DISULFOTON **Case #: 0102** **AI #: 32501** **Analyst: Steven M. Nako** **Data years: 1987-98** **QUA date: May 5, 1999**
disulfo9.wpd Last edited: May 5, 1999

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)
Agricultural (Food Crops):											
Asparagus	73	29	40	40%	55%	37	51	1.3	1.4	0.9	WA CA 96%
Beans, Dry	1,802	6	64	<1%	4%	2	25	0.4	1.0	0.4	NE 99%
Beans, Lima Total	56	4	8	7%	14%	4	8	1.0	1.0	1.0	GA
Beans, Lima, Fresh	6	2	3	29%	50%	2	3	1.0	1.0	1.0	GA 100%
Beans, Lima, Proc.	50	2	5	5%	10%	2	5	1.0	1.0	1.0	(CA 0%)
Beans, Snap Total	200	10	40	5%	20%	10	40	1.0	1.0	1.0	MI WI NY PA NJ
Beans, Snap, Fresh	65	3	13	5%	20%	3	13	1.0	1.0	1.0	MI NY PA NJ
Beans, Snap, Proc.	135	7	27	5%	20%	7	27	1.0	1.0	1.0	MI WI
Broccoli	114	12	23	10%	21%	22	45	1.9	1.2	1.6	CA TX 96%
Brussels Sprouts	4	1	2	20%	40%	1	2	1.0	1.2	0.8	CA 100%
Cabbage	85	5	7	6%	9%	7	15	1.3	1.0	1.3	TX CA 93%
Cabbage, Chinese	6	<0.1	<0.1	<1%	<1%	<0.1	<0.1	1.5	1.0	1.5	CA 100%
Cauliflower	58	10	15	17%	25%	10	15	1.0	1.0	1.0	CA OR MI 95%
Cherries	130	0	2	<1%	2%	0	1	0.5	1.0	0.5	MI 100%
Lettuce Total	270	9	22	3%	8%	13	31	1.3	1.0	1.3	CA AZ 100%
Lettuce, Head	195	8	20	4%	10%	11	27	1.4	1.0	1.4	CA AZ 100%
Lettuce, Other	75	2	3	2%	4%	2	4	1.2	1.0	1.2	CA AZ 100%
Peas, Green	230	1	17	<1%	7%	1	17	1.0	1.0	1.0	ID AL WA(0) 100%
Pecans	488	7	21	1%	4%	6	17	0.8	1.0	0.8	GA AL FL CA 100%

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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)
Peppers, Bell	65	3	6	4%	10%	5	12	1.8	1.1	1.6	CA 100%
Peppers, Chili	9	2	4	25%	40%	4	6	1.8	1.0	1.8	CA 100%
Radish	45	0	1	<1%	2%	0	2	1.8	1.0	1.8	TX
Sweet Corn	784	2	8	<1%	1%	2	4	0.8	1.0	0.8	WA NY OR NC 80%
Tomatoes	500	1	2	<1%	<1%	1	2	1.3	1.0	1.3	CA NY OH; MI 100%
Apples	570	0	<1	<1%	<1%	0	<1	see LUIS for label rate			no use observed among growers
Almonds	430	0	<1	<1%	<1%	0	<1	see LUIS for label rate			no use observed among growers
Apricots	20	0	<1	<1%	<1%	0	<1	see LUIS for label rate			no use observed among growers
Peaches	180	0	<1	<1%	<1%	0	<1	see LUIS for label rate			no use observed among growers
Pears	70	0	<1	<1%	<1%	0	<1	see LUIS for label rate			no use observed among growers
Plums & Prunes	140	0	<1	<1%	<1%	0	<1	see LUIS for label rate			no use observed among growers
Raspberries	15	0	<1	<1%	<1%	0	<1	see LUIS for label rate			no use observed among growers
Spinach	35	0	<1	<1%	<1%	0	<1	see LUIS for label rate			no use observed among growers
Strawberries	60	0	<1	<1%	<1%	0	<1	see LUIS for label rate			no use observed among growers
Walnuts	200	0	<1	<1%	<1%	0	<1	see LUIS for label rate			no use observed among growers
Alfalfa	23,949	17	86	<1%	<1%	12	55	0.7	1.0	0.7	CA UT CO 89%
Barley	7,505	38	101	1%	1%	29	77	0.8	1.0	0.8	WY ID UT CA CO VA 78%
Corn, Field	72,284	44	87	<1%	<1%	36	73	0.8	1.0	0.8	OK KS SD IL PA TX 74%
Cotton	12,689	605	1,008	5%	8%	420	840	0.7	1.0	0.7	TN LA MS AR MO AL 76%
Oats	4,525	3	187	<1%	4%	1	80	0.4	1.0	0.4	OR UT 80%

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EPA's QUANTITATIVE USAGE ANALYSIS

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Peanuts	1,610	44	88	3%	5%	47	106	1.1	1.0	1.1	GA AL TX VA FL 83%
Potatoes	1,421	58	100	4%	7%	120	195	2.1	1.0	2.1	WA ID ME AL FL OK 64%
Sorghum	11,280	36	112	<1%	1%	20	54	0.5	1.0	0.5	TX KS NE OK 86%
Soybeans	62,879	15	66	<1%	<1%	26	53	1.8	1.0	1.8	IA 86%
Sugar Beets	1,415	5	35	<1%	2%	5	33	1.0	1.0	1.0	CA MI ND 89%
Tobacco	695	25	50	4%	7%	62	125	2.5	1.2	2.1	NC AL SC KY 84%
Wheat, Spring	20,799	47	179	<1%	1%	37	128	0.8	1.0	0.8	WA NM ID CO 80%
Wheat, Winter	45,854	258	515	1%	1%	180	354	0.7	1.0	0.7	SD WA CO CA TX OK 62%
Non-Agricultural (Non-Food Crops):											
Woodlands (Xmas Trees)	1,000	20	25	2%	2%	80	100	4.0	1.0	4.0	VA NC 94%
Christmas Trees, NC	23	15	16	65%	70%	60	64	4.0	1.0	4.0	NC Mountains
Residential\Commercial Ornamentals		NA	NA			11	11				
Horticultural Nurseries		NA	NA			9	9				
Total		1,300	2,100			1,200	1,900				

NOTES, ABBREVIATED INSTRUCTIONS (more complete instructions in QUA.SOP):
Weighted average--the most recent years and more reliable data are weighted more heavily.
Est Max = Estimated maximum, which is estimated from available data.
Usage data primarily covers 1987 - 1998.
Calculations of the above numbers may not appear to agree because they are displayed as rounded.
'DATA SOURCES: Agricultural (food crops) Sites: USDA\NASS (1990-97), California EPA, Department of Pesticide Regulation (1993-96), National Center for Food and Agricultural Policy (1992), and various proprietary data sources, including: Doane (1987-98), Maritz, Mike Buckley (1994-97); NC Christmas Trees: Sidebottom-PIAP. Non-agricultural sites: , Certified\Commercial Pesticide Applicator Survey(1993); USDA NAPIAP TB 1837 (1994), Ornamentals & Sod Production.