Appendix L: PRZM/EXAMS Example Output

Uncultivated areas – 3 applications @ 3 lb a.i./acre (120-day interval)

stored as Range_L3.out
Chemical: Oyzalin
PRZM environment: CArangelandhayRLF_V2.txt modified Wedday, 26 March 2008 at 10:38:02
EXAMS environment: pond298.exv modified Tueday, 26 August 2008 at 06:14:08
Metfile: w23232.dvf modified Tueday, 26 August 2008 at 06:15:38
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	22.78	19.9	12.43	5.547	3.714	1.742
1962	104	88.53	50.71	22.53	15.87	6.714
1963	52.66	45.31	29.1	14.5	11.02	3.698
1964	41.35	37.65	22.32	9.71	6.917	2.631
1965	12.17	10.7	7.356	3.75	2.678	1.123
1966	15.88	14.3	11.11	7.688	5.139	1.78
1967	53.28	48.05	33.13	15.92	11.55	3.327
1968	13.21	11.45	7.016	5.073	3.905	1.421
1969	29.3	26.91	19.77	11.89	8.501	2.684
1970	25.78	22.66	15.36	8.404	6.006	2.94
1971	5.604	4.95	3.233	1.803	1.45	0.6241
1972	9.824	8.603	6.039	3.53	2.719	1.228
1973	21.06	19.52	14.86	8.548	6.368	2.404
1974	4.417	3.947	3.399	2.035	1.689	0.8056
1975	8.599	7.748	5.163	3.279	2.681	0.9238
1976	2.371	2.002	1.106	0.7663	0.7063	0.306
1977	12.11	10.52	7.364	4.469	3.032	1.496
1978	32.37	29.76	23.67	13.8	10.04	3.109
1979	24.65	21.93	14.08	8.052	5.951	2.138
1980	21.49	19.69	13.83	8.523	6.447	1.948
1981	29.9	26.82	17.5	8.941	6.611	3.304
1982	50.35	43.85	25.88	13.08	9.743	3.783
1983	14.08	12.3	9.07	5.768	4.663	2.26
1984	6.012	5.24	3.241	1.675	1.235	0.5897
1985	18.2	15.61	10.21	4.583	3.073	1.214
1986	22.7	20.11	12.49	7.332	6.184	1.808
1987	9.123	7.846	5.236	3.639	3.105	1.302
1988	8.313	7.218	4.458	2.517	1.887	0.8972
1989	22.01	18.26	9.554	4.743	3.679	1.484

1990	38.66	34.2	20.01	10.31	7.431	2.466

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258	104	88.53	50.71	22.53	15.87	6.714
0.064516	53.28	48.05	33.13	15.92	11.55	3.783
0.096774	52.66	45.31	29.1	14.5	11.02	3.698
0.129032	50.35	43.85	25.88	13.8	10.04	3.327
0.16129	41.35	37.65	23.67	13.08	9.743	3.304
0.193548	38.66	34.2	22.32	11.89	8.501	3.109
0.225806	32.37	29.76	20.01	10.31	7.431	2.94
0.258065	29.9	26.91	19.77	9.71	6.917	2.684
0.290323	29.3	26.82	17.5	8.941	6.611	2.631
0.322581	25.78	22.66	15.36	8.548	6.447	2.466
0.354839	24.65	21.93	14.86	8.523	6.368	2.404
0.387097	22.78	20.11	14.08	8.404	6.184	2.26
0.419355	22.7	19.9	13.83	8.052	6.006	2.138
0.451613	22.01	19.69	12.49	7.688	5.951	1.948
0.483871	21.49	19.52	12.43	7.332	5.139	1.808
0.516129	21.06	18.26	11.11	5.768	4.663	1.78
0.548387	18.2	15.61	10.21	5.547	3.905	1.742
0.580645	15.88	14.3	9.554	5.073	3.714	1.496
0.612903	14.08	12.3	9.07	4.743	3.679	1.484
0.645161	13.21	11.45	7.364	4.583	3.105	1.421
0.677419	12.17	10.7	7.356	4.469	3.073	1.302
0.709677	12.11	10.52	7.016	3.75	3.032	1.228
0.741935	9.824	8.603	6.039	3.639	2.719	1.214
0.774194	9.123	7.846	5.236	3.53	2.681	1.123
0.806452	8.599	7.748	5.163	3.279	2.678	0.9238
0.83871	8.313	7.218	4.458	2.517	1.887	0.8972
0.870968	6.012	5.24	3.399	2.035	1.689	0.8056
0.903226	5.604	4.95	3.241	1.803	1.45	0.6241
0.935484	4.417	3.947	3.233	1.675	1.235	0.5897
0.967742	2.371	2.002	1.106	0.7663	0.7063	0.306
0.1	52.429	45.164	28.778	14.43	10.922	3.6609
					Average of yearly averages:	2.07168

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File:	Range_L3
Metfile:	w23232.dvf
PRZM scenario:	CArangelandhayRLF_V2.txt
EXAMS environment file:	pond298.exv
Chemical	Oyzalin

Name:

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	346.35	g/mol	
Henry's Law Const.	henry	1.82E-08	atm-m^3/mol	
Vapor Pressure	vapr	1.00E-07	torr	
Solubility	sol	25	mg/L	
Kd	Kd		mg/L	
Koc	Koc	941	mg/L	
Photolysis half-life	kdp	0.06	days	Half-life
Aerobic Aquatic Metabolism	kbacw	378	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	60	days	Halfife
Aerobic Soil Metabolism	asm	189	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI		cm	
Application Rate:	TAPP	3.36	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	1-Jan	dd/mm or dd/mmm or dd-mm or dd-mmm	
Interval 1	interval	120	days	Set to 0 or delete line for single app.
app. rate 1	apprate	3.36	kg/ha	
Interval 2	interval	120	days	Set to 0 or delete line for single app.
app. rate 2	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)