

US EPA ARCHIVE DOCUMENT

06/01/11 JHM

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ETHOPROP Case #: 0106 AI #: 041101 Analyst: John Faulkner Data Years: 1987-96 01-Aug-98  
 ethprop08.wpd EPA's QUANTITATIVE USAGE ANALYSIS Pineapples added: 02-Feb-99

Based on available pesticide survey 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
<b>Total Crops Average</b>	<b>153,913</b>	<b>136</b>	<b>233</b>	<b>0.1%</b>	<b>0.2%</b>	<b>359</b>	<b>583</b>	<b>2.6</b>	<b>1.0</b>	<b>2.6</b>	
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
<b>Total Vegetables Average</b>	<b>3,295</b>	<b>83</b>	<b>127</b>	<b>2.5%</b>	<b>3.8%</b>	<b>328</b>	<b>416</b>	<b>4.0</b>	<b>1.0</b>	<b>3.9</b>	
Turf & Ornaments	-	-	-	-	-	21	100	-	-	-	
<b>Total</b>		<b>219</b>	<b>360</b>			<b>708</b>	<b>1059</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.

**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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01-Aug-98  
02-Feb-99

Case #: 0106  
AI #: 041101

Analyst: John Faulkner  
Data Years: 1987-96

Pineapples added:

ETHOPROP  
ethopro8.wpd

EPA's QUANTITATIVE USAGE ANALYSIS

\*\* 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.

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