12,689	2	33	0.0%	0.3%	1	71	0.5	1.2	0.4	GA
Peanuts	1,610	6	25	0.4%	1.6%	10	40	1.7	1.0	1.7	NC VA
Soybeans	62,879	16	30	0.0%	0.0%	12	30	0.8	1.0	0.8	NC
Sugarcane	852	60	130	7.0%	15.3%	200	430	3.3	1.0	3.3	FL
Tobacco	695	22	30	3.2%	4.3%	100	135	4.5	1.0	4.5	SC NC GA
Total Crops Average	153,913	136	233	0.1%	0.2%	359	583	2.6	1.0	2.6	
Bananas **		-	-	6.4%	16.0%	-	-	-	-	-	Central & South America
Citrus ***		-	-	-	-	-	-	-	-	-	
Pineapples **		-	-	1.0%	5.0%	-	-	-	-	-	

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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	
Plantains		-	-	-	-	-	-	-	-	-	
Cabbage	85	0.6	2	0.7%	2.9%	1	2	1.7	1.2	1.5	CA
Cucumbers	146	1.5	3	1.0%	2.1%	3	6	2.0	1.0	2.0	NC
Potatoes	1,421	40	75	2.8%	5.3%	250	360	6.3	1.0	6.3	ID CO WA CA MI NY
Sweet potatoes	244	10	20	4.1%	8.2%	40	70	4.0	1.1	3.6	MS TN LA
Sweet Corn	784	30	70	3.8%	8.9%	30	65	1.0	1.0	1.0	WA OR
Tomatoes	615	1	-	0.2%	-	4	-	4.0	1.0	4.0	GA
Okra	-	-	-	-	-	-	-	-	-	-	MS TN LA OR
Total Vegetables Average	3,295	83	127	2.5%	3.8%	328	416	4.0	1.0	3.9	
Turf & Ornaments	-	-	-	-	-	21	100	-	-	-	
Total		219	360			708	1059				

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.

NOTES ON TABLE DATA

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 tenth of 1% for percent of crop treated. (Therefore 0.0% = < 0.05%)

A dash (-) indicates that information on this site is NOT available in EPA sources or is insufficient.

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ethopro8.wpd EPA's QUANTITATIVE USAGE ANALYSIS Pineapples added: 02-Feb-99

** Based on an average of % crop treated, weighted according to quantity of U.S. imports and U.S. production (pineapples-HI).
*** Very little is used on this site according to Rhone-Poulenc

SOURCES: EPA data (1987-96), USDA (1990-96), National Center for Food & Agricultural Policy (1992 data), Market Asia Ag. Info. 1997.