

Appendix F PRZM/EXAMS Input and Output

Summary of Calculated EECs for all Scenarios Modeled

All values are the average of the calculated EECs from three separate model runs (using different application dates).

Table F-1. Aquatic EECs (µg/L) for ZIRAM Uses in California.

<u>Compound</u>	<u>Equipment</u>	<u>Crop</u>	<u>peak</u>	<u>21day</u>	<u>60day</u>
Ziram	Ground	Almonds	16.75	1.70	0.73
Ziram	Aerial	Almonds	23.44	3.63	1.65
Ziram	Aerial	Apples	15.14*	2.45*	0.91*
Ziram	Ground	Apricots	23.51	1.81	0.76
Ziram	Aerial	Apricots	32.94	3.90	1.77
Ziram	Ground	Cherries	9.89	0.85	0.37
Ziram	Aerial	Cherries	13.31	2.19	1.01
Ziram	Ground	Grapes	13.47	1.07	0.49
Ziram	Aerial	Grapes	15.82	2.05	1.36
Ziram	Ground	Nectarines	34.61	3.16	1.37
Ziram	Aerial	Nectarines	42.16	5.82	3.27
Ziram	Ground	Peaches	32.58	2.24	1.10
Ziram	Aerial	Peaches	35.64	4.78	2.90
Ziram	Ground	Pears	14.94	1.15	0.50
Ziram	Ground	Pecans	28.63	2.35	1.18
Ziram	Ground	Wine Grapes	43.70	3.63	1.49
Ziram	Aerial	Wine Grapes	42.46	4.47	2.16
Thiram	Aerial	Almonds	25.64	14.47	7.53
Thiram	Aerial	Apples	17.23	8.49	3.37
Thiram	Aerial	Apricots	25.98	14.06	7.22
Thiram	Aerial	Cherries	15.26	8.62	4.29
Thiram	Aerial	Grapes	12.59	6.67	5.36
Thiram	Aerial	Nectarines	41.26	24.38	16.35
Thiram	Aerial	Peaches	30.00	16.13	10.86
Thiram	Aerial	Pears	4.88	2.32	1.25
Thiram	Ground	Pecans	15.82	5.72	3.59
Thiram	Aerial	Wine Grapes	29.06	13.69	8.53
Notes: Generally, Thiram EECs were only calculated for the aerial applications as the parent Ziram EECs were higher for aerial (when permitted) than ground applications. The usage directions on labels are exactly the same for apples and pears; simulations are designated as representing “apples” or “pears” depending on which of these crops the chosen application dates for the model simulations most closely represented. * The simulation for aerial application to apples does not correspond exactly to the labeled use; only a pre-harvest application may be made aerially; this type of applications appears also to be uncommon in California.					

Sample PRZM/EXAMS Modeling Output and Input Summaries

Note that all runs are for specific sets of application dates, the 1 in 10 year returns frequency EEC (estimated environmental concentration) results of multiple runs with different application dates are averaged for each scenario run and presented in Table G-1.

Aerial Application to Almonds - Thiram

stored as Thirm_CA_Almond2aer_25-02.out

Chemical: Thiram

PRZM environment: CAAlmond_WirrigSTD.txt modified Wedday, 13 June 2007 at 11:17:16

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23232.dvf modified Wedday, 3 July 2002 at 09:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	24.04	17.26	13.33	6.731	4.617	1.187
1962	24.47	18.22	14.03	7.102	4.863	1.445
1963	25.17	18.29	13.91	7.99	5.497	1.415
1964	24.73	17.83	13.4	6.907	4.741	1.215
1965	23.96	17.36	13.42	6.806	4.669	1.191
1966	23.73	16.9	13.15	6.657	4.572	1.198
1967	26.18	19.05	14.43	7.391	5.065	1.292
1968	23.62	16.7	12.77	6.512	4.471	1.137
1969	24.03	17.27	13.47	6.889	4.73	1.204
1970	23.19	16.73	12.7	6.517	4.46	1.179
1971	24.05	17.29	13.53	6.897	4.74	1.209
1972	22.57	15.52	11.8	6.112	4.207	1.072
1973	24.62	17.97	14.35	7.488	5.127	1.301
1974	23.76	16.97	13.25	6.701	4.608	1.172
1975	25.46	19.09	14.76	7.587	5.204	1.32
1976	23.66	16.91	12.88	6.627	4.57	1.16
1977	24.59	17.82	13.71	6.962	4.772	1.221
1978	25.16	17.4	13.07	6.477	4.439	1.131
1979	23.6	16.76	12.97	6.638	4.541	1.154
1980	24	17.74	13.39	6.877	4.723	1.202
1981	26.66	19.31	14.15	7.142	4.891	1.241
1982	24.83	18.07	14.05	8.393	5.784	1.481
1983	26.43	20.17	15	7.477	5.178	1.316
1984	22.54	15.51	11.8	6.097	4.182	1.059
1985	24.38	17.74	13.73	6.908	4.736	1.211
1986	23.13	15.79	12.12	6.087	4.173	1.061
1987	24.54	17.96	14.01	6.937	4.74	1.205
1988	22.57	15.83	11.84	6.122	4.204	1.068
1989	24.47	17.21	13.21	6.682	4.566	1.159
1990	23.37	16.5	12.84	6.487	4.459	1.142

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	26.66	20.17	15	8.393	5.784	1.481
0.0645161290322581	26.43	19.31	14.76	7.99	5.497	1.445
0.0967741935483871	26.18	19.09	14.43	7.587	5.204	1.415
0.129032258064516	25.46	19.05	14.35	7.488	5.178	1.32
0.161290322580645	25.17	18.29	14.15	7.477	5.127	1.316
0.193548387096774	25.16	18.22	14.05	7.391	5.065	1.301
0.225806451612903	24.83	18.07	14.03	7.142	4.891	1.292
0.258064516129032	24.73	17.97	14.01	7.102	4.863	1.241
0.290322580645161	24.62	17.96	13.91	6.962	4.772	1.221
0.32258064516129	24.59	17.83	13.73	6.937	4.741	1.215
0.354838709677419	24.54	17.82	13.71	6.908	4.74	1.211
0.387096774193548	24.47	17.74	13.53	6.907	4.74	1.209

Aerial Application to Almonds – Thiram; Run # 2

stored as Thirm_CA_Almond2aer_28-02.out

Chemical: Thiram

PRZM environment: CAAlmond_WirrigSTD.txt modified Wedday, 13 June 2007 at 11:17:16

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23232.dvf modified Wedday, 3 July 2002 at 09:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	23.98	17.22	13.32	6.716	4.606	1.185
1962	24.78	18.04	13.92	6.999	4.792	1.496
1963	24.9	18.1	14.28	8.182	5.621	1.45
1964	24.3	17.52	13.35	6.862	4.707	1.208
1965	24.56	17.66	13.42	6.77	4.649	1.186
1966	23.64	17.12	13.1	6.573	4.511	1.188
1967	25.56	18.61	14.48	7.4	5.068	1.294
1968	23.44	16.58	12.73	6.485	4.451	1.133
1969	23.96	17.21	13.4	6.821	4.683	1.193
1970	23.55	16.55	12.63	6.47	4.426	1.177
1971	23.98	17.73	13.5	6.84	4.701	1.2
1972	22.52	15.72	11.81	6.065	4.171	1.063
1973	24.48	17.75	13.69	6.9	4.72	1.199
1974	23.73	17.24	13.19	6.653	4.572	1.163
1975	27.19	19.89	14.76	7.547	5.172	1.311
1976	24.05	17.08	12.84	6.596	4.546	1.154
1977	24.47	17.73	13.75	6.964	4.773	1.221
1978	22.92	15.93	12.46	6.259	4.294	1.094
1979	23.55	16.73	12.93	6.576	4.498	1.143
1980	24.35	17.55	13.31	6.827	4.687	1.193
1981	25.32	18.34	14.04	7.042	4.828	1.228
1982	24.69	17.98	14.01	8.552	5.886	1.507
1983	26.81	19.17	14.43	7.244	5.018	1.275
1984	22.51	15.61	11.74	6.036	4.139	1.048
1985	24.39	17.74	13.74	6.902	4.729	1.21
1986	22.69	15.8	12.17	6.073	4.16	1.058
1987	23.68	16.84	13.25	6.682	4.565	1.161
1988	22.78	15.66	11.78	6.087	4.179	1.062
1989	23.8	16.85	13.28	6.605	4.513	1.146
1990	23.33	16.87	12.78	6.39	4.407	1.128

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129			27.19	19.89	14.76	8.552 5.886 1.507
0.0645161290322581			26.81	19.17	14.48	8.182 5.621 1.496
0.0967741935483871			25.56	18.61	14.43	7.547 5.172 1.45
0.129032258064516			25.32	18.34	14.28	7.4 5.068 1.311
0.161290322580645			24.9	18.1	14.04	7.244 5.018 1.294
0.193548387096774			24.78	18.04	14.01	7.042 4.828 1.275
0.225806451612903			24.69	17.98	13.92	6.999 4.792 1.228
0.258064516129032			24.56	17.75	13.75	6.964 4.773 1.221
0.290322580645161			24.48	17.74	13.74	6.902 4.729 1.21
0.32258064516129			24.47	17.73	13.69	6.9 4.72 1.208
0.354838709677419			24.39	17.73	13.5	6.862 4.707 1.2
0.387096774193548			24.35	17.66	13.42	6.84 4.701 1.199
0.419354838709677			24.3	17.55	13.4	6.827 4.687 1.193
0.451612903225806			24.05	17.52	13.35	6.821 4.683 1.193
0.483870967741936			23.98	17.24	13.32	6.77 4.649 1.188
0.516129032258065			23.98	17.22	13.31	6.716 4.606 1.186
0.548387096774194			23.96	17.21	13.28	6.682 4.572 1.185
0.580645161290323			23.8	17.12	13.25	6.653 4.565 1.177
0.612903225806452			23.73	17.08	13.19	6.605 4.546 1.163
0.645161290322581			23.68	16.87	13.1	6.596 4.513 1.161
0.67741935483871			23.64	16.85	12.93	6.576 4.511 1.154
0.709677419354839			23.55	16.84	12.84	6.573 4.498 1.146

0.1	25.536	18.583	14.415	7.5323	5.1616	1.4361		
				Average of yearly averages:		1.20246666666667		

Metfile: w23232.dvf modified Wedday, 3 July 2002 at 09:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	23.93	17.18	13.29	6.68	4.583	1.193
1962	24.65	17.95	13.92	6.937	4.751	1.543
1963	24.6	19.4	15.35	8.368	5.745	1.485
1964	24.25	17.49	13.54	6.829	4.683	1.206
1965	24.21	17.41	13.38	6.733	4.622	1.179
1966	24.03	17.11	13.06	6.498	4.459	1.177
1967	25.32	18.38	14.27	7.319	5.01	1.279
1968	23.44	16.74	12.94	6.472	4.437	1.13
1969	23.92	17.5	13.4	6.749	4.63	1.181
1970	23.39	16.58	12.68	6.47	4.423	1.191
1971	24.42	17.56	13.46	6.789	4.667	1.192
1972	23.66	16.26	11.98	6.02	4.137	1.054
1973	24.37	17.68	13.68	6.873	4.698	1.196
1974	23.96	17.11	13.11	6.561	4.507	1.147
1975	25.82	18.9	14.77	7.506	5.137	1.303
1976	23.76	16.87	13.03	6.568	4.525	1.148
1977	24.33	17.63	13.8	6.912	4.74	1.215
1978	22.88	16.24	12.36	6.246	4.292	1.095
1979	23.52	16.98	13.01	6.551	4.484	1.14
1980	24.28	17.5	13.53	6.813	4.673	1.188
1981	24.92	18.28	14.08	7.028	4.815	1.226
1982	24.56	17.88	13.99	8.643	5.942	1.521
1983	25.64	18.44	14.61	7.306	5.04	1.281
1984	23.09	15.89	11.88	5.987	4.099	1.037
1985	24.39	17.74	13.75	6.866	4.703	1.204
1986	22.61	15.7	12.1	6.035	4.134	1.052
1987	23.64	16.82	13.15	6.663	4.55	1.16
1988	22.69	15.74	11.98	6.06	4.165	1.058
1989	24.64	17.54	13.37	6.554	4.48	1.139
1990	23.67	16.72	12.74	6.315	4.365	1.116

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	25.82	19.4	15.35	8.643	5.942	1.543
0.0645161290322581		25.64	18.9	14.77	8.368	5.745
0.0967741935483871		25.32	18.44	14.61	7.506	5.137
0.129032258064516	24.92	18.38	14.27	7.319	5.04	1.303
0.161290322580645	24.65	18.28	14.08	7.306	5.01	1.281
0.193548387096774	24.64	17.95	13.99	7.028	4.815	1.279
0.225806451612903	24.6	17.88	13.92	6.937	4.751	1.226
0.258064516129032	24.56	17.74	13.8	6.912	4.74	1.215
0.290322580645161	24.42	17.68	13.75	6.873	4.703	1.206
0.32258064516129	24.39	17.63	13.68	6.866	4.698	1.204
0.354838709677419	24.37	17.56	13.54	6.829	4.683	1.196
0.387096774193548	24.33	17.54	13.53	6.813	4.673	1.193
0.419354838709677	24.28	17.5	13.46	6.789	4.667	1.192
0.451612903225806	24.25	17.5	13.4	6.749	4.63	1.191
0.483870967741936	24.21	17.49	13.38	6.733	4.622	1.188
0.516129032258065	24.03	17.41	13.37	6.68	4.583	1.181
0.548387096774194	23.96	17.18	13.29	6.663	4.55	.179
0.580645161290323	23.93	17.11	13.15	6.568	4.525	1.177
0.612903225806452	23.92	17.11	13.11	6.561	4.507	1.16
0.645161290322581	23.76	16.98	13.06	6.554	4.484	1.148
0.67741935483871	23.67	16.87	13.03	6.551	4.48	1.147
0.709677419354839	23.66	16.82	13.01	6.498	4.459	1.14
0.741935483870968	23.64	16.74	12.94	6.472	4.437	1.139

0.1	25.28	18.434	14.576	7.4873	5.1273	1.4668
				Average of yearly averages:		1.2012

Aerial Application to Apricots - Thiram

stored as Thirm_CA_Fr_Aprct2aer_12-02.out

Chemical: Thiram

PRZM environment: CAfruit_WirrigSTD.txt modified Tuesday, 29 May 2007 at 12:42:32

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w93193.dvf modified Wedday, 3 July 2002 at 09:04:24

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	23.94	17.09	13.36	6.639	4.514	1.14
1962	24.75	18.23	14.27	7.109	4.828	1.217
1963	23.44	16.77	12.71	6.609	4.532	1.148
1964	24.4	18.03	13.9	7.06	4.808	1.212
1965	24.07	17.57	13.52	7.651	5.224	1.322
1966	24.5	18.09	13.73	6.712	4.549	1.205
1967	24.35	17.89	13.89	7.052	4.901	1.242
1968	22.88	16.12	12.31	6.211	4.221	1.062
1969	32.44	24.06	17.22	8.35	5.708	1.441
1970	25.79	18.11	14.09	6.899	4.701	1.202
1971	24.46	18.06	13.94	6.894	4.776	1.209
1972	23.53	16.95	12.5	6.146	4.175	1.064
1973	24.31	17.73	13.64	6.894	4.686	1.179
1974	24.2	17.74	13.62	6.705	4.559	1.147
1975	24.44	17.71	13.83	6.949	4.742	1.195
1976	24.03	17.57	13.54	6.877	4.685	1.184
1977	23.77	17.02	13.1	6.539	4.438	1.12
1978	25.62	17.36	13.28	6.556	4.477	1.128
1979	23.86	17.25	13.21	6.468	4.391	1.102
1980	29.08	20.71	14.98	7.401	5.039	1.267
1981	23.84	17.04	13.26	6.593	4.479	1.125
1982	24.32	17.6	13.69	7.151	4.877	1.23
1983	24.6	17.24	13.4	6.64	4.541	1.143
1984	23.67	17.11	12.74	6.302	4.279	1.075
1985	23.85	16.99	13.24	6.579	4.459	1.12
1986	23.06	16.17	12.49	6.586	4.476	1.125
1987	23.85	16.72	13.01	6.461	4.378	1.1
1988	23.5	16.97	12.76	6.349	4.395	1.104
1989	24.76	17.86	13.83	6.924	4.702	1.184
1990	24.35	17.9	13.55	6.615	4.5	1.142

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	32.44	24.06	17.22	8.35	5.708	1.441
0.0645161290322581	29.08	20.71	14.98	7.651	5.224	1.322
0.0967741935483871	25.79	18.23	14.27	7.401	5.039	1.267
0.129032258064516	25.62	18.11	14.09	7.151	4.901	1.242
0.161290322580645	24.76	18.09	13.94	7.109	4.877	1.23
0.193548387096774	24.75	18.06	13.9	7.06	4.828	1.217
0.225806451612903	24.6	18.03	13.89	7.052	4.808	1.212
0.258064516129032	24.5	17.9	13.83	6.949	4.776	1.209
0.290322580645161	24.46	17.89	13.83	6.924	4.742	1.205
0.32258064516129	24.44	17.86	13.73	6.899	4.702	1.202
0.354838709677419	24.4	17.74	13.69	6.894	4.701	1.195
0.387096774193548	24.35	17.73	13.64	6.894	4.686	1.184
0.419354838709677	24.35	17.71	13.62	6.877	4.685	1.184
0.451612903225806	24.32	17.6	13.55	6.712	4.559	1.179
0.483870967741936	24.31	17.57	13.54	6.705	4.549	1.148
0.516129032258065	24.2	17.57	13.52	6.64	4.541	1.147
0.548387096774194	24.07	17.36	13.4	6.639	4.532	1.143
0.580645161290323	24.03	17.25	13.36	6.615	4.514	1.142
0.612903225806452	23.94	17.24	13.28	6.609	4.5	1.14
0.645161290322581	23.86	17.11	13.26	6.593	4.479	1.128
0.67741935483871	23.85	17.09	13.24	6.586	4.477	1.125
0.709677419354839	23.85	17.04	13.21	6.579	4.476	1.125
0.741935483870968	23.84	17.02	13.1	6.556	4.459	1.12
0.774193548387097	23.77	16.99	13.01	6.539	4.438	1.12

0.1	25.773	18.218	14.252	7.376	5.0252	1.2645	
					Average of yearly averages:		1.171133333333333

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	35.85	27.55	21.92	14.92	10.26	2.614
1962	34.59	26.74	23.31	17.35	12.06	3.081
1963	34.63	29.19	22.37	15.35	10.59	2.716
1964	33.32	25.33	20.56	14.49	9.997	2.545
1965	32.39	24.29	19.62	13.84	9.781	2.499
1966	33.33	25.35	20.61	14.54	9.994	2.546
1967	33.14	25.15	20.35	14.23	9.835	2.526
1968	33.16	25.09	20.14	13.76	9.436	2.392
1969	49.88	37.79	31.06	20.1	14.2	3.646
1970	35.57	29.05	21.61	14.45	10.09	2.573
1971	32.69	24.64	20.06	14.17	9.76	2.498
1972	34.69	26.8	21.69	14.84	10.16	2.575
1973	32.71	24.62	19.93	14.45	9.991	2.543
1974	32.03	23.86	19.39	13.86	9.532	2.424
1975	33.57	25.59	20.69	14.44	9.956	2.544
1976	36.04	28.45	22.91	16.19	11.22	2.866
1977	33.54	25.53	20.57	14.16	9.738	2.473
1978	31.62	23.65	19.75	14.47	10.04	2.566
1979	32.26	24.09	19.49	13.75	9.441	2.395
1980	33.07	24.96	20	14.56	10.17	2.588
1981	38.03	28.29	20.68	14.08	9.689	2.459
1982	34.08	26.12	21.22	14.9	10.33	2.639
1983	45.9	34.91	27.11	16.82	11.66	2.98
1984	31.81	23.62	18.98	13.4	9.185	2.322
1985	33.69	25.71	20.73	14.32	9.846	2.493
1986	30.91	22.75	17.65	13.17	9.123	2.318
1987	32.74	24.64	19.82	13.92	9.575	2.426
1988	32.46	24.34	19.55	13.66	9.379	2.383
1989	33.66	25.7	20.85	14.66	10.18	2.583
1990	35.79	26.9	21.46	14.84	10.19	2.589

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	49.88	37.79	31.06	20.1	14.2	3.646
0.0645161290322581	45.9	34.91	27.11	17.35	12.06	3.081
0.0967741935483871	38.03	29.19	23.31	16.82	11.66	2.98
0.129032258064516	36.04	29.05	22.91	16.19	11.22	2.866
0.161290322580645	35.85	28.45	22.37	15.35	10.59	2.716
0.193548387096774	35.79	28.29	21.92	14.92	10.33	2.639
0.225806451612903	35.57	27.55	21.69	14.9	10.26	2.614
0.258064516129032	34.69	26.9	21.61	14.84	10.19	2.589
0.290322580645161	34.63	26.8	21.46	14.84	10.18	2.588
0.32258064516129	34.59	26.74	21.22	14.66	10.17	2.583
0.354838709677419	34.08	26.12	20.85	14.56	10.16	2.575
0.387096774193548	33.69	25.71	20.73	14.54	10.09	2.573
0.419354838709677	33.66	25.7	20.69	14.49	10.04	2.566
0.451612903225806	33.57	25.59	20.68	14.47	9.997	2.546
0.483870967741936	33.54	25.53	20.61	14.45	9.994	2.545
0.516129032258065	33.33	25.35	20.57	14.45	9.991	2.544
0.548387096774194	33.32	25.33	20.56	14.44	9.956	2.543
0.580645161290323	33.16	25.15	20.35	14.32	9.846	2.526
0.612903225806452	33.14	25.09	20.14	14.23	9.835	2.499
0.645161290322581	33.07	24.96	20.06	14.17	9.781	2.498
0.67741935483871	32.74	24.64	20	14.16	9.76	2.493
0.709677419354839	32.71	24.64	19.93	14.08	9.738	2.473
0.741935483870968	32.69	24.62	19.82	13.92	9.689	2.459
0.774193548387097	32.46	24.34	19.75	13.86	9.575	2.426
0.806451612903226	32.39	24.29	19.62	13.84	9.532	2.424
0.838709677419355	32.26	24.09	19.55	13.76	9.441	2.395
0.870967741935484	32.03	23.86	19.49	13.75	9.436	2.392
0.903225806451613	31.81	23.65	19.39	13.66	9.379	2.383
0.935483870967742	31.62	23.62	18.98	13.4	9.185	2.322
0.967741935483871	30.91	22.75	17.65	13.17	9.123	2.318

0.1	37.831	29.176	23.27	16.757	11.616	2.9686
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1963	66.44	19.33	5.548	2.449	1.663	0.4103	
1964	10.89	4.98	2.5	1.355	0.9428		0.2382
1965	13.65	6.395	3.377	1.675	1.127	0.2828	
1966	20.57	5.708	2.351	1.301	0.8975		0.2378
1967	33.38	12.12	3.9	1.852	1.254	0.3095	
1968	8.412	2.333	1.361	0.9517		0.7598	0.1917
1969	8.477	3.102	1.595	1.035	0.6953		0.1895
1970	22.57	10.44	4.28	1.981	1.326	0.3315	
1971	28.08	11.12	3.425	1.68	1.159	0.2867	
1972	22.52	8.561	3.6	1.744	1.171	0.3255	
1973	23.78	7.94	3.591	1.742	1.172	0.2994	
1974	26.02	12.32	4.818	2.169	1.459	0.3603	
1975	47.77	14.28	4.32	1.996	1.34	0.3331	
1976	21.5	5.964	2.461	1.341	0.8989		0.2246
1977	9.08	2.725	1.454	1.011	0.8068		0.2093
1978	13.01	5.007	2.397	1.459	0.9874		0.2436
1979	44.19	16.77	4.715	2.137	1.449	0.3668	
1980	12.77	6.134	3.725	1.787	1.253	0.3153	
1981	22.96	9.577	3.725	1.787	1.252	0.3244	
1982	43.79	22.27	7	2.936	1.963	0.4901	
1983	14.62	6.986	3.707	1.795	1.217	0.3004	
1984	15.43	7.12	2.774	1.451	0.9722		0.2483
1985	43.67	13.23	3.602	1.742	1.178	0.2963	
1986	10.67	4.595	2.209	1.252	0.8505		0.2099
1987	9.416	3.849	1.967	1.167	0.7864		0.1984
1988	15.8	7.317	4.242	2.173	1.483	0.3651	
1989	29.15	8.104	2.968	1.524	1.049	0.2637	
1990	27.9	12.62	2.785	1.592	1.618	0.4003	

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	66.44	22.27	7	2.936	1.963	0.4901
0.0645161290322581	47.77	19.33	5.548	2.449	1.663	0.4103
0.0967741935483871	44.19	16.77	4.818	2.173	1.618	0.4003
0.129032258064516	43.79	15.91	4.715	2.169	1.483	0.3833
0.161290322580645	43.67	14.28	4.32	2.137	1.459	0.3668
0.193548387096774	33.38	13.23	4.28	1.996	1.449	0.3651
0.225806451612903	31.34	12.62	4.242	1.981	1.34	0.3603
0.258064516129032	29.15	12.32	3.9	1.852	1.326	0.3331
0.290322580645161	28.08	12.12	3.725	1.795	1.254	0.3315
0.32258064516129	27.9	11.12	3.725	1.787	1.253	0.3255
0.354838709677419	26.02	10.44	3.707	1.787	1.252	0.3244
0.387096774193548	23.78	9.577	3.602	1.744	1.217	0.3153
0.419354838709677	22.96	8.561	3.6	1.742	1.178	0.3095
0.451612903225806	22.57	8.104	3.591	1.742	1.172	0.3004
0.483870967741936	22.52	7.94	3.425	1.68	1.171	0.2994
0.516129032258065	21.5	7.317	3.377	1.675	1.159	0.2963
0.548387096774194	20.57	7.12	3.233	1.592	1.127	0.2867
0.580645161290323	15.8	6.986	2.968	1.524	1.049	0.2828
0.612903225806452	15.43	6.395	2.785	1.459	0.9874	0.2637
0.645161290322581	14.62	6.134	2.774	1.451	0.9722	0.2483
0.67741935483871	13.65	5.964	2.5	1.355	0.9428	0.2436
0.709677419354839	13.01	5.708	2.461	1.341	0.8989	0.2382
0.741935483870968	12.77	5.007	2.397	1.301	0.8975	0.2378
0.774193548387097	10.89	4.98	2.351	1.252	0.8505	0.2246
0.806451612903226	10.67	4.595	2.209	1.182	0.8145	0.2099
0.838709677419355	10.22	3.849	1.967	1.167	0.8068	0.2093
0.870967741935484	9.416	3.54	1.679	1.112	0.7991	0.2035
0.903225806451613	9.08	3.102	1.595	1.035	0.7864	0.1984

Inputs generated by pe5.pl - Novemeber 2006

stored as Zirm_CA-WnGrap1_18-03.out

Chemical: Ziram

PRZM environment: CAWineGrapesRLF.txt modified Tuesday, 20 February 2007 at 12:06:46

EXAMS environment: pond298.exv modified Thursday, 29 August 2002 at 16:33:30

Metfile: w23234.dvf modified Wednesday, 3 July 2002 at 09:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	4.836	1.946	0.6067	0.3586	0.3151	0.08051
1962	32.67	16.58	3.37	1.18	0.7869	0.2678
1963	68.18	19.85	4.637	1.75	1.199	0.2959
1964	8.396	3.919	1.462	0.6117	0.4489	0.117
1965	14.05	4.944	2.374	0.9444	0.6398	0.163
1966	14.35	3.988	1.307	0.5585	0.4015	0.1161
1967	34.73	10.91	2.919	1.128	0.7721	0.1907
1968	2.72	1.49	0.559	0.3167	0.2583	0.06863
1969	5.93	1.641	0.519	0.2779	0.1909	0.06586
1970	17.84	8.925	3.318	1.264	0.8489	0.214
1971	26.51	9.623	2.425	0.9495	0.674	0.1672
1972	16.39	6.963	2.609	1.017	0.6862	0.208
1973	22.05	6.318	2.599	1.015	0.6875	0.1805
1974	24.88	10.87	3.877	1.46	0.9867	0.2438
1975	49.37	14.76	3.357	1.279	0.8626	0.2154
1976	15.32	4.256	1.421	0.5964	0.403	0.1028
1977	3.221	1.633	0.6689	0.3587	0.3072	0.08656
1978	8.905	3.696	1.352	0.7187	0.4944	0.122
1979	44.98	16.53	3.769	1.426	0.9758	0.2506
1980	12.25	5.199	2.739	1.061	0.772	0.1973
1981	17	8.023	2.739	1.061	0.7709	0.2065
1982	45.61	21.93	6.151	2.259	1.512	0.379
1983	14.17	6.574	2.718	1.069	0.7341	0.1812
1984	13.34	5.747	1.748	0.7116	0.4797	0.1276
1985	42.76	12	2.611	1.015	0.6934	0.1772
1986	10.06	3.888	1.159	0.5038	0.3526	0.08714
1987	6.768	2.294	0.9064	0.4158	0.2857	0.0751
1988	13.72	6.869	3.278	1.463	1.012	0.2492
1989	23.31	6.486	1.949	0.7869	0.5593	0.1431
1990	29.07	13.15	2.902	1.125	1.153	0.2855

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	68.18	21.93	6.151	2.259	1.512	0.379
0.0645161290322581	49.37	19.85	4.637	1.75	1.199	0.2959
0.0967741935483871	45.61	16.58	3.877	1.463	1.153	0.2855
0.129032258064516	44.98	16.53	3.769	1.46	1.012	0.2678
0.161290322580645	42.76	14.76	3.37	1.426	0.9867	0.2506
0.193548387096774	34.73	13.15	3.357	1.279	0.9758	0.2492
0.225806451612903	32.67	12	3.318	1.264	0.8626	0.2438
0.258064516129032	29.07	10.91	3.278	1.18	0.8489	0.2154
0.290322580645161	26.51	10.87	2.919	1.128	0.7869	0.214
0.32258064516129	24.88	9.623	2.902	1.125	0.7721	0.208
0.354838709677419	23.31	8.925	2.739	1.069	0.772	0.2065
0.387096774193548	22.05	8.023	2.739	1.061	0.7709	0.1973
0.419354838709677	17.84	6.963	2.718	1.061	0.7341	0.1907
0.451612903225806	17	6.869	2.611	1.017	0.6934	0.1812
0.483870967741936	16.39	6.574	2.609	1.015	0.6875	0.1805
0.516129032258065	15.32	6.486	2.599	1.015	0.6862	0.1772
0.548387096774194	14.35	6.318	2.425	0.9495	0.674	0.1672
0.580645161290323	14.17	5.747	2.374	0.9444	0.6398	0.163

0.612903225806452	14.05	5.199	1.949	0.7869	0.5593	0.1431
0.645161290322581	13.72	4.944	1.748	0.7187	0.4944	0.1276
0.67741935483871	13.34	4.256	1.462	0.7116	0.4797	0.122
0.709677419354839	12.25	3.988	1.421	0.6117	0.4489	0.117
0.741935483870968	10.06	3.919	1.352	0.5964	0.403	0.1161
0.774193548387097	8.905	3.888	1.307	0.5585	0.4015	0.1028
0.806451612903226	8.396	3.696	1.159	0.5038	0.3526	0.08714
0.838709677419355	6.768	2.294	0.9064	0.4158	0.3151	0.08656
0.870967741935484	5.93	1.946	0.6689	0.3587	0.3072	0.08051
0.903225806451613	4.836	1.641	0.6067	0.3586	0.2857	0.0751
0.935483870967742	3.221	1.633	0.559	0.3167	0.2583	0.06863
0.967741935483871	2.72	1.49	0.519	0.2779	0.1909	0.06586
0.1	45.547	16.575	3.8662	1.4627	1.1389	0.28373
Average of yearly averages:						0.175506666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: Zirm_CA-WnGrap1_18-03

Metfile: w23234.dvf

PRZM scenario: CAWineGrapesRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: Ziram

Description	Variable	Name	Value	Units	Comments
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Molecular weight	mwt		307.5	g/mol	
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Henry's Law Const.	henry	0		atm-m^3/mol	
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Vapor Pressure	vapr			torr	
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Solubility	sol	65		mg/L	
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Kd	Kd	5.7		mg/L	
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Koc	Koc			mg/L	
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Photolysis half-life	kdp	0.43	days	Half-life	
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Aerobic Aquatic Metabolism	kbacw	0	days	Halfife	
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Anaerobic Aquatic Metabolism	kbacs	0	days	Halfife	
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Aerobic Soil Metabolism	asm	4.9	days	Halfife	
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Hydrolysis: pH 7	0.74	days	Half-life		
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Method:	CAM	2	integer	See PRZM manual	
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Incorporation Depth:	DEPI	0	cm		
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Application Rate:	TAPP	3.36	kg/ha		
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Application Efficiency:	APPEFF	0.99	fraction		
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Spray Drift	DRFT	0.01	fraction of	application rate applied to pond	
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Application Date	Date	18-03	dd/mm	or dd/mm or dd-mm or dd-mmm	
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Interval 1	interval	7	days	Set to 0 or delete line for single app.	
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app. rate 1	apprate	3.36	kg/ha		
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Interval 2	interval	7	days	Set to 0 or delete line for single app.	
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app. rate 2	apprate	3.36	kg/ha		
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Interval 3	interval	7	days	Set to 0 or delete line for single app.	
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app. rate 3	apprate	3.36	kg/ha		
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Interval 4	interval	7	days	Set to 0 or delete line for single app.	
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app. rate 4	apprate	3.36	kg/ha		
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Interval 5	interval	7	days	Set to 0 or delete line for single app.	
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app. rate 5	apprate	3.36	kg/ha		
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Record 17: FILTRA

IPSCND

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR EPA Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

XX

Aerial Application to Wine Grapes - Thiram

stored as Thirm_CA-WnGrap2_18-03.out

Chemical: Thiram

PRZM environment: CAWineGrapesRLF.txt modified Tuesday, 20 February 2007 at 12:06:46

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 09:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	13.42	9.584	7.064	5.066	4.665	1.273
1962	18.16	13.14	8.196	5.525	4.872	1.686
1963	39.91	29.92	17.1	9.667	7.998	2.233
1964	19.05	14.02	9.926	6.433	5.282	1.446
1965	23.28	17.69	12.13	7.57	6.395	1.762
1966	17.1	12.29	9.306	5.848	4.984	1.412
1967	27.92	23.08	15.48	8.801	7.146	1.961
1968	11.67	8.29	6.553	4.669	4.41	1.222
1969	12.11	8.657	6.92	4.975	4.216	1.155
1970	23.55	18.56	13.7	8.189	6.408	1.769
1971	25.08	18.91	11.64	7.176	6.062	1.658
1972	22.2	16.72	12.48	7.508	6.333	1.801
1973	18.68	14.71	11.53	7.134	5.796	1.63
1974	27.59	21.2	15.18	8.618	7.249	1.985
1975	24.87	18.92	13.46	8.162	6.821	1.859
1976	17.24	12.56	10.02	6.337	5.168	1.385
1977	11.9	8.432	6.675	5.052	4.677	1.316
1978	15.24	10.89	8.361	6.139	5.554	1.519
1979	34.54	25.4	14.75	8.286	6.957	1.913
1980	22.61	17.02	12.62	7.682	6.655	1.833
1981	21.96	15.89	10.88	6.865	5.524	1.551
1982	50.4	41.23	23.47	11.98	9.354	2.591
1983	20.56	16.95	11.99	7.419	6.514	1.772
1984	16.64	13.83	9.872	6.178	5.203	1.426
1985	28.43	20.92	11.98	6.897	5.55	1.51
1986	16.71	12.06	9	5.717	4.855	1.312
1987	15.26	10.59	7.669	5.185	4.217	1.144
1988	24.96	19.52	13.45	8.433	7.153	1.947
1989	16.48	11.78	8.645	5.635	5.092	1.395
1990	19.38	14.62	10	6.346	5.988	1.683

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	50.4	41.23	23.47	11.98	9.354	2.591
0.0645161290322581		39.91	29.92	17.1	9.667	7.998
0.0967741935483871		34.54	25.4	15.48	8.801	7.249
0.129032258064516	28.43	23.08	15.18	8.618	7.153	1.961
0.161290322580645	27.92	21.2	14.75	8.433	7.146	1.947
0.193548387096774	27.59	20.92	13.7	8.286	6.957	1.913

0.225806451612903	25.08	19.52	13.46	8.189	6.821	1.859
0.258064516129032	24.96	18.92	13.45	8.162	6.655	1.833
0.290322580645161	24.87	18.91	12.62	7.682	6.514	1.801
0.32258064516129	23.55	18.56	12.48	7.57	6.408	1.772
0.354838709677419	23.28	17.69	12.13	7.508	6.395	1.769
0.387096774193548	22.61	17.02	11.99	7.419	6.333	1.762
0.419354838709677	22.2	16.95	11.98	7.176	6.062	1.686
0.451612903225806	21.96	16.72	11.64	7.134	5.988	1.683
0.483870967741936	20.56	15.89	11.53	6.897	5.796	1.658
0.516129032258065	19.38	14.71	10.88	6.865	5.554	1.63
0.548387096774194	19.05	14.62	10.02	6.433	5.55	1.551
0.580645161290323	18.68	14.02	10	6.346	5.524	1.519
0.612903225806452	18.16	13.83	9.926	6.337	5.282	1.51
0.645161290322581	17.24	13.14	9.872	6.178	5.203	1.446
0.67741935483871	17.1	12.56	9.306	6.139	5.168	1.426
0.709677419354839	16.71	12.29	9	5.848	5.092	1.412
0.741935483870968	16.64	12.06	8.645	5.717	4.984	1.395
0.774193548387097	16.48	11.78	8.361	5.635	4.872	1.385
0.806451612903226	15.26	10.89	8.196	5.525	4.855	1.316
0.838709677419355	15.24	10.59	7.669	5.185	4.677	1.312
0.870967741935484	13.42	9.584	7.064	5.066	4.665	1.273
0.903225806451613	12.11	8.657	6.92	5.052	4.41	1.222
0.935483870967742	11.9	8.432	6.675	4.975	4.217	1.155
0.967741935483871	11.67	8.29	6.553	4.669	4.216	1.144

0.1	33.929	25.168	15.45	8.7827	7.2394	1.9826
Average of yearly averages:						1.6383

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: Thirm_CA-WnGrap2_18-03

Metfile: w23234.dvf

PRZM scenario: CAWineGrapesRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: Thiram

Description	Variable	Name	Value	Units	Comments
Molecular weight	mwt		240.44	g/mol	
Henry's Law Const.	henry	0		atm-m ³ /mol	
Vapor Pressure	vapr			torr	
Solubility	sol	16		mg/L	
Kd	Kd	54		mg/L	
Koc	Koc			mg/L	
Photolysis half-life	kdp	0.36		days	Half-life
Aerobic Aquatic Metabolism	kbacw	2.5		days	Halfife
Anaerobic Aquatic Metabolism	kbacs	129.3		days	Halfife
Aerobic Soil Metabolism	asm	17.2		days	Halfife
Hydrolysis: pH 7		17.9		days	Half-life
Method:	CAM	2		integer	See PRZM manual
Incorporation Depth:	DEPI	0		cm	
Application Rate:	TAPP	3.36		kg/ha	
Application Efficiency:	APPEFF	0.95		fraction	
Spray Drift	DRFT	0.05		fraction of application rate applied to pond	
Application Date	Date	18-03		dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7		days	Set to 0 or delete line for single app.
app. rate 1	apprate	3.36		kg/ha	
Interval 2	interval	7		days	Set to 0 or delete line for single app.
app. rate 2	apprate	3.36		kg/ha	
Interval 3	interval	7		days	Set to 0 or delete line for single app.
app. rate 3	apprate	3.36		kg/ha	
Interval 4	interval	7		days	Set to 0 or delete line for single app.
app. rate 4	apprate	3.36		kg/ha	

Interval 5 interval 7 days Set to 0 or delete line for single app.
 app. rate 5 apprate 3.36 kg/ha
 Record 17: FILTRA
 IPSCND
 UPTKF
 Record 18: PLVKRT
 PLDKRT
 FEXTRC 0.5
 Flag for Index Res. Run IR EPA Pond
 Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

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Aerial Application to Pears - Thiram

stored as thirm_CA_Fr_Pr-Ap2aer_07-04.out

Chemical: Thiram

PRZM environment: CAfruit_WirrigSTD.txt modified Tuesday, 29 May 2007 at 12:42:32

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w93193.dvf modified Wedday, 3 July 2002 at 09:04:24

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	16.06	10.59	7.435	2.933	1.975	0.6041
1962	15.66	10.04	7.011	2.734	1.843	0.5689
1963	17.15	12	8.592	3.451	2.33	0.7139
1964	16.46	11.13	7.842	3.113	2.1	0.6451
1965	16.31	10.92	7.692	3.027	2.044	0.6291
1966	15.45	9.759	6.793	2.61	1.758	0.6168
1967	19.36	13.95	9.687	3.944	2.663	0.7679
1968	16.06	10.6	7.44	2.911	1.96	0.6473
1969	16.45	11.11	7.827	3.076	2.076	0.6418
1970	16.77	11.52	8.141	3.216	2.167	0.746
1971	17.27	11.74	8.279	3.32	2.242	0.6715
1972	16.14	10.71	7.521	2.937	1.98	0.6193
1973	16.17	10.74	7.546	2.937	1.977	0.6036
1974	16.41	11.05	7.784	3.06	2.061	0.6345
1975	17.33	12.25	8.679	3.48	2.347	0.7017
1976	16.81	11.57	8.179	3.242	2.188	0.7242
1977	15.44	9.734	6.774	2.633	1.773	0.5533
1978	16.61	11.31	8.021	3.176	2.141	0.6429
1979	15.95	10.44	7.319	2.841	1.912	0.5775
1980	16.06	10.59	7.436	2.918	1.968	0.6076
1981	15.95	10.38	7.257	2.817	1.895	0.5865
1982	16.61	11.32	7.986	3.154	2.128	0.667
1983	16.72	11.46	8.091	3.4	2.294	0.6727
1984	16.15	10.72	7.528	2.916	1.964	0.5894
1985	15.24	9.459	6.559	2.512	1.69	0.527
1986	15.91	10.39	7.276	2.82	1.897	0.6319
1987	15.3	9.534	6.622	2.56	1.724	0.5647
1988	16.83	11.15	7.867	3.093	2.086	0.6174
1989	15.31	9.559	6.637	2.575	1.735	0.5378
1990	15.48	10.02	6.898	2.79	1.888	0.5741

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	19.36	13.95	9.687	3.944	2.663	0.7679

0.0645161290322581	17.33	12.25	8.679	3.48	2.347	0.746
0.0967741935483871	17.27	12	8.592	3.451	2.33	0.7242
0.129032258064516	17.15	11.74	8.279	3.4	2.294	0.7139
0.161290322580645	16.83	11.57	8.179	3.32	2.242	0.7017
0.193548387096774	16.81	11.52	8.141	3.242	2.188	0.6727
0.225806451612903	16.77	11.46	8.091	3.216	2.167	0.6715
0.258064516129032	16.72	11.32	8.021	3.176	2.141	0.667
0.290322580645161	16.61	11.31	7.986	3.154	2.128	0.6473
0.32258064516129	16.61	11.15	7.867	3.113	2.1	0.6451
0.354838709677419	16.46	11.13	7.842	3.093	2.086	0.6429
0.387096774193548	16.45	11.11	7.827	3.076	2.076	0.6418
0.419354838709677	16.41	11.05	7.784	3.06	2.061	0.6345
0.451612903225806	16.31	10.92	7.692	3.027	2.044	0.6319
0.483870967741936	16.17	10.74	7.546	2.937	1.98	0.6291
0.516129032258065	16.15	10.72	7.528	2.937	1.977	0.6193
0.548387096774194	16.14	10.71	7.521	2.933	1.975	0.6174
0.580645161290323	16.06	10.6	7.44	2.918	1.968	0.6168
0.612903225806452	16.06	10.59	7.436	2.916	1.964	0.6076
0.645161290322581	16.06	10.59	7.435	2.911	1.96	0.6041
0.67741935483871	15.95	10.44	7.319	2.841	1.912	0.6036
0.709677419354839	15.95	10.39	7.276	2.82	1.897	0.5894
0.741935483870968	15.91	10.38	7.257	2.817	1.895	0.5865
0.774193548387097	15.66	10.04	7.011	2.79	1.888	0.5775
0.806451612903226	15.48	10.02	6.898	2.734	1.843	0.5741
0.838709677419355	15.45	9.759	6.793	2.633	1.773	0.5689
0.870967741935484	15.44	9.734	6.774	2.61	1.758	0.5647
0.903225806451613	15.31	9.559	6.637	2.575	1.735	0.5533
0.935483870967742	15.3	9.534	6.622	2.56	1.724	0.5378
0.967741935483871	15.24	9.459	6.559	2.512	1.69	0.527
0.1	17.258	11.974	8.5607	3.4459	2.3264	0.72317
Average of yearly averages:						0.629516666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: thirm_CA_Fr_Pr-Ap2aer_07-04

Metfile: w93193.dvf

PRZM scenario: CAfruit_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: Thiram

Description	Variable	Name	Value	Units	Comments
Molecular weight	mwt		240.44	g/mol	
Henry's Law Const.	henry		0	atm-m^3/mol	
Vapor Pressure	vapr			torr	
Solubility	sol	16		mg/L	
Kd	Kd	54		mg/L	
Koc	Koc			mg/L	
Photolysis half-life	kdp		0.36	days	Half-life
Aerobic Aquatic Metabolism	kbacw		2.5	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		129.3	days	Halfife
Aerobic Soil Metabolism	asm		17.2	days	Halfife
Hydrolysis: pH 7		17.9		days	Half-life
Method:	CAM	2		integer	See PRZM manual
Incorporation Depth:	DEPI	0		cm	
Application Rate:	TAPP	5.16		kg/ha	
Application Efficiency:	APPEFF		0.95	fraction	
Spray Drift	DRFT	0.05		fraction of application rate applied to pond	
Application Date	Date	07-04		dd/mm or dd/mm or dd-mm or dd-mmm	

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Interval 1 interval 7 days Set to 0 or delete line for single app.
app. rate 1 apprate 5.16 kg/ha
Interval 2 interval 7 days Set to 0 or delete line for single app.
app. rate 2 apprate 5.16 kg/ha
Interval 3 interval 110 days Set to 0 or delete line for single app.
app. rate 3 apprate 5.16 kg/ha
Record 17: FILTRA
          IPSCND
          UPTKF
Record 18: PLVKRT
          PLDKRT
          FEXTRC 0.5
Flag for Index Res. Run IR EPA Pond
Flag for runoff calc. RUNOFF none none, monthly or total(average of entire
run)

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Aerial Application to Wine Grapes - Thiram

stored as Thirm_CA-WnGrap2_24-03.out

Chemical: Thiram

PRZM environment: CAWineGrapesRLF.txt modified Tuesday, 20 February 2007 at 12:06:46

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 09:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	13.08	9.166	6.761	5.697	4.992	1.367
1962	22.56	16.32	6.621	5.468	4.566	1.695
1963	22.34	16.74	11.99	8.194	6.876	1.933
1964	17.99	12.93	8.609	6.091	5.024	1.376
1965	24.9	18.02	11.23	7.791	6.415	1.774
1966	14.29	10.17	7.395	5.611	4.794	1.373
1967	22.72	16.67	12.06	8.265	6.565	1.802
1968	11.67	8.619	6.541	5.499	4.753	1.321
1969	11.82	8.453	6.713	5.111	4.281	1.19
1970	22.42	15.99	10.63	7.06	5.612	1.554
1971	14.41	10.54	8.572	6.319	5.467	1.493
1972	21.12	15.07	9.909	7.073	5.877	1.707
1973	14.59	10.42	7.779	5.861	4.849	1.39
1974	18.58	15	10.73	7.36	6.241	1.704
1975	13.6	9.868	7.709	6.27	5.421	1.476
1976	14.24	10.32	7.874	5.969	4.872	1.303
1977	11.68	8.633	6.973	5.912	5.043	1.422
1978	15.59	10.95	7.981	6.635	5.433	1.488
1979	19.65	14.43	10.49	7.111	6.05	1.67
1980	21.7	15.54	10.14	7.251	6.26	1.727
1981	12.18	8.637	6.895	5.265	4.412	1.266
1982	55.92	40.51	21.41	11.78	9.132	2.533
1983	13.54	10.69	7.686	6.529	5.637	1.541
1984	13.82	9.707	7.557	5.675	4.772	1.315
1985	16.34	12.01	8.929	6.167	4.982	1.361
1986	14.12	9.915	7.368	5.682	4.711	1.271
1987	12.94	9.028	6.625	4.84	4.037	1.099
1988	23.54	16.57	10.61	7.622	6.499	1.768
1989	11.28	7.908	6.195	5.226	4.548	1.253
1990	20.32	16.88	8.884	6.273	5.988	1.678

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
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0.032258064516129	55.92	40.51	21.41	11.78	9.132	2.533
0.0645161290322581	24.9	18.02	12.06	8.265	6.876	1.933
0.0967741935483871	23.54	16.88	11.99	8.194	6.565	1.802
0.129032258064516	22.72	16.74	11.23	7.791	6.499	1.774
0.161290322580645	22.56	16.67	10.73	7.622	6.415	1.768
0.193548387096774	22.42	16.57	10.63	7.36	6.26	1.727
0.225806451612903	22.34	16.32	10.61	7.251	6.241	1.707
0.258064516129032	21.7	15.99	10.49	7.111	6.05	1.704
0.290322580645161	21.12	15.54	10.14	7.073	5.988	1.695
0.32258064516129	20.32	15.07	9.909	7.06	5.877	1.678
0.354838709677419	19.65	15	8.929	6.635	5.637	1.67
0.387096774193548	18.58	14.43	8.884	6.529	5.612	1.554
0.419354838709677	17.99	12.93	8.609	6.319	5.467	1.541
0.451612903225806	16.34	12.01	8.572	6.273	5.433	1.493
0.483870967741936	15.59	10.95	7.981	6.27	5.421	1.488
0.516129032258065	14.59	10.69	7.874	6.167	5.043	1.476
0.548387096774194	14.41	10.54	7.779	6.091	5.024	1.422
0.580645161290323	14.29	10.42	7.709	5.969	4.992	1.39
0.612903225806452	14.24	10.32	7.686	5.912	4.982	1.376
0.645161290322581	14.12	10.17	7.557	5.861	4.872	1.373
0.67741935483871	13.82	9.915	7.395	5.697	4.849	1.367
0.709677419354839	13.6	9.868	7.368	5.682	4.794	1.361
0.741935483870968	13.54	9.707	6.973	5.675	4.772	1.321
0.774193548387097	13.08	9.166	6.895	5.611	4.753	1.315
0.806451612903226	12.94	9.028	6.761	5.499	4.711	1.303
0.838709677419355	12.18	8.637	6.713	5.468	4.566	1.271
0.870967741935484	11.82	8.633	6.625	5.265	4.548	1.266
0.903225806451613	11.68	8.619	6.621	5.226	4.412	1.253
0.935483870967742	11.67	8.453	6.541	5.111	4.281	1.19
0.967741935483871	11.28	7.908	6.195	4.84	4.037	1.099

0.1 23.458 16.866 11.914 8.1537 6.5584 1.7992

Average of yearly averages:

1.52833333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: Thirm_CA-WnGrap2_24-03

Metfile: w23234.dvf

PRZM scenario: CAWineGrapesRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: Thiram

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	240.44	g/mol	
Henry's Law Const.	henry	0	atm-m ³ /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	16	mg/L	
Kd	Kd	54	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.36	days	Half-life
Aerobic Aquatic Metabolism	kbacw	2.5	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	129.3	days	Halfife
Aerobic Soil Metabolism	asm	17.2	days	Halfife
Hydrolysis: pH 7	17.9	days	Half-life	
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	3.36	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	24-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
app. rate 1	apprate	3.36	kg/ha	
Interval 2	interval	7	days	Set to 0 or delete line for single app.
app. rate 2	apprate	3.36	kg/ha	
Interval 3	interval	7	days	Set to 0 or delete line for single app.
app. rate 3	apprate	3.36	kg/ha	

Interval 4	interval	7	days	Set to 0 or delete line for single app.
app. rate 4	apprate	3.36	kg/ha	
Interval 5	interval	7	days	Set to 0 or delete line for single app.
app. rate 5	apprate	3.36	kg/ha	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC 0.5			
Flag for Index Res. Run	IR	EPA Pond		
Flag for runoff calc.	RUNOFF	none	none, monthly or total(average of entire run)	

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