

APPENDIX I.

SUMMARY OF EPTC USAGE IN CALIFORNIA

The Agency's Biological and Economic Analysis Division (BEAD) provides an analysis of both national- and county-level usage information (Kaul and Jones, 2006) using state-level usage data obtained from USDA-NASS¹, Doane (www.doane.com; the full dataset is not provided due to its proprietary nature) and the California's Department of Pesticide Regulation Pesticide Use Reporting (CDPR PUR) database². CDPR PUR is considered a more comprehensive source of usage data than USDA-NASS or EPA proprietary databases, and thus the usage data reported for EPTC by county in this California-specific assessment were generated using CDPR PUR data. Four years (2002-2005) of usage data were included in this analysis. Data from CDPR PUR were obtained for every pesticide application made on every use site at the section level (approximately one square mile) of the public land survey system. BEAD summarized these data to the county level by site, pesticide, and unit treated. Calculating county-level usage involved summarizing across all applications made within a section and then across all sections within a county for each use site and for each pesticide. The county level usage data that were calculated include: average annual pounds applied, average annual area treated, and average and maximum application rate across all five years. The units of area treated are also provided where available.

A summary of EPTC usage for all California use sites is provided below in Appendix I, Table1.

Appendix I. Table 1. Summary of California Department of Pesticide Registration (CDPR) Pesticide Use Reporting (PUR) Data from 2002 to 2005 for Currently Registered EPTC Uses						
Site Name	Avg. Total . Pounds a.i. Applied/yr (2002 – 2005)	Avg. Annual pounds a.i. Applied/County	Avg. Application Rate	95 Percentile Application Rate	99 Percentile Application Rate	MAX Application Rate
	Pounds (lb)		lb a.i./A			
Alfalfa	88,724.79	4,436.24	3.15	4.73	5.63	7.48
Almond	3,526.11	587.69	2.86	4.11	6.83	6.83
Bean, Dried	2,277.53	253.06	2.67	3.31	3.35	3.35
Bean, Succulent	6,138.16	682.02	2.48	2.97	3.00	3.00
Bean, Unspecified	3,165.30	351.70	2.80	3.90	4.26	4.26
Beet	28.23	28.23	3.05	3.05	3.05	3.05
Broccoli	518.58	518.58	6.10	6.10	6.10	6.10
Cabbage	25.94	25.94	6.10	6.10	6.10	6.10
Carrot	2,123.79	530.95	4.55	5.34	5.34	5.34

¹ United States Department of Agriculture (USDA), National Agricultural Statistics Service (NASS) Chemical Use Reports provide summary pesticide usage statistics for select agricultural use sites by chemical, crop and state. See <http://www.usda.gov/nass/pubs/estindx1.htm#agchem>.

² The California Department of Pesticide Regulation's Pesticide Use Reporting database provides a census of pesticide applications in the state. See <http://www.cdpr.ca.gov/docs/pur/purmain.htm>.

Cauliflower	54.92	54.92	6.10	6.10	6.10	6.10
Clover	356.24	178.12	3.15	3.60	3.60	3.60
Corn (Forage - Fodder)	16,320.96	2,040.12	3.96	5.12	5.43	5.43
Corn, Human Consumption	623.14	207.71	2.99	3.01	3.01	3.01
Cotton	168.54	56.18	3.69	3.73	3.73	3.73
Landscape Maintenance	78.53	26.18	nd	nd	nd	nd
Lettuce, Head	68.66	68.66	3.87	3.87	3.87	3.87
Lettuce, Leaf	228.03	114.01	6.10	6.10	6.10	6.10
N-Outdoor Transplants	0.27	0.27	0.44	0.44	0.44	0.44
Oat	12.20	12.20	3.84	3.84	3.84	3.84
Pepper, Fruiting	17.43	17.43	3.87	3.87	3.87	3.87
Potato	27,161.17	3,017.91	2.82	3.27	3.39	6.32
Rappini	53.39	53.39	6.10	6.10	6.10	6.10
Regulatory Pest Control	249.25	249.25	nd	nd	nd	nd
Research Commodity	23.97	11.98	1.571.57	2.18	2.18	2.18
Rights Of Way	145.29	36.3236.32	nd	nd	nd	nd
Safflower	6,173.01	1,028.84	2.55	3.14	3.17	3.17
Soil Fumigation/Preplant	88.70	44.35	4.36	4.36	4.36	4.36
Sudangrass	36.50	36.50	2.00	2.00	2.00	2.00
Sugarbeet	19,150.82	3,191.80	2.77	3.45	3.96	4.41
Sugarbeet (Forage - Fodder)	241.48	241.48	2.08	2.22	2.22	2.22
Tomato	136.86	68.43	2.28	2.28	2.28	2.28
Tomato, Processing	2,949.40	368.68	2.12	2.53	2.53	2.53
Uncultivated Agriculture	8,497.92	653.69	4.07	4.25	4.39	4.39
Uncultivated Non-Agric.	94.25	47.13	6.10	6.10	6.10	6.10
Walnut	345.03	86.26	2.83	2.95	2.95	2.95
Total Lbs A.I. Applied	189,804.41	1,273.86				
Average Use Rates			3.23	3.89	4.22	4.70

1 nd is no data or not determined.

The currently registered uses are alfalfa, almond, beans (dried, castor, snap), broccoli, cabbage, carrot, citrus, clover, conifers (seed orchard), corn (field, pop, silage, sweet, unspecified), cotton, grapefruit (bearing, nonbearing), lemon (bearing, nonbearing), lespedeza, lettuce, orange (bearing, nonbearing), ornamentals (ground cover, herbaceous plants, seed orchard, woody shrubs), potato (white/Irish), safflower, sugar beets, sunflower, tangerine, tomato, trefoil, and walnut.

The use, registration number, and application rate information are summarized in Appendix I, Table 2.

Appendix I. Table 2 Registered uses for EPTC, EPA Registration Number, and application rate.			
Crop	Reg. No.	Rates (lb a.i./A)	Maximum Total/year or crop
Alfalfa	10163-281 G 10163-283; 19713-101; 19713-561; 19713-564 CA06992500	3 to 4 3.063 to 3.94 6.13	12.0/yr 12.25/yr
Almond	10163-283; 19713-101; 19713-561; 19713-564	3.063	6.13/yr
Beans (dried)	10163-281 G 10163-283; 19713-101 19713-561; 19713-564	3 to 4 1.53 to 3.94 1.97 to 3.94	7.0/crop
Beans (snap)	10163-281 G 10163-283; 19713-101 19713-561; 19713-564	3 to 4 1.53 to 3.94 1.97 to 3.94	7.0/crop
Broccoli	CA06002500	6.13	
Cabbage	CA06002500	6.13	
Carrot	CA06002500	6.13	
Castor Bean	CA06002500	1.93	
Cauliflower	CA06002500	6.13	
Citrus	10163-281 G 10163-283; 19713-101	6 6.13	
Clover	10163-281 G 10163-283; 19713-101; 19713-561; 19713-564	3 to 4 3.06 to 3.94	
Conifers (seed orchard)	10163-281 G 10163-283; 19713-101	6 6.13	
Corn (silage)	10163-281 G 10163-284; 19713-562	2 to 3 3.98 to 6.14	
Corn (unspecified)	10163-284; 19713-562 CA06002500	3.94 to 6.14 6.13	
Corn (field)	10163-281 G 10163-284; 19713-562	2 to 3 3.98 to 6.14	
Corn (pop)	10163-284; 19713-562	3.98 to 6.14	
Corn (sweet)	10163-281 G 10163-284; 19713-562	2 to 3 3.98 to 6.14	
Cotton	10163-283; 19713-561; 19713-564 CA06002500	1.97 6.13	
Grapefruit (bearing)	19713-564	3.06	
Grapefruit (nonbearing)	10163-281 G 10163-283; 19713-101; 19713-561; 19713-564	6 6.13	
Lemon (bearing)	19713-564	3.06	
Lemon (nonbearing)	10163-283; 19713-101; 19713-561; 19713-564	6.13	
Lespedeza	10163-281 G 10163-283; 19713-101; 19713-561; 19713-564	3 to 4 3.06 to 3.94	

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Crop	Reg. No.	Rates (lb a.i./A)	Maximum Total/year or crop
Lettuce	CA06002500	6.13	
Orange (bearing)	19713-564	3.06	
Orange (nonbearing)	10163-281 G 10163-283; 19713-101; 19713-561; 19713-564	6 6.13	
Ornamentals (ground cover)	10163-283 19713-101	5.03 to 14.88 5.03 to 14	
Ornamentals (herbaceous plants)	10163-283 19713-101	5.03 to 14.88 5.03 to 14	
Ornamentals (woody shrubs)	10163-283 19713-101	6.13 to 14.88 6.13 to 14	
Pine (seed orchard)	10163-283 19713-101	6.13 6.13	
Ornamentals and or shade trees	10163-283 19713-101	6.13 to 14.88 6.13	
Potato (white/Irish)	10163-281 G 10163-283; 19713-101; 19713-561; 19713-564	3 to 6 1.53 to 6.13	12.25/crop
Safflower	10163-281 G 10163-283; 19713-101; 19713-561; 19713-564	3 3.06	
Sugar Beets	10163-281 10163-283; 19713-101 19713-561; 19713-564 CA06002500	3 1.53 to 3.06 1.97 to 3.06 6.13	6.125/crop
Sunflower	10163-283	2 to 3.06 pre emergence 3.9 to 4.6 post emergence 6.2 total	
Tangerine	19713-564	3.06	
Tomato	10163-283; 19713-101; 19713-561; 19713-564	3.06	
Trefoil Birdsfoot	10163-281 G 10163-283; 19713-101; 19713-561; 19713-564	3 to 4 3.06 to 3.94	
Walnut	10163-283; 19713-101; 19713-561; 19713-564	3.06	
Fallow/Idle	10163-283	6.13	