

APPENDIX E

Example Output from PRZM/EXAMS

stored as M.out
 Chemical: Malathion
 PRZM environment: CAalfalfa_WirrigOP.txt modified Thuday, 14 June 2007 at 10:20:44
 EXAMS environment: pond298.exv modified Tuesday, 26 August 2008 at 06:14:08
 Metfile: w93193.dvf modified Tuesday, 26 August 2008 at 06:16:12
 Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	9.228	6.716	4.116	3.461	2.534	0.625
1962	9.554	7.47	4.404	3.782	2.769	0.683
1963	11.64	9.584	5.401	3.997	2.889	0.7127
1964	8.939	6.46	3.956	3.446	2.545	0.6262
1965	8.85	6.323	3.822	3.338	2.485	0.6133
1966	8.941	6.929	4.102	3.521	2.569	0.6337
1967	9.217	7.16	4.184	3.523	2.588	0.6386
1968	8.93	6.434	3.909	3.324	2.428	0.5973
1969	10.28	8.109	5.876	4.27	3.107	0.7666
1970	15.66	11.44	5.9	4.124	3.162	0.7801
1971	8.886	6.386	3.884	3.4	2.501	0.6169
1972	9.015	6.586	4.062	3.465	2.51	0.6174
1973	9.02	6.962	4.149	3.509	2.617	0.6458
1974	9.026	6.421	3.957	3.447	2.537	0.6258
1975	8.987	6.524	4.006	3.451	2.541	0.627
1976	9.472	6.679	4.268	3.571	2.621	0.645
1977	8.979	6.565	4.068	3.45	2.526	0.6232
1978	12.94	9.389	5.027	4.028	2.955	0.7288
1979	9.02	6.445	3.868	3.393	2.482	0.6123
1980	10.14	7.958	4.729	3.861	2.846	0.7002
1981	17.17	12.21	5.779	4.042	2.923	0.721
1982	9.395	6.844	4.678	3.739	2.737	0.6753
1983	10.07	7.231	5.145	3.958	2.969	0.7324
1984	8.841	6.257	3.756	3.284	2.397	0.5897
1985	8.939	6.466	3.951	3.388	2.484	0.6127
1986	26	17.77	7.503	4.801	3.424	0.8445
1987	9.188	7.151	4.494	3.746	2.754	0.6794
1988	8.9	6.451	3.919	3.371	2.499	0.6147
1989	8.967	6.51	4.018	3.499	2.647	0.6529
1990	9.276	6.712	4.047	3.499	2.551	0.6292

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	26	17.77	7.503	4.801	3.424	0.8445
0.0645161290322581	17.17	12.21	5.9	4.27	3.162	0.7801
0.0967741935483871	15.66	11.44	5.876	4.124	3.107	0.7666
0.129032258064516	12.94	9.584	5.779	4.042	2.969	0.7324
0.161290322580645	11.64	9.389	5.401	4.028	2.955	0.7288
0.193548387096774	10.28	8.109	5.145	3.997	2.923	0.721
0.225806451612903	10.14	7.958	5.027	3.958	2.889	0.7127
0.258064516129032	10.07	7.47	4.729	3.861	2.846	0.7002
0.290322580645161	9.554	7.231	4.678	3.782	2.769	0.683
0.32258064516129	9.472	7.16	4.494	3.746	2.754	0.6794
0.354838709677419	9.395	7.151	4.404	3.739	2.737	0.6753
0.387096774193548	9.276	6.962	4.268	3.571	2.647	0.6529
0.419354838709677	9.228	6.929	4.184	3.523	2.621	0.6458
0.451612903225806	9.217	6.844	4.149	3.521	2.617	0.645
0.483870967741936	9.188	6.716	4.116	3.509	2.588	0.6386

0.516129032258065	9.026	6.712	4.102	3.499	2.569	0.6337
0.548387096774194	9.02	6.679	4.068	3.499	2.551	0.6292
0.580645161290323	9.02	6.586	4.062	3.465	2.545	0.627
0.612903225806452	9.015	6.565	4.047	3.461	2.541	0.6262
0.645161290322581	8.987	6.524	4.018	3.451	2.537	0.6258
0.67741935483871	8.979	6.51	4.006	3.45	2.534	0.625
0.709677419354839	8.967	6.466	3.957	3.447	2.526	0.6232
0.741935483870968	8.941	6.46	3.956	3.446	2.51	0.6174
0.774193548387097	8.939	6.451	3.951	3.4	2.501	0.6169
0.806451612903226	8.939	6.445	3.919	3.393	2.499	0.6147
0.838709677419355	8.93	6.434	3.909	3.388	2.485	0.6133
0.870967741935484	8.9	6.421	3.884	3.371	2.484	0.6127
0.903225806451613	8.886	6.386	3.868	3.338	2.482	0.6123
0.935483870967742	8.85	6.323	3.822	3.324	2.428	0.5973
0.967741935483871	8.841	6.257	3.756	3.284	2.397	0.5897
0.1	15.388	11.2544	5.8663	4.1158	3.0932	0.76318
Average of yearly averages:						0.662356666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: M

Metfile: w93193.dvf

PRZM scenario: CAalfalfa_WirrigOP.txt

EXAMS environment file: pond298.exv

Chemical Name: Malathion

Description	Variable	Name	Value	Units	Comments
Molecular weight	mwt	330	g/mol		
Henry's Law Const.	henry	0	atm-m ³ /mol		
Vapor Pressure	vapr		torr		
Solubility	sol	145	mg/L		
Kd	Kd		mg/L		
Koc	Koc	151	mg/L		
Photolysis half-life	kdp	97.88	days		Half-life
Aerobic Aquatic Metabolism	kbacw	3.27	days		Halfife
Anaerobic Aquatic Metabolism	kbacs	7.64	days		Halfife
Aerobic Soil Metabolism	asm	3	days		Halfife
Hydrolysis: pH 5	107	days			Half-life
Hydrolysis: pH 7	6.21	days			Half-life
Hydrolysis: pH 9	0.5	days			Half-life
Method:	CAM	2	integer		See PRZM manual
Incorporation Depth:	DEPI	0	cm		
Application Rate:	TAPP	1.75	kg/ha		
Application Efficiency:	APPEFF	.95	fraction		
Spray Drift	DRFT	.093	fraction of application rate applied to pond		
Application Date	Date	1-1	dd/mm or dd/mm or dd-mm or dd-mmm		
Interval 1	interval	14	days		Set to 0 or delete line for single app.
app. rate 1	apprate		kg/ha		
Interval 2	interval	14	days		Set to 0 or delete line for single app.
app. rate 2	apprate		kg/ha		
Interval 3	interval	14	days		Set to 0 or delete line for single app.
app. rate 3	apprate		kg/ha		
Interval 4	interval	14	days		Set to 0 or delete line for single app.
app. rate 4	apprate		kg/ha		

Record 17: FILTRA

IPSCND 1

UPTKF 0

Record 18: PLVKRT 0

PLDKRT 0.126

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)