

APPENDIX H: Example PRZM/EXAMS Output Files.

Agricultural Crop Uses

Beans Dried

stored as Sen3.out

Chemical: BetaCyflurthrin

PRZM environment: CARowCropRLF_V2.txt modified Wedday, 26 March 2008 at 09:38:52

EXAMS environment: pond298.exv modified Tuesday, 26 August 2008 at 05:14:08

Metfile: w23234.dvf modified Tuesday, 26 August 2008 at 05:15:38

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
1961	0.01693	0.005279		0.002271		0.001259	0.001053	0.0006488
1962	0.01778	0.006217		0.003171		0.00216	0.002074	0.00162
1963	0.01905	0.007335		0.004666		0.003827	0.003579	0.002992
1964	0.02037	0.008428		0.005281		0.004158	0.003945	0.003518
1965	0.02052	0.008737		0.005634		0.004631	0.004413	0.003971
1966	0.02087	0.009248		0.006202		0.005209	0.00499	0.004532
1967	0.03254	0.01392	0.007973		0.007086		0.006824	0.006121
1968	0.02308	0.01136	0.008396		0.007257		0.007016	0.006477
1969	0.02321	0.01158	0.008542		0.007646		0.007406	0.006857
1970	0.02445	0.01203	0.00899	0.007947		0.007706	0.007193	
1971	0.02395	0.01231	0.009389		0.008288		0.008043	0.007461
1972	0.02395	0.01232	0.009288		0.008181		0.007953	0.007518
1973	0.02435	0.01275	0.009695		0.008786		0.008546	0.008035
1974	0.02674	0.0141	0.01059	0.009661		0.009387	0.008681	
1975	0.02534	0.01624	0.01153	0.01036	0.01005	0.009261		
1976	0.02581	0.01414	0.0111	0.009971		0.009728	0.009188	
1977	0.02613	0.01434	0.01138	0.01025	0.009986		0.009392	
1978	0.02634	0.0147	0.01228	0.01097	0.01066	0.009885		
1979	0.02651	0.01488	0.01184	0.01084	0.01059	0.01002		
1980	0.02779	0.01531	0.01217	0.01115	0.01088	0.01024		
1981	0.0268	0.01529	0.01214	0.01105	0.01079	0.01025		
1982	0.03081	0.01843	0.01372	0.01276	0.01246	0.01171		
1983	0.02873	0.01695	0.01399	0.0129	0.01264	0.01199		
1984	0.0284	0.01676	0.01374	0.0127	0.01244	0.01184		
1985	0.02822	0.01658	0.01356	0.01253	0.01227	0.01166		
1986	0.02852	0.01684	0.01436	0.01296	0.01264	0.01185		
1987	0.02817	0.01654	0.01351	0.01247	0.01222	0.0116		
1988	0.02787	0.01634	0.01324	0.01243	0.01217	0.01152		
1989	0.02842	0.01642	0.01328	0.0122	0.01194	0.01132		
1990	0.02767	0.01603	0.013	0.01197	0.01174	0.01112		

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			0.03254	0.01843	0.01436	0.01296	0.01264	0.01199
0.0645161290322581			0.03081	0.01695	0.01399	0.0129	0.01264	0.01185
0.0967741935483871			0.02873	0.01684	0.01374	0.01276	0.01246	0.01184
0.129032258064516			0.02852	0.01676	0.01372	0.0127	0.01244	0.01171
0.161290322580645			0.02842	0.01658	0.01356	0.01253	0.01227	0.01166
0.193548387096774			0.0284	0.01654	0.01351	0.01247	0.01222	0.0116
0.225806451612903			0.02822	0.01642	0.01328	0.01243	0.01217	0.01152
0.258064516129032			0.02817	0.01634	0.01324	0.0122	0.01194	0.01132
0.290322580645161			0.02787	0.01624	0.013	0.01197	0.01174	0.01112
0.32258064516129			0.02779	0.01603	0.01228	0.01115	0.01088	0.01025
0.354838709677419			0.02767	0.01531	0.01217	0.01105	0.01079	0.01024
0.387096774193548			0.0268	0.01529	0.01214	0.01097	0.01066	0.01002
0.419354838709677			0.02674	0.01488	0.01184	0.01084	0.01059	0.009885
0.451612903225806			0.02651	0.0147	0.01153	0.01036	0.01005	0.009392
0.483870967741936			0.02634	0.01434	0.01138	0.01025	0.009986	0.009261
0.516129032258065			0.02613	0.01414	0.0111	0.009971	0.009728	0.009188
0.548387096774194			0.02581	0.0141	0.01059	0.009661	0.009387	0.008681
0.580645161290323			0.02534	0.01392	0.009695	0.008786	0.008546	0.008035
0.612903225806452			0.02445	0.01275	0.009389	0.008288	0.008043	0.007518
0.645161290322581			0.02435	0.01232	0.009288	0.008181	0.007953	0.007461
0.67741935483871			0.02395	0.01231	0.00899	0.007947	0.007706	0.007193
0.709677419354839			0.02395	0.01203	0.008542	0.007646	0.007406	0.006857

0.741935483870968	0.02321	0.01158	0.008396	0.007257	0.007016	0.006477
0.774193548387097	0.02308	0.01136	0.007973	0.007086	0.006824	0.006121
0.806451612903226	0.02087	0.009248	0.006202	0.005209	0.00499	0.004532
0.838709677419355	0.02052	0.008737	0.005634	0.004631	0.004413	
0.003971						
0.870967741935484	0.02037	0.008428	0.005281	0.004158	0.003945	
0.003518						
0.903225806451613	0.01905	0.007335	0.004666	0.003827	0.003579	
0.002992						
0.935483870967742	0.01778	0.006217	0.003171	0.00216	0.002074	0.00162
0.967741935483871	0.01693	0.005279	0.002271	0.001259	0.001053	
0.0006488						
0.1	0.028709	0.016832	0.013738	0.012754	0.012458	0.011827
			Average of yearly averages:	0.00828236		

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: Sen3

Metfile: w23234.dvf

PRZM scenario: CARowCropRLF_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: BetaCyflurthrin

Description	Variable Name	Value	Units	Comments
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Molecular weight	mwt	434	g/mol	
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Henry's Law Const.	henry	3.7E-6	atm-m ³ /mol	
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Vapor Pressure	vapr	1.5E-8	torr	
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Solubility	sol	0.00232	mg/L	
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Kd	Kd		mg/L	
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Koc	Koc	107412	mg/L	
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Photolysis half-life	kdp	4.5	days	Half-life
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Aerobic Aquatic Metabolism	kbacw	51.5	days	Halfife
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Anaerobic Aquatic Metabolism	kbacs		days	Halfife
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Aerobic Soil Metabolism	asm	116.9	days	Halfife
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Hydrolysis:	pH 7		days	Half-life
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Method:	CAM	2	integer	See PRZM manual
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Incorporation Depth:	DEPI		cm	
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Application Rate:	TAPP	0.0246	kg/ha	
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Application Efficiency:	APPEFF	0.95	fraction	
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Spray Drift	DRFT	0.017	fraction of application rate applied to pond	
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Application Date	Date	4-3	dd/mm or dd/mm or dd-mm or dd-mmm	
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Interval 1	interval	14	days	Set to 0 or delete line for single app.
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app. rate 1	apprate	0.0246	kg/ha	
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Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run	IR	EPA Pond
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Flag for runoff calc.	RUNOFF	none	none, monthly or total(average of entire run)
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PEAS

stored as Sen4.out

Chemical: BetaCyflurthrin

PRZM environment: CARowCropRLF_V2.txt modified Wedday, 26 March 2008 at 09:38:52

EXAMS environment: pond298.exv modified Tuesday, 26 August 2008 at 05:14:08

Metfile: w23234.dvf modified Tuesday, 26 August 2008 at 05:15:38

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.0169	0.00527	0.002277		0.00127	0.001062
1962	0.01778	0.006137		0.003085		0.002147
1963	0.01892	0.007283		0.004896		0.003851
1964	0.01994	0.008293		0.005257		0.004137
1965	0.02028	0.008656		0.005615		0.00462
1966	0.02086	0.009285		0.006206		0.005204
1967	0.03278	0.01399	0.008422		0.007155	0.006874

1968	0.02295	0.01132	0.008398	0.007258	0.007015	0.006475
1969	0.02321	0.01158	0.008544	0.007658	0.007413	0.006858
1970	0.02356	0.012	0.008915	0.007917	0.007679	0.007181
1971	0.02419	0.01238	0.009422	0.008295	0.008046	0.007458
1972	0.02395	0.01236	0.009302	0.008179	0.00795	0.007517
1973	0.02436	0.01272	0.009685	0.008774	0.008531	0.008021
1974	0.02701	0.01418	0.01071	0.009689	0.009402	0.008672
1975	0.02869	0.01587	0.01121	0.01012	0.009823	0.009089
1976	0.02558	0.01394	0.01091	0.009785	0.009544	0.009012
1977	0.02575	0.01412	0.01124	0.01009	0.009829	0.009234
1978	0.03759	0.01768	0.01217	0.01085	0.01053	0.009739
1979	0.02638	0.01475	0.0119	0.01071	0.01046	0.009901
1980	0.02658	0.01495	0.01196	0.01097	0.01071	0.0101
1981	0.02667	0.01499	0.012	0.01091	0.01065	0.01011
1982	0.03096	0.01843	0.01414	0.01275	0.01242	0.01164
1983	0.0291	0.01703	0.01394	0.01285	0.01258	0.01194
1984	0.02835	0.01676	0.0137	0.01265	0.01238	0.01179
1985	0.02817	0.01654	0.01354	0.01248	0.01222	0.01162
1986	0.02843	0.01916	0.01441	0.01295	0.01262	0.01182
1987	0.02814	0.01651	0.01348	0.01245	0.01219	0.01157
1988	0.02787	0.01622	0.01323	0.01242	0.01216	0.0115
1989	0.02789	0.01625	0.01325	0.01218	0.01192	0.0113
1990	0.02764	0.01601	0.013	0.01196	0.01173	0.0111

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.03759	0.01916	0.01441	0.01295	0.01262	0.01194
0.0645161290322581	0.03278	0.01843	0.01414	0.01285	0.01258	0.01182
0.0967741935483871	0.03096	0.01768	0.01394	0.01275	0.01242	0.01179
0.129032258064516	0.0291	0.01703	0.0137	0.01265	0.01238	0.01164
0.161290322580645	0.02869	0.01676	0.01354	0.01248	0.01222	0.01162
0.193548387096774	0.02843	0.01654	0.01348	0.01245	0.01219	0.01157
0.225806451612903	0.02835	0.01651	0.01325	0.01242	0.01216	0.0115
0.258064516129032	0.02817	0.01625	0.01323	0.01218	0.01192	0.0113
0.290322580645161	0.02814	0.01622	0.013	0.01196	0.01173	0.0111
0.32258064516129	0.02789	0.01601	0.01217	0.01097	0.01071	0.01011
0.354838709677419	0.02787	0.01587	0.012	0.01091	0.01065	0.0101
0.387096774193548	0.02764	0.01499	0.01196	0.01085	0.01053	0.009901
0.419354838709677	0.02701	0.01495	0.0119	0.01071	0.01046	0.009739
0.451612903225806	0.02667	0.01475	0.01124	0.01012	0.009829	0.009234
0.483870967741936	0.02658	0.01418	0.01121	0.01009	0.009823	0.009089
0.516129032258065	0.02638	0.01412	0.01091	0.009785	0.009544	0.009012
0.548387096774194	0.02575	0.01399	0.01071	0.009689	0.009402	0.008672
0.580645161290323	0.02558	0.01394	0.009685	0.008774	0.008531	0.008021
0.612903225806452	0.02436	0.01272	0.009422	0.008295	0.008046	0.007517
0.645161290322581	0.02419	0.01238	0.009302	0.008179	0.00795	0.007458
0.67741935483871	0.02395	0.01236	0.008915	0.007917	0.007679	0.007181
0.709677419354839	0.02356	0.012	0.008544	0.007658	0.007413	0.006858
0.741935483870968	0.02321	0.01158	0.008422	0.007258	0.007015	0.006475
0.774193548387097	0.02295	0.01132	0.008398	0.007155	0.006874	0.00612
0.806451612903226	0.02086	0.009285	0.006206	0.005204	0.004982	
0.004519						
0.838709677419355	0.02028	0.008656	0.005615	0.00462	0.004401	0.003954
0.870967741935484	0.01994	0.008293	0.005257	0.004137	0.003924	
0.003499						
0.903225806451613	0.01892	0.007283	0.004896	0.003851	0.00359	0.002974
0.935483870967742	0.01778	0.006137	0.003085	0.002147	0.002059	
0.001596						
0.967741935483871	0.0169	0.00527	0.002277	0.00127	0.001062	0.0006458
0.1	0.030774	0.017615	0.013916	0.01274	0.012416	0.011775
Average of yearly averages:						0.0082318266666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: Sen4

Metfile: w23234.dvf

PRZM scenario: CARowCropRLF_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: BetaCyflurthrin

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	434	g/mol	
Henry's Law Const.	henry	3.7E-6	atm-m ³ /mol	
Vapor Pressure	vapr	1.5E-8	torr	
Solubility	sol	0.00232	mg/L	
Kd	Kd		mg/L	
Koc	Koc	107412	mg/L	
Photolysis half-life	kdp	4.5	days	Half-life
Aerobic Aquatic Metabolism	kbacw	51.5	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	116.9	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method: CAM	2	integer		See PRZM manual
Incorporation Depth:	DEPI		cm	
Application Rate:	TAPP	0.0246	kg/ha	
Application Efficiency:	APPEFF	0.95		fraction
Spray Drift	DRFT	0.017		fraction of application rate applied to pond
Application Date	Date	8-3	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	0.0246	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)

Peanuts

stored as Sen6.out

Chemical: BetaCyflurthrin

PRZM environment: CARowCropRLF_V2.txt modified Wedday, 26 March 2008 at 09:38:52

EXAMS environment: pond298.exv modified Tuesday, 26 August 2008 at 05:14:08

Metfile: w23234.dvf modified Tuesday, 26 August 2008 at 05:15:38

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
1961	0.01978	0.006497		0.003193		0.002012	0.0017	0.001089
1962	0.02251	0.009439		0.004682		0.003518	0.00338	0.00267
1963	0.02421	0.01043	0.00672	0.006079		0.005731	0.004889	
1964	0.02369	0.0111	0.007745		0.00673	0.006397	0.00573	
1965	0.02429	0.01164	0.008643		0.007482		0.007149	0.006467
1966	0.02523	0.01252	0.009592		0.008424		0.008088	0.007379
1967	0.05089	0.02201	0.01267	0.01121	0.01088	0.009911		
1968	0.02881	0.01649	0.01287	0.01176	0.01139	0.01053		
1969	0.02907	0.01632	0.01346	0.01239	0.01202	0.01115		
1970	0.02995	0.01697	0.01405	0.01285	0.01248	0.01168		
1971	0.03057	0.01761	0.01475	0.01345	0.01307	0.01215		
1972	0.03027	0.01754	0.01429	0.01331	0.01295	0.01225		
1973	0.03094	0.01821	0.01543	0.01431	0.01393	0.01311		
1974	0.04249	0.02267	0.01657	0.01564	0.01525	0.01417		
1975	0.03815	0.02188	0.01813	0.01675	0.01631	0.01514		
1976	0.03339	0.02077	0.01763	0.01652	0.01611	0.01515		
1977	0.04276	0.02361	0.01816	0.01695	0.01654	0.01556		
1978	0.04163	0.02527	0.01982	0.01803	0.01769	0.01646		
1979	0.03476	0.02204	0.01915	0.01795	0.01756	0.01665		
1980	0.03602	0.02248	0.01924	0.01844	0.01803	0.017		
1981	0.03806	0.02325	0.01952	0.01831	0.01791	0.01701		
1982	0.04895	0.02973	0.0223	0.02074	0.02035	0.01927		
1983	0.03829	0.02612	0.02248	0.02122	0.02087	0.01978		
1984	0.03774	0.02501	0.02177	0.0209	0.02049	0.0195		
1985	0.03742	0.02469	0.02184	0.02058	0.02019	0.01918		
1986	0.04158	0.02606	0.02319	0.0214	0.02091	0.01962		
1987	0.03746	0.02473	0.02185	0.02061	0.02021	0.0192		
1988	0.03695	0.02421	0.021	0.02041	0.02006	0.01904		
1989	0.03696	0.02439	0.02138	0.02012	0.01972	0.0187		
1990	0.03716	0.02401	0.02094	0.01972	0.01934	0.01835		

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly			
0.032258064516129			0.05089	0.02973	0.02319	0.0214	0.02091	0.01978	
0.0645161290322581			0.04895	0.02612	0.02248	0.02122	0.02087	0.01962	
0.0967741935483871			0.04276	0.02606	0.0223	0.0209	0.02049	0.0195	
0.129032258064516			0.04249	0.02527	0.02185	0.02074	0.02035	0.01927	
0.161290322580645			0.04163	0.02501	0.02184	0.02061	0.02021	0.0192	
0.193548387096774			0.04158	0.02473	0.02177	0.02058	0.02019	0.01918	
0.225806451612903			0.03829	0.02469	0.02138	0.02041	0.02006	0.01904	
0.258064516129032			0.03815	0.02439	0.021	0.02012	0.01972	0.0187	
0.290322580645161			0.03806	0.02421	0.02094	0.01972	0.01934	0.01835	
0.32258064516129			0.03774	0.02401	0.01982	0.01844	0.01803	0.01701	
0.354838709677419			0.03746	0.02361	0.01952	0.01831	0.01791	0.017	
0.387096774193548			0.03742	0.02325	0.01924	0.01803	0.01769	0.01665	
0.419354838709677			0.03716	0.02267	0.01915	0.01795	0.01756	0.01646	
0.451612903225806			0.03696	0.02248	0.01816	0.01695	0.01654	0.01556	
0.483870967741936			0.03695	0.02204	0.01813	0.01675	0.01631	0.01515	
0.516129032258065			0.03602	0.02201	0.01763	0.01652	0.01611	0.01514	
0.548387096774194			0.03476	0.02188	0.01657	0.01564	0.01525	0.01417	
0.580645161290323			0.03339	0.02077	0.01543	0.01431	0.01393	0.01311	
0.612903225806452			0.03094	0.01821	0.01475	0.01345	0.01307	0.01225	
0.645161290322581			0.03057	0.01761	0.01429	0.01331	0.01295	0.01215	
0.67741935483871			0.03027	0.01754	0.01405	0.01285	0.01248	0.01168	
0.709677419354839			0.02995	0.01697	0.01346	0.01239	0.01202	0.01115	
0.741935483870968			0.02907	0.01649	0.01287	0.01176	0.01139	0.01053	
0.774193548387097			0.02881	0.01632	0.01267	0.01121	0.01088	0.009911	
0.806451612903226			0.02523	0.01252	0.009592	0.008424	0.008088	0.007379	
0.838709677419355			0.02429	0.01164	0.008643	0.007482	0.007149	0.006467	
0.870967741935484			0.02421	0.0111	0.007745	0.00673	0.006397	0.00573	
0.903225806451613			0.02369	0.01043	0.00672	0.006079	0.005731	0.004889	
0.935483870967742			0.02251	0.009439	0.004682	0.003518	0.00338	0.00267	
0.967741935483871			0.01978	0.006497	0.003193	0.002012	0.0017	0.001089	

0.1	0.042733	0.025981	0.022255	0.020884	0.020476	0.019477
Average of yearly averages:					0.013626166666667	

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: Sen6

Metfile: w23234.dvf

PRZM scenario: CARowCropRLF_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: BetaCyflurthrin

Description	Variable Name	Value	Units	Comments
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Molecular weight	mwt	434	g/mol	
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Henry's Law Const.	henry	3.7E-6	atm-m ³ /mol	
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Vapor Pressure	vapr	1.5E-8	torr	
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Solubility	sol	0.00232	mg/L	
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Kd	Kd		mg/L	
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Koc	Koc	107412	mg/L	
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Photolysis half-life	kdp	4.5	days	Half-life
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Aerobic Aquatic Metabolism	kbacw	51.5	days	Halfife
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Anaerobic Aquatic Metabolism	kbacs		days	Halfife
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Aerobic Soil Metabolism	asm	116.9	days	Halfife
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Hydrolysis:	pH 7		days	Half-life
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Method: CAM	2	integer	See PRZM manual	
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Incorporation Depth:	DEPI		cm	
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Application Rate:	TAPP	0.0269	kg/ha	
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Application Efficiency:	APPEFF	0.95	fraction	
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Spray Drift	DRFT	0.017	fraction of application rate applied to pond	
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Application Date	Date	23-2	dd/mm or dd/mm or dd-mm or dd-mmm	
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Interval 1	interval	10	days	Set to 0 or delete line for single app.
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app. rate 1	apprate	0.0269	kg/ha	
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Interval 2	interval	10	days	Set to 0 or delete line for single app.
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app. rate 2	apprate	0.0269	kg/ha	
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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)

Non-Agricultural Uses

Golf Course

stored as Sen97.out
Chemical: BetaCyflurthrin
PRZM environment: CATurfRLF.txt modified Tuesday, 20 February 2007 at 12:03:48
EXAMS environment: pond298.exv modified Tuesday, 26 August 2008 at 05:14:08
Metfile: w23234.dvf modified Tuesday, 26 August 2008 at 05:15:38
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.08311	0.03247	0.0233	0.01979	0.01568	0.003867
1962	0.1048	0.05085	0.03766	0.03368	0.03	0.01767
1963	0.1095	0.05886	0.04921	0.04624	0.04226	0.03159
1964	0.1196	0.06888	0.05973	0.05658	0.05272	0.04243
1965	0.1282	0.07753	0.06898	0.06569	0.06205	0.05104
1966	0.1398	0.0876	0.07837	0.07501	0.07089	0.06076
1967	0.2752	0.134	0.09212	0.08857	0.08456	0.07565
1968	0.1583	0.1073	0.09775	0.09494	0.09117	0.08206
1969	0.1641	0.1145	0.1047	0.1013	0.09757	0.08885
1970	0.1715	0.1277	0.1127	0.1085	0.1043	0.095
1971	0.1749	0.1242	0.1147	0.112	0.1081	0.09967
1972	0.1805	0.129	0.1192	0.1165	0.1125	0.1032
1973	0.1885	0.1412	0.1292	0.1241	0.1199	0.1105
1974	0.1899	0.1392	0.1297	0.127	0.1233	0.1153
1975	0.1936	0.1429	0.1334	0.1306	0.1267	0.1187
1976	0.1958	0.1451	0.1355	0.1327	0.1296	0.121
1977	0.2035	0.1515	0.1403	0.1376	0.1335	0.1257
1978	0.2043	0.1536	0.1441	0.1413	0.1374	0.13
1979	0.2086	0.158	0.1494	0.1467	0.1428	0.1347
1980	0.2168	0.1621	0.1529	0.1498	0.1459	0.1386
1981	0.2154	0.1718	0.1558	0.1533	0.1497	0.1408
1982	0.4956	0.2545	0.1752	0.1689	0.1645	0.1569
1983	0.2324	0.1816	0.1725	0.1706	0.1668	0.1597
1984	0.2502	0.1833	0.1724	0.17	0.1658	0.1588
1985	0.2322	0.1815	0.1719	0.1692	0.1652	0.1583
1986	0.2334	0.1827	0.1731	0.1704	0.1665	0.1598
1987	0.232	0.1813	0.1724	0.1694	0.1655	0.159
1988	0.2306	0.1805	0.1708	0.1678	0.1642	0.1574
1989	0.2304	0.1794	0.1698	0.1671	0.1631	0.1562
1990	0.2293	0.1783	0.1687	0.1658	0.1619	0.1552

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129			0.4956	0.2545	0.1752	0.1706
0.0645161290322581			0.2752	0.1833	0.1731	0.1704
0.0967741935483871			0.2502	0.1827	0.1725	0.17
0.129032258064516			0.2334	0.1816	0.1724	0.1694
0.161290322580645			0.2324	0.1815	0.1724	0.1692
0.193548387096774			0.2322	0.1813	0.1719	0.1689
0.225806451612903			0.232	0.1805	0.1708	0.1678
0.258064516129032			0.2306	0.1794	0.1698	0.1671
0.290322580645161			0.2304	0.1783	0.1687	0.1658
0.32258064516129			0.2293	0.1718	0.1558	0.1533
0.354838709677419			0.2168	0.1621	0.1529	0.1498
0.387096774193548			0.2154	0.158	0.1494	0.1467
0.419354838709677			0.2086	0.1536	0.1441	0.1413
0.451612903225806			0.2043	0.1515	0.1403	0.1376
0.483870967741936			0.2035	0.1451	0.1355	0.1327
0.516129032258065			0.1958	0.1429	0.1334	0.1306
0.548387096774194			0.1936	0.1412	0.1297	0.127
0.580645161290323			0.1899	0.1392	0.1292	0.1241
0.612903225806452			0.1885	0.134	0.1192	0.1165

0.645161290322581	0.1805	0.129	0.1147	0.112	0.1081	0.09967
0.67741935483871	0.1749	0.1277	0.1127	0.1085	0.1043	0.095
0.709677419354839	0.1715	0.1242	0.1047	0.1013	0.09757	0.08885
0.741935483870968	0.1641	0.1145	0.09775	0.09494	0.09117	0.08206
0.774193548387097	0.1583	0.1073	0.09212	0.08857	0.08456	0.07565
0.806451612903226	0.1398	0.0876	0.07837	0.07501	0.07089	0.06076
0.838709677419355	0.1282	0.07753	0.06898	0.06569	0.06205	0.05104
0.870967741935484	0.1196	0.06888	0.05973	0.05658	0.05272	0.04243
0.903225806451613	0.1095	0.05886	0.04921	0.04624	0.04226	0.03159
0.935483870967742	0.1048	0.05085	0.03766	0.03368	0.03	0.01767
0.967741935483871	0.08311	0.03247	0.0233	0.01979	0.01568	0.003867

0.1 0.24852 0.18259 0.17249 0.16994 0.16577 0.15898
Average of yearly averages: 0.110279566666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: Sen97

Metfile: w23234.dvf

PRZM scenario: CATurfRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: BetaCyflurthrin

Description	Variable	Name	Value	Units	Comments
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Molecular weight	mwt		434	g/mol	
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Henry's Law Const.	henry		3.7E-6	atm-m^3/mol	
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Vapor Pressure	vapr		1.5E-8	torr	
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Solubility	sol		0.00232	mg/L	
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Kd	Kd			mg/L	
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Koc	Koc	107412		mg/L	
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Photolysis half-life	kdp		4.5	days	Half-life
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Aerobic Aquatic Metabolism	kbacw		51.5	days	Halfife
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Anaerobic Aquatic Metabolism	kbacs			days	Halfife
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Aerobic Soil Metabolism	asm		116.9	days	Halfife
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Hydrolysis:	pH 7			days	Half-life
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Method: CAM	2	integer	See PRZM manual		
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Incorporation Depth:	DEPI			cm	
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Application Rate:	TAPP		0.1071	kg/ha	
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Application Efficiency:	APPEFF		0.95	fraction	
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Spray Drift	DRFT		0.017	fraction of application rate applied to pond	
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Application Date	Date		15-10	dd/mm or dd/mmm 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	0.1071	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	0.1071	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	0.1071	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	0.1071	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	0.1071	kg/ha		
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Interval 6	interval		7	days	Set to 0 or delete line for single app.
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app. rate 6	apprate	0.1071	kg/ha		
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Interval 7	interval		7	days	Set to 0 or delete line for single app.
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app. rate 7	apprate	0.1071	kg/ha		
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Interval 8	interval		7	days	Set to 0 or delete line for single app.
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app. rate 8	apprate	0.1071	kg/ha		
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Interval 9	interval		7	days	Set to 0 or delete line for single app.
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app. rate 9	apprate	0.1071	kg/ha		
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Record 17: FILTRA

 IPSCND 1

 UPTKF

Record 18: PLVKRT

 PLDKRT

 FEXTRC 0.5

Flag for Index Res. Run	IR	EPA Pond
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Flag for runoff calc.	RUNOFF	none, monthly or total(average of entire run)
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Paved Areas

stored as Sen87cyfl.out

Chemical: Cyflurthrin

PRZM environment: CAImperviousRLF.txt modified Tuesday, 20 February 2007 at 12:05:44

EXAMS environment: pond298.exv modified Tuesday, 26 August 2008 at 05:14:08

Metfile: w23234.dvf modified Tuesday, 26 August 2008 at 05:15:38

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	59.69	21.77	6.206	2.728	1.827	0.4505
1962	12.46	4.678	2.59	1.99	1.779	1.487
1963	15.97	6.272	4.415	3.372	3.007	2.022
1964	28.74	13.4	5.959	4.391	3.781	2.802
1965	44.66	16.51	7.975	6.571	5.422	3.758
1966	47.83	17.64	9.748	7.783	6.756	5.323
1967	41.74	19.91	9.705	7.926	7.417	6.947
1968	22.97	11.77	8.577	8.058	7.654	7.162
1969	42.94	17.7	10.37	9.468	8.969	7.559
1970	26.26	15.44	11.14	9.793	9.21	8.265
1971	16.9	12.54	9.538	9.166	8.845	8.585
1972	32.93	15.74	11.73	10.43	9.886	8.744
1973	54.92	23.37	14.12	12.32	11.43	9.587
1974	41.66	19.77	12.23	11.45	11.09	10.41
1975	20.96	14.95	11.59	10.89	10.75	10.53
1976	60.47	27.28	13.89	12.76	11.77	10.56
1977	52.68	23.36	13.85	12.8	12.13	11.44
1978	20.95	14.63	12.31	11.81	11.68	11.41
1979	31.14	17.34	13.37	12.7	12.29	11.28
1980	68	28.67	15.57	12.75	12.16	11.57
1981	43.29	25.31	16.73	14.52	13.5	12.01
1982	27.8	17.33	14.03	13.68	13.17	12.51
1983	24.43	16.08	13.81	13.36	12.87	12.43
1984	38.64	19.7	14.6	13.86	13.41	12.41
1985	27.55	16.77	13.89	13.33	13.11	12.56
1986	23.85	15.45	13.49	12.73	12.66	12.31
1987	26.44	15.96	13.64	13.02	12.58	11.93
1988	35.39	19.28	13.21	12.37	12.04	11.8
1989	49.29	22.85	14.16	13.06	12.5	11.7
1990	36.36	19.3	14.3	13.06	12.81	12.22

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	68	28.67	16.73	14.52	13.5	12.56
0.0645161290322581	60.47	27.28	15.57	13.86	13.41	12.51
0.0967741935483871	59.69	25.31	14.6	13.68	13.17	12.43
0.129032258064516	54.92	23.37	14.3	13.36	13.11	12.41
0.161290322580645	52.68	23.36	14.16	13.33	12.87	12.31
0.193548387096774	49.29	22.85	14.12	13.06	12.81	12.22
0.225806451612903	47.83	21.77	14.03	13.06	12.66	12.01
0.258064516129032	44.66	19.91	13.89	13.02	12.58	11.93
0.290322580645161	43.29	19.77	13.89	12.8	12.5	11.8
0.32258064516129	42.94	19.7	13.85	12.76	12.29	11.7
0.354838709677419	41.74	19.3	13.81	12.75	12.16	11.57
0.387096774193548	41.66	19.28	13.64	12.73	12.13	11.44
0.419354838709677	38.64	17.7	13.49	12.7	12.04	11.41
0.451612903225806	36.36	17.64	13.37	12.37	11.77	11.28
0.483870967741936	35.39	17.34	13.21	12.32	11.68	10.56
0.516129032258065	32.93	17.33	12.31	11.81	11.43	10.53
0.548387096774194	31.14	16.77	12.23	11.45	11.09	10.41
0.580645161290323	28.74	16.51	11.73	10.89	10.75	9.587
0.612903225806452	27.8	16.08	11.59	10.43	9.886	8.744
0.645161290322581	27.55	15.96	11.14	9.793	9.21	8.585
0.67741935483871	26.44	15.74	10.37	9.468	8.969	8.265
0.709677419354839	26.26	15.45	9.748	9.166	8.845	7.559
0.741935483870968	24.43	15.44	9.705	8.058	7.654	7.162
0.774193548387097	23.85	14.95	9.538	7.926	7.417	6.947
0.806451612903226	22.97	14.63	8.577	7.783	6.756	5.323
0.838709677419355	20.96	13.4	7.975	6.571	5.422	3.758
0.870967741935484	20.95	12.54	6.206	4.391	3.781	2.802
0.903225806451613	16.9	11.77	5.959	3.372	3.007	2.022
0.935483870967742	15.97	6.272	4.415	2.728	1.827	1.487

0.967741935483871 12.46 4.678 2.59 1.99 1.779 0.4505
0.1 59.213 25.116 14.57 13.648 13.164 12.428
Average of yearly averages: 9.05905

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: Sen87cyfl

Metfile: w23234.dvf

PRZM scenario: CAImperviousRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: Cyflurthrin

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	434	g/mol	
Henry's Law Const.	henry	3.7E-6	atm-m ³ /mol	
Vapor Pressure	vapr	1.5E-8	torr	
Solubility	sol	0.00232	mg/L	
Kd	Kd		mg/L	
Koc	Koc	107412	mg/L	
Photolysis half-life	kdp	4.5	days	Half-life
Aerobic Aquatic Metabolism	kbacw	51.5	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	116.9	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method: CAM	2	integer		See PRZM manual
Incorporation Depth:	DEPI		cm	
Application Rate:	TAPP	0.4278	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.017	fraction of application rate applied to pond	
Application Date	Date	15-10	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	0.2139	kg/ha	
Interval 2	interval	7	days	Set to 0 or delete line for single app.
app. rate 2	apprate	0.2139	kg/ha	
Interval 3	interval	7	days	Set to 0 or delete line for single app.
app. rate 3	apprate	0.2139	kg/ha	
Interval 4	interval	7	days	Set to 0 or delete line for single app.
app. rate 4	apprate	0.2139	kg/ha	
Interval 5	interval	7	days	Set to 0 or delete line for single app.
app. rate 5	apprate	0.2139	kg/ha	
Interval 6	interval	7	days	Set to 0 or delete line for single app.
app. rate 6	apprate	0.2139	kg/ha	
Interval 7	interval	7	days	Set to 0 or delete line for single app.
app. rate 7	apprate	0.2139	kg/ha	
Interval 8	interval	7	days	Set to 0 or delete line for single app.
app. rate 8	apprate	0.2139	kg/ha	
Interval 9	interval	7	days	Set to 0 or delete line for single app.
app. rate 9	apprate	0.2139	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)	