

Appendix J. PRZM-EXAMS Modeling Results

1) Cole crops, aerial application

stored as CAcolecropA.out

Chemical: pendimethalin

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

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	2.664	1.649	0.618	0.3429	0.3058	0.1885
1962	2.791	1.775	0.7295	0.6172	0.5592	0.387
1963	2.931	1.913	0.8585	0.7469	0.7178	0.531
1964	3.039	2.021	1.214	0.8302	0.7516	0.5315
1965	3.045	2.023	0.9339	0.6442	0.5911	0.4536
1966	2.995	1.978	0.8915	0.6513	0.5881	0.4186
1967	4.026	2.782	1.576	1.096	1.012	0.719
1968	3.156	2.33	1.159	0.9214	0.8727	0.637
1969	3.108	2.091	1.299	0.9872	0.903	0.6444
1970	3.147	2.113	1.37	0.9474	0.8564	0.6045
1971	3.086	2.081	0.98	0.7026	0.6774	0.5019
1972	3.018	2.001	0.9067	0.6218	0.5617	0.4033
1973	3.489	2.299	1.298	0.9064	0.8145	0.5637
1974	3.067	2.046	0.9583	0.7006	0.6701	0.5034
1975	3.019	2.001	0.9052	0.7155	0.7006	0.5225
1976	3.045	2.026	0.9269	0.672	0.6183	0.449
1977	2.988	1.967	0.8679	0.5827	0.5237	0.3702
1978	3.013	1.961	1.09	0.798	0.7425	0.5248
1979	3.058	2.121	1.25	0.913	0.8377	0.592
1980	3.128	2.317	1.207	0.9278	0.8504	0.6098
1981	3.087	2.069	1.162	0.8614	0.7935	0.5712
1982	3.161	2.112	0.9928	0.7848	0.7801	0.6239
1983	3.122	2.105	1.287	0.9903	0.9442	0.6831
1984	3.131	2.113	1.016	0.7354	0.6756	0.4888
1985	3.008	1.991	0.8923	0.6815	0.6361	0.4597
1986	2.994	1.975	0.8768	0.7684	0.7561	0.5536
1987	3.06	2.039	0.9401	0.7338	0.6724	0.4801
1988	2.993	1.974	0.9468	0.6484	0.582	0.4042
1989	2.937	1.919	0.823	0.5545	0.5198	0.3679
1990	2.92	1.945	0.8682	0.5849	0.5217	0.3598

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	4.026	2.782	1.576	1.096	1.012	0.719
0.0645161290322581	3.489	2.33	1.37	0.9903	0.9442	0.6831
0.0967741935483871	3.161	2.317	1.299	0.9872	0.903	0.6444
0.129032258064516	3.156	2.299	1.298	0.9474	0.8727	0.637
0.161290322580645	3.147	2.121	1.287	0.9278	0.8564	0.6239
0.193548387096774	3.131	2.113	1.25	0.9214	0.8504	0.6098
0.225806451612903	3.128	2.113	1.214	0.913	0.8377	0.6045
0.258064516129032	3.122	2.112	1.207	0.9064	0.8145	0.592
0.290322580645161	3.108	2.105	1.162	0.8614	0.7935	0.5712

0.32258064516129	3.087	2.091	1.159	0.8302	0.7801	0.5637
0.354838709677419	3.086	2.081	1.09	0.798	0.7561	0.5536
0.387096774193548	3.067	2.069	1.016	0.7848	0.7516	0.5315
0.419354838709677	3.06	2.046	0.9928	0.7684	0.7425	0.531
0.451612903225806	3.058	2.039	0.98	0.7469	0.7178	0.5248
0.483870967741936	3.045	2.026	0.9583	0.7354	0.7006	0.5225
0.516129032258065	3.045	2.023	0.9468	0.7338	0.6774	0.5034
0.548387096774194	3.039	2.021	0.9401	0.7155	0.6756	0.5019
0.580645161290323	3.019	2.001	0.9339	0.7026	0.6724	0.4888
0.612903225806452	3.018	2.001	0.9269	0.7006	0.6701	0.4801
0.645161290322581	3.013	1.991	0.9067	0.6815	0.6361	0.4597
0.67741935483871	3.008	1.978	0.9052	0.672	0.6183	0.4536
0.709677419354839	2.995	1.975	0.8923	0.6513	0.5911	0.449
0.741935483870968	2.994	1.974	0.8915	0.6484	0.5881	0.4186
0.774193548387097	2.993	1.967	0.8768	0.6442	0.582	0.4042
0.806451612903226	2.988	1.961	0.8682	0.6218	0.5617	0.4033
0.838709677419355	2.937	1.945	0.8679	0.6172	0.5592	0.387
0.870967741935484	2.931	1.919	0.8585	0.5849	0.5237	0.3702
0.903225806451613	2.92	1.913	0.823	0.5827	0.5217	0.3679
0.935483870967742	2.791	1.775	0.7295	0.5545	0.5198	0.3598
0.967741935483871	2.664	1.649	0.618	0.3429	0.3058	0.1885
0.1	3.1605	2.3152	1.2989	0.98322	0.89997	0.64366
Average of yearly averages:						0.5049333333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAColecropA

Metfile: w23234.dvf

PRZM scenario: CAColeCropRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	281.3	g/mol	
Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	3E-5	torr	
Solubility	sol	3.75	mg/L	
Kd	Kd		mg/L	
Koc	Koc	17040	mg/L	
Photolysis half-life	kdp	42	days	Half-life
Aerobic Aquatic Metabolism	kbacw	330	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife
Aerobic Soil Metabolism	asm	172	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	1	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	1.11	kg/ha	
Application Efficiency:	APPEFF	.95		fraction
Spray Drift	DRFT	.05		fraction of application rate applied to pond
Application Date	Date	09-01 dd/mm or dd/mm or dd-mm or dd-mmm		

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)

2) Citrus crops, ground application

stored as citrusG.out

Chemical: pendimethalin

PRZM environment: CACitrus_WirrigSTD.txt modified Tuesday, 29 May 2007 at
 12:41:26

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

Metfile: w23155.dvf modified Wedday, 3 July 2002 at 09:04:20

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	3.218	1.993	0.6682	0.3323	0.2693	0.1433
1962	3.291	2.064	0.7394	0.5725	0.492	0.2935
1963	3.381	2.154	0.828	0.5768	0.5154	0.3218
1964	3.404	2.177	0.8508	0.5126	0.4465	0.2752
1965	3.37	2.143	0.8171	0.4787	0.4279	0.2644
1966	3.369	2.141	0.8148	0.5136	0.4433	0.2682
1967	3.367	2.14	0.8737	0.5128	0.442	0.2678
1968	3.361	2.135	0.8094	0.4721	0.4098	0.2448
1969	3.351	2.125	0.7991	0.4767	0.4115	0.2448
1970	3.346	2.118	0.792	0.4725	0.4046	0.241
1971	3.345	2.119	0.7929	0.4546	0.3893	0.2364
1972	3.348	2.121	0.7954	0.4573	0.3911	0.2352
1973	3.347	2.119	0.9488	0.5428	0.465	0.2726
1974	3.361	2.133	0.8074	0.4878	0.4433	0.2684
1975	3.362	2.136	0.81	0.4788	0.4118	0.2478
1976	3.351	2.123	0.7974	0.4702	0.4028	0.2404
1977	3.346	2.119	0.7933	0.4544	0.4005	0.2407
1978	8.036	6.058	2.358	1.371	1.174	0.6798
1979	3.584	2.355	1.032	0.6858	0.6148	0.3919
1980	3.427	2.2	0.8806	0.5364	0.4691	0.289
1981	3.376	2.149	0.8278	0.4939	0.4297	0.2582
1982	3.355	2.128	0.8022	0.4648	0.4055	0.241
1983	3.347	2.12	0.9496	0.5859	0.5025	0.3001
1984	3.382	2.156	0.8294	0.49	0.4238	0.2533
1985	3.355	2.129	0.8035	0.4649	0.3996	0.2377
1986	3.35	2.123	0.7972	0.4584	0.393	0.2305
1987	3.354	2.124	0.7944	0.4554	0.3899	0.2316
1988	3.345	2.111	0.788	0.4537	0.3887	0.2398
1989	3.35	2.118	0.7931	0.4769	0.4088	0.2464
1990	3.354	2.122	0.7973	0.4604	0.3953	0.2375

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	8.036	6.058	2.358	1.371	1.174	0.6798
0.0645161290322581	3.584	2.355	1.032	0.6858	0.6148	0.3919
0.0967741935483871	3.427	2.2	0.9496	0.5859	0.5154	0.3218
0.129032258064516	3.404	2.177	0.9488	0.5768	0.5025	0.3001
0.161290322580645	3.382	2.156	0.8806	0.5725	0.492	0.2935
0.193548387096774	3.381	2.154	0.8737	0.5428	0.4691	0.289

0.225806451612903	3.376	2.149	0.8508	0.5364	0.465	0.2752
0.258064516129032	3.37	2.143	0.8294	0.5136	0.4465	0.2726
0.290322580645161	3.369	2.141	0.828	0.5128	0.4433	0.2684
0.32258064516129	3.367	2.14	0.8278	0.5126	0.4433	0.2682
0.354838709677419	3.362	2.136	0.8171	0.4939	0.442	0.2678
0.387096774193548	3.361	2.135	0.8148	0.49	0.4297	0.2644
0.419354838709677	3.361	2.133	0.81	0.4878	0.4279	0.2582
0.451612903225806	3.355	2.129	0.8094	0.4788	0.4238	0.2533
0.483870967741936	3.355	2.128	0.8074	0.4787	0.4118	0.2478
0.516129032258065	3.354	2.125	0.8035	0.4769	0.4115	0.2464
0.548387096774194	3.354	2.124	0.8022	0.4767	0.4098	0.2448
0.580645161290323	3.351	2.123	0.7991	0.4725	0.4088	0.2448
0.612903225806452	3.351	2.123	0.7974	0.4721	0.4055	0.241
0.645161290322581	3.35	2.122	0.7973	0.4702	0.4046	0.241
0.67741935483871	3.35	2.121	0.7972	0.4649	0.4028	0.2407
0.709677419354839	3.348	2.12	0.7954	0.4648	0.4005	0.2404
0.741935483870968	3.347	2.119	0.7944	0.4604	0.3996	0.2398
0.774193548387097	3.347	2.119	0.7933	0.4584	0.3953	0.2377
0.806451612903226	3.346	2.119	0.7931	0.4573	0.393	0.2375
0.838709677419355	3.346	2.118	0.7929	0.4554	0.3911	0.2364
0.870967741935484	3.345	2.118	0.792	0.4546	0.3899	0.2352
0.903225806451613	3.345	2.111	0.788	0.4544	0.3893	0.2316
0.935483870967742	3.291	2.064	0.7394	0.4537	0.3887	0.2305
0.967741935483871	3.218	1.993	0.6682	0.3323	0.2693	0.1433
0.1	3.4247	2.1977	0.94952	0.58499	0.51411	0.31963
Average of yearly averages:						0.271436666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: citrusG

Metfile: w23155.dvf

PRZM scenario: CACitrus_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable	Name	Value	Units	Comments
Molecular weight	mwt	281.3	g/mol		
Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol	
Vapor Pressure	vapr	3E-5	torr		
Solubility	sol	3.75	mg/L		
Kd	Kd		mg/L		
Koc	Koc	17040	mg/L		
Photolysis half-life	kdp	42	days		Half-life
Aerobic Aquatic Metabolism	kbacw	330	days		Halfife
Anaerobic Aquatic Metabolism	kbacs	208	days		Halfife
Aerobic Soil Metabolism	asm	172	days		Halfife
Hydrolysis: pH 7	0		days		Half-life
Method:	CAM	1	integer		See PRZM manual
Incorporation Depth:	DEPI	4	cm		
Application Rate:	TAPP	6.703	kg/ha		
Application Efficiency:	APPEFF	.99			fraction
Spray Drift	DRFT	.01			fraction of application rate applied to pond
Application Date	Date	09-01			dd/mm or dd/mm or dd-mm or dd-mmm
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)

3) Grapes, ground application

stored as grapesG.out

Chemical: pendimethalin

PRZM environment: CAgapes_WirrigSTD.txt modified Tuesday, 29 May 2007 at 12:42:54

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	3.142	2.311	0.8558	0.4368	0.3579	0.1887
1962	3.252	2.153	1.135	0.7535	0.6487	0.3809
1963	3.367	2.169	1.32	0.8093	0.7261	0.4529
1964	3.419	2.221	0.9252	0.5927	0.5263	0.3444
1965	3.352	2.153	0.8578	0.6316	0.5658	0.366
1966	3.372	2.175	0.8788	0.5456	0.4792	0.3026
1967	4.102	2.616	1.045	0.6229	0.5687	0.3552
1968	3.35	2.153	0.8568	0.5268	0.4672	0.2964
1969	11.85	7.533	2.957	1.959	1.706	0.9978
1970	3.769	2.561	1.252	0.9697	0.8905	0.6108
1971	3.513	2.315	1.017	0.6814	0.6244	0.422
1972	3.404	2.206	0.9099	0.5751	0.5076	0.3254
1973	3.343	2.144	0.9477	0.6244	0.5486	0.3364
1974	3.346	2.147	0.8517	0.5191	0.4558	0.2847
1975	3.309	2.112	0.8167	0.4851	0.4209	0.2603
1976	3.299	2.103	1.236	0.7814	0.676	0.4143
1977	3.405	2.207	0.9106	0.5799	0.5133	0.3269
1978	3.349	2.146	1.131	0.7792	0.7094	0.4358
1979	3.401	2.202	0.9056	0.5793	0.511	0.3207
1980	3.345	2.14	0.8447	0.7303	0.6416	0.3948
1981	3.382	2.201	1.248	0.7618	0.6661	0.3996
1982	3.371	2.173	0.8773	0.564	0.5114	0.3341
1983	5.233	3.396	1.773	1.074	0.9295	0.5768
1984	3.474	2.277	0.9811	0.6438	0.5746	0.3662
1985	3.348	2.153	0.8583	0.525	0.4591	0.2806
1986	3.302	2.104	1.078	0.7339	0.6363	0.3763
1987	3.368	2.169	0.8776	0.5498	0.4821	0.3039
1988	3.318	2.12	0.8245	0.5004	0.45	0.2816
1989	3.307	2.111	0.8157	0.4873	0.428	0.2621
1990	3.31	2.11	0.8201	0.4841	0.4195	0.2706

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	11.85	7.533	2.957	1.959	1.706	0.9978
0.0645161290322581	5.233	3.396	1.773	1.074	0.9295	0.6108
0.0967741935483871	4.102	2.616	1.32	0.9697	0.8905	0.5768
0.129032258064516	3.769	2.561	1.252	0.8093	0.7261	0.4529

0.161290322580645	3.513	2.315	1.248	0.7814	0.7094	0.4358
0.193548387096774	3.474	2.311	1.236	0.7792	0.676	0.422
0.225806451612903	3.419	2.277	1.135	0.7618	0.6661	0.4143
0.258064516129032	3.405	2.221	1.131	0.7535	0.6487	0.3996
0.290322580645161	3.404	2.207	1.078	0.7339	0.6416	0.3948
0.32258064516129	3.401	2.206	1.045	0.7303	0.6363	0.3809
0.354838709677419	3.382	2.202	1.017	0.6814	0.6244	0.3763
0.387096774193548	3.372	2.201	0.9811	0.6438	0.5746	0.3662
0.419354838709677	3.371	2.175	0.9477	0.6316	0.5687	0.366
0.451612903225806	3.368	2.173	0.9252	0.6244	0.5658	0.3552
0.483870967741936	3.367	2.169	0.9106	0.6229	0.5486	0.3444
0.516129032258065	3.352	2.169	0.9099	0.5927	0.5263	0.3364
0.548387096774194	3.35	2.153	0.9056	0.5799	0.5133	0.3341
0.580645161290323	3.349	2.153	0.8788	0.5793	0.5114	0.3269
0.612903225806452	3.348	2.153	0.8776	0.5751	0.511	0.3254
0.645161290322581	3.346	2.153	0.8773	0.564	0.5076	0.3207
0.67741935483871	3.345	2.147	0.8583	0.5498	0.4821	0.3039
0.709677419354839	3.343	2.146	0.8578	0.5456	0.4792	0.3026
0.741935483870968	3.318	2.144	0.8568	0.5268	0.4672	0.2964
0.774193548387097	3.31	2.14	0.8558	0.525	0.4591	0.2847
0.806451612903226	3.309	2.12	0.8517	0.5191	0.4558	0.2816
0.838709677419355	3.307	2.112	0.8447	0.5004	0.45	0.2806
0.870967741935484	3.302	2.111	0.8245	0.4873	0.428	0.2706
0.903225806451613	3.299	2.11	0.8201	0.4851	0.4209	0.2621
0.935483870967742	3.252	2.104	0.8167	0.4841	0.4195	0.2603
0.967741935483871	3.142	2.103	0.8157	0.4368	0.3579	0.1887
0.1	4.0687	2.6105	1.3132	0.95366	0.87406	0.56441
Average of yearly averages:					0.375626666666667	

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: grapesG

Metfile: w93193.dvf

PRZM scenario: CAgapes_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	281.3	g/mol	
Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	3E-5	torr	
Solubility	sol	3.75	mg/L	
Kd	Kd		mg/L	
Koc	Koc	17040	mg/L	
Photolysis half-life	kdp	42	days	Half-life
Aerobic Aquatic Metabolism	kbacw	330	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife
Aerobic Soil Metabolism	asm	172	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	1	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	6.546	kg/ha	
Application Efficiency:	APPEFF	.99		fraction
Spray Drift	DRFT	.01		fraction of application rate applied to pond
Application Date	Date	24-01	dd/mm or dd/mm or dd-mm or dd-mmm	
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)

4) Potatoes, aerial application

stored as CApotatoA.out
 Chemical: pendimethalin
 PRZM environment: CAPotatoRLF.txt modified Tuesday, 20 February 2007 at
 12:05:00
 EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at
 16:33:30
 Metfile: w23155.dvf modified Wedday, 3 July 2002 at 09:04:20
 Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	3.992	2.469	0.826	0.4094	0.3305	0.1567
1962	4.073	2.55	1.057	0.5697	0.4745	0.2513
1963	4.129	2.604	0.9595	0.5387	0.4674	0.2723
1964	4.149	2.626	0.9811	0.5606	0.4876	0.2828
1965	4.148	2.624	0.9799	0.6061	0.5189	0.301
1966	4.163	2.639	0.9945	0.5733	0.4897	0.2817
1967	4.148	2.626	0.9815	0.5606	0.4797	0.2825
1968	4.144	2.622	0.9763	0.5643	0.4797	0.2714
1969	4.139	2.617	1.052	0.6025	0.5114	0.2821
1970	4.137	2.612	0.9677	0.5464	0.465	0.2577
1971	4.124	2.601	0.9568	0.5361	0.4564	0.2597
1972	4.133	2.609	0.9644	0.5423	0.4601	0.2593
1973	4.132	2.606	0.9611	0.5591	0.4819	0.2656
1974	4.13	2.608	0.9631	0.5751	0.4889	0.2715
1975	4.136	2.613	0.9678	0.5466	0.4692	0.2645
1976	4.132	2.607	0.9621	0.5418	0.4606	0.2585
1977	4.128	2.603	0.9584	0.5434	0.4615	0.2625
1978	4.125	2.601	0.956	0.5382	0.4556	0.2503
1979	4.121	2.599	0.9663	0.5423	0.4587	0.2522
1980	4.122	2.598	0.9534	0.5492	0.4653	0.2612
1981	4.132	2.61	0.9653	0.5646	0.4818	0.2664
1982	4.13	2.607	0.9623	0.548	0.4662	0.2599
1983	4.131	2.608	0.9681	0.5585	0.481	0.273
1984	4.141	2.618	0.9736	0.5528	0.4785	0.2723
1985	4.141	2.62	0.9747	0.5541	0.4733	0.2701
1986	4.143	2.62	0.975	0.5696	0.4847	0.2781
1987	4.149	2.626	0.9812	0.5599	0.4765	0.2765
1988	4.145	2.614	0.9707	0.551	0.4742	0.27
1989	4.135	2.605	0.962	0.5426	0.4602	0.2675
1990	4.139	2.609	0.9661	0.5467	0.4643	0.2618

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	4.163	2.639	1.057	0.6061	0.5189	0.301
0.0645161290322581	4.149	2.626	1.052	0.6025	0.5114	0.2828

0.0967741935483871	4.149	2.626	0.9945	0.5751	0.4897	
0.2825						
0.129032258064516	4.148	2.626	0.9815	0.5733	0.4889	0.2821
0.161290322580645	4.148	2.624	0.9812	0.5697	0.4876	0.2817
0.193548387096774	4.145	2.622	0.9811	0.5696	0.4847	0.2781
0.225806451612903	4.144	2.62	0.9799	0.5646	0.4819	0.2765
0.258064516129032	4.143	2.62	0.9763	0.5643	0.4818	0.273
0.290322580645161	4.141	2.618	0.975	0.5606	0.481	0.2723
0.32258064516129	4.141	2.617	0.9747	0.5606	0.4797	0.2723
0.354838709677419	4.139	2.614	0.9736	0.5599	0.4797	0.2715
0.387096774193548	4.139	2.613	0.9707	0.5591	0.4785	0.2714
0.419354838709677	4.137	2.612	0.9681	0.5585	0.4765	0.2701
0.451612903225806	4.136	2.61	0.9678	0.5541	0.4745	0.27
0.483870967741936	4.135	2.609	0.9677	0.5528	0.4742	0.2675
0.516129032258065	4.133	2.609	0.9663	0.551	0.4733	0.2664
0.548387096774194	4.132	2.608	0.9661	0.5492	0.4692	0.2656
0.580645161290323	4.132	2.608	0.9653	0.548	0.4674	0.2645
0.612903225806452	4.132	2.607	0.9644	0.5467	0.4662	0.2625
0.645161290322581	4.131	2.607	0.9631	0.5466	0.4653	0.2618
0.67741935483871	4.13	2.606	0.9623	0.5464	0.465	0.2612
0.709677419354839	4.13	2.605	0.9621	0.5434	0.4643	0.2599
0.741935483870968	4.129	2.604	0.962	0.5426	0.4615	0.2597
0.774193548387097	4.128	2.603	0.9611	0.5423	0.4606	0.2593
0.806451612903226	4.125	2.601	0.9595	0.5423	0.4602	0.2585
0.838709677419355	4.124	2.601	0.9584	0.5418	0.4601	0.2577
0.870967741935484	4.122	2.599	0.9568	0.5387	0.4587	0.2522
0.903225806451613	4.121	2.598	0.956	0.5382	0.4564	0.2513
0.935483870967742	4.073	2.55	0.9534	0.5361	0.4556	0.2503
0.967741935483871	3.992	2.469	0.826	0.4094	0.3305	0.1567

0.1 4.1489 2.626 0.9932 0.57492 0.48962 0.28246
Average of yearly averages: 0.26468

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAPotatoA

Metfile: w23155.dvf

PRZM scenario: CAPotatoRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description Variable Name Value Units Comments

Molecular weight mwt 281.3 g/mol

Henry's Law Const. henry 8.6E-7 atm-m³/mol

Vapor Pressure vapr 3E-5 torr

Solubility sol 3.75 mg/L

Kd Kd mg/L

Koc Koc 17040 mg/L

Photolysis half-life kdp 42 days Half-life

Aerobic Aquatic Metabolism kbacw 330 days Halfife

Anaerobic Aquatic Metabolism kbacs 208 days Halfife

Aerobic Soil Metabolism asm 172 days Halfife

Hydrolysis: pH 7 0 days Half-life

Method: CAM 1 integer See PRZM manual

Incorporation Depth: DEPI 4 cm

Application Rate: TAPP 1.663 kg/ha

Application Efficiency: APPEFF .95 fraction

Spray Drift DRFT .05 fraction of application rate applied to pond
 Application Date Date 09-02 dd/mm or dd/mm or dd-mm or dd-mm
 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)

5) Tomatoes, aerial application

stored as CATomatoA.out
 Chemical: pendimethalin
 PRZM environment: CATomato_WirrigSTD.txt modified Tuesday, 29 May 2007 at
 12:43:54
 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	3.992	2.469	0.8262	0.4103	0.3323	0.1585
1962	4.105	2.58	0.9321	0.5136	0.4312	0.2376
1963	4.141	2.616	0.9693	0.5843	0.504	0.2929
1964	4.172	2.65	1.005	0.5833	0.5006	0.2965
1965	4.17	2.647	1.058	0.658	0.5638	0.3303
1966	4.196	2.674	1.028	0.6041	0.5188	0.3077
1967	4.179	2.658	1.024	0.6274	0.5469	0.3201
1968	4.181	2.658	1.011	0.6035	0.5175	0.3053
1969	4.213	3.178	1.449	0.8563	0.7328	0.4237
1970	4.252	2.728	1.185	0.7149	0.6205	0.3764
1971	4.216	2.692	1.048	0.633	0.5506	0.3349
1972	4.195	2.673	1.026	0.602	0.5174	0.3081
1973	4.185	2.661	1.038	0.6181	0.5304	0.3097
1974	4.177	2.655	1.015	0.5958	0.5111	0.2994
1975	4.168	2.645	1.001	0.5811	0.499	0.2951
1976	4.185	2.661	1.014	0.5921	0.5092	0.3083
1977	4.184	2.661	1.015	0.5973	0.5128	0.3004
1978	4.182	2.656	1.065	0.6479	0.5578	0.324
1979	4.217	2.681	1.025	0.5986	0.5127	0.2963
1980	4.229	2.68	1.043	0.602	0.514	0.2964
1981	4.165	2.642	0.9969	0.5867	0.5023	0.2843
1982	4.152	2.63	0.9857	0.6019	0.5147	0.3022
1983	4.197	2.673	1.107	0.6632	0.5871	0.3465
1984	4.191	2.669	1.023	0.5987	0.5139	0.2949
1985	4.155	2.635	0.9892	0.5668	0.4823	0.2731
1986	4.163	2.634	1.012	0.604	0.5137	0.2902
1987	4.163	2.639	1.011	0.5859	0.5029	0.2889
1988	4.158	2.637	1.016	0.5927	0.5122	0.2934
1989	4.163	2.642	1.022	0.6038	0.5166	0.2956
1990	4.169	2.646	1.001	0.578	0.4973	0.2924

Sorted results

Prob. Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	4.252	3.178	1.449	0.8563	0.7328
0.0645161290322581		4.229	2.728	1.185	0.7149
0.0967741935483871		4.217	2.692	1.107	0.6632
0.129032258064516	4.216	2.681	1.065	0.658	0.5638
0.161290322580645	4.213	2.68	1.058	0.6479	0.5578
0.193548387096774	4.197	2.674	1.048	0.633	0.5506
0.225806451612903	4.196	2.673	1.043	0.6274	0.5469
0.258064516129032	4.195	2.673	1.038	0.6181	0.5304
0.290322580645161	4.191	2.669	1.028	0.6041	0.5188
0.32258064516129	4.185	2.661	1.026	0.604	0.5175
0.354838709677419	4.185	2.661	1.025	0.6038	0.5174
0.387096774193548	4.184	2.661	1.024	0.6035	0.5166
0.419354838709677	4.182	2.658	1.023	0.602	0.5147
0.451612903225806	4.181	2.658	1.022	0.602	0.514
0.483870967741936	4.179	2.656	1.016	0.6019	0.5139
0.516129032258065	4.177	2.655	1.015	0.5987	0.5137
0.548387096774194	4.172	2.65	1.015	0.5986	0.5128
0.580645161290323	4.17	2.647	1.014	0.5973	0.5127
0.612903225806452	4.169	2.646	1.012	0.5958	0.5122
0.645161290322581	4.168	2.645	1.011	0.5927	0.5111
0.67741935483871	4.165	2.642	1.011	0.5921	0.5092
0.709677419354839	4.163	2.642	1.005	0.5867	0.504
0.741935483870968	4.163	2.639	1.001	0.5859	0.5029
0.774193548387097	4.163	2.637	1.001	0.5843	0.5023
0.806451612903226	4.158	2.635	0.9969	0.5833	0.5006
0.838709677419355	4.155	2.634	0.9892	0.5811	0.499
0.870967741935484	4.152	2.63	0.9857	0.578	0.4973
0.903225806451613	4.141	2.616	0.9693	0.5668	0.4823
0.935483870967742	4.105	2.58	0.9321	0.5136	0.4312
0.967741935483871	3.992	2.469	0.8262	0.4103	0.3323
0.1	4.2169	2.6909	1.1028	0.66268	0.58477
Average of yearly averages:					0.30277

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAtomatoA

Metfile: w93193.dvf

PRZM scenario: CAtomato_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	281.3	g/mol	
Henry's Law Const.	henry	8.6E-7	atm-m ³ /mol	
Vapor Pressure	vapr	3E-5	torr	
Solubility	sol	3.75	mg/L	
Kd	Kd		mg/L	
Koc	Koc	17040	mg/L	
Photolysis half-life	kdp	42	days	Half-life
Aerobic Aquatic Metabolism	kbacw	330	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife
Aerobic Soil Metabolism	asm	172	days	Halfife
Hydrolysis: pH 7	0	days	Half-life	
Method:	CAM	1	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	

Application Rate: TAPP 1.663 kg/ha
 Application Efficiency: APPEFF .95 fraction
 Spray Drift DRFT .05 fraction of application rate applied to pond
 Application Date Date 21-02 dd/mm or dd/mm or dd-mm or dd-mm
 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)

6) Melons, aerial application

stored as CAmelonA.out
 Chemical: pendimethalin
 PRZM environment: CAmelonsRLF.txt modified Tuesday, 20 February 2007 at 12:05:32
 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	3.992	2.465	0.8222	0.4025	0.3274	0.1315
1962	4.109	2.582	0.9366	0.5118	0.4323	0.2363
1963	4.171	2.643	0.9964	0.5688	0.4866	0.2912
1964	4.178	2.65	1.004	0.5762	0.4981	0.2966
1965	4.187	2.657	1.01	0.583	0.4995	0.3016
1966	4.178	2.65	1.002	0.5718	0.4891	0.2907
1967	4.185	2.657	1.009	0.5806	0.4958	0.2927
1968	4.166	2.637	0.9905	0.5617	0.4802	0.2885
1969	4.244	2.714	1.066	0.6342	0.5487	0.3574
1970	4.232	2.703	1.054	0.6214	0.5341	0.3381
1971	4.19	2.662	1.021	0.5917	0.5072	0.3034
1972	4.177	2.648	1.001	0.5786	0.493	0.2986
1973	4.202	2.673	1.025	0.592	0.5061	0.3113
1974	4.19	2.661	1.014	0.5831	0.4985	0.2998
1975	4.175	2.647	1	0.5716	0.4908	0.2914
1976	4.202	2.674	1.026	0.5961	0.5121	0.3275
1977	4.207	2.678	1.032	0.6005	0.5198	0.3168
1978	4.217	2.687	1.039	0.6073	0.5221	0.3241
1979	4.185	2.654	1.007	0.5765	0.492	0.2931
1980	4.178	2.648	1.002	0.5742	0.4904	0.2919
1981	4.177	2.646	0.9994	0.5675	0.4835	0.2851
1982	4.177	2.648	1.001	0.5724	0.4908	0.2956
1983	4.221	2.691	1.043	0.6111	0.5254	0.3299
1984	4.178	2.646	0.9978	0.567	0.481	0.2809
1985	4.15	2.621	0.9748	0.5448	0.459	0.2633
1986	4.173	2.643	0.9959	0.5648	0.4786	0.2822
1987	4.163	2.634	0.9868	0.5562	0.4736	0.278
1988	4.16	2.633	0.9869	0.5585	0.4751	0.2735
1989	4.16	2.63	0.9838	0.5552	0.4735	0.2776
1990	4.173	2.645	1.043	0.6211	0.5277	0.3047

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	4.244	2.714	1.066	0.6342	0.5487	0.3574
0.0645161290322581	4.232	2.703	1.054	0.6214	0.5341	0.3381
0.0967741935483871	4.221	2.691	1.043	0.6211	0.5277	0.3299
0.129032258064516	4.217	2.687	1.043	0.6111	0.5254	0.3275
0.161290322580645	4.207	2.678	1.039	0.6073	0.5221	0.3241
0.193548387096774	4.202	2.674	1.032	0.6005	0.5198	0.3168
0.225806451612903	4.202	2.673	1.026	0.5961	0.5121	0.3113
0.258064516129032	4.19	2.662	1.025	0.592	0.5072	0.3047
0.290322580645161	4.19	2.661	1.021	0.5917	0.5061	0.3034
0.32258064516129	4.187	2.657	1.014	0.5831	0.4995	0.3016
0.354838709677419	4.185	2.657	1.01	0.583	0.4985	0.2998
0.387096774193548	4.185	2.654	1.009	0.5806	0.4981	0.2986
0.419354838709677	4.178	2.65	1.007	0.5786	0.4958	0.2966
0.451612903225806	4.178	2.65	1.004	0.5765	0.493	0.2956
0.483870967741936	4.178	2.648	1.002	0.5762	0.492	0.2931
0.516129032258065	4.178	2.648	1.002	0.5742	0.4908	0.2927
0.548387096774194	4.177	2.648	1.001	0.5724	0.4908	0.2919
0.580645161290323	4.177	2.647	1.001	0.5718	0.4904	0.2914
0.612903225806452	4.177	2.646	1	0.5716	0.4891	0.2912
0.645161290322581	4.175	2.646	0.9994	0.5688	0.4866	0.2907
0.67741935483871	4.173	2.645	0.9978	0.5675	0.4835	0.2885
0.709677419354839	4.173	2.643	0.9964	0.567	0.481	0.2851
0.741935483870968	4.171	2.643	0.9959	0.5648	0.4802	0.2822
0.774193548387097	4.166	2.637	0.9905	0.5617	0.4786	0.2809
0.806451612903226	4.163	2.634	0.9869	0.5585	0.4751	0.278
0.838709677419355	4.16	2.633	0.9868	0.5562	0.4736	0.2776
0.870967741935484	4.16	2.63	0.9838	0.5552	0.4735	0.2735
0.903225806451613	4.15	2.621	0.9748	0.5448	0.459	0.2633
0.935483870967742	4.109	2.582	0.9366	0.5118	0.4323	0.2363
0.967741935483871	3.992	2.465	0.8222	0.4025	0.3274	0.1315
0.1	4.2206	2.6906	1.043	0.6201	0.52747	0.32966
Average of yearly averages:						0.291776666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAmelonA

Metfile: w93193.dvf

PRZM scenario: CAMElonsRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable	Name	Value	Units	Comments
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Molecular weight	mwt	281.3	g/mol		
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Henry's Law Const.	henry	8.6E-7	atm-m^3/mol		
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Vapor Pressure	vapr	3E-5	torr		
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Solubility	sol	3.75	mg/L		
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Kd	Kd	mg/L			
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Koc	Koc	17040	mg/L		
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Photolysis half-life	kdp	42	days	Half-life	
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Aerobic Aquatic Metabolism	kbacw	330	days	Halfife	
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Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife	
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Aerobic Soil Metabolism	asm	172	days	Halfife	
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Hydrolysis: pH 7	0	days	Half-life		
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Method: CAM 1 integer See PRZM manual
 Incorporation Depth: DEPI 4 cm
 Application Rate: TAPP 1.663 kg/ha
 Application Efficiency: APPEFF .95 fraction
 Spray Drift DRFT .05 fraction of application rate applied to pond
 Application Date Date 09-05 dd/mm or dd/mmm or dd-mm or dd-mmm
 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)

7) Garlic, aerial application

stored as CAGarlicA.out
 Chemical: pendimethalin
 PRZM environment: CAGarlicRLF.txt modified Tuesday, 20 February 2007 at 12:05:56
 EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
 Metfile: w23188.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	3.992	2.466	0.8227	0.4051	0.3349	0.08731
1962	4.138	2.611	0.9657	0.5434	0.4622	0.2575
1963	4.199	2.67	1.023	0.6204	0.5644	0.3444
1964	4.258	2.731	1.082	0.6539	0.5698	0.3995
1965	4.255	2.727	1.079	0.7163	0.7523	0.4489
1966	4.358	2.829	1.196	0.7597	0.7073	0.5428
1967	4.333	2.805	1.154	0.7351	0.6947	0.5191
1968	4.316	2.787	1.137	0.7071	0.6211	0.4805
1969	4.31	2.781	1.132	0.7021	0.6157	0.4777
1970	4.276	2.747	1.098	0.6703	0.6086	0.4359
1971	4.272	2.742	1.093	0.6975	0.6124	0.4336
1972	4.267	2.738	1.09	0.6934	0.6284	0.432
1973	4.277	2.748	1.099	0.6745	0.5915	0.4299
1974	4.272	2.744	1.095	0.6747	0.6229	0.4367
1975	4.292	2.764	1.115	0.6854	0.6001	0.4442
1976	4.286	2.756	1.106	0.6744	0.5874	0.448
1977	4.262	2.732	1.083	0.6548	0.5688	0.4153
1978	4.281	2.751	1.101	0.671	0.6039	0.4592
1979	4.308	2.777	1.126	0.7019	0.6147	0.4873
1980	4.298	2.77	1.12	0.6907	0.6044	0.4694
1981	4.266	2.736	1.087	0.6583	0.6054	0.4368
1982	4.285	2.755	1.105	0.679	0.5929	0.444
1983	4.266	2.735	1.085	0.6554	0.5725	0.4298
1984	4.22	2.688	1.039	0.6122	0.548	0.38
1985	4.24	2.711	1.063	0.669	0.6647	0.4166
1986	4.313	2.784	1.19	0.7656	0.6791	0.4883
1987	4.3	2.771	1.124	0.7029	0.6426	0.4681
1988	4.297	2.768	1.12	0.6902	0.6215	0.4619

1989	4.276	2.747	1.099	0.6702	0.5886	0.4288
1990	4.259	2.73	1.081	0.6521	0.5657	0.4091

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	4.358	2.829	1.196	0.7656	0.7523	0.5428
0.0645161290322581	4.333	2.805	1.19	0.7597	0.7073	0.5191
0.0967741935483871	4.316	2.787	1.154	0.7351	0.6947	0.4883
0.129032258064516	4.313	2.784	1.137	0.7163	0.6791	0.4873
0.161290322580645	4.31	2.781	1.132	0.7071	0.6647	0.4805
0.193548387096774	4.308	2.777	1.126	0.7029	0.6426	0.4777
0.225806451612903	4.3	2.771	1.124	0.7021	0.6284	0.4694
0.258064516129032	4.298	2.77	1.12	0.7019	0.6229	0.4681
0.290322580645161	4.297	2.768	1.12	0.6975	0.6215	0.4619
0.32258064516129	4.292	2.764	1.115	0.6934	0.6211	0.4592
0.354838709677419	4.286	2.756	1.106	0.6907	0.6157	0.4489
0.387096774193548	4.285	2.755	1.105	0.6902	0.6147	0.448
0.419354838709677	4.281	2.751	1.101	0.6854	0.6124	0.4442
0.451612903225806	4.277	2.748	1.099	0.679	0.6086	0.444
0.483870967741936	4.276	2.747	1.099	0.6747	0.6054	0.4368
0.516129032258065	4.276	2.747	1.098	0.6745	0.6044	0.4367
0.548387096774194	4.272	2.744	1.095	0.6744	0.6039	0.4359
0.580645161290323	4.272	2.742	1.093	0.671	0.6001	0.4336
0.612903225806452	4.267	2.738	1.09	0.6703	0.5929	0.432
0.645161290322581	4.266	2.736	1.087	0.6702	0.5915	0.4299
0.67741935483871	4.266	2.735	1.085	0.669	0.5886	0.4298
0.709677419354839	4.262	2.732	1.083	0.6583	0.5874	0.4288
0.741935483870968	4.259	2.731	1.082	0.6554	0.5725	0.4166
0.774193548387097	4.258	2.73	1.081	0.6548	0.5698	0.4153
0.806451612903226	4.255	2.727	1.079	0.6539	0.5688	0.4091
0.838709677419355	4.24	2.711	1.063	0.6521	0.5657	0.3995
0.870967741935484	4.22	2.688	1.039	0.6204	0.5644	0.38
0.903225806451613	4.199	2.67	1.023	0.6122	0.548	0.3444
0.935483870967742	4.138	2.611	0.9657	0.5434	0.4622	0.2575
0.967741935483871	3.992	2.466	0.8227	0.4051	0.3349	0.08731
0.1	4.3157	2.7867	1.1523	0.73322	0.69314	0.4882
Average of yearly averages:						0.427087

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAgarlicA

Metfile: w23188.dvf

PRZM scenario: CAGarlicRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable	Name	Value	Units	Comments
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Molecular weight	mwt	281.3	g/mol		
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Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol	
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Vapor Pressure	vapr	3E-5	torr		
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Solubility	sol	3.75	mg/L		
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Kd	Kd		mg/L		
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Koc	Koc	17040	mg/L		
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Photolysis half-life	kdp	42	days	Half-life	
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Aerobic Aquatic Metabolism	kbacw	330	days	Halfife	
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Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife	
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Aerobic Soil Metabolism asm 172 days Halfife
 Hydrolysis: pH 7 0 days Half-life
 Method: CAM 1 integer See PRZM manual
 Incorporation Depth: DEPI 4 cm
 Application Rate: TAPP 1.663 kg/ha
 Application Efficiency: APPEFF .95 fraction
 Spray Drift DRFT .05 fraction of application rate applied to pond
 Application Date Date 23-09 dd/mm or dd/mmm or dd-mm or dd-mmm
 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)

8) Strawberries, aerial application

stored as CAstrawberryA.out
 Chemical: pendimethalin
 PRZM environment: CAstrawberry-noplasticRLF.txt modified Tuesday, 20 February 2007 at 12:04:00
 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	3.992	2.47	0.936	0.5068	0.4374	0.2542
1962	4.148	2.626	1.079	0.8974	0.7786	0.5279
1963	4.389	2.864	1.262	1.087	1.001	0.6895
1964	4.456	2.93	1.7	1.085	0.965	0.6606
1965	4.499	2.958	1.331	0.8919	0.8071	0.5914
1966	4.438	2.908	1.278	0.9327	0.8307	0.5744
1967	5.465	3.771	2.189	1.439	1.299	0.8678
1968	4.563	3.276	1.557	1.201	1.106	0.7702
1969	4.52	3	1.903	1.407	1.257	0.8571
1970	4.671	3.125	2.067	1.36	1.204	0.8159
1971	4.544	3.056	1.404	0.9575	0.8973	0.6452
1972	4.443	2.919	1.287	0.8644	0.7741	0.556
1973	5.308	3.513	1.923	1.314	1.153	0.759
1974	4.522	2.989	1.359	0.9513	0.8895	0.6393
1975	4.437	2.91	1.263	0.9922	0.9422	0.6648
1976	4.455	2.934	1.286	0.907	0.8206	0.5797
1977	4.454	2.914	1.248	0.8213	0.7569	0.5339
1978	4.631	3.007	1.731	1.215	1.093	0.7327
1979	4.572	3.205	1.825	1.285	1.152	0.7815
1980	4.694	3.546	1.799	1.354	1.211	0.8291
1981	4.552	3.027	1.688	1.206	1.099	0.7651
1982	4.747	3.148	1.488	1.121	1.067	0.7961
1983	4.564	3.039	1.831	1.366	1.264	0.8734
1984	4.58	3.054	1.403	0.9772	0.8884	0.6313
1985	4.42	2.897	1.25	0.9155	0.8284	0.5723
1986	4.401	2.87	1.239	1.099	1.049	0.7153

1987	4.496	2.963	1.31	0.9905	0.8898	0.6153
1988	4.415	2.885	1.372	0.8776	0.777	0.5441
1989	4.369	2.843	1.204	0.7983	0.7275	0.5008
1990	4.331	2.88	1.275	0.8357	0.736	0.4964

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	5.465	3.771	2.189	1.439	1.299	0.8734
0.0645161290322581	5.308	3.546	2.067	1.407	1.264	0.8678
0.0967741935483871	4.747	3.513	1.923	1.366	1.257	0.8571
0.129032258064516	4.694	3.276	1.903	1.36	1.211	0.8291
0.161290322580645	4.671	3.205	1.831	1.354	1.204	0.8159
0.193548387096774	4.631	3.148	1.825	1.314	1.153	0.7961
0.225806451612903	4.58	3.125	1.799	1.285	1.152	0.7815
0.258064516129032	4.572	3.056	1.731	1.215	1.106	0.7702
0.290322580645161	4.564	3.054	1.7	1.206	1.099	0.7651
0.32258064516129	4.563	3.039	1.688	1.201	1.093	0.759
0.354838709677419	4.552	3.027	1.557	1.121	1.067	0.7327
0.387096774193548	4.544	3.007	1.488	1.099	1.049	0.7153
0.419354838709677	4.522	3	1.404	1.087	1.001	0.6895
0.451612903225806	4.52	2.989	1.403	1.085	0.965	0.6648
0.483870967741936	4.499	2.963	1.372	0.9922	0.9422	0.6606
0.516129032258065	4.496	2.958	1.359	0.9905	0.8973	0.6452
0.548387096774194	4.456	2.934	1.331	0.9772	0.8898	0.6393
0.580645161290323	4.455	2.93	1.31	0.9575	0.8895	0.6313
0.612903225806452	4.454	2.919	1.287	0.9513	0.8884	0.6153
0.645161290322581	4.443	2.914	1.286	0.9327	0.8307	0.5914
0.67741935483871	4.438	2.91	1.278	0.9155	0.8284	0.5797
0.709677419354839	4.437	2.908	1.275	0.907	0.8206	0.5744
0.741935483870968	4.42	2.897	1.263	0.8974	0.8071	0.5723
0.774193548387097	4.415	2.885	1.262	0.8919	0.7786	0.556
0.806451612903226	4.401	2.88	1.25	0.8776	0.777	0.5441
0.838709677419355	4.389	2.87	1.248	0.8644	0.7741	0.5339
0.870967741935484	4.369	2.864	1.239	0.8357	0.7569	0.5279
0.903225806451613	4.331	2.843	1.204	0.8213	0.736	0.5008
0.935483870967742	4.148	2.626	1.079	0.7983	0.7275	0.4964
0.967741935483871	3.992	2.47	0.936	0.5068	0.4374	0.2542
0.1	4.7417	3.4893	1.921	1.3654	1.2524	0.8543
Average of yearly averages:						0.661343333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAstrawberryA

Metfile: w23234.dvf

PRZM scenario: CAstrawberry-noplasticRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description Variable Name Value Units Comments

Molecular weight mwt 281.3 g/mol

Henry's Law Const. henry 8.6E-7 atm-m³/mol

Vapor Pressure vapr 3E-5 torr

Solubility sol 3.75 mg/L

Kd Kd mg/L

Koc Koc 17040 mg/L

Photolysis half-life kdp 42 days Half-life

Aerobic Aquatic Metabolism kbacw 330 days Halfife
 Anaerobic Aquatic Metabolism kbacs 208 days Halfife
 Aerobic Soil Metabolism asm 172 days Halfife
 Hydrolysis: pH 7 0 days Half-life
 Method: CAM 1 integer See PRZM manual
 Incorporation Depth: DEPI 4 cm
 Application Rate: TAPP 1.663 kg/ha
 Application Efficiency: APPEFF .95 fraction
 Spray Drift DRFT .05 fraction of application rate applied to pond
 Application Date Date 09-01 dd/mm or dd/mmm or dd-mm or dd-mmm
 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)

9) Onions, Aerial application

stored as CAonionA.out
 Chemical: pendimethalin
 PRZM environment: CAonion_WirrigSTD.txt modified Tuesday, 29 May 2007 at
 12:43:34
 EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at
 16:33:30
 Metfile: w23155.dvf modified Wedday, 3 July 2002 at 09:04:20
 Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	5.328	3.3	1.107	0.5503	0.4459	0.2289
1962	5.44	3.408	1.214	0.7191	0.6079	0.3484
1963	5.514	3.482	1.287	0.7593	0.6539	0.391
1964	5.548	3.516	1.321	0.7606	0.6526	0.3884
1965	5.539	3.506	1.311	0.751	0.6509	0.39
1966	5.55	3.516	1.319	0.7759	0.6658	0.3926
1967	5.542	3.51	1.332	0.7665	0.6573	0.3888
1968	5.532	3.502	1.307	0.7477	0.6428	0.3736
1969	5.527	3.497	1.31	0.7527	0.6446	0.3717
1970	5.517	3.483	1.287	0.7356	0.6262	0.3586
1971	5.512	3.481	1.285	0.7259	0.6186	0.3601
1972	5.519	3.486	1.292	0.7323	0.6232	0.3632
1973	5.557	3.51	1.354	0.7672	0.6602	0.3787
1974	5.522	3.489	1.295	0.7396	0.6374	0.3713
1975	5.525	3.494	1.299	0.744	0.6347	0.3685
1976	5.519	3.487	1.292	0.736	0.6268	0.3617
1977	5.517	3.485	1.289	0.7279	0.6252	0.3615
1978	5.515	3.48	1.287	0.9442	0.8156	0.4757
1979	5.673	3.602	1.406	0.8183	0.7037	0.4092
1980	5.538	3.558	1.406	0.8038	0.6866	0.4014
1981	5.54	3.51	1.316	0.7576	0.65	0.3748
1982	5.519	3.487	1.292	0.7345	0.6318	0.3651
1983	5.52	3.489	1.345	0.7788	0.6651	0.3944
1984	5.544	3.514	1.318	0.7574	0.649	0.3803

1985	5.532	3.502	1.307	0.7468	0.639	0.3747
1986	5.536	3.504	1.308	0.7486	0.6419	0.3769
1987	5.563	3.522	1.317	0.7541	0.6452	0.3808
1988	5.536	3.493	1.3	0.7421	0.6353	0.3729
1989	5.522	3.482	1.289	0.738	0.6298	0.3665
1990	5.523	3.483	1.289	0.732	0.6244	0.3614

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	5.673	3.602	1.406	0.9442	0.8156	0.4757
0.0645161290322581	5.563	3.558	1.406	0.8183	0.7037	0.4092
0.0967741935483871	5.557	3.522	1.354	0.8038	0.6866	0.4014
0.129032258064516	5.55	3.516	1.345	0.7788	0.6658	0.3944
0.161290322580645	5.548	3.516	1.332	0.7759	0.6651	0.3926
0.193548387096774	5.544	3.514	1.321	0.7672	0.6602	0.391
0.225806451612903	5.542	3.51	1.319	0.7665	0.6573	0.39
0.258064516129032	5.54	3.51	1.318	0.7606	0.6539	0.3888
0.290322580645161	5.539	3.51	1.317	0.7593	0.6526	0.3884
0.32258064516129	5.538	3.506	1.316	0.7576	0.6509	0.3808
0.354838709677419	5.536	3.504	1.311	0.7574	0.65	0.3803
0.387096774193548	5.536	3.502	1.31	0.7541	0.649	0.3787
0.419354838709677	5.532	3.502	1.308	0.7527	0.6452	0.3769
0.451612903225806	5.532	3.497	1.307	0.751	0.6446	0.3748
0.483870967741936	5.527	3.494	1.307	0.7486	0.6428	0.3747
0.516129032258065	5.525	3.493	1.3	0.7477	0.6419	0.3736
0.548387096774194	5.523	3.489	1.299	0.7468	0.639	0.3729
0.580645161290323	5.522	3.489	1.295	0.744	0.6374	0.3717
0.612903225806452	5.522	3.487	1.292	0.7421	0.6353	0.3713
0.645161290322581	5.52	3.487	1.292	0.7396	0.6347	0.3685
0.67741935483871	5.519	3.486	1.292	0.738	0.6318	0.3665
0.709677419354839	5.519	3.485	1.289	0.736	0.6298	0.3651
0.741935483870968	5.519	3.483	1.289	0.7356	0.6268	0.3632
0.774193548387097	5.517	3.483	1.289	0.7345	0.6262	0.3617
0.806451612903226	5.517	3.482	1.287	0.7323	0.6252	0.3615
0.838709677419355	5.515	3.482	1.287	0.732	0.6244	0.3614
0.870967741935484	5.514	3.481	1.287	0.7279	0.6232	0.3601
0.903225806451613	5.512	3.48	1.285	0.7259	0.6186	0.3586
0.935483870967742	5.44	3.408	1.214	0.7191	0.6079	0.3484
0.967741935483871	5.328	3.3	1.107	0.5503	0.4459	0.2289

0.1	5.5563	3.5214	1.3531	0.8013	0.68452	0.4007
Average of yearly averages:						0.37437

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAonionA

Metfile: w23155.dvf

PRZM scenario: CAonion_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable Name	Value	Units	Comments
-------------	---------------	-------	-------	----------

Molecular weight	mwt	281.3	g/mol	
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Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol
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Vapor Pressure	vapr	3E-5	torr	
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Solubility	sol	3.75	mg/L	
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Kd	Kd		mg/L	
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Koc Koc 17040 mg/L
 Photolysis half-life kdp 42 days Half-life
 Aerobic Aquatic Metabolism kbacw 330 days Halfife
 Anaerobic Aquatic Metabolism kbacs 208 days Halfife
 Aerobic Soil Metabolism asm 172 days Halfife
 Hydrolysis: pH 7 0 days Half-life
 Method: CAM 1 integer See PRZM manual
 Incorporation Depth: DEPI 4 cm
 Application Rate: TAPP 2.22 kg/ha
 Application Efficiency: APPEFF .95 fraction
 Spray Drift DRFT .05 fraction of application rate applied to pond
 Application Date Date 09-01 dd/mm or dd/mm or dd-mm or dd-mmm
 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)

10) Cotton, aerial application

stored as CACottonA.out
 Chemical: pendimethalin
 PRZM environment: CACotton_WirrigSTD.txt modified Tuesday, 29 May 2007 at
 12:42:12
 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	5.328	3.293	1.099	0.5916	0.5311	0.2708
1962	5.564	3.527	1.328	0.813	0.7419	0.4657
1963	5.668	3.911	1.543	0.9625	0.8767	0.5698
1964	5.722	3.684	1.484	0.959	0.8858	0.5987
1965	5.732	3.693	1.492	0.966	0.8856	0.6046
1966	5.735	3.697	1.494	0.9674	0.8858	0.6065
1967	5.752	3.714	1.51	0.9746	0.8973	0.603
1968	5.716	3.679	1.477	0.9574	0.8763	0.5933
1969	5.76	3.721	1.519	0.9875	0.9039	0.6224
1970	5.75	3.711	1.51	0.9816	0.8978	0.6158
1971	5.742	3.702	1.501	0.9798	0.9032	0.6128
1972	5.737	3.698	1.497	0.9727	0.892	0.6054
1973	5.739	3.7	1.498	0.9624	0.8787	0.5974
1974	5.726	3.688	1.487	0.9661	0.8837	0.5947
1975	5.726	3.691	1.49	0.9676	0.8796	0.599
1976	5.751	3.716	1.514	0.985	0.9085	0.6248
1977	5.751	3.71	1.514	0.991	0.9113	0.618
1978	5.733	3.859	1.559	1.004	0.9113	0.6083
1979	5.721	3.68	1.479	0.9555	0.8747	0.5853
1980	5.709	3.67	1.469	0.944	0.8664	0.5803

1981	5.711	3.671	1.468	0.9541		0.8737	0.5738
1982	5.703	3.666	1.465	0.9387		0.8556	0.578
1983	5.738	3.7	1.968	1.224	1.094	0.6846	
1984	5.759	3.719	1.516	0.9876		0.9082	0.6084
1985	5.706	3.668	1.465	0.934	0.8529	0.5668	
1986	5.695	3.656	1.455	0.937	0.8528	0.5628	
1987	5.693	3.654	1.452	0.9542		0.8681	0.5741
1988	5.715	3.674	1.469	0.9444		0.8684	0.5767
1989	5.704	3.664	1.474	0.9453		0.8651	0.5751
1990	5.714	3.673	1.468	0.9945		0.9115	0.5981

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	5.76	3.911	1.968	1.224	1.094	0.6846
0.0645161290322581		5.759	3.859	1.559	1.004	0.9115
0.0967741935483871		5.752	3.721	1.543	0.9945	0.9113
0.129032258064516	5.751	3.719	1.519	0.991	0.9113	0.618
0.161290322580645	5.751	3.716	1.516	0.9876	0.9085	0.6158
0.193548387096774	5.75	3.714	1.514	0.9875	0.9082	0.6128
0.225806451612903	5.742	3.711	1.514	0.985	0.9039	0.6084
0.258064516129032	5.739	3.71	1.51	0.9816	0.9032	0.6083
0.290322580645161	5.738	3.702	1.51	0.9798	0.8978	0.6065
0.32258064516129	5.737	3.7	1.501	0.9746	0.8973	0.6054
0.354838709677419	5.735	3.7	1.498	0.9727	0.892	0.6046
0.387096774193548	5.733	3.698	1.497	0.9676	0.8858	0.603
0.419354838709677	5.732	3.697	1.494	0.9674	0.8858	0.599
0.451612903225806	5.726	3.693	1.492	0.9661	0.8856	0.5987
0.483870967741936	5.726	3.691	1.49	0.966	0.8837	0.5981
0.516129032258065	5.722	3.688	1.487	0.9625	0.8796	0.5974
0.548387096774194	5.721	3.684	1.484	0.9624	0.8787	0.5947
0.580645161290323	5.716	3.68	1.479	0.959	0.8767	0.5933
0.612903225806452	5.715	3.679	1.477	0.9574	0.8763	0.5853
0.645161290322581	5.714	3.674	1.474	0.9555	0.8747	0.5803
0.67741935483871	5.711	3.673	1.469	0.9542	0.8737	0.578
0.709677419354839	5.709	3.671	1.469	0.9541	0.8684	0.5767
0.741935483870968	5.706	3.67	1.468	0.9453	0.8681	0.5751
0.774193548387097	5.704	3.668	1.468	0.9444	0.8664	0.5741
0.806451612903226	5.703	3.666	1.465	0.944	0.8651	0.5738
0.838709677419355	5.695	3.664	1.465	0.9387	0.8556	0.5698
0.870967741935484	5.693	3.656	1.455	0.937	0.8529	0.5668
0.903225806451613	5.668	3.654	1.452	0.934	0.8528	0.5628
0.935483870967742	5.564	3.527	1.328	0.813	0.7419	0.4657
0.967741935483871	5.328	3.293	1.099	0.5916	0.5311	0.2708
0.1	5.7519	3.7208	1.5406	0.99415	0.9113	0.62196
Average of yearly averages:						0.5825

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAcottonA

Metfile: w93193.dvf

PRZM scenario: CAcotton_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description Variable Name Value Units Comments

Molecular weight mwt 281.3 g/mol

Henry's Law Const. henry 8.6E-7 atm-m³/mol
 Vapor Pressure vapr 3E-5 torr
 Solubility sol 3.75 mg/L
 Kd Kd mg/L
 Koc Koc 17040 mg/L
 Photolysis half-life kdp 42 days Half-life
 Aerobic Aquatic Metabolism kbacw 330 days Halfife
 Anaerobic Aquatic Metabolism kbacs 208 days Halfife
 Aerobic Soil Metabolism asm 172 days Halfife
 Hydrolysis: pH 7 0 days Half-life
 Method: CAM 1 integer See PRZM manual
 Incorporation Depth: DEPI 4 cm
 Application Rate: TAPP 2.22 kg/ha
 Application Efficiency: APPEFF .95 fraction
 Spray Drift DRFT .05 fraction of application rate applied to pond
 Application Date Date 24-04 dd/mm or dd/mm or dd-mm or dd-mmm
 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)

11) Mint, aerial application

stored as ORmintA.out
 Chemical: pendimethalin
 PRZM environment: ORmintSTD.txt modified Tuesday, 29 May 2007 at 13:00:46
 EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at
 16:33:30
 Metfile: w24232.dvf modified Wedday, 3 July 2002 at 09:06:10
 Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	5.328	3.294	1.102	0.5505	0.4453	0.2094
1962	5.515	3.478	1.294	0.739	0.6289	0.386
1963	5.685	3.64	1.448	0.9428	0.8223	0.5414
1964	5.764	3.728	1.531	0.9659	0.8518	0.6027
1965	5.829	3.793	1.609	1.036	0.92	0.6563
1966	5.848	3.813	1.615	1.045	0.928	0.6668
1967	5.836	3.8	1.603	1.037	0.9201	0.6497
1968	5.824	3.791	1.594	1.027	0.911	0.6696
1969	5.872	3.836	1.637	1.066	0.9518	0.7032
1970	5.906	3.885	1.677	1.106	0.9867	0.722
1971	6.167	4.68	1.997	1.275	1.131	0.7956
1972	6.184	4.064	1.778	1.197	1.072	0.7832
1973	5.916	3.883	1.684	1.112	0.993	0.7422
1974	5.963	3.925	1.724	1.153	1.035	0.7683
1975	5.904	3.869	1.671	1.103	0.9862	0.7202
1976	5.886	3.853	1.654	1.085	0.9688	0.6951
1977	5.829	3.796	1.597	1.029	0.9131	0.6543
1978	5.837	3.801	1.605	1.059	0.9394	0.6613
1979	5.822	3.788	1.59	1.022	0.9042	0.6503

1980	5.853	3.933	1.659	1.065	0.9457	0.6801
1981	5.879	3.906	1.701	1.102	0.9847	0.7204
1982	5.914	3.892	1.742	1.145	1.021	0.7359
1983	5.911	3.89	1.68	1.104	0.9844	0.7187
1984	5.871	4.022	1.734	1.127	1.006	0.7188
1985	5.888	3.852	1.653	1.087	0.9821	0.7029
1986	5.853	3.815	1.617	1.051	0.9337	0.6668
1987	5.831	3.796	1.606	1.031	0.9122	0.6597
1988	5.849	3.812	1.615	1.045	0.9292	0.6623
1989	5.819	3.782	1.583	1.014	0.8967	0.6388
1990	5.831	3.797	1.601	1.033	0.9154	0.6496

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	6.184	4.68	1.997	1.275	1.131	0.7956	
0.0645161290322581		6.167	4.064	1.778	1.197	1.072	0.7832
0.0967741935483871		5.963	4.022	1.742	1.153	1.035	0.7683
0.129032258064516	5.916	3.933	1.734	1.145	1.021	0.7422	
0.161290322580645	5.914	3.925	1.724	1.127	1.006	0.7359	
0.193548387096774	5.911	3.906	1.701	1.112	0.993	0.722	
0.225806451612903	5.906	3.892	1.684	1.106	0.9867	0.7204	
0.258064516129032	5.904	3.89	1.68	1.104	0.9862	0.7202	
0.290322580645161	5.888	3.885	1.677	1.103	0.9847	0.7188	
0.32258064516129	5.886	3.883	1.671	1.102	0.9844	0.7187	
0.354838709677419	5.879	3.869	1.659	1.087	0.9821	0.7032	
0.387096774193548	5.872	3.853	1.654	1.085	0.9688	0.7029	
0.419354838709677	5.871	3.852	1.653	1.066	0.9518	0.6951	
0.451612903225806	5.853	3.836	1.637	1.065	0.9457	0.6801	
0.483870967741936	5.853	3.815	1.617	1.059	0.9394	0.6696	
0.516129032258065	5.849	3.813	1.615	1.051	0.9337	0.6668	
0.548387096774194	5.848	3.812	1.615	1.045	0.9292	0.6668	
0.580645161290323	5.837	3.801	1.609	1.045	0.928	0.6623	
0.612903225806452	5.836	3.8	1.606	1.037	0.9201	0.6613	
0.645161290322581	5.831	3.797	1.605	1.036	0.92	0.6597	
0.67741935483871	5.831	3.796	1.603	1.033	0.9154	0.6563	
0.709677419354839	5.829	3.796	1.601	1.031	0.9131	0.6543	
0.741935483870968	5.829	3.793	1.597	1.029	0.9122	0.6503	
0.774193548387097	5.824	3.791	1.594	1.027	0.911	0.6497	
0.806451612903226	5.822	3.788	1.59	1.022	0.9042	0.6496	
0.838709677419355	5.819	3.782	1.583	1.014	0.8967	0.6388	
0.870967741935484	5.764	3.728	1.531	0.9659	0.8518	0.6027	
0.903225806451613	5.685	3.64	1.448	0.9428	0.8223	0.5414	
0.935483870967742	5.515	3.478	1.294	0.739	0.6289	0.386	
0.967741935483871	5.328	3.294	1.102	0.5505	0.4453	0.2094	
0.1	5.9583	4.0131	1.7412	1.1522	1.0336	0.76569	
Average of yearly averages:						0.6610533333333333	

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: ORmintA

Metfile: w24232.dvf

PRZM scenario: ORmintSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description Variable Name Value Units Comments

Molecular weight mwt 281.3 g/mol
 Henry's Law Const. henry 8.6E-7 atm-m³/mol
 Vapor Pressure vapr 3E-5 torr
 Solubility sol 3.75 mg/L
 Kd Kd mg/L
 Koc Koc 17040 mg/L
 Photolysis half-life kdp 42 days Half-life
 Aerobic Aquatic Metabolism kbacw 330 days Halfife
 Anaerobic Aquatic Metabolism kbacs 208 days Halfife
 Aerobic Soil Metabolism asm 172 days Halfife
 Hydrolysis: pH 7 0 days Half-life
 Method: CAM 1 integer See PRZM manual
 Incorporation Depth: DEPI 4 cm
 Application Rate: TAPP 2.22 kg/ha
 Application Efficiency: APPEFF .95 fraction
 Spray Drift DRFT .05 fraction of application rate applied to pond
 Application Date Date 08-04 dd/mm or dd/mm or dd-mm or dd-mm
 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)

12) Wheat, aerial application

stored as CAwheatA.out
 Chemical: pendimethalin
 PRZM environment: CAwheatRLF.txt modified Tuesday, 20 February 2007 at
 12:03:36
 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	3.992	2.472	1.26	0.9218	0.8112	0.5401
1962	6.729	5.337	2.721	1.881	1.92	1.293
1963	4.817	3.295	2.156	1.781	1.759	1.325
1964	4.851	3.328	2.079	1.764	1.64	1.266
1965	4.808	3.284	1.634	1.429	1.412	1.115
1966	4.726	3.205	1.96	1.589	1.44	1.048
1967	4.679	3.157	1.669	1.242	1.196	0.9107
1968	4.553	3.052	1.578	1.319	1.211	0.8801
1969	6.113	4.108	3.439	2.472	2.245	1.594
1970	4.993	4.031	2.818	2.199	2.057	1.581
1971	4.98	3.456	2.344	1.918	1.77	1.348
1972	4.868	3.346	2.219	1.821	1.67	1.24
1973	4.814	3.42	2.087	1.788	1.711	1.279
1974	4.84	3.307	1.703	1.552	1.459	1.132
1975	4.72	3.193	1.539	1.344	1.241	0.9671
1976	6.527	4.746	2.915	2.056	1.952	1.383
1977	4.901	3.377	2.362	1.895	1.737	1.289

1978	6.028	4.895	2.773	2.14	2.005	1.443
1979	4.893	3.365	2.385	1.917	1.741	1.274
1980	4.799	3.586	2.217	1.834	1.697	1.304
1981	4.794	3.271	2.107	1.757	1.6	1.192
1982	4.734	3.205	1.55	1.297	1.245	0.9887
1983	4.637	3.27	2.528	2.074	1.996	1.45
1984	4.864	3.343	2.074	1.777	1.639	1.221
1985	4.728	3.208	2.277	1.808	1.634	1.147
1986	4.967	3.8	2.088	1.734	1.729	1.247
1987	4.761	3.234	2.36	1.878	1.702	1.242
1988	4.78	3.255	2.212	1.768	1.621	1.192
1989	4.739	3.216	2.53	1.948	1.77	1.25
1990	4.797	3.321	2.571	2.049	1.867	1.379

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	6.729	5.337	3.439	2.472	2.245	1.594	
0.0645161290322581		6.527	4.895	2.915	2.199	2.057	1.581
0.0967741935483871		6.113	4.746	2.818	2.14	2.005	1.45
0.129032258064516	6.028	4.108	2.773	2.074	1.996	1.443	
0.161290322580645	4.993	4.031	2.721	2.056	1.952	1.383	
0.193548387096774	4.98	3.8	2.571	2.049	1.92	1.379	
0.225806451612903	4.967	3.586	2.53	1.948	1.867	1.348	
0.258064516129032	4.901	3.456	2.528	1.918	1.77	1.325	
0.290322580645161	4.893	3.42	2.385	1.917	1.77	1.304	
0.32258064516129	4.868	3.377	2.362	1.895	1.759	1.293	
0.354838709677419	4.864	3.365	2.36	1.881	1.741	1.289	
0.387096774193548	4.851	3.346	2.344	1.878	1.737	1.279	
0.419354838709677	4.84	3.343	2.277	1.834	1.729	1.274	
0.451612903225806	4.817	3.328	2.219	1.821	1.711	1.266	
0.483870967741936	4.814	3.321	2.217	1.808	1.702	1.25	
0.516129032258065	4.808	3.307	2.212	1.788	1.697	1.247	
0.548387096774194	4.799	3.295	2.156	1.781	1.67	1.242	
0.580645161290323	4.797	3.284	2.107	1.777	1.64	1.24	
0.612903225806452	4.794	3.271	2.088	1.768	1.639	1.221	
0.645161290322581	4.78	3.27	2.087	1.764	1.634	1.192	
0.67741935483871	4.761	3.255	2.079	1.757	1.621	1.192	
0.709677419354839	4.739	3.234	2.074	1.734	1.6	1.147	
0.741935483870968	4.734	3.216	1.96	1.589	1.459	1.132	
0.774193548387097	4.728	3.208	1.703	1.552	1.44	1.115	
0.806451612903226	4.726	3.205	1.669	1.429	1.412	1.048	
0.838709677419355	4.72	3.205	1.634	1.344	1.245	0.9887	
0.870967741935484	4.679	3.193	1.578	1.319	1.241	0.9671	
0.903225806451613	4.637	3.157	1.55	1.297	1.211	0.9107	
0.935483870967742	4.553	3.052	1.539	1.242	1.196	0.8801	
0.967741935483871	3.992	2.472	1.26	0.9218	0.8112	0.5401	
0.1	6.1045	4.6822	2.8135	2.1334	2.0041	1.4493	
Average of yearly averages:						1.21735666666667	

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAwheatA

Metfile: w93193.dvf

PRZM scenario: CAWheatRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	281.3	g/mol	
Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	3E-5	torr	
Solubility	sol	3.75	mg/L	
Kd	Kd		mg/L	
Koc	Koc	17040	mg/L	
Photolysis half-life	kdp	42	days	Half-life
Aerobic Aquatic Metabolism	kbacw	330	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife
Aerobic Soil Metabolism	asm	172	days	Halfife
Hydrolysis: pH 7	0	days		Half-life
Method:	CAM 1	integer		See PRZM manual
Incorporation Depth:	DEPI 4	cm		
Application Rate:	TAPP 1.663	kg/ha		
Application Efficiency:	APPEFF .95			fraction
Spray Drift	DRFT .05			fraction of application rate applied to pond
Application Date	Date 09-01	dd/mm or dd/mm or dd-mm or dd-mm		

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)

13) Almonds, ground application

stored as almondG.out

Chemical: pendimethalin

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	3.218	1.993	0.7454	0.4261	0.3557	0.2818
1962	5.029	3.697	1.831	1.139	1.014	0.7888
1963	6.569	4.592	2.234	1.576	1.474	1.096
1964	6.38	4.387	2.386	1.628	1.472	1.094
1965	4.02	2.779	1.434	1.079	1.006	0.8114
1966	3.804	2.574	1.268	0.9497	0.8795	0.713
1967	8.589	5.838	2.722	1.804	1.61	1.109
1968	3.938	2.881	1.582	1.228	1.131	0.8695
1969	3.824	2.806	2.248	1.603	1.43	1.014
1970	4.838	3.419	2.151	1.426	1.29	0.9602
1971	3.901	2.672	1.341	0.9927	0.9282	0.7541
1972	3.765	2.537	1.208	0.8853	0.8209	0.6668
1973	5.382	4.203	2.224	1.532	1.358	0.9636
1974	3.879	2.664	1.357	0.9988	0.9234	0.7361
1975	3.744	2.515	1.186	0.8974	0.8466	0.6731

1976	3.683	2.457	1.128	0.7821		0.7224	0.6093
1977	3.67	2.438	1.105	0.7591		0.7015	0.5932
1978	5.096	4.129	2.364	1.612	1.416	0.9754	
1979	4.571	3.232	2.103	1.459	1.312	0.9573	
1980	4.768	3.753	2.114	1.545	1.39	1.003	
1981	3.902	2.672	1.642	1.238	1.143	0.8853	
1982	4.077	2.777	1.427	1.118	1.096	0.9228	
1983	3.929	2.7	1.525	1.236	1.181	0.9192	
1984	3.871	2.642	1.31	0.9593		0.8889	0.7108
1985	3.71	2.486	1.157	0.8531		0.7797	0.6292
1986	6.519	4.903	2.196	1.451	1.298	0.9468	
1987	3.873	2.643	1.311	1.066	0.9962	0.7841	
1988	3.769	2.541	1.311	0.9188		0.8499	0.6691
1989	3.685	2.458	1.13	0.7883		0.7469	0.613
1990	8.398	5.582	2.539	1.609	1.411	0.9688	

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	8.589	5.838	2.722	1.804	1.61	1.109
0.0645161290322581		8.398	5.582	2.539	1.628	1.474
0.0967741935483871		6.569	4.903	2.386	1.612	1.472
0.129032258064516	6.519	4.592	2.364	1.609	1.43	1.014
0.161290322580645	6.38	4.387	2.248	1.603	1.416	1.003
0.193548387096774	5.382	4.203	2.234	1.576	1.411	0.9754
0.225806451612903	5.096	4.129	2.224	1.545	1.39	0.9688
0.258064516129032	5.029	3.753	2.196	1.532	1.358	0.9636
0.290322580645161	4.838	3.697	2.151	1.459	1.312	0.9602
0.32258064516129	4.768	3.419	2.114	1.451	1.298	0.9573
0.354838709677419	4.571	3.232	2.103	1.426	1.29	0.9468
0.387096774193548	4.077	2.881	1.831	1.238	1.181	0.9228
0.419354838709677	4.02	2.806	1.642	1.236	1.143	0.9192
0.451612903225806	3.938	2.779	1.582	1.228	1.131	0.8853
0.483870967741936	3.929	2.777	1.525	1.139	1.096	0.8695
0.516129032258065	3.902	2.7	1.434	1.118	1.014	0.8114
0.548387096774194	3.901	2.672	1.427	1.079	1.006	0.7888
0.580645161290323	3.879	2.672	1.357	1.066	0.9962	0.7841
0.612903225806452	3.873	2.664	1.341	0.9988	0.9282	0.7541
0.645161290322581	3.871	2.643	1.311	0.9927	0.9234	0.7361
0.67741935483871	3.824	2.642	1.311	0.9593	0.8889	0.713
0.709677419354839	3.804	2.574	1.31	0.9497	0.8795	0.7108
0.741935483870968	3.769	2.541	1.268	0.9188	0.8499	0.6731
0.774193548387097	3.765	2.537	1.208	0.8974	0.8466	0.6691
0.806451612903226	3.744	2.515	1.186	0.8853	0.8209	0.6668
0.838709677419355	3.71	2.486	1.157	0.8531	0.7797	0.6292
0.870967741935484	3.685	2.458	1.13	0.7883	0.7469	0.613
0.903225806451613	3.683	2.457	1.128	0.7821	0.7224	0.6093
0.935483870967742	3.67	2.438	1.105	0.7591	0.7015	0.5932
0.967741935483871	3.218	1.993	0.7454		0.4261	0.3557
						0.2818
0.1	6.564	4.8719	2.3838	1.6117	1.4678	1.086
						Average of yearly averages:
						0.823956666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: almondG

Metfile: w23232.dvf

PRZM scenario: CAalmond_WirrigSTD.txt
 EXAMS environment file: pond298.exv
 Chemical Name: pendimethalin
 Description Variable Name Value Units Comments
 Molecular weight mwt 281.3 g/mol
 Henry's Law Const. henry 8.6E-7 atm-m³/mol
 Vapor Pressure vapr 3E-5 torr
 Solubility sol 3.75 mg/L
 Kd Kd mg/L
 Koc Koc 17040 mg/L
 Photolysis half-life kdp 42 days Half-life
 Aerobic Aquatic Metabolism kbacw 330 days Halfife
 Anaerobic Aquatic Metabolism kbacs 208 days Halfife
 Aerobic Soil Metabolism asm 172 days Halfife
 Hydrolysis: pH 7 0 days Half-life
 Method: CAM 1 integer See PRZM manual
 Incorporation Depth: DEPI 4 cm
 Application Rate: TAPP 6.703 kg/ha
 Application Efficiency: APPEFF .99 fraction
 Spray Drift DRFT .01 fraction of application rate applied to pond
 Application Date Date 09-01 dd/mm or dd/mm or dd-mm or dd-mmm
 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)

14) Corn, aerial application

stored as CAcornA.out
 Chemical: pendimethalin
 PRZM environment: CAcornOP.txt modified Thuday, 14 June 2007 at 10:21:10
 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	5.328	3.293	1.1	0.5435	0.4376	0.2113
1962	5.587	3.552	1.355	0.7895	0.6765	0.4956
1963	7.928	5.872	3.09	2.043	1.786	1.094
1964	6.138	4.099	1.895	1.314	1.187	0.8834
1965	5.943	3.926	1.844	1.227	1.091	0.7575
1966	5.839	3.803	1.602	1.026	0.9042	0.6344
1967	5.894	3.852	1.814	1.203	1.066	0.7178
1968	5.81	3.772	1.57	0.9965	0.8769	0.5947
1969	5.813	3.775	1.638	1.044	0.919	0.6273
1970	5.79	3.752	1.553	0.9829	0.8628	0.6071
1971	5.78	3.87	1.607	1.01	0.8875	0.5859
1972	5.721	3.684	1.485	0.9157	0.7983	0.5358
1973	5.796	3.753	1.549	0.9751	0.8538	0.5887
1974	5.747	3.711	1.548	0.9642	0.8443	0.5596

1975	5.77	3.713	1.5	0.9297	0.8112	0.5225
1976	5.649	3.612	1.466	0.8929	0.7699	0.4745
1977	5.647	3.605	1.407	0.8425	0.7288	0.4728
1978	5.776	3.739	1.562	0.9866	0.8649	0.5919
1979	5.775	3.981	1.781	1.107	0.9666	0.6331
1980	5.827	3.874	1.633	1.042	0.919	0.6303
1981	5.808	3.807	1.572	0.9913	0.8699	0.6093
1982	8.037	5.348	3.219	2.049	1.792	1.138
1983	6.289	4.234	2.013	1.569	1.426	1.048
1984	6.027	3.985	1.787	1.205	1.076	0.7582
1985	5.808	3.8	1.588	1.007	0.8855	0.602
1986	5.837	3.797	1.616	1.036	0.9133	0.6207
1987	5.756	3.717	1.515	0.9414	0.8209	0.5453
1988	5.696	3.659	1.461	0.9171	0.7973	0.509
1989	6.906	4.736	1.864	1.107	0.9525	0.5947
1990	5.81	3.775	1.574	0.9981	0.9073	0.6119

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	8.037	5.872	3.219	2.049	1.792	1.138
0.0645161290322581	7.928	5.348	3.09	2.043	1.786	1.094
0.0967741935483871	6.906	4.736	2.013	1.569	1.426	1.048
0.129032258064516	6.289	4.234	1.895	1.314	1.187	0.8834
0.161290322580645	6.138	4.099	1.864	1.227	1.091	0.7582
0.193548387096774	6.027	3.985	1.844	1.205	1.076	0.7575
0.225806451612903	5.943	3.981	1.814	1.203	1.066	0.7178
0.258064516129032	5.894	3.926	1.787	1.107	0.9666	0.6344
0.290322580645161	5.839	3.874	1.781	1.107	0.9525	0.6331
0.32258064516129	5.837	3.87	1.638	1.044	0.919	0.6303
0.354838709677419	5.827	3.852	1.633	1.042	0.919	0.6273
0.387096774193548	5.813	3.807	1.616	1.036	0.9133	0.6207
0.419354838709677	5.81	3.803	1.607	1.026	0.9073	0.6119
0.451612903225806	5.81	3.8	1.602	1.01	0.9042	0.6093
0.483870967741936	5.808	3.797	1.588	1.007	0.8875	0.6071
0.516129032258065	5.808	3.775	1.574	0.9981	0.8855	0.602
0.548387096774194	5.796	3.775	1.572	0.9965	0.8769	0.5947
0.580645161290323	5.79	3.772	1.57	0.9913	0.8699	0.5947
0.612903225806452	5.78	3.753	1.562	0.9866	0.8649	0.5919
0.645161290322581	5.776	3.752	1.553	0.9829	0.8628	0.5887
0.67741935483871	5.775	3.739	1.549	0.9751	0.8538	0.5859
0.709677419354839	5.77	3.717	1.548	0.9642	0.8443	0.5596
0.741935483870968	5.756	3.713	1.515	0.9414	0.8209	0.5453
0.774193548387097	5.747	3.711	1.5	0.9297	0.8112	0.5358
0.806451612903226	5.721	3.684	1.485	0.9171	0.7983	0.5225
0.838709677419355	5.696	3.659	1.466	0.9157	0.7973	0.509
0.870967741935484	5.649	3.612	1.461	0.8929	0.7699	0.4956
0.903225806451613	5.647	3.605	1.407	0.8425	0.7288	0.4745
0.935483870967742	5.587	3.552	1.355	0.7895	0.6765	0.4728
0.967741935483871	5.328	3.293	1.1	0.5435	0.4376	0.2113
0.1	6.8443	4.6858	2.0012	1.5435	1.4021	1.03154
Average of yearly averages:						0.6418433333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:
Output File: CAcorna

Metfile: w23232.dvf
 PRZM scenario: CAcornOP.txt
 EXAMS environment file: pond298.exv
 Chemical Name: pendimethalin
 Description Variable Name Value Units Comments
 Molecular weight mwt 281.3 g/mol
 Henry's Law Const. henry 8.6E-7 atm-m³/mol
 Vapor Pressure vapr 3E-5 torr
 Solubility sol 3.75 mg/L
 Kd Kd mg/L
 Koc Koc 17040 mg/L
 Photolysis half-life kdp 42 days Half-life
 Aerobic Aquatic Metabolism kbacw 330 days Halfife
 Anaerobic Aquatic Metabolism kbacs 208 days Halfife
 Aerobic Soil Metabolism asm 172 days Halfife
 Hydrolysis: pH 7 0 days Half-life
 Method: CAM 1 integer See PRZM manual
 Incorporation Depth: DEPI 4 cm
 Application Rate: TAPP 2.22 kg/ha
 Application Efficiency: APPEFF .95 fraction
 Spray Drift DRFT .05 fraction of application rate applied to pond
 Application Date Date 24-03 dd/mm or dd/mm or dd-mm or dd-mmm
 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)

15) Citrus, aerial application

stored as citrusA.out
 Chemical: pendimethalin
 PRZM environment: CACitrus_WirrigSTD.txt modified Tuesday, 29 May 2007 at 12:41:26
 EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
 Metfile: w23155.dvf modified Wedday, 3 July 2002 at 09:04:20
 Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	10.66	6.6	2.213	1.101	0.8918	0.4533
1962	10.88	6.813	2.425	1.42	1.198	0.675
1963	11.01	6.949	2.56	1.496	1.283	0.752
1964	11.07	7.009	2.619	1.5	1.284	0.7494
1965	11.06	6.991	2.601	1.482	1.275	0.7481
1966	11.07	6.999	2.609	1.515	1.296	0.7483
1967	11.06	6.992	2.64	1.507	1.288	0.7488
1968	11.04	6.983	2.592	1.471	1.254	0.713
1969	11.03	6.97	2.579	1.469	1.253	0.7106
1970	11.01	6.946	2.555	1.447	1.228	0.689
1971	11	6.937	2.548	1.429	1.213	0.6916
1972	11.02	6.953	2.564	1.446	1.228	0.6947

1973	11.02	6.951	2.661	1.498	1.274	0.7149
1974	11.02	6.951	2.561	1.454	1.251	0.7071
1975	11.01	6.951	2.561	1.446	1.229	0.6983
1976	11.01	6.949	2.56	1.446	1.228	0.695
1977	11.01	6.947	2.558	1.436	1.227	0.6915
1978	11	6.929	2.538	1.932	1.666	0.9591
1979	11.15	7.082	2.694	1.571	1.352	0.7795
1980	11.05	6.985	2.599	1.474	1.257	0.727
1981	11.04	6.977	2.589	1.47	1.255	0.7076
1982	11.01	6.948	2.558	1.44	1.227	0.6907
1983	11.01	6.948	2.657	1.521	1.294	0.7476
1984	11.05	6.99	2.6	1.479	1.263	0.7254
1985	11.04	6.979	2.589	1.469	1.254	0.7216
1986	11.05	6.984	2.593	1.471	1.253	0.7215
1987	11.05	6.986	2.594	1.474	1.258	0.7239
1988	11.04	6.955	2.569	1.455	1.239	0.7108
1989	11.02	6.944	2.557	1.456	1.238	0.7058
1990	11.03	6.948	2.561	1.447	1.232	0.7007

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	11.15	7.082	2.694	1.932	1.666	0.9591
0.0645161290322581	11.07	7.009	2.661	1.571	1.352	0.7795
0.0967741935483871	11.07	6.999	2.657	1.521	1.296	0.752
0.129032258064516	11.06	6.992	2.64	1.515	1.294	0.7494
0.161290322580645	11.06	6.991	2.619	1.507	1.288	0.7488
0.193548387096774	11.05	6.99	2.609	1.5	1.284	0.7483
0.225806451612903	11.05	6.986	2.601	1.498	1.283	0.7481
0.258064516129032	11.05	6.985	2.6	1.496	1.275	0.7476
0.290322580645161	11.05	6.984	2.599	1.482	1.274	0.727
0.32258064516129	11.04	6.983	2.594	1.479	1.263	0.7254
0.354838709677419	11.04	6.979	2.593	1.474	1.258	0.7239
0.387096774193548	11.04	6.977	2.592	1.474	1.257	0.7216
0.419354838709677	11.04	6.97	2.589	1.471	1.255	0.7215
0.451612903225806	11.03	6.955	2.589	1.471	1.254	0.7149
0.483870967741936	11.03	6.953	2.579	1.47	1.254	0.713
0.516129032258065	11.02	6.951	2.569	1.469	1.253	0.7108
0.548387096774194	11.02	6.951	2.564	1.469	1.253	0.7106
0.580645161290323	11.02	6.951	2.561	1.456	1.251	0.7076
0.612903225806452	11.02	6.949	2.561	1.455	1.239	0.7071
0.645161290322581	11.01	6.949	2.561	1.454	1.238	0.7058
0.67741935483871	11.01	6.948	2.56	1.447	1.232	0.7007
0.709677419354839	11.01	6.948	2.56	1.447	1.229	0.6983
0.741935483870968	11.01	6.948	2.558	1.446	1.228	0.695
0.774193548387097	11.01	6.947	2.558	1.446	1.228	0.6947
0.806451612903226	11.01	6.946	2.557	1.446	1.228	0.6916
0.838709677419355	11.01	6.944	2.555	1.44	1.227	0.6915
0.870967741935484	11	6.937	2.548	1.436	1.227	0.6907
0.903225806451613	11	6.929	2.538	1.429	1.213	0.689
0.935483870967742	10.88	6.813	2.425	1.42	1.198	0.675
0.967741935483871	10.66	6.6	2.213	1.101	0.8918	0.4533

0.1	11.069	6.9983	2.6553	1.5204	1.2958	0.75174
Average of yearly averages:						0.716726666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: citrusA

Metfile: w23155.dvf

PRZM scenario: CACitrus_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable Name	Value	Units	Comments
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Molecular weight	mwt	281.3	g/mol	
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Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol
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Vapor Pressure	vapr	3E-5	torr	
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Solubility	sol	3.75	mg/L	
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Kd	Kd		mg/L	
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Koc	Koc	17040	mg/L	
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Photolysis half-life	kdp	42	days	Half-life
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Aerobic Aquatic Metabolism	kbacw	330	days	Halfife
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Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife
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Aerobic Soil Metabolism	asm	172	days	Halfife
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Hydrolysis: pH 7	0	days	Half-life	
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Method:	CAM	1	integer	See PRZM manual
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Incorporation Depth:	DEPI	4	cm	
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Application Rate:	TAPP	4.44	kg/ha	
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Application Efficiency:	APPEFF	.95		fraction
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Spray Drift	DRFT	.05		fraction of application rate applied to pond
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Application Date	Date	09-01	dd/mm or dd/mmm or dd-mm or dd-mmm	
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Record 17: FILTRA

IPSCND	1
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UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC	0.5
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Flag for Index Res. Run IR EPA Pond

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

16) Olives, aerial application

stored as olive.out

Chemical: pendimethalin

PRZM environment: CA0liverRLF.txt modified Tuesday, 20 February 2007 at 12:05:22

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	10.66	6.6	2.213	1.102	0.8936	0.4612
1962	10.89	6.838	2.449	1.499	1.27	0.7289
1963	11.06	6.998	2.609	1.544	1.324	0.8042
1964	11.12	7.06	2.67	1.551	1.336	0.8028
1965	11.11	7.048	2.657	1.538	1.389	0.8481
1966	11.15	7.093	2.702	1.581	1.364	0.8059
1967	11.1	7.042	2.651	1.532	1.326	0.8102
1968	11.11	7.045	2.655	1.537	1.33	0.7895
1969	11.11	7.041	3.027	1.867	1.625	0.9811
1970	11.22	7.331	2.929	1.763	1.53	0.9189

Sorted results

0.1	11.168	7.1056	2.7899	1.7017	1.4687	0.89167
Average of yearly averages:					0.79734	

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: olive

Metfile: w93193.dvf

PRZM scenario: CA0liveRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable	Name	Value	Units	Comments
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Molecular weight	mwt	281.3	g/mol		
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Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol	
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Vapor Pressure	vapr	3E-5	torr		
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Solubility	sol	3.75	mg/L		
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Kd	Kd		mg/L		
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Koc	Koc	17040	mg/L		
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Photolysis half-life	kdp	42	days	Half-life	
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Aerobic Aquatic Metabolism	kbacw	330	days	Halfife	
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Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife	
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Aerobic Soil Metabolism	asm	172	days	Halfife	
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Hydrolysis: pH 7	0	days	Half-life		
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Method:	CAM	1	integer	See PRZM manual	
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Incorporation Depth:	DEPI	4	cm		
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Application Rate:	TAPP	4.44	kg/ha		
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Application Efficiency:	APPEFF	.95	fraction		
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Spray Drift	DRFT	.05	fraction of application rate applied to pond		
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Application Date	Date	09-01	dd/mm or dd/mm or dd-mm or dd-mmm		
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Interval 1	interval		days	Set to 0 or delete line for single app.	
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app. rate 1	apprate		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)

17) Fruit trees, aerial application

stored as FruitA.out

Chemical: pendimethalin

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	10.66	6.6	2.248	1.129	0.9168	0.4759
1962	10.91	6.85	2.461	1.505	1.274	0.7299
1963	11.06	6.997	2.608	1.599	1.38	0.8284
1964	11.13	7.072	2.682	1.563	1.347	0.8126
1965	11.12	7.056	2.665	1.546	1.382	0.8379
1966	11.15	7.087	2.696	1.575	1.357	0.8046

1967	11.11	7.051	2.68	1.557	1.349	0.8156
1968	11.11	7.047	2.656	1.535	1.317	0.7794
1969	11.1	7.036	3.708	2.292	1.972	1.166
1970	11.32	7.423	3.268	1.978	1.72	1.039
1971	11.25	7.182	2.791	1.669	1.45	0.8977
1972	11.18	7.119	2.728	1.608	1.388	0.827
1973	11.13	7.065	2.676	1.607	1.386	0.8209
1974	11.15	7.078	2.673	1.55	1.332	0.7861
1975	11.09	7.031	2.641	1.521	1.306	0.7835
1976	11.11	7.054	2.663	1.701	1.465	0.8886
1977	11.18	7.122	2.73	1.607	1.388	0.8255
1978	11.11	7.046	2.762	1.721	1.487	0.8763
1979	11.14	7.075	2.727	1.59	1.367	0.7974
1980	11.08	7.156	2.857	1.726	1.483	0.8677
1981	11.13	7.066	2.704	1.609	1.385	0.8029
1982	11.11	7.036	2.638	1.518	1.321	0.7944
1983	11.12	7.057	3.053	1.868	1.606	0.9499
1984	11.17	7.114	2.721	1.6	1.379	0.7991
1985	11.08	7.021	2.63	1.511	1.294	0.7427
1986	11.06	6.993	2.601	1.59	1.383	0.7963
1987	11.1	7.034	2.64	1.527	1.312	0.7637
1988	11.07	7.01	2.62	1.503	1.286	0.758
1989	11.07	7.014	2.622	1.516	1.316	0.7686
1990	11.08	7.021	2.898	1.652	1.412	0.8237

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	11.32	7.423	3.708	2.292	1.972	1.166
0.0645161290322581	11.25	7.182	3.268	1.978	1.72	1.039
0.0967741935483871	11.18	7.156	3.053	1.868	1.606	0.9499
0.129032258064516	11.18	7.122	2.898	1.726	1.487	0.8977
0.161290322580645	11.17	7.119	2.857	1.721	1.483	0.8886
0.193548387096774	11.15	7.114	2.791	1.701	1.465	0.8763
0.225806451612903	11.15	7.087	2.762	1.669	1.45	0.8677
0.258064516129032	11.14	7.078	2.73	1.652	1.412	0.8379
0.290322580645161	11.13	7.075	2.728	1.609	1.388	0.8284
0.32258064516129	11.13	7.072	2.727	1.608	1.388	0.827
0.354838709677419	11.13	7.066	2.721	1.607	1.386	0.8255
0.387096774193548	11.12	7.065	2.704	1.607	1.385	0.8237
0.419354838709677	11.12	7.057	2.696	1.6	1.383	0.8209
0.451612903225806	11.11	7.056	2.682	1.599	1.382	0.8156
0.483870967741936	11.11	7.054	2.68	1.59	1.38	0.8126
0.516129032258065	11.11	7.051	2.676	1.59	1.379	0.8046
0.548387096774194	11.11	7.047	2.673	1.575	1.367	0.8029
0.580645161290323	11.11	7.046	2.665	1.563	1.357	0.7991
0.612903225806452	11.1	7.036	2.663	1.557	1.349	0.7974
0.645161290322581	11.1	7.036	2.656	1.55	1.347	0.7963
0.67741935483871	11.09	7.034	2.641	1.546	1.332	0.7944
0.709677419354839	11.08	7.031	2.64	1.535	1.321	0.7861
0.741935483870968	11.08	7.021	2.638	1.527	1.317	0.7835
0.774193548387097	11.08	7.021	2.63	1.521	1.316	0.7794
0.806451612903226	11.07	7.014	2.622	1.518	1.312	0.7686
0.838709677419355	11.07	7.01	2.62	1.516	1.306	0.7637
0.870967741935484	11.06	6.997	2.608	1.511	1.294	0.758
0.903225806451613	11.06	6.993	2.601	1.505	1.286	0.7427
0.935483870967742	10.91	6.85	2.461	1.503	1.274	0.7299
0.967741935483871	10.66	6.6	2.248	1.129	0.9168	0.4759

0.1	11.18	7.1526	3.0375	1.8538	1.5941	0.94468
Average of yearly averages:						0.8219766666666666

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: FruitA

Metfile: w93193.dvf

PRZM scenario: CAfruit_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable	Name	Value	Units	Comments
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Molecular weight	mwt	281.3	g/mol		
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Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol	
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Vapor Pressure	vapr	3E-5	torr		
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Solubility	sol	3.75	mg/L		
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Kd	Kd		mg/L		
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Koc	Koc	17040	mg/L		
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Photolysis half-life	kdp	42	days	Half-life	
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Aerobic Aquatic Metabolism	kbacw	330	days	Halfife	
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Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife	
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Aerobic Soil Metabolism	asm	172	days	Halfife	
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Hydrolysis: pH 7	0	days	Half-life		
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Method:	CAM	1	integer	See PRZM manual	
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Incorporation Depth:	DEPI	4	cm		
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Application Rate:	TAPP	4.44	kg/ha		
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Application Efficiency:	APPEFF	.95	fraction		
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Spray Drift DRFT	.05	fraction of application rate applied to pond			
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Application Date	Date	09-01	dd/mm or dd/mm or dd-mm or dd-mmm		
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Record 17: FILTRA

IPSCND	1
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UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC	0.5
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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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18) Alfalfa, aerial application

stored as alfalfaA.out

Chemical: pendimethalin

PRZM environment: CAalfalfa_WirrigOP.txt modified Thuday, 14 June 2007 at 10:20:44

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	10.66	6.6	2.253	1.134	0.9222	0.5103
1962	10.95	6.898	2.527	1.556	1.33	0.8073
1963	11.14	7.075	2.687	1.684	1.476	0.9563
1964	11.25	7.185	2.796	1.674	1.456	0.9293

1965	11.22	7.157	2.765	1.644	1.49	0.959
1966	11.25	7.192	2.801	1.683	1.462	0.9161
1967	11.21	7.146	2.804	1.674	1.469	0.9474
1968	11.22	7.16	2.769	1.65	1.443	0.9096
1969	11.21	7.146	3.614	2.294	2.007	1.255
1970	11.41	7.514	3.277	2.039	1.789	1.134
1971	11.34	7.272	2.88	1.755	1.536	1.003
1972	11.28	7.216	2.825	1.71	1.487	0.9325
1973	11.23	7.158	2.779	1.705	1.494	0.9345
1974	11.24	7.167	2.766	1.644	1.432	0.8968
1975	11.2	7.137	2.742	1.619	1.403	0.8881
1976	11.21	7.149	2.757	1.788	1.555	0.9921
1977	11.28	7.216	2.824	1.698	1.483	0.9328
1978	11.21	7.141	2.858	1.822	1.607	1.01
1979	11.27	7.197	2.828	1.702	1.48	0.9158
1980	11.18	7.187	2.885	1.796	1.562	0.9712
1981	11.23	7.162	2.822	1.723	1.503	0.9246
1982	11.2	7.131	2.735	1.614	1.426	0.9087
1983	11.22	7.154	3.141	1.97	1.721	1.086
1984	11.28	7.226	2.832	1.714	1.491	0.9158
1985	11.18	7.12	2.728	1.612	1.393	0.8497
1986	11.15	7.089	2.696	1.712	1.508	0.9214
1987	11.2	7.134	2.74	1.638	1.426	0.8859
1988	11.18	7.114	2.728	1.61	1.391	0.8818
1989	11.18	7.12	2.728	1.626	1.426	0.8888
1990	11.19	7.125	2.906	1.714	1.48	0.9252

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	11.41	7.514	3.614	2.294	2.007	1.255
0.0645161290322581	11.34	7.272	3.277	2.039	1.789	1.134
0.0967741935483871	11.28	7.226	3.141	1.97	1.721	1.086
0.129032258064516	11.28	7.216	2.906	1.822	1.607	1.01
0.161290322580645	11.28	7.216	2.885	1.796	1.562	1.003
0.193548387096774	11.27	7.197	2.88	1.788	1.555	0.9921
0.225806451612903	11.25	7.192	2.858	1.755	1.536	0.9712
0.258064516129032	11.25	7.187	2.832	1.723	1.508	0.959
0.290322580645161	11.24	7.185	2.828	1.714	1.503	0.9563
0.32258064516129	11.23	7.167	2.825	1.714	1.494	0.9474
0.354838709677419	11.23	7.162	2.824	1.712	1.491	0.9345
0.387096774193548	11.22	7.16	2.822	1.71	1.49	0.9328
0.419354838709677	11.22	7.158	2.804	1.705	1.487	0.9325
0.451612903225806	11.22	7.157	2.801	1.702	1.483	0.9293
0.483870967741936	11.21	7.154	2.796	1.698	1.48	0.9252
0.516129032258065	11.21	7.149	2.779	1.684	1.48	0.9246
0.548387096774194	11.21	7.146	2.769	1.683	1.476	0.9214
0.580645161290323	11.21	7.146	2.766	1.674	1.469	0.9161
0.612903225806452	11.2	7.141	2.765	1.674	1.462	0.9158
0.645161290322581	11.2	7.137	2.757	1.65	1.456	0.9158
0.67741935483871	11.2	7.134	2.742	1.644	1.443	0.9096
0.709677419354839	11.19	7.131	2.74	1.644	1.432	0.9087
0.741935483870968	11.18	7.125	2.735	1.638	1.426	0.8968
0.774193548387097	11.18	7.12	2.728	1.626	1.426	0.8888
0.806451612903226	11.18	7.12	2.728	1.619	1.426	0.8881
0.838709677419355	11.18	7.114	2.728	1.614	1.403	0.8859
0.870967741935484	11.15	7.089	2.696	1.612	1.393	0.8818
0.903225806451613	11.14	7.075	2.687	1.61	1.391	0.8497

0.935483870967742 10.95 6.898 2.527 1.556 1.33 0.8073
 0.967741935483871 10.66 6.6 2.253 1.134 0.9222 0.5103

0.1 11.28 7.225 3.1175 1.9552 1.7096 1.0784
 Average of yearly averages: 0.932966666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: alfalfaA

Metfile: w93193.dvf

PRZM scenario: CAalfalfa_WirrigOP.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	281.3	g/mol	
Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	3E-5	torr	
Solubility	sol	3.75	mg/L	
Kd	Kd		mg/L	
Koc	Koc	17040	mg/L	
Photolysis half-life	kdp	42	days	Half-life
Aerobic Aquatic Metabolism	kbacw	330	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife
Aerobic Soil Metabolism	asm	172	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	1	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	4.44	kg/ha	
Application Efficiency:	APPEFF	.95		fraction
Spray Drift	DRFT	.05		fraction of application rate applied to pond
Application Date	Date	09-01	dd/mm or dd/mm or dd-mm or dd-mmm	

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)

19) Grapes, aerial application

stored as grapesA.out

Chemical: pendimethalin

PRZM environment: CAgapes_WirrigSTD.txt modified Tuesday, 29 May 2007 at 12:42:54

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	10.66	6.838	2.344	1.172	0.9521	0.4812
1962	10.92	6.863	2.716	1.565	1.324	0.7477

1963	11.08	7.02	2.919	1.68	1.451	0.8607
1964	11.16	7.101	2.71	1.589	1.371	0.8261
1965	11.13	7.071	2.68	1.627	1.408	0.8497
1966	11.16	7.103	2.711	1.587	1.366	0.8067
1967	11.62	7.373	2.802	1.622	1.412	0.8375
1968	11.13	7.067	2.675	1.551	1.336	0.789
1969	14.62	10.29	4.041	2.487	2.148	1.256
1970	11.41	7.341	2.94	1.85	1.622	1.002
1971	11.24	7.172	2.78	1.656	1.443	0.8822
1972	11.18	7.116	2.724	1.598	1.375	0.8151
1973	11.13	7.063	2.736	1.62	1.396	0.8202
1974	11.13	7.065	2.673	1.55	1.333	0.784
1975	11.1	7.039	2.647	1.525	1.309	0.7799
1976	11.12	7.061	2.946	1.743	1.499	0.8981
1977	11.2	7.135	2.742	1.619	1.398	0.8296
1978	11.13	7.057	2.849	1.713	1.49	0.8735
1979	11.15	7.084	2.692	1.574	1.353	0.7878
1980	11.1	7.028	2.633	1.656	1.423	0.8332
1981	11.13	7.076	2.908	1.686	1.448	0.8292
1982	11.11	7.045	2.655	1.546	1.338	0.7991
1983	11.45	7.753	3.264	1.901	1.631	0.9653
1984	11.19	7.134	2.741	1.613	1.391	0.8048
1985	11.09	7.032	2.64	1.516	1.297	0.7398
1986	11.06	6.997	2.779	1.646	1.405	0.7995
1987	11.1	7.037	2.648	1.528	1.308	0.7594
1988	11.08	7.015	2.625	1.508	1.299	0.7555
1989	11.08	7.018	2.627	1.506	1.29	0.744
1990	11.08	7.021	2.633	1.508	1.29	0.7537

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	14.62	10.29	4.041	2.487	2.148	1.256
0.0645161290322581		11.62	7.753	3.264	1.901	1.631
0.0967741935483871		11.45	7.373	2.946	1.85	1.622
0.129032258064516	11.41	7.341	2.94	1.743	1.499	0.8981
0.161290322580645	11.24	7.172	2.919	1.713	1.49	0.8822
0.193548387096774	11.2	7.135	2.908	1.686	1.451	0.8735
0.225806451612903	11.19	7.134	2.849	1.68	1.448	0.8607
0.258064516129032	11.18	7.116	2.802	1.656	1.443	0.8497
0.290322580645161	11.16	7.103	2.78	1.656	1.423	0.8375
0.32258064516129	11.16	7.101	2.779	1.646	1.412	0.8332
0.354838709677419	11.15	7.084	2.742	1.627	1.408	0.8296
0.387096774193548	11.13	7.076	2.741	1.622	1.405	0.8292
0.419354838709677	11.13	7.071	2.736	1.62	1.398	0.8261
0.451612903225806	11.13	7.067	2.724	1.619	1.396	0.8202
0.483870967741936	11.13	7.065	2.716	1.613	1.391	0.8151
0.516129032258065	11.13	7.063	2.711	1.598	1.375	0.8067
0.548387096774194	11.13	7.061	2.71	1.589	1.371	0.8048
0.580645161290323	11.12	7.057	2.692	1.587	1.366	0.7995
0.612903225806452	11.11	7.045	2.68	1.574	1.353	0.7991
0.645161290322581	11.1	7.039	2.675	1.565	1.338	0.789
0.67741935483871	11.1	7.037	2.673	1.551	1.336	0.7878
0.709677419354839	11.1	7.032	2.655	1.55	1.333	0.784
0.741935483870968	11.09	7.028	2.648	1.546	1.324	0.7799
0.774193548387097	11.08	7.021	2.647	1.528	1.309	0.7594
0.806451612903226	11.08	7.02	2.64	1.525	1.308	0.7555
0.838709677419355	11.08	7.018	2.633	1.516	1.299	0.7537

0.870967741935484	11.08	7.015	2.633	1.508	1.297	0.7477
0.903225806451613	11.06	6.997	2.627	1.508	1.29	0.744
0.935483870967742	10.92	6.863	2.625	1.506	1.29	0.7398
0.967741935483871	10.66	6.838	2.344	1.172	0.9521	0.4812
0.1	11.446	7.3698	2.9454	1.8393	1.6097	0.95858
Average of yearly averages:						0.8236833333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: grapesA

Metfile: w93193.dvf

PRZM scenario: CAgapes_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable	Name	Value	Units	Comments
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Molecular weight	mwt	281.3	g/mol		
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Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol	
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Vapor Pressure	vapr	3E-5	torr		
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Solubility	sol	3.75	mg/L		
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Kd	Kd		mg/L		
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Koc	Koc	17040	mg/L		
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Photolysis half-life	kdp	42	days	Half-life	
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Aerobic Aquatic Metabolism	kbacw	330	days	Halfife	
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Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife	
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Aerobic Soil Metabolism	asm	172	days	Halfife	
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Hydrolysis: pH 7	0	days	Half-life		
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Method:	CAM	1	integer	See PRZM manual	
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Incorporation Depth:	DEPI	4	cm		
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Application Rate: TAPP	4.44	kg/ha			
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Application Efficiency: APPEFF	.95	fraction			
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Spray Drift DRFT	.05	fraction of application rate applied to pond			
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Application Date	Date	24-01 dd/mm or dd/mm or dd-mm or dd-mmm			
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Record 17: FILTRA

IPSCND	1
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UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC	0.5
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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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20) Almonds, aerial application

stored as almondA.out

Chemical: pendimethalin

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
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1961	10.66	6.6	2.262	1.161	0.9478	0.5594
1962	11.01	6.947	2.565	1.812	1.562	1.042
1963	11.38	7.319	2.927	2.202	1.963	1.325
1964	11.52	7.455	3.677	2.29	2.017	1.362
1965	11.57	7.492	3.09	1.959	1.738	1.201
1966	11.45	7.383	3.006	1.899	1.679	1.145
1967	11.41	7.339	3.921	2.435	2.137	1.4
1968	11.53	7.572	3.199	2.068	1.83	1.238
1969	11.46	7.428	3.618	2.305	2.021	1.334
1970	11.54	7.451	3.552	2.187	1.924	1.29
1971	11.5	7.429	3.036	1.91	1.694	1.166
1972	11.42	7.36	2.968	1.857	1.639	1.113
1973	12.45	8.416	3.611	2.264	1.978	1.296
1974	11.49	7.425	3.046	1.914	1.692	1.157
1975	11.41	7.344	2.952	1.862	1.655	1.118
1976	11.36	7.3	2.907	1.778	1.563	1.062
1977	11.34	7.278	2.883	1.757	1.544	1.059
1978	11.72	7.514	3.688	2.304	2.004	1.301
1979	11.52	7.753	3.527	2.214	1.945	1.295
1980	11.83	8.121	3.531	2.262	1.988	1.327
1981	11.52	7.448	3.246	2.083	1.847	1.258
1982	11.62	7.504	3.064	1.991	1.81	1.289
1983	11.55	7.487	3.192	2.101	1.889	1.294
1984	11.49	7.43	3.034	1.903	1.68	1.129
1985	11.37	7.312	2.919	1.817	1.595	1.075
1986	11.37	7.307	2.924	2.172	1.921	1.278
1987	11.48	7.414	3.02	1.959	1.739	1.177
1988	11.41	7.349	3.019	1.861	1.64	1.093
1989	11.34	7.282	2.89	1.768	1.567	1.06
1990	11.35	8.199	3.799	2.302	2.001	1.29

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	12.45	8.416	3.921	2.435	2.137	1.4
0.0645161290322581	11.83	8.199	3.799	2.305	2.021	1.362
0.0967741935483871	11.72	8.121	3.688	2.304	2.017	1.334
0.129032258064516	11.62	7.753	3.677	2.302	2.004	1.327
0.161290322580645	11.57	7.572	3.618	2.29	2.001	1.325
0.193548387096774	11.55	7.514	3.611	2.264	1.988	1.301
0.225806451612903	11.54	7.504	3.552	2.262	1.978	1.296
0.258064516129032	11.53	7.492	3.531	2.214	1.963	1.295
0.290322580645161	11.52	7.487	3.527	2.202	1.945	1.294
0.32258064516129	11.52	7.455	3.246	2.187	1.924	1.29
0.354838709677419	11.52	7.451	3.199	2.172	1.921	1.29
0.387096774193548	11.5	7.448	3.192	2.101	1.889	1.289
0.419354838709677	11.49	7.43	3.09	2.083	1.847	1.278
0.451612903225806	11.49	7.429	3.064	2.068	1.83	1.258
0.483870967741936	11.48	7.428	3.046	1.991	1.81	1.238
0.516129032258065	11.46	7.425	3.036	1.959	1.739	1.201
0.548387096774194	11.45	7.414	3.034	1.959	1.738	1.177
0.580645161290323	11.42	7.383	3.02	1.914	1.694	1.166
0.612903225806452	11.41	7.36	3.019	1.91	1.692	1.157
0.645161290322581	11.41	7.349	3.006	1.903	1.68	1.145
0.67741935483871	11.41	7.344	2.968	1.899	1.679	1.129
0.709677419354839	11.38	7.339	2.952	1.862	1.655	1.118
0.741935483870968	11.37	7.319	2.927	1.861	1.64	1.113
0.774193548387097	11.37	7.312	2.924	1.857	1.639	1.093

0.806451612903226	11.36	7.307	2.919	1.817	1.595	1.075	
0.838709677419355	11.35	7.3	2.907	1.812	1.567	1.062	
0.870967741935484	11.34	7.282	2.89	1.778	1.563	1.06	
0.903225806451613	11.34	7.278	2.883	1.768	1.562	1.059	
0.935483870967742	11.01	6.947	2.565	1.757	1.544	1.042	
0.967741935483871	10.66	6.6	2.262	1.161	0.9478		0.5594
0.1	11.71	8.0842	3.6869	2.3038	2.0157	1.3333	
						Average of yearly averages:	1.19111333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: almonda

Metfile: w23232.dvf

PRZM scenario: CAalmond_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable	Name	Value	Units	Comments
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Molecular weight	mwt	281.3	g/mol		
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Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol	
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Vapor Pressure	vapr	3E-5	torr		
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Solubility	sol	3.75	mg/L		
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Kd	Kd		mg/L		
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Koc	Koc	17040	mg/L		
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Photolysis half-life	kdp	42	days	Half-life	
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Aerobic Aquatic Metabolism	kbacw	330	days	Halfife	
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Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife	
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Aerobic Soil Metabolism	asm	172	days	Halfife	
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Hydrolysis: pH 7	0	days	Half-life		
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Method:	CAM	1	integer	See PRZM manual	
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Incorporation Depth:	DEPI	4	cm		
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Application Rate: TAPP	4.44	kg/ha			
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Application Efficiency: APPEFF	.95	fraction			
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Spray Drift DRFT	.05	fraction of application rate applied to pond			
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Application Date	Date	09-01 dd/mm or dd/mm or dd-mm or dd-mmm			
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Record 17: FILTRA

IPSCND	1
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UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC	0.5
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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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21) Row crops, aerial application

stored as CARowcropA.out

Chemical: pendimethalin

PRZM environment: CARowCropRLF.txt modified Tuesday, 20 February 2007 at 12:04:10

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	10.47	6.479	2.275 1.191	0.9949	0.5787	
1962	10.84	6.846	2.592 2.166	1.93 1.32		
1963	11.39	7.389	3.072 2.479	2.321 1.667		
1964	11.63	7.623	4.062 2.678	2.417 1.689		
1965	11.64	7.636	3.323 2.209	2.009 1.476		
1966	11.52	7.521	3.229 2.246	2.026 1.424		
1967	12.07	8.294	5.116 3.415	3.09 2.157		
1968	11.93	8.055	3.712 2.708	2.499 1.788		
1969	11.7	7.69	3.857 2.867	2.59 1.817		
1970	11.69	7.68	4.093 2.712	2.465 1.727		
1971	11.67	7.671	3.351 2.239	2.062 1.474		
1972	11.49	7.493	3.175 2.07	1.865 1.307		
1973	12.26	7.948	3.834 2.667	2.385 1.64		
1974	11.62	7.617	3.296 2.209	2.056 1.481		
1975	11.49	7.492	3.174 2.242	2.15 1.562		
1976	11.57	7.58	3.26 2.192	2 1.41		
1977	11.46	7.457	3.129 2.019	1.83 1.277		
1978	11.41	7.383	3.423 2.489	2.255 1.566		
1979	11.6	7.69	3.931 2.878	2.607 1.811		
1980	11.71	8.043	3.755 2.646	2.412 1.703		
1981	11.64	7.64	3.625 2.498	2.27 1.597		
1982	11.9	7.798	3.38 2.549	2.446 1.884		
1983	11.83	7.83	3.93 2.844	2.631 1.865		
1984	11.72	7.724	3.401 2.283	2.074 1.468		
1985	11.48	7.486	3.168 2.336	2.115 1.478		
1986	11.5	7.498	3.173 2.471	2.31 1.637		
1987	11.61	7.602	3.278 2.439	2.211 1.549		
1988	11.51	7.509	3.262 2.123	1.938 1.363		
1989	11.39	7.391	3.074 1.985	1.794 1.234		
1990	11.3	7.343	3.037 1.987	1.779 1.214		

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	12.26	8.294	5.116 3.415	3.09 2.157		
0.0645161290322581		12.07	8.055 4.093	2.878 2.631	1.884	
0.0967741935483871		11.93	8.043 4.062	2.867 2.607	1.865	
0.129032258064516	11.9	7.948	3.931 2.844	2.59 1.817		
0.161290322580645	11.83	7.83	3.93 2.712	2.499 1.811		
0.193548387096774	11.72	7.798	3.857 2.708	2.465 1.788		
0.225806451612903	11.71	7.724	3.834 2.678	2.446 1.727		
0.258064516129032	11.7	7.69	3.755 2.667	2.417 1.703		
0.290322580645161	11.69	7.69	3.712 2.646	2.412 1.689		
0.32258064516129	11.67	7.68	3.625 2.549	2.385 1.667		
0.354838709677419	11.64	7.671	3.423 2.498	2.321 1.64		
0.387096774193548	11.64	7.64	3.401 2.489	2.31 1.637		
0.419354838709677	11.63	7.636	3.38 2.479	2.27 1.597		
0.451612903225806	11.62	7.623	3.351 2.471	2.255 1.566		
0.483870967741936	11.61	7.617	3.323 2.439	2.211 1.562		
0.516129032258065	11.6	7.602	3.296 2.336	2.15 1.549		
0.548387096774194	11.57	7.58	3.278 2.283	2.115 1.481		
0.580645161290323	11.52	7.521	3.262 2.246	2.074 1.478		
0.612903225806452	11.51	7.509	3.26 2.242	2.062 1.476		
0.645161290322581	11.5	7.498	3.229 2.239	2.056 1.474		
0.67741935483871	11.49	7.493	3.175 2.209	2.026 1.468		
0.709677419354839	11.49	7.492	3.174 2.209	2.009 1.424		

0.741935483870968	11.48	7.486	3.173	2.192	2	1.41
0.774193548387097	11.46	7.457	3.168	2.166	1.938	1.363
0.806451612903226	11.41	7.391	3.129	2.123	1.93	1.32
0.838709677419355	11.39	7.389	3.074	2.07	1.865	1.307
0.870967741935484	11.39	7.383	3.072	2.019	1.83	1.277
0.903225806451613	11.3	7.343	3.037	1.987	1.794	1.234
0.935483870967742	10.84	6.846	2.592	1.985	1.779	1.214
0.967741935483871	10.47	6.479	2.275	1.191	0.9949	0.5787
0.1	11.927	8.0335	4.0489	2.8647	2.6053	1.8602
Average of yearly averages:						1.53879

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CArowcropA

Metfile: w23234.dvf

PRZM scenario: CARowCropRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable	Name	Value	Units	Comments
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Molecular weight	mwt	281.3	g/mol		
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Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol	
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Vapor Pressure	vapr	3E-5	torr		
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Solubility	sol	3.75	mg/L		
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Kd	Kd		mg/L		
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Koc	Koc	17040	mg/L		
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Photolysis half-life	kdp	42	days	Half-life	
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Aerobic Aquatic Metabolism	kbacw	330	days	Halfife	
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Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife	
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Aerobic Soil Metabolism	asm	172	days	Halfife	
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Hydrolysis: pH 7	0	days	Half-life		
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Method:	CAM	1	integer	See PRZM manual	
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Incorporation Depth:	DEPI	4	cm		
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Application Rate:	TAPP	4.362	kg/ha		
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Application Efficiency:	APPEFF	.95	fraction		
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Spray Drift	DRFT	.05	fraction of application rate applied to pond		
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Application Date	Date	09-01	dd/mm or dd/mm or dd-mm or dd-mmm		
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Record 17: FILTRA

IPSCND	1
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UPTKF	
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Record 18: PLVKRT

PLDKRT	
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FEXTRC	0.5
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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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22) Rights-of-way, aerial application

stored as CArightofwayA.out

Chemical: pendimethalin

PRZM environment: CArightofwayRLF.txt modified Tuesday, 20 February 2007

at 12:04:22

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	10.66	6.594	2.632	1.462	1.279	0.7755
1962	11.21	7.145	4.082	3.088	2.722	1.894
1963	12.77	8.961	4.893	3.783	3.564	2.53
1964	12.41	8.713	5.715	3.762	3.375	2.362
1965	12.6	8.438	4.125	2.904	2.675	2.065
1966	12.33	8.229	3.89	3.118	2.808	2.024
1967	22.1	15.21	8.063	5.337	4.89	3.335
1968	12.9	10.01	5.241	4.318	4.042	2.876
1969	12.69	8.654	6.828	5.342	4.78	3.286
1970	13.49	9.884	7.438	5.041	4.487	3.106
1971	12.88	8.996	4.568	3.315	3.196	2.371
1972	12.35	8.277	3.959	2.827	2.568	1.939
1973	16.42	11.13	6.976	4.96	4.371	2.933
1974	12.86	8.744	4.448	3.396	3.252	2.415
1975	12.38	8.301	3.89	3.359	3.333	2.419
1976	12.43	8.344	3.915	2.967	2.728	1.982
1977	12.33	8.189	3.728	2.588	2.432	1.762
1978	13.32	9.022	6.001	4.411	4	2.711
1979	13.59	10.02	6.352	4.644	4.193	2.879
1980	13.54	11.17	6.24	4.977	4.476	3.094
1981	12.77	8.7	5.706	4.314	4.001	2.854
1982	13.76	9.344	4.987	3.997	3.889	3.033
1983	12.93	8.859	6.484	5.19	4.889	3.461
1984	13.07	8.995	4.578	3.441	3.188	2.372
1985	12.39	8.318	3.911	3.161	2.936	2.105
1986	12.27	8.589	4.831	3.975	3.805	2.646
1987	12.58	8.468	4.034	3.328	3.03	2.159
1988	12.24	8.137	4.375	2.901	2.595	1.874
1989	12.01	7.928	3.554	2.464	2.32	1.651
1990	11.82	8.078	3.905	2.716	2.408	1.653

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	22.1	15.21	8.063	5.342	4.89	3.461
0.0645161290322581	16.42	11.17	7.438	5.337	4.889	3.335
0.0967741935483871	13.76	11.13	6.976	5.19	4.78	3.286
0.129032258064516	13.59	10.02	6.828	5.041	4.487	3.106
0.161290322580645	13.54	10.01	6.484	4.977	4.476	3.094
0.193548387096774	13.49	9.884	6.352	4.96	4.371	3.033
0.225806451612903	13.32	9.344	6.24	4.644	4.193	2.933
0.258064516129032	13.07	9.022	6.001	4.411	4.042	2.879
0.290322580645161	12.93	8.996	5.715	4.318	4.001	2.876
0.32258064516129	12.9	8.995	5.706	4.314	4	2.854
0.354838709677419	12.88	8.961	5.241	3.997	3.889	2.711
0.387096774193548	12.86	8.859	4.987	3.975	3.805	2.646
0.419354838709677	12.77	8.744	4.893	3.783	3.564	2.53
0.451612903225806	12.77	8.713	4.831	3.762	3.375	2.419
0.483870967741936	12.69	8.7	4.578	3.441	3.333	2.415
0.516129032258065	12.6	8.654	4.568	3.396	3.252	2.372
0.548387096774194	12.58	8.589	4.448	3.359	3.196	2.371
0.580645161290323	12.43	8.468	4.375	3.328	3.188	2.362
0.612903225806452	12.41	8.438	4.125	3.315	3.03	2.159
0.645161290322581	12.39	8.344	4.082	3.161	2.936	2.105

0.67741935483871	12.38	8.318	4.034	3.118	2.808	2.065
0.709677419354839	12.35	8.301	3.959	3.088	2.728	2.024
0.741935483870968	12.33	8.277	3.915	2.967	2.722	1.982
0.774193548387097	12.33	8.229	3.911	2.904	2.675	1.939
0.806451612903226	12.27	8.189	3.905	2.901	2.595	1.894
0.838709677419355	12.24	8.137	3.89	2.827	2.568	1.874
0.870967741935484	12.01	8.078	3.89	2.716	2.432	1.762
0.903225806451613	11.82	7.928	3.728	2.588	2.408	1.653
0.935483870967742	11.21	7.145	3.554	2.464	2.32	1.651
0.967741935483871	10.66	6.594	2.632	1.462	1.279	0.7755

0.1	13.743	11.019	6.9612	5.1751	4.7507	3.268
Average of yearly averages:						2.41888333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CArighofwayA

Metfile: w23234.dvf

PRZM scenario: CArighofwayRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	281.3	g/mol	
Henry's Law Const.	henry	8.6E-7		atm-m^3/mol
Vapor Pressure	vapr	3E-5	torr	
Solubility	sol	3.75	mg/L	
Kd	Kd		mg/L	
Koc	Koc	17040	mg/L	
Photolysis half-life	kdp	42	days	Half-life
Aerobic Aquatic Metabolism	kbacw	330	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife
Aerobic Soil Metabolism	asm	172	days	Halfife
Hydrolysis: pH 7	0	days		Half-life
Method:	CAM	1	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	4.44	kg/ha	
Application Efficiency:	APPEFF	.95		fraction
Spray Drift	DRFT	.05		fraction of application rate applied to pond
Application Date	Date	09-01 dd/mm or dd/mm or dd-mm or dd-mmm		

23) Forestry, aerial application

stored as forestryA.out

Chemical: pendimethalin

PRZM environment: CAForestryRLF.txt modified Tuesday, 20 February 2007 at

12:06:10

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
 Metfile: w24283.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	10.66	6.593	2.484	2.057	1.814	1.288
1962	11.61	7.552	4.146	2.736	2.438	1.778
1963	12.01	7.939	3.541	2.486	2.358	2.011
1964	12.3	8.184	4.586	3.223	2.984	2.239
1965	12.39	8.317	4.021	2.843	2.601	2.111
1966	12.42	8.299	3.909	2.907	2.704	2.069
1967	12.25	8.183	4.66	3.407	3.206	2.412
1968	14.55	9.698	5.966	4.049	3.659	2.649
1969	20.57	13.78	8.019	5.482	4.927	3.542
1970	13.33	9.224	6.42	4.96	4.574	3.494
1971	13.32	9.579	5.341	3.978	3.836	3.024
1972	16.83	12.34	7.265	5.475	5.055	3.777
1973	13.44	9.398	5.336	4.028	3.876	3.068
1974	13.02	8.948	6.286	4.678	4.462	3.466
1975	14.07	9.716	4.994	4.133	4.244	3.443
1976	13.37	9.292	4.876	4.069	3.845	3.057
1977	12.97	8.901	4.494	3.343	3.138	2.449
1978	12.51	8.432	4.114	3.159	2.919	2.201
1979	12.29	8.486	3.997	2.861	2.619	2.026
1980	12.44	8.285	3.793	2.702	2.588	2.074
1981	16.9	11.54	6.345	4.505	4.085	2.985
1982	12.87	8.802	4.46	3.458	3.269	2.602
1983	12.68	8.61	5.442	4.223	3.974	3.044
1984	12.93	8.864	4.457	3.384	3.161	2.455
1985	12.55	8.484	4.08	3.524	3.278	2.533
1986	12.6	8.524	5.009	3.969	3.673	2.779
1987	12.75	8.699	4.345	3.364	3.147	2.419
1988	12.5	9.019	4.781	3.325	3.031	2.291
1989	12.42	8.415	4.134	3.016	2.787	2.113
1990	12.33	8.23	3.79	2.696	2.498	1.881

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	20.57	13.78	8.019	5.482	5.055	3.777
0.0645161290322581	16.9	12.34	7.265	5.475	4.927	3.542
0.0967741935483871	16.83	11.54	6.42	4.96	4.574	3.494
0.129032258064516	14.55	9.716	6.345	4.678	4.462	3.466
0.161290322580645	14.07	9.698	6.286	4.505	4.244	3.443
0.193548387096774	13.44	9.579	5.966	4.223	4.085	3.068
0.225806451612903	13.37	9.398	5.442	4.133	3.974	3.057
0.258064516129032	13.33	9.292	5.341	4.069	3.876	3.044
0.290322580645161	13.32	9.224	5.336	4.049	3.845	3.024
0.32258064516129	13.02	9.019	5.009	4.028	3.836	2.985
0.354838709677419	12.97	8.948	4.994	3.978	3.673	2.779
0.387096774193548	12.93	8.901	4.876	3.969	3.659	2.649
0.419354838709677	12.87	8.864	4.781	3.524	3.278	2.602
0.451612903225806	12.75	8.802	4.66	3.458	3.269	2.533
0.483870967741936	12.68	8.699	4.586	3.407	3.206	2.455
0.516129032258065	12.6	8.61	4.494	3.384	3.161	2.449
0.548387096774194	12.55	8.524	4.46	3.364	3.147	2.419
0.580645161290323	12.51	8.486	4.457	3.343	3.138	2.412

0.612903225806452	12.5	8.484	4.345	3.325	3.031	2.291
0.645161290322581	12.44	8.432	4.146	3.223	2.984	2.239
0.67741935483871	12.42	8.415	4.134	3.159	2.919	2.201
0.709677419354839	12.42	8.317	4.114	3.016	2.787	2.113
0.741935483870968	12.39	8.299	4.08	2.907	2.704	2.111
0.774193548387097	12.33	8.285	4.021	2.861	2.619	2.074
0.806451612903226	12.3	8.23	3.997	2.843	2.601	2.069
0.838709677419355	12.29	8.184	3.909	2.736	2.588	2.026
0.870967741935484	12.25	8.183	3.793	2.702	2.498	2.011
0.903225806451613	12.01	7.939	3.79	2.696	2.438	1.881
0.935483870967742	11.61	7.552	3.541	2.486	2.358	1.778
0.967741935483871	10.66	6.593	2.484	2.057	1.814	1.288

0.1	16.602	11.3576	6.4125	4.9318	4.5628	3.4912
Average of yearly averages:						2.576

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: forestryA

Metfile: w24283.dvf

PRZM scenario: CAFEorestryRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	281.3	g/mol	
Henry's Law Const.	henry	8.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	3E-5	torr	
Solubility	sol	3.75	mg/L	
Kd	Kd		mg/L	
Koc	Koc	17040	mg/L	
Photolysis half-life	kdp	42	days	Half-life
Aerobic Aquatic Metabolism	kbacw	330	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife
Aerobic Soil Metabolism	asm	172	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	1	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	4.44	kg/ha	
Application Efficiency:	APPEFF	.95		fraction
Spray Drift	DRFT	.05		fraction of application rate applied to pond
Application Date	Date	09-01	dd/mm or dd/mmm or dd-mm or dd-mmm	

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)

24) Impervious, 1% of application rate

stored as Impervious1pct.out

Chemical: pendimethalin

PRZM environment: CAImperviousRLF.txt modified Tuesday, 20 February 2007
at 13:05:44

EXAMS environment: pond298.exv modified Tuesday, 26 August 2008 at
06:14:08

Metfile: w23234.dvf modified Tuesday, 26 August 2008 at 06:15:38

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
1961	1.69	1.115	0.3904	0.1951	0.1583	0.0847	
1962	0.9043		0.6048	0.3405	0.1975	0.1694	0.1077
1963	2.583	1.815	0.7097	0.3845	0.3225	0.1913	
1964	0.4541		0.3871	0.246	0.1821	0.1681	0.1244
1965	0.3985		0.2911	0.1927	0.1367	0.1248	0.09156
1966	2.576	1.678	0.6137	0.3347	0.2814	0.1679	
1967	5.385	3.943	1.444	0.7687	0.6405	0.375	
1968	3.013	1.953	0.847	0.5333	0.4703	0.3173	
1969	1.032	0.7827		0.4412	0.3197	0.2938	0.2147
1970	2.107	1.451	0.6092	0.371	0.3235	0.213	
1971	1.009	0.711	0.3441	0.237	0.2149	0.1542	
1972	0.5264		0.376	0.2053	0.152	0.1403	0.1045
1973	4.33	2.808	1.016	0.5394	0.4489	0.265	
1974	0.5966		0.4395	0.2914	0.2235	0.2081	0.1565
1975	2.643	1.744	0.6571	0.3759	0.3219	0.2029	
1976	1.325	0.8731		0.3835	0.2706	0.2426	0.1691
1977	0.5153		0.3619	0.1955	0.1778	0.1638	0.1207
1978	2.217	1.453	0.6392	0.3571	0.3026	0.186	
1979	0.958	0.6968		0.3762	0.2437	0.2169	0.1482
1980	2.202	1.752	0.6891	0.3883	0.3303	0.2061	
1981	0.4372		0.3244	0.2083	0.166	0.1558	0.1191
1982	0.6583		0.5003	0.2351	0.1564	0.1404	0.09871
1983	1.797	1.137	0.5142	0.2877	0.2441	0.1488	
1984	0.8791		0.5812	0.2558	0.1718	0.1539	0.1063
1985	0.3141		0.2211	0.1602	0.1145	0.1044	0.07557
1986	0.6599		0.4861	0.2168	0.1323	0.1155	0.07608
1987	0.6511		0.4608	0.1972	0.1212	0.1061	0.06977
1988	0.2022		0.1583	0.0919	0.06775	0.06234	0.04533
1989	0.6617		0.4207	0.1644	0.09623	0.08287	0.05241
1990	2.905	2.051	0.7251	0.3765	0.3107	0.1771	

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	5.385	3.943	1.444	0.7687	0.6405	0.375	
0.0645161290322581		4.33	2.808	1.016	0.5394	0.4703	0.3173
0.0967741935483871		3.013	2.051	0.847	0.5333	0.4489	0.265
0.129032258064516	2.905	1.953	0.7251		0.3883	0.3303	0.2147
0.161290322580645	2.643	1.815	0.7097		0.3845	0.3235	0.213
0.193548387096774	2.583	1.752	0.6891		0.3765	0.3225	0.2061
0.225806451612903	2.576	1.744	0.6571		0.3759	0.3219	0.2029
0.258064516129032	2.217	1.678	0.6392		0.371	0.3107	0.1913
0.290322580645161	2.202	1.453	0.6137		0.3571	0.3026	0.186
0.32258064516129	2.107	1.451	0.6092		0.3347	0.2938	0.1771
0.354838709677419	1.797	1.137	0.5142		0.3197	0.2814	0.1691
0.387096774193548	1.69	1.115	0.4412		0.2877	0.2441	0.1679
0.419354838709677	1.325	0.8731		0.3904	0.2706	0.2426	
0.1565							
0.451612903225806	1.032	0.7827		0.3835	0.2437	0.2169	
0.1542							

0.483870967741936	1.009	0.711	0.3762	0.237	0.2149	0.1488
0.516129032258065	0.958	0.6968	0.3441	0.2235	0.2081	
0.1482						
0.548387096774194	0.9043		0.6048	0.3405	0.1975	0.1694
0.1244						
0.580645161290323	0.8791		0.5812	0.2914	0.1951	0.1681
0.1207						
0.612903225806452	0.6617		0.5003	0.2558	0.1821	0.1638
0.1191						
0.645161290322581	0.6599		0.4861	0.246	0.1778	0.1583
0.1077						
0.67741935483871	0.6583		0.4608	0.2351	0.1718	0.1558
0.1063						
0.709677419354839	0.6511		0.4395	0.2168	0.166	0.1539
0.1045						
0.741935483870968	0.5966		0.4207	0.2083	0.1564	0.1404
0.09871						
0.774193548387097	0.5264		0.3871	0.2053	0.152	0.1403
0.09156						
0.806451612903226	0.5153		0.376	0.1972	0.1367	0.1248
0.0847						
0.838709677419355	0.4541		0.3619	0.1955	0.1323	0.1155
0.07608						
0.870967741935484	0.4372		0.3244	0.1927	0.1212	0.1061
0.07557						
0.903225806451613	0.3985		0.2911	0.1644	0.1145	0.1044
0.06977						
0.935483870967742	0.3141		0.2211	0.1602	0.09623	0.08287
0.05241						
0.967741935483871	0.2022		0.1583	0.0919	0.06775	0.06234
0.04533						
0.1	3.0022	2.0412	0.83481	0.5188	0.43704	0.25997
Average of yearly averages:						0.152331

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: Impervious1pct

Metfile: w23234.dvf

PRZM scenario: CAImperviousRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable	Name	Value	Units	Comments
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Molecular weight	mwt	281.3	g/mol		
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Henry's Law Const.	henry	8.6E-7	atm-m ³ /mol		
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Vapor Pressure	vapr	3E-5	torr		
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Solubility	sol	3.75	mg/L		
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Kd	Kd	mg/L			
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Koc	Koc	17040	mg/L		
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Photolysis half-life	kdp	42	days	Half-life	
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Aerobic Aquatic Metabolism	kbacw	330	days	Halfife	
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Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife	
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Aerobic Soil Metabolism	asm	172	days	Halfife	
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Hydrolysis: pH 7	0	days	Half-life		
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Method:	CAM	1	integer	See PRZM manual	
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Incorporation Depth:	DEPI	4	cm		
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Application Rate: TAPP 0.0444 kg/ha
 Application Efficiency: APPEFF 1 fraction
 Spray Drift DRFT 0 fraction of application rate applied to pond
 Application Date Date 09-01 dd/mm or dd/mm or dd-mm or dd-
 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)

25) Forestry, aerial, PRZM volatility routine turned off

stored as forestryNoVol.out
 Chemical: pendimethalin
 PRZM environment: CAForestryRLF.txt modified Tuesday, 20 February 2007 at
 13:06:10
 EXAMS environment: pond298.exv modified Tuesday, 26 August 2008 at
 06:14:08
 Metfile: w24283.dvf modified Tuesday, 26 August 2008 at 06:15:56
 Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	10.66	6.593	2.888	2.26	2.018	1.493
1962	11.79	7.726	4.401	2.976	2.669	2.001
1963	12.23	8.161	3.983	3.134	2.934	2.442
1964	12.68	8.564	5.02	3.642	3.418	2.619
1965	12.72	8.64	4.352	3.165	2.917	2.516
1966	12.85	8.715	4.306	3.332	3.142	2.461
1967	12.59	8.528	5.104	3.84	3.675	2.822
1968	14.9	10.04	6.346	4.406	4.011	2.945
1969	21.3	14.33	8.428	5.847	5.275	3.822
1970	13.55	9.439	6.78	5.311	4.913	3.774
1971	13.55	9.814	5.589	4.215	4.136	3.31
1972	18.41	13.49	7.779	5.976	5.551	4.184
1973	13.76	9.712	5.667	4.347	4.254	3.422
1974	13.32	9.411	6.675	5.097	4.954	3.937
1975	14.47	10.11	6.097	5.003	4.881	4.051
1976	13.87	9.795	5.374	4.678	4.462	3.608
1977	13.4	9.338	4.926	3.77	3.586	2.868
1978	12.89	8.813	4.496	3.583	3.345	2.568
1979	12.58	8.787	4.292	3.17	2.924	2.332
1980	12.71	8.555	4.059	2.988	2.932	2.463
1981	18.48	12.68	6.907	5.011	4.573	3.386
1982	13.2	9.128	4.789	3.834	3.672	2.988
1983	13.02	8.944	5.91	4.696	4.47	3.479
1984	13.26	9.197	4.787	3.734	3.518	2.783
1985	12.85	8.786	4.407	3.966	3.721	2.93
1986	12.96	8.886	5.434	4.488	4.192	3.219
1987	13.1	9.046	4.696	3.747	3.543	2.766
1988	12.81	9.338	5.113	3.638	3.336	2.581
1989	12.69	8.69	4.42	3.324	3.103	2.391
1990	12.61	8.487	4.026	2.938	2.753	2.108

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	21.3	14.33	8.428	5.976	5.551	4.184
0.0645161290322581		18.48	13.49	7.779	5.847	5.275
0.0967741935483871		18.41	12.68	6.907	5.311	4.954
0.129032258064516	14.9	10.11	6.78	5.097	4.913	3.822
0.161290322580645	14.47	10.04	6.675	5.011	4.881	3.774
0.193548387096774	13.87	9.814	6.346	5.003	4.573	3.608
0.225806451612903	13.76	9.795	6.097	4.696	4.47	3.479
0.258064516129032	13.55	9.712	5.91	4.678	4.462	3.422
0.290322580645161	13.55	9.439	5.667	4.488	4.254	3.386
0.32258064516129	13.4	9.411	5.589	4.406	4.192	3.31
0.354838709677419	13.32	9.338	5.434	4.347	4.136	3.219
0.387096774193548	13.26	9.338	5.374	4.215	4.011	2.988
0.419354838709677	13.2	9.197	5.113	3.966	3.721	2.945
0.451612903225806	13.1	9.128	5.104	3.84	3.675	2.93
0.483870967741936	13.02	9.046	5.02	3.834	3.672	2.868
0.516129032258065	12.96	8.944	4.926	3.77	3.586	2.822
0.548387096774194	12.89	8.886	4.789	3.747	3.543	2.783
0.580645161290323	12.85	8.813	4.787	3.734	3.518	2.766
0.612903225806452	12.85	8.787	4.696	3.642	3.418	2.619
0.645161290322581	12.81	8.786	4.496	3.638	3.345	2.581
0.67741935483871	12.72	8.715	4.42	3.583	3.336	2.568
0.709677419354839	12.71	8.69	4.407	3.332	3.142	2.516
0.741935483870968	12.69	8.64	4.401	3.324	3.103	2.463
0.774193548387097	12.68	8.564	4.352	3.17	2.934	2.461
0.806451612903226	12.61	8.555	4.306	3.165	2.932	2.442
0.838709677419355	12.59	8.528	4.292	3.134	2.924	2.391
0.870967741935484	12.58	8.487	4.059	2.988	2.917	2.332
0.903225806451613	12.23	8.161	4.026	2.976	2.753	2.108
0.935483870967742	11.79	7.726	3.983	2.938	2.669	2.001
0.967741935483871	10.66	6.593	2.888	2.26	2.018	1.493
0.1	18.059	12.423	6.8943	5.2896	4.9499	3.9255
Average of yearly averages:						2.9423

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: forestryNoVol

Metfile: w24283.dvf

PRZM scenario: CAForestryRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable	Name	Value	Units	Comments
Molecular weight	mwt	281.3	g/mol		
Henry's Law Const.	henry	8.6E-7	atm-m ³ /mol		
Vapor Pressure	vapr	3E-5	torr		
Solubility	sol	3.75	mg/L		
Kd	Kd		mg/L		
Koc	Koc	17040	mg/L		
Photolysis half-life	kdp	42	days		Half-life
Aerobic Aquatic Metabolism	kbacw	330	days		Halfife
Anaerobic Aquatic Metabolism	kbacs	208	days		Halfife
Aerobic Soil Metabolism	asm	172	days		Halfife
Hydrolysis: pH 7	0		days		Half-life

Method: CAM 1 integer See PRZM manual
 Incorporation Depth: DEPI 4 cm
 Application Rate: TAPP 4.44 kg/ha
 Application Efficiency: APPEFF .95 fraction
 Spray Drift DRFT .05 fraction of application rate applied to pond
 Application Date Date 09-01 dd/mm or dd/mmm or dd-mm or dd-mmm
 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)

26) Forestry, aerial, benthic pore water concentrations

stored as forestryKABAMben.out
 Chemical: pendimethalin
 PRZM environment: CAForestryRLF.txt modified Tuesday, 20 February 2007 at 13:06:10
 EXAMS environment: pond298.exv modified Tuesday, 26 August 2008 at 06:14:08
 Metfile: w24283.dvf modified Tuesday, 26 August 2008 at 06:15:56
 Benthic segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	1.151	1.151	1.145	1.131	1.134	0.9449
1962	1.673	1.672	1.665	1.647	1.627	1.402
1963	1.933	1.933	1.922	1.878	1.84	1.608
1964	2.129	2.128	2.118	2.101	2.089	1.807
1965	1.959	1.958	1.948	1.917	1.897	1.726
1966	1.963	1.963	1.956	1.934	1.924	1.679
1967	2.279	2.278	2.27	2.25	2.246	1.942
1968	2.646	2.646	2.632	2.59	2.554	2.145
1969	3.455	3.453	3.447	3.418	3.376	2.841
1970	3.412	3.411	3.396	3.367	3.328	2.851
1971	2.899	2.899	2.886	2.848	2.855	2.512
1972	3.697	3.696	3.677	3.607	3.587	3.051
1973	2.969	2.969	2.955	2.904	2.908	2.551
1974	3.299	3.298	3.282	3.218	3.195	2.819
1975	3.339	3.338	3.323	3.264	3.209	2.811
1976	2.986	2.986	2.973	2.93	2.895	2.541
1977	2.431	2.43	2.42	2.378	2.355	2.038
1978	2.168	2.167	2.157	2.124	2.102	1.807
1979	1.921	1.921	1.913	1.9	1.884	1.657
1980	1.919	1.918	1.908	1.884	1.871	1.677
1981	2.938	2.938	2.931	2.891	2.852	2.383
1982	2.441	2.441	2.431	2.423	2.405	2.14
1983	2.854	2.853	2.845	2.822	2.821	2.447
1984	2.394	2.394	2.383	2.374	2.358	2.032
1985	2.475	2.475	2.465	2.43	2.399	2.068
1986	2.696	2.695	2.687	2.652	2.613	2.256
1987	2.348	2.348	2.336	2.319	2.298	1.99
1988	2.268	2.267	2.257	2.219	2.187	1.875

1989	2.044	2.043	2.034	2.013	2.003	1.734
1990	1.808	1.808	1.803	1.796	1.787	1.54

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	3.697	3.696	3.677	3.607	3.587	3.051
0.0645161290322581		3.455	3.453	3.447	3.418	3.376
0.0967741935483871		3.412	3.411	3.396	3.367	3.328
0.129032258064516	3.339	3.338	3.323	3.264	3.209	2.819
0.161290322580645	3.299	3.298	3.282	3.218	3.195	2.811
0.193548387096774	2.986	2.986	2.973	2.93	2.908	2.551
0.225806451612903	2.969	2.969	2.955	2.904	2.895	2.541
0.258064516129032	2.938	2.938	2.931	2.891	2.855	2.512
0.290322580645161	2.899	2.899	2.886	2.848	2.852	2.447
0.32258064516129	2.854	2.853	2.845	2.822	2.821	2.383
0.354838709677419	2.696	2.695	2.687	2.652	2.613	2.256
0.387096774193548	2.646	2.646	2.632	2.59	2.554	2.145
0.419354838709677	2.475	2.475	2.465	2.43	2.405	2.14
0.451612903225806	2.441	2.441	2.431	2.423	2.399	2.068
0.483870967741936	2.431	2.43	2.42	2.378	2.358	2.038
0.516129032258065	2.394	2.394	2.383	2.374	2.355	2.032
0.548387096774194	2.348	2.348	2.336	2.319	2.298	1.99
0.580645161290323	2.279	2.278	2.27	2.25	2.246	1.942
0.612903225806452	2.268	2.267	2.257	2.219	2.187	1.875
0.645161290322581	2.168	2.167	2.157	2.124	2.102	1.807
0.67741935483871	2.129	2.128	2.118	2.101	2.089	1.807
0.709677419354839	2.044	2.043	2.034	2.013	2.003	1.734
0.741935483870968	1.963	1.963	1.956	1.934	1.924	1.726
0.774193548387097	1.959	1.958	1.948	1.917	1.897	1.679
0.806451612903226	1.933	1.933	1.922	1.9	1.884	1.677
0.838709677419355	1.921	1.921	1.913	1.884	1.871	1.657
0.870967741935484	1.919	1.918	1.908	1.878	1.84	1.608
0.903225806451613	1.808	1.808	1.803	1.796	1.787	1.54
0.935483870967742	1.673	1.672	1.665	1.647	1.627	1.402
0.967741935483871	1.151	1.151	1.145	1.131	1.134	0.9449
0.1	3.4047	3.4037	3.3887	3.3567	3.3161	2.8388
			Average of yearly averages:		2.09583	

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: forestryKABAM

Metfile: w24283.dvf

PRZM scenario: CAForestryRLF.txt

EXAMS environment file: pond298.exv

Chemical Name: pendimethalin

Description	Variable	Name	Value	Units	Comments
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Molecular weight	mwt	281.3	g/mol		
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Henry's Law Const.	henry	8.6E-7		atm-m^3/mol	
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Vapor Pressure	vapr	3E-5	torr		
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Solubility	sol	3.75	mg/L		
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Kd	Kd		mg/L		
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Koc	Koc	17040	mg/L		
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Photolysis half-life	kdp	42	days	Half-life	
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Aerobic Aquatic Metabolism	kbacw	330	days	Halfife	
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Anaerobic Aquatic Metabolism	kbacs	208	days	Halfife	
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Aerobic Soil Metabolism asm 172 days Halfife
Hydrolysis: pH 7 0 days Half-life
Method: CAM 1 integer See PRZM manual
Incorporation Depth: DEPI 4 cm
Application Rate: TAPP 4.44 kg/ha
Application Efficiency: APPEFF .95 fraction
Spray Drift DRFT .05 fraction of application rate applied to pond
Application Date Date 09-01 dd/mm or dd/mmm or dd-mm or dd-mmm
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)