

Appendix D. Example Output from PE5 Application of Acephate to Alfalfa

stored as CAalfa01.out
 Chemical: acephate
 PRZM environment: CAalfalfa_Wirrig0P.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	38.21	34.06	25.76	12.87	8.582	4.087
1962	16	14.54	14.12	11.01	7.582	2.439
1963	27.43	25.21	20.2	14.27	9.823	2.919
1964	29.28	23.87	15.28	11.36	7.862	3.277
1965	15.47	13.66	13.14	10.85	7.559	2.443
1966	13.03	11.61	11.37	9.467	6.521	2.28
1967	25.63	24.03	21.88	15.42	10.59	3.559
1968	57.85	48.71	27.06	15.2	10.59	4.491
1969	14.1	12.48	12.14	10.32	7.17	2.404
1970	46.66	41.25	30.85	14.87	9.911	4.299
1971	33.94	29.54	20.2	16.76	11.53	3.481
1972	24.68	18.38	13.04	11.33	8.009	2.826
1973	32.72	27.53	14.89	9.424	6.443	2.805
1974	56.38	46.46	27.8	14.92	10.74	4.437
1975	18.92	16.25	12.85	10.77	7.423	3.028
1976	23.16	19.28	12.46	10.72	7.543	2.769
1977	35.02	31.16	16.92	11.47	7.836	2.932
1978	63.55	49.38	21.73	11.28	7.723	4.181
1979	13.61	11.97	11.64	9.719	6.654	2.02
1980	14.93	13.52	13.38	10.83	7.496	1.999
1981	14.54	12.97	12.35	10.29	6.963	2.109
1982	36.55	28.58	13.71	10.52	7.363	3.177
1983	44.08	38.78	24.19	14.97	10.21	3.003
1984	13.77	12.01	10.93	9.251	6.358	1.944
1985	14.39	12.58	12.09	9.599	6.526	2.54
1986	53.22	48.12	24.79	9.47	6.458	3.228
1987	43.98	35.75	21.99	13.18	8.975	3.848
1988	26.14	23.56	19.72	14.2	9.698	3.301
1989	28.13	23.68	18.1	12.11	8.283	2.787
1990	65.29	55.17	27.52	17.95	12.4	3.164

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	65.29	55.17	30.85	17.95	12.4	4.491
0.0645161290322581	63.55	49.38	27.8	16.76	11.53	4.437
0.0967741935483871	57.85	48.71	27.52	15.42	10.74	4.299
0.129032258064516	56.38	48.12	27.06	15.2	10.59	4.181
0.161290322580645	53.22	46.46	25.76	14.97	10.59	4.087
0.193548387096774	46.66	41.25	24.79	14.92	10.21	3.848
0.225806451612903	44.08	38.78	24.19	14.87	9.911	3.559

0.25806451612903243.98 35.75 21.99 14.27 9.823 3.481
0.29032258064516138.21 34.06 21.88 14.2 9.698 3.301
0.32258064516129 36.55 31.16 21.73 13.18 8.975 3.277
0.35483870967741935.02 29.54 20.2 12.87 8.582 3.228
0.38709677419354833.94 28.58 20.2 12.11 8.283 3.177
0.41935483870967732.72 27.53 19.72 11.47 8.009 3.164
0.45161290322580629.28 25.21 18.1 11.36 7.862 3.028
0.48387096774193628.13 24.03 16.92 11.33 7.836 3.003
0.51612903225806527.43 23.87 15.28 11.28 7.723 2.932
0.54838709677419426.14 23.68 14.89 11.01 7.582 2.919
0.58064516129032325.63 23.56 14.12 10.85 7.559 2.826
0.61290322580645224.68 19.28 13.71 10.83 7.543 2.805
0.64516129032258123.16 18.38 13.38 10.77 7.496 2.787
0.67741935483871 18.92 16.25 13.14 10.72 7.423 2.769
0.70967741935483916 14.54 13.04 10.52 7.363 2.54
0.74193548387096815.47 13.66 12.85 10.32 7.17 2.443
0.77419354838709714.93 13.52 12.46 10.29 6.963 2.439
0.80645161290322614.54 12.97 12.35 9.719 6.654 2.404
0.83870967741935514.39 12.58 12.14 9.599 6.526 2.28
0.87096774193548414.1 12.48 12.09 9.47 6.521 2.109
0.90322580645161313.77 12.01 11.64 9.467 6.458 2.02
0.93548387096774213.61 11.97 11.37 9.424 6.443 1.999
0.96774193548387113.03 11.61 10.93 9.251 6.358 1.944

0.1 57.703 48.651 27.474 15.398 10.725 4.2872
Average of yearly averages: 3.05923333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAalfa01

Metfile: w93193.dvf

PRZM scenario: CAalfalfa_WirrigOP.txt

EXAMS environment file: pond298.exv

Chemical Name: acephate

Description	Variable	Name	Value	Units	Comments
Molecular weight	mwt	183.16		g/mol	
Henry's Law Const.	henry	1.62e-13		atm-m ³ /mol	
Vapor Pressure	vapr	1.7e-7		torr	
Solubility	sol	801000		mg/L	
Kd	Kd			mg/L	
Koc	Koc	2.71		mg/L	
Photolysis half-life	kdp	163	days		Half-life
Aerobic Aquatic Metabolism	kbacw	4.6	days		Halfife
Anaerobic Aquatic Metabolism	kbacs	19.8	days		Halfife
Aerobic Soil Metabolism	asm	2.3	days		Halfife
Hydrolysis: pH 7	169	days			Half-life
Method:	CAM	2	integer		See PRZM manual
Incorporation Depth:	DEPI			cm	
Application Rate:	TAPP	1.09	kg/ha		
Application Efficiency:	APPEFF			0.95	fraction
Spray Drift	DRFT	.05	fraction of application rate applied to pond		
Application Date	Date	15-04	dd/mm or dd/mm or dd-mm or dd-mmm		
Interval 1	interval	2	days		Set to 0 or delete line for single app.

app. rate 1	apprate	1.09	kg/ha	
Interval 2	interval	2	days	Set to 0 or delete line for single app.
app. rate 2	apprate	1.09	kg/ha	
Interval 3	interval	2	days	Set to 0 or delete line for single app.
app. rate 3	apprate	1.09	kg/ha	
Interval 4	interval	2	days	Set to 0 or delete line for single app.
app. rate 4	apprate	1.09	kg/ha	
Interval 5	interval	2	days	Set to 0 or delete line for single app.
app. rate 5	apprate	1.09	kg/ha	
Interval 6	interval	2	days	Set to 0 or delete line for single app.
app. rate 6	apprate	1.09	kg/ha	
Interval 7	interval	2	days	Set to 0 or delete line for single app.
app. rate 7	apprate	1.09	kg/ha	
Interval 8	interval	2	days	Set to 0 or delete line for single app.
app. rate 8	apprate	1.09	kg/ha	
Interval 9	interval	2	days	Set to 0 or delete line for single app.
app. rate 9	apprate	1.09	kg/ha	
Interval 10	interval	2	days	Set to 0 or delete line for single app.
app. rate 10	apprate	1.09	kg/ha	
Interval 11	interval	2	days	Set to 0 or delete line for single app.
app. rate 11	apprate	1.09	kg/ha	
Interval 12	interval	2	days	Set to 0 or delete line for single app.
app. rate 12	apprate	1.09	kg/ha	
Interval 13	interval	2	days	Set to 0 or delete line for single app.
app. rate 13	apprate	1.09	kg/ha	
Interval 14	interval	2	days	Set to 0 or delete line for single app.
app. rate 14	apprate	1.09	kg/ha	
Interval 15	interval	2	days	Set to 0 or delete line for single app.
app. rate 15	apprate	1.09	kg/ha	
Interval 16	interval	2	days	Set to 0 or delete line for single app.
app. rate 16	apprate	1.09	kg/ha	
Interval 17	interval	2	days	Set to 0 or delete line for single app.
app. rate 17	apprate	1.09	kg/ha	
Interval 18	interval	2	days	Set to 0 or delete line for single app.
app. rate 18	apprate	1.09	kg/ha	
Interval 19	interval	2	days	Set to 0 or delete line for single app.
app. rate 19	apprate	1.09	kg/ha	
Interval 20	interval	2	days	Set to 0 or delete line for single app.
app. rate 20	apprate	1.09	kg/ha	
Interval 21	interval	2	days	Set to 0 or delete line for single app.
app. rate 21	apprate	1.09	kg/ha	
Interval 22	interval	2	days	Set to 0 or delete line for single app.
app. rate 22	apprate	1.09	kg/ha	
Interval 23	interval	2	days	Set to 0 or delete line for single app.
app. rate 23	apprate	1.09	kg/ha	
Interval 24	interval	2	days	Set to 0 or delete line for single app.
app. rate 24	apprate	1.09	kg/ha	
Interval 25	interval	2	days	Set to 0 or delete line for single app.
app. rate 25	apprate	1.09	kg/ha	
Record 17: FILTRA				
IPSCND	1			
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)