

APPENDIX H. PRZM/EXAMS Model Output Files

stored as CAfieldcorn_broadcast.out

Chemical: Alachlor

PRZM environment: CAcornOP.txt modified Thuday, 14 June 2007 at 11:21:10

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

Metfile: w23232.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	7.441	7.397	7.212	6.669	6.25	3.086
1962	12.36	12.28	11.94	11.12	10.45	5.603
1963	11.59	11.53	11.25	10.73	10.15	5.734
1964	7.252	7.203	7.003	6.54	6.167	3.62
1965	4.348	4.315	4.186	3.901	3.755	2.301
1966	3.235	3.212	3.116	2.89	2.706	1.556
1967	11.28	11.21	10.98	10.37	9.775	5.039
1968	13.47	13.38	13.03	12.05	11.28	6.138
1969	5.027	4.989	4.83	4.723	4.556	2.855
1970	21.87	21.75	21.16	19.68	18.45	9.518
1971	13.01	12.92	12.77	12.1	11.43	6.638
1972	5.012	4.971	4.804	4.45	4.181	2.613
1973	17.94	17.82	17.4	16.3	15.25	7.714
1974	46.05	45.81	45.01	42.07	39.69	21.1
1975	15.93	15.84	15.5	14.74	13.9	8.657
1976	16.64	16.52	16.02	15.07	14.21	7.599
1977	12.73	12.64	12.29	11.32	10.64	6.064
1978	16.08	15.95	15.61	14.51	13.62	7.381
1979	13.05	12.98	12.79	12.01	11.23	6.245
1980	29.87	29.67	28.85	26.98	25.41	13.7
1981	25.71	25.6	24.89	23.24	22.1	12.41
1982	39.38	39.12	38.06	35.65	33.68	18.74
1983	45.44	45.21	44.36	41.66	39.37	21.58
1984	11.56	11.49	11.17	10.53	9.957	6.407
1985	6.418	6.377	6.219	5.781	5.452	3.157
1986	12.64	12.54	12.13	11.22	10.54	5.585
1987	48.43	48.07	46.92	43.43	40.44	20.59
1988	11.78	11.67	11.27	10.29	10.29	7.079
1989	12.87	12.77	12.54	11.61	10.85	5.921
1990	4.709	4.675	4.572	4.254	3.986	2.424

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			48.43	48.07	46.92	43.43	40.44	21.58
0.0645161290322581			46.05	45.81	45.01	42.07	39.69	21.1
0.0967741935483871			45.44	45.21	44.36	41.66	39.37	20.59
0.129032258064516			39.38	39.12	38.06	35.65	33.68	18.74
0.161290322580645			29.87	29.67	28.85	26.98	25.41	13.7
0.193548387096774			25.71	25.6	24.89	23.24	22.1	12.41
0.225806451612903			21.87	21.75	21.16	19.68	18.45	9.518
0.258064516129032			17.94	17.82	17.4	16.3	15.25	8.657
0.290322580645161			16.64	16.52	16.02	15.07	14.21	7.714
0.32258064516129			16.08	15.95	15.61	14.74	13.9	7.599
0.354838709677419			15.93	15.84	15.5	14.51	13.62	7.381
0.387096774193548			13.47	13.38	13.03	12.1	11.43	7.079

0.419354838709677	13.05	12.98	12.79	12.05	11.28	6.638
0.451612903225806	13.01	12.92	12.77	12.01	11.23	6.407
0.483870967741936	12.87	12.77	12.54	11.61	10.85	6.245
0.516129032258065	12.73	12.64	12.29	11.32	10.64	6.138
0.548387096774194	12.64	12.54	12.13	11.22	10.54	6.064
0.580645161290323	12.36	12.28	11.94	11.12	10.45	5.921
0.612903225806452	11.78	11.67	11.27	10.73	10.29	5.734
0.645161290322581	11.59	11.53	11.25	10.53	10.15	5.603
0.67741935483871	11.56	11.49	11.17	10.37	9.957	5.585
0.709677419354839	11.28	11.21	10.98	10.29	9.775	5.039
0.741935483870968	7.441	7.397	7.212	6.669	6.25	3.62
0.774193548387097	7.252	7.203	7.003	6.54	6.167	3.157
0.806451612903226	6.418	6.377	6.219	5.781	5.452	3.086
0.838709677419355	5.027	4.989	4.83	4.723	4.556	2.855
0.870967741935484	5.012	4.971	4.804	4.45	4.181	2.613
0.903225806451613	4.709	4.675	4.572	4.254	3.986	2.424
0.935483870967742	4.348	4.315	4.186	3.901	3.755	2.301
0.967741935483871	3.235	3.212	3.116	2.89	2.706	1.556

0.1	44.834	44.601	43.73	41.059	38.801	20.405	
						Average of yearly averages:	7.9018

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAfieldcorn_broadcast

Metfile: w23232.dvf

PRZM scenario: CAcornOP.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mw	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	1	integer		See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate: TAPP		4.48	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-03	dd/mm or dd/mm/yy or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAfieldcorn.out

Chemical: Alachlor

PRZM environment: CAcornOP.txt modified Thuday, 14 June 2007 at 11:21:10

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

Metfile: w23232.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	3.354	3.34	3.248	3.004	2.815	1.434
1962	4.837	4.806	4.679	4.357	4.093	2.225
1963	4.627	4.607	4.543	4.312	4.073	2.345
1964	3.839	3.812	3.705	3.458	3.26	1.853
1965	2.973	2.953	2.868	2.804	2.676	1.547
1966	2.907	2.886	2.8	2.595	2.429	1.347
1967	4.625	4.598	4.514	4.256	4.019	2.163
1968	5.115	5.08	4.944	4.57	4.305	2.377
1969	3.268	3.246	3.154	3.004	2.852	1.641
1970	7.151	7.106	6.903	6.42	6.041	3.163
1971	5.066	5.031	4.936	4.644	4.383	2.535
1972	3.299	3.272	3.159	2.922	2.743	1.576
1973	6.312	6.271	6.114	5.713	5.342	2.762
1974	12.86	12.8	12.54	11.72	11.05	5.916
1975	5.758	5.723	5.631	5.331	5.066	3
1976	5.972	5.929	5.749	5.387	5.066	2.707
1977	4.956	4.923	4.784	4.408	4.14	2.393
1978	5.762	5.715	5.577	5.182	4.863	2.66
1979	5.028	5.004	4.897	4.573	4.274	2.411
1980	9.024	8.965	8.729	8.16	7.683	4.181
1981	7.993	7.953	7.746	7.286	6.931	3.874
1982	11.26	11.18	10.88	10.19	9.63	5.378
1983	12.77	12.7	12.45	11.68	11.04	6.054
1984	4.696	4.663	4.519	4.313	4.056	2.41
1985	3.49	3.467	3.377	3.18	3.005	1.671
1986	4.945	4.903	4.738	4.401	4.129	2.243
1987	13.43	13.33	12.99	12.02	11.2	5.771
1988	4.637	4.6	4.447	4.231	4.134	2.572
1989	5.034	5.007	4.885	4.517	4.22	2.3
1990	3.199	3.176	3.087	2.861	2.677	1.498

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			13.43	13.33	12.99	12.02	11.2	6.054
0.0645161290322581			12.86	12.8	12.54	11.72	11.05	5.916
0.0967741935483871			12.77	12.7	12.45	11.68	11.04	5.771
0.129032258064516			11.26	11.18	10.88	10.19	9.63	5.378
0.161290322580645			9.024	8.965	8.729	8.16	7.683	4.181
0.193548387096774			7.993	7.953	7.746	7.286	6.931	3.874
0.225806451612903			7.151	7.106	6.903	6.42	6.041	3.163
0.258064516129032			6.312	6.271	6.114	5.713	5.342	3
0.290322580645161			5.972	5.929	5.749	5.387	5.066	2.762
0.32258064516129			5.762	5.723	5.631	5.331	5.066	2.707
0.354838709677419			5.758	5.715	5.577	5.182	4.863	2.66
0.387096774193548			5.115	5.08	4.944	4.644	4.383	2.572
0.419354838709677			5.066	5.031	4.936	4.573	4.305	2.535
0.451612903225806			5.034	5.007	4.897	4.57	4.274	2.411
0.483870967741936			5.028	5.004	4.885	4.517	4.22	2.41

0.516129032258065	4.956	4.923	4.784	4.408	4.14	2.393
0.548387096774194	4.945	4.903	4.738	4.401	4.134	2.377
0.580645161290323	4.837	4.806	4.679	4.357	4.129	2.345
0.612903225806452	4.696	4.663	4.543	4.313	4.093	2.3
0.645161290322581	4.637	4.607	4.519	4.312	4.073	2.243
0.67741935483871	4.627	4.6	4.514	4.256	4.056	2.225
0.709677419354839	4.625	4.598	4.447	4.231	4.019	2.163
0.741935483870968	3.839	3.812	3.705	3.458	3.26	1.853
0.774193548387097	3.49	3.467	3.377	3.18	3.005	1.671
0.806451612903226	3.354	3.34	3.248	3.004	2.852	1.641
0.838709677419355	3.299	3.272	3.159	3.004	2.815	1.576
0.870967741935484	3.268	3.246	3.154	2.922	2.743	1.547
0.903225806451613	3.199	3.176	3.087	2.861	2.677	1.498
0.935483870967742	2.973	2.953	2.868	2.804	2.676	1.434
0.967741935483871	2.907	2.886	2.8	2.595	2.429	1.347

0.1	12.619	12.548	12.293	11.531	10.899	5.7317	
						Average of yearly averages:	2.80023333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAfieldcorn

Metfile: w23232.dvf

PRZM scenario: CAcornOP.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	4	integer		See PRZM manual
Incorporation Depth:	DEPI	10	cm	
Application Rate: TAPP		4.48	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAsweetcorn_broadcast_CAM2.out

Chemical: Alachlor

PRZM environment: CAcornOP.txt modified Thuday, 14 June 2007 at 11:21:10

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

Metfile: w23232.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	2.239	2.218	2.129	1.91	1.728	0.8374
1962	12.02	11.9	11.44	10.65	9.441	3.551
1963	9.122	9.084	8.924	8.487	8.112	5.71
1964	4.032	3.994	3.837	3.481	3.196	2.529
1965	4.278	4.235	4.058	3.683	3.4	2.574
1966	5.452	5.412	5.335	4.836	3.632	2.401
1967	5.617	5.56	5.325	4.816	4.425	3.274
1968	3.235	3.202	3.068	2.756	2.513	1.583
1969	3.022	2.988	2.851	2.564	2.351	1.617
1970	3.511	3.47	3.304	2.951	2.693	1.79
1971	3.143	3.113	2.994	2.716	2.49	1.483
1972	2.852	2.821	2.694	2.414	2.203	1.292
1973	2.892	2.857	2.714	2.402	2.176	1.316
1974	3.129	3.085	2.91	2.576	2.613	1.747
1975	3.318	3.279	3.12	2.778	2.528	1.615
1976	3.013	2.975	2.822	2.496	2.264	1.323
1977	6.096	6.042	5.823	5.285	4.845	2.544
1978	3.668	3.626	3.457	3.099	2.837	1.928
1979	3.307	3.27	3.118	2.788	2.542	1.801
1980	3.592	3.557	3.415	3.104	2.859	1.907
1981	3.25	3.217	3.08	2.756	2.506	1.584
1982	2.99	2.959	2.833	2.569	2.375	1.593
1983	3.281	3.248	3.112	2.805	2.574	1.653
1984	3.02	2.981	2.824	2.502	2.272	1.611
1985	3.526	3.491	3.348	3.003	2.727	1.756
1986	2.888	2.857	2.73	2.448	2.236	1.286
1987	3.646	3.606	3.467	3.282	2.733	1.649
1988	5.029	4.976	4.76	4.302	3.929	2.563
1989	11.54	11.43	10.89	9.95	9.418	3.894
1990	21.6	21.37	20.24	17.75	16.01	9.39

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			21.6	21.37	20.24	17.75	16.01	9.39
0.0645161290322581			12.02	11.9	11.44	10.65	9.441	5.71
0.0967741935483871			11.54	11.43	10.89	9.95	9.418	3.894
0.129032258064516			9.122	9.084	8.924	8.487	8.112	3.551
0.161290322580645			6.096	6.042	5.823	5.285	4.845	3.274
0.193548387096774			5.617	5.56	5.335	4.836	4.425	2.574
0.225806451612903			5.452	5.412	5.325	4.816	3.929	2.563
0.258064516129032			5.029	4.976	4.76	4.302	3.632	2.544
0.290322580645161			4.278	4.235	4.058	3.683	3.4	2.529
0.32258064516129			4.032	3.994	3.837	3.481	3.196	2.401
0.354838709677419			3.668	3.626	3.467	3.282	2.859	1.928
0.387096774193548			3.646	3.606	3.457	3.104	2.837	1.907
0.419354838709677			3.592	3.557	3.415	3.099	2.733	1.801
0.451612903225806			3.526	3.491	3.348	3.003	2.727	1.79
0.483870967741936			3.511	3.47	3.304	2.951	2.693	1.756

0.516129032258065	3.318	3.279	3.12	2.805	2.613	1.747
0.548387096774194	3.307	3.27	3.118	2.788	2.574	1.653
0.580645161290323	3.281	3.248	3.112	2.778	2.542	1.649
0.612903225806452	3.25	3.217	3.08	2.756	2.528	1.617
0.645161290322581	3.235	3.202	3.068	2.756	2.513	1.615
0.67741935483871	3.143	3.113	2.994	2.716	2.506	1.611
0.709677419354839	3.129	3.085	2.91	2.576	2.49	1.593
0.741935483870968	3.022	2.988	2.851	2.569	2.375	1.584
0.774193548387097	3.02	2.981	2.833	2.564	2.351	1.583
0.806451612903226	3.013	2.975	2.824	2.502	2.272	1.483
0.838709677419355	2.99	2.959	2.822	2.496	2.264	1.323
0.870967741935484	2.892	2.857	2.73	2.448	2.236	1.316
0.903225806451613	2.888	2.857	2.714	2.414	2.203	1.292
0.935483870967742	2.852	2.821	2.694	2.402	2.176	1.286
0.967741935483871	2.239	2.218	2.129	1.91	1.728	0.8374

0.1	11.2982	11.1954	10.6934	9.8037	9.2874	3.8597	
	Average of yearly averages:					2.32671333333333	

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAsweetcorn_broadcast_CAM2

Metfile: w23232.dvf

PRZM scenario: CAcornOP.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	2	integer		See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate: TAPP		4.48	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-05	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAsweetcorn.out

Chemical: Alachlor

PRZM environment: CAcornOP.txt modified Thuday, 14 June 2007 at 11:21:10

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

Metfile: w23232.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	2.239	2.218	2.129	1.91	1.728	0.7637
1962	2.679	2.653	2.546	2.299	2.106	1.298
1963	3.227	3.197	3.078	2.795	2.57	1.56
1964	2.883	2.855	2.741	2.483	2.278	1.304
1965	2.853	2.824	2.704	2.45	2.26	1.304
1966	2.842	2.812	2.688	2.41	2.206	1.283
1967	2.975	2.944	2.817	2.543	2.329	1.311
1968	2.752	2.724	2.609	2.342	2.135	1.176
1969	2.787	2.756	2.628	2.363	2.166	1.205
1970	2.799	2.766	2.632	2.349	2.142	1.19
1971	2.774	2.748	2.642	2.396	2.196	1.199
1972	2.765	2.735	2.612	2.34	2.136	1.18
1973	2.771	2.738	2.601	2.301	2.085	1.154
1974	2.756	2.729	2.617	2.366	2.201	1.235
1975	2.84	2.806	2.669	2.375	2.16	1.187
1976	2.727	2.692	2.553	2.257	2.047	1.107
1977	3.596	3.565	3.436	3.119	2.86	1.503
1978	2.939	2.906	2.769	2.479	2.268	1.312
1979	2.829	2.797	2.666	2.382	2.171	1.223
1980	2.795	2.768	2.656	2.412	2.221	1.251
1981	2.824	2.794	2.674	2.392	2.174	1.21
1982	2.763	2.735	2.618	2.372	2.193	1.246
1983	2.87	2.841	2.721	2.452	2.249	1.257
1984	2.735	2.7	2.557	2.264	2.055	1.127
1985	2.761	2.734	2.621	2.349	2.131	1.171
1986	2.738	2.709	2.588	2.32	2.119	1.168
1987	2.75	2.716	2.58	2.293	2.095	1.194
1988	3.001	2.969	2.856	2.599	2.364	1.285
1989	2.768	2.737	2.613	2.342	2.138	1.322
1990	5.169	5.114	4.844	4.246	3.831	2.14

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129			5.169	5.114	4.844	4.246	3.831 2.14
0.0645161290322581			3.596	3.565	3.436	3.119	2.86 1.56
0.0967741935483871			3.227	3.197	3.078	2.795	2.57 1.503
0.129032258064516			3.001	2.969	2.856	2.599	2.364 1.322
0.161290322580645			2.975	2.944	2.817	2.543	2.329 1.312
0.193548387096774			2.939	2.906	2.769	2.483	2.278 1.311
0.225806451612903			2.883	2.855	2.741	2.479	2.268 1.304
0.258064516129032			2.87	2.841	2.721	2.452	2.26 1.304
0.290322580645161			2.853	2.824	2.704	2.45	2.249 1.298
0.32258064516129			2.842	2.812	2.688	2.412	2.221 1.285
0.354838709677419			2.84	2.806	2.674	2.41	2.206 1.283
0.387096774193548			2.829	2.797	2.669	2.396	2.201 1.257
0.419354838709677			2.824	2.794	2.666	2.392	2.196 1.251
0.451612903225806			2.799	2.768	2.656	2.382	2.193 1.246
0.483870967741936			2.795	2.766	2.642	2.375	2.174 1.235

0.516129032258065	2.787	2.756	2.632	2.372	2.171	1.223
0.548387096774194	2.774	2.748	2.628	2.366	2.166	1.21
0.580645161290323	2.771	2.738	2.621	2.363	2.16	1.205
0.612903225806452	2.768	2.737	2.618	2.349	2.142	1.199
0.645161290322581	2.765	2.735	2.617	2.349	2.138	1.194
0.67741935483871	2.763	2.735	2.613	2.342	2.136	1.19
0.709677419354839	2.761	2.734	2.612	2.342	2.135	1.187
0.741935483870968	2.756	2.729	2.609	2.34	2.131	1.18
0.774193548387097	2.752	2.724	2.601	2.32	2.119	1.176
0.806451612903226	2.75	2.716	2.588	2.301	2.106	1.171
0.838709677419355	2.738	2.709	2.58	2.299	2.095	1.168
0.870967741935484	2.735	2.7	2.557	2.293	2.085	1.154
0.903225806451613	2.727	2.692	2.553	2.264	2.055	1.127
0.935483870967742	2.679	2.653	2.546	2.257	2.047	1.107
0.967741935483871	2.239	2.218	2.129	1.91	1.728	0.7637

0.1	3.2044	3.1742	3.0558	2.7754	2.5494	1.4849	
Average of yearly averages:						1.26219	

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAsweetcorn

Metfile: w23232.dvf

PRZM scenario: CAcornOP.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	4	integer		See PRZM manual
Incorporation Depth:	DEPI	10	cm	
Application Rate: TAPP		4.48	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-05	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAsorghum_broadcast.out

Chemical: Alachlor

PRZM environment: CAWheatRLF_V2.txt modified Wedday, 26 March 2008 at 10:39:38

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

Metfile: w93193.dvf modified Tuesday, 26 August 2008 at 06:16:12

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	14.6	14.53	14.17	13.34	12.66	6.638
1962	10.59	10.54	10.35	9.94	9.501	5.214
1963	9.631	9.57	9.35	8.777	8.351	4.676
1964	4.551	4.526	4.482	4.367	4.213	2.476
1965	3.137	3.122	3.057	2.929	2.82	1.587
1966	5.643	5.614	5.48	5.324	5.051	2.73
1967	6.537	6.501	6.409	6.061	5.78	3.18
1968	5.862	5.833	5.669	5.415	5.219	2.883
1969	94.57	94.15	92.17	87.95	84.15	45.26
1970	47.47	47.21	46.22	43.66	41.64	22.52
1971	9.054	9.011	8.83	8.679	8.499	4.906
1972	6.232	6.192	6.07	5.835	5.519	3.071
1973	16.04	15.99	15.66	14.79	14.23	7.663
1974	26.78	26.62	26	24.61	23.47	12.65
1975	19.92	19.83	19.44	18.47	17.69	9.938
1976	9.279	9.231	9.021	8.544	8.16	4.711
1977	25.49	25.36	24.81	23.76	22.84	12.32
1978	13.63	13.55	13.2	12.57	11.99	6.441
1979	19.73	19.65	19.2	18.26	17.4	9.107
1980	16.43	16.34	15.99	15.03	14.3	7.706
1981	10.69	10.62	10.37	9.808	9.323	4.839
1982	45.55	45.33	44.41	42.16	40.33	22.24
1983	46.79	46.58	45.69	42.77	40.66	21.55
1984	10.03	9.97	9.72	9.148	8.846	4.834
1985	6.155	6.115	6.034	5.737	5.553	3.039
1986	10.26	10.18	9.892	9.567	9.201	4.852
1987	45.9	45.71	44.82	42.43	40.42	21.25
1988	16.62	16.53	16.29	15.54	14.84	7.976
1989	19.95	19.85	19.45	18.82	18.03	9.53
1990	24.01	23.94	23.43	22.17	21.08	10.98

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			94.57	94.15	92.17	87.95	84.15	45.26
0.0645161290322581			47.47	47.21	46.22	43.66	41.64	22.52
0.0967741935483871			46.79	46.58	45.69	42.77	40.66	22.24
0.129032258064516			45.9	45.71	44.82	42.43	40.42	21.55
0.161290322580645			45.55	45.33	44.41	42.16	40.33	21.25
0.193548387096774			26.78	26.62	26	24.61	23.47	12.65
0.225806451612903			25.49	25.36	24.81	23.76	22.84	12.32
0.258064516129032			24.01	23.94	23.43	22.17	21.08	10.98
0.290322580645161			19.95	19.85	19.45	18.82	18.03	9.938
0.32258064516129			19.92	19.83	19.44	18.47	17.69	9.53
0.354838709677419			19.73	19.65	19.2	18.26	17.4	9.107
0.387096774193548			16.62	16.53	16.29	15.54	14.84	7.976
0.419354838709677			16.43	16.34	15.99	15.03	14.3	7.706
0.451612903225806			16.04	15.99	15.66	14.79	14.23	7.663
0.483870967741936			14.6	14.53	14.17	13.34	12.66	6.638

0.516129032258065	13.63	13.55	13.2	12.57	11.99	6.441
0.548387096774194	10.69	10.62	10.37	9.94	9.501	5.214
0.580645161290323	10.59	10.54	10.35	9.808	9.323	4.906
0.612903225806452	10.26	10.18	9.892	9.567	9.201	4.852
0.645161290322581	10.03	9.97	9.72	9.148	8.846	4.839
0.67741935483871	9.631	9.57	9.35	8.777	8.499	4.834
0.709677419354839	9.279	9.231	9.021	8.679	8.351	4.711
0.741935483870968	9.054	9.011	8.83	8.544	8.16	4.676
0.774193548387097	6.537	6.501	6.409	6.061	5.78	3.18
0.806451612903226	6.232	6.192	6.07	5.835	5.553	3.071
0.838709677419355	6.155	6.115	6.034	5.737	5.519	3.039
0.870967741935484	5.862	5.833	5.669	5.415	5.219	2.883
0.903225806451613	5.643	5.614	5.48	5.324	5.051	2.73
0.935483870967742	4.551	4.526	4.482	4.367	4.213	2.476
0.967741935483871	3.137	3.122	3.057	2.929	2.82	1.587

0.1	46.701	46.493	45.603	42.736	40.636	22.171	
						Average of yearly averages:	9.5589

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAsorghum_broadcast

Metfile: w93193.dvf

PRZM scenario: CAWheatRLF_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	1	integer	See PRZM manual	
Incorporation Depth:	DEPI	0	cm	
Application Rate: TAPP		4.48	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	02-01	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAsorghum.out

Chemical: Alachlor

PRZM environment: CAWheatRLF_V2.txt modified Wedday, 26 March 2008 at 10:39:38

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

Metfile: w93193.dvf modified Tuesday, 26 August 2008 at 06:16:12

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	4.978	4.955	4.833	4.546	4.314	2.355
1962	4.342	4.323	4.242	4.049	3.866	2.173
1963	4.083	4.058	3.952	3.704	3.526	2.065
1964	2.961	2.947	2.898	2.86	2.78	1.585
1965	2.735	2.721	2.681	2.546	2.436	1.36
1966	3.209	3.193	3.118	2.971	2.851	1.596
1967	3.373	3.355	3.29	3.108	2.966	1.697
1968	3.236	3.219	3.148	3.049	2.929	1.612
1969	24.09	23.98	23.47	22.41	21.44	11.59
1970	13.01	12.94	12.67	11.97	11.42	6.202
1971	4.106	4.085	3.998	3.862	3.739	2.122
1972	3.293	3.272	3.204	3.021	2.955	1.662
1973	5.667	5.649	5.53	5.262	5.05	2.74
1974	8.158	8.11	7.925	7.5	7.153	3.868
1975	6.606	6.574	6.444	6.119	5.859	3.312
1976	4.007	3.99	3.901	3.707	3.55	2.107
1977	8.01	7.969	7.798	7.442	7.14	3.844
1978	5.042	5.011	4.891	4.686	4.457	2.396
1979	6.49	6.461	6.315	6.017	5.729	3.023
1980	5.679	5.646	5.528	5.196	4.947	2.694
1981	4.279	4.254	4.165	3.943	3.744	2.009
1982	12.47	12.41	12.16	11.54	11.04	6.099
1983	12.78	12.74	12.48	11.68	11.13	5.962
1984	4.084	4.059	3.963	3.861	3.77	2.002
1985	3.182	3.162	3.095	3.055	2.973	1.591
1986	4.25	4.22	4.096	3.976	3.793	1.988
1987	12.66	12.61	12.36	11.7	11.14	5.862
1988	5.83	5.799	5.695	5.422	5.171	2.779
1989	6.618	6.585	6.452	6.209	5.937	3.146
1990	7.409	7.381	7.222	6.837	6.502	3.434

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			24.09	23.98	23.47	22.41	21.44	11.59
0.0645161290322581			13.01	12.94	12.67	11.97	11.42	6.202
0.0967741935483871			12.78	12.74	12.48	11.7	11.14	6.099
0.129032258064516			12.66	12.61	12.36	11.68	11.13	5.962
0.161290322580645			12.47	12.41	12.16	11.54	11.04	5.862
0.193548387096774			8.158	8.11	7.925	7.5	7.153	3.868
0.225806451612903			8.01	7.969	7.798	7.442	7.14	3.844
0.258064516129032			7.409	7.381	7.222	6.837	6.502	3.434
0.290322580645161			6.618	6.585	6.452	6.209	5.937	3.312
0.32258064516129			6.606	6.574	6.444	6.119	5.859	3.146
0.354838709677419			6.49	6.461	6.315	6.017	5.729	3.023
0.387096774193548			5.83	5.799	5.695	5.422	5.171	2.779
0.419354838709677			5.679	5.649	5.53	5.262	5.05	2.74
0.451612903225806			5.667	5.646	5.528	5.196	4.947	2.694
0.483870967741936			5.042	5.011	4.891	4.686	4.457	2.396

0.516129032258065	4.978	4.955	4.833	4.546	4.314	2.355
0.548387096774194	4.342	4.323	4.242	4.049	3.866	2.173
0.580645161290323	4.279	4.254	4.165	3.976	3.793	2.122
0.612903225806452	4.25	4.22	4.096	3.943	3.77	2.107
0.645161290322581	4.106	4.085	3.998	3.862	3.744	2.065
0.67741935483871	4.084	4.059	3.963	3.861	3.739	2.009
0.709677419354839	4.083	4.058	3.952	3.707	3.55	2.002
0.741935483870968	4.007	3.99	3.901	3.704	3.526	1.988
0.774193548387097	3.373	3.355	3.29	3.108	2.973	1.697
0.806451612903226	3.293	3.272	3.204	3.055	2.966	1.662
0.838709677419355	3.236	3.219	3.148	3.049	2.955	1.612
0.870967741935484	3.209	3.193	3.118	3.021	2.929	1.596
0.903225806451613	3.182	3.162	3.095	2.971	2.851	1.591
0.935483870967742	2.961	2.947	2.898	2.86	2.78	1.585
0.967741935483871	2.735	2.721	2.681	2.546	2.436	1.36

0.1	12.768	12.727	12.468	11.698	11.139	6.0853	
						Average of yearly averages:	3.1625

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAsorghum

Metfile: w93193.dvf

PRZM scenario: CAWheatRLF_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	4	integer	See PRZM manual	
Incorporation Depth:	DEPI	10	cm	
Application Rate: TAPP		4.48	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	02-01	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAlegumes_broadcast.out

Chemical: Alachlor

PRZM environment: CARowCropRLF_V2.txt modified Wedday, 26 March 2008 at 10:38:52

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	25.32	25.17	24.7	16.79	11.19	2.76
1962	23.06	22.92	22.38	21.17	20.26	13.39
1963	15.21	15.1	14.68	10.39	8.493	6.729
1964	13.54	13.46	13.12	12.38	11.82	7.759
1965	9.507	9.434	9.183	6.411	4.85	3.672
1966	16.49	16.4	16.15	11.77	8.811	6.42
1967	15.07	14.98	14.61	13.78	13.16	8.94
1968	8.755	8.708	8.516	8.053	7.679	5.11
1969	4.204	4.181	4.086	3.873	3.71	2.578
1970	9.515	9.465	9.221	5.859	4.207	2.396
1971	8.573	8.522	8.312	7.853	7.51	5.297
1972	6.842	6.807	6.658	6.31	6.027	4.048
1973	33.11	32.88	31.98	17.54	12.1	4.789
1974	29.84	29.66	28.92	27.3	26.09	16.98
1975	10.32	10.26	10.03	9.511	9.107	6.131
1976	19.2	10.9	4.222	3.965	3.8	2.711
1977	53.13	52.72	51.08	35.64	25.87	15.81
1978	46.17	45.86	44.55	41.75	39.68	25.39
1979	15.44	15.35	15.01	14.22	13.61	8.863
1980	15.85	15.74	15.31	8.959	7.463	5.845
1981	14.42	14.33	13.95	13.1	12.48	8.149
1982	10.81	10.76	10.49	7.368	5.555	4.224
1983	12.05	11.95	11.63	8.958	8.538	6.291
1984	10.57	10.51	10.22	9.601	9.13	6.265
1985	31.45	31.23	30.74	19.99	14.19	7.472
1986	28.45	28.25	27.43	25.62	24.27	15.4
1987	8.414	8.373	8.179	7.725	7.369	4.992
1988	16.21	16.08	15.62	10.52	7.566	4.453
1989	26.2	25.99	25.25	16.89	12.77	10.05
1990	23.22	23.07	22.5	21.25	20.33	12.96

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			53.13	52.72	51.08	41.75	39.68	25.39
0.0645161290322581			46.17	45.86	44.55	35.64	26.09	16.98
0.0967741935483871			33.11	32.88	31.98	27.3	25.87	15.81
0.129032258064516			31.45	31.23	30.74	25.62	24.27	15.4
0.161290322580645			29.84	29.66	28.92	21.25	20.33	13.39
0.193548387096774			28.45	28.25	27.43	21.17	20.26	12.96
0.225806451612903			26.2	25.99	25.25	19.99	14.19	10.05
0.258064516129032			25.32	25.17	24.7	17.54	13.61	8.94
0.290322580645161			23.22	23.07	22.5	16.89	13.16	8.863
0.32258064516129			23.06	22.92	22.38	16.79	12.77	8.149
0.354838709677419			19.2	16.4	16.15	14.22	12.48	7.759
0.387096774193548			16.49	16.08	15.62	13.78	12.1	7.472
0.419354838709677			16.21	15.74	15.31	13.1	11.82	6.729
0.451612903225806			15.85	15.35	15.01	12.38	11.19	6.42
0.483870967741936			15.44	15.1	14.68	11.77	9.13	6.291
0.516129032258065			15.21	14.98	14.61	10.52	9.107	6.265

0.548387096774194	15.07	14.33	13.95	10.39	8.811	6.131
0.580645161290323	14.42	13.46	13.12	9.601	8.538	5.845
0.612903225806452	13.54	11.95	11.63	9.511	8.493	5.297
0.645161290322581	12.05	10.9	10.49	8.959	7.679	5.11
0.67741935483871	10.81	10.76	10.22	8.958	7.566	4.992
0.709677419354839	10.57	10.51	10.03	8.053	7.51	4.789
0.741935483870968	10.32	10.26	9.221	7.853	7.463	4.453
0.774193548387097	9.515	9.465	9.183	7.725	7.369	4.224
0.806451612903226	9.507	9.434	8.516	7.368	6.027	4.048
0.838709677419355	8.755	8.708	8.312	6.411	5.555	3.672
0.870967741935484	8.573	8.522	8.179	6.31	4.85	2.76
0.903225806451613	8.414	8.373	6.658	5.859	4.207	2.711
0.935483870967742	6.842	6.807	4.222	3.965	3.8	2.578
0.967741935483871	4.204	4.181	4.086	3.873	3.71	2.396

0.1	32.944	32.715	31.856	27.132	25.71	15.769	
						Average of yearly averages:	7.862466666666666

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAlegumes_broadcast

Metfile: w23234.dvf

PRZM scenario: CARowCropRLF_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	1	integer	See PRZM manual	
Incorporation Depth:	DEPI	0	cm	
Application Rate: TAPP		3.36	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	20-11	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAlegumes.out

Chemical: Alachlor

PRZM environment: CARowCropRLF_V2.txt modified Wedday, 26 March 2008 at 10:38:52

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	7.127	7.085	6.966	4.748	3.165	0.7805
1962	6.489	6.452	6.299	5.957	5.702	3.891
1963	5.219	5.179	5.036	3.652	3.2	2.49
1964	4.647	4.619	4.504	4.248	4.057	2.781
1965	3.898	3.868	3.766	2.757	2.332	1.848
1966	5.489	5.449	5.397	3.993	3.102	2.488
1967	4.998	4.968	4.844	4.57	4.365	3.054
1968	3.511	3.493	3.415	3.229	3.079	2.15
1969	2.475	2.461	2.404	2.278	2.181	1.58
1970	3.811	3.79	3.691	2.571	1.938	1.488
1971	3.434	3.414	3.33	3.147	3.011	2.188
1972	3.103	3.087	3.02	2.862	2.733	1.927
1973	9.351	9.286	9.034	5.336	3.817	2.099
1974	8.432	8.382	8.173	7.717	7.375	4.927
1975	3.902	3.881	3.793	3.592	3.438	2.424
1976	5.927	4.024	2.531	2.331	2.233	1.632
1977	14.14	14.03	13.59	9.581	7.037	4.641
1978	12.28	12.19	11.85	11.1	10.55	6.877
1979	5.099	5.071	4.956	4.694	4.488	3.032
1980	5.342	5.307	5.164	3.339	2.992	2.302
1981	4.865	4.834	4.705	4.421	4.211	2.861
1982	4.177	4.159	4.06	2.976	2.485	1.961
1983	4.398	4.364	4.239	3.464	3.302	2.418
1984	3.849	3.824	3.721	3.495	3.324	2.336
1985	8.997	8.935	8.775	5.891	4.279	2.671
1986	8.118	8.062	7.828	7.312	6.929	4.525
1987	3.434	3.416	3.334	3.146	2.999	2.096
1988	5.42	5.377	5.229	3.655	2.711	1.949
1989	7.803	7.742	7.521	5.184	4.222	3.28
1990	6.917	6.874	6.703	6.329	6.053	3.983

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			14.14	14.03	13.59	11.1	10.55	6.877
0.0645161290322581			12.28	12.19	11.85	9.581	7.375	4.927
0.0967741935483871			9.351	9.286	9.034	7.717	7.037	4.641
0.129032258064516			8.997	8.935	8.775	7.312	6.929	4.525
0.161290322580645			8.432	8.382	8.173	6.329	6.053	3.983
0.193548387096774			8.118	8.062	7.828	5.957	5.702	3.891
0.225806451612903			7.803	7.742	7.521	5.891	4.488	3.28
0.258064516129032			7.127	7.085	6.966	5.336	4.365	3.054
0.290322580645161			6.917	6.874	6.703	5.184	4.279	3.032
0.32258064516129			6.489	6.452	6.299	4.748	4.222	2.861
0.354838709677419			5.927	5.449	5.397	4.694	4.211	2.781
0.387096774193548			5.489	5.377	5.229	4.57	4.057	2.671
0.419354838709677			5.42	5.307	5.164	4.421	3.817	2.49
0.451612903225806			5.342	5.179	5.036	4.248	3.438	2.488
0.483870967741936			5.219	5.071	4.956	3.993	3.324	2.424

0.516129032258065	5.099	4.968	4.844	3.655	3.302	2.418
0.548387096774194	4.998	4.834	4.705	3.652	3.2	2.336
0.580645161290323	4.865	4.619	4.504	3.592	3.165	2.302
0.612903225806452	4.647	4.364	4.239	3.495	3.102	2.188
0.645161290322581	4.398	4.159	4.06	3.464	3.079	2.15
0.67741935483871	4.177	4.024	3.793	3.339	3.011	2.099
0.709677419354839	3.902	3.881	3.766	3.229	2.999	2.096
0.741935483870968	3.898	3.868	3.721	3.147	2.992	1.961
0.774193548387097	3.849	3.824	3.691	3.146	2.733	1.949
0.806451612903226	3.811	3.79	3.415	2.976	2.711	1.927
0.838709677419355	3.511	3.493	3.334	2.862	2.485	1.848
0.870967741935484	3.434	3.416	3.33	2.757	2.332	1.632
0.903225806451613	3.434	3.414	3.02	2.571	2.233	1.58
0.935483870967742	3.103	3.087	2.531	2.331	2.181	1.488
0.967741935483871	2.475	2.461	2.404	2.278	1.938	0.7805

0.1	9.3156	9.2509	9.0081	7.6765	7.0262	4.6294	
						Average of yearly averages:	2.75598333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAlegumes

Metfile: w23234.dvf

PRZM scenario: CARowCropRLF_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	4	integer		See PRZM manual
Incorporation Depth:	DEPI	10	cm	
Application Rate: TAPP		3.36	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	20-11	dd/mm or dd/mm or dd-mm or dd-mmm	

Record 17: FILTRA

IPSCND1

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)

stored as CAwoody.out

Chemical: Alachlor

PRZM environment: CANurserySTD_V2.txt modified Tuesday, 27 May 2008 at 11:16:22

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	56.32	56	54.64	27.83	18.56	4.575
1962	51.65	51.36	50.17	47.53	45.52	30.09
1963	24.55	24.42	23.89	22.57	21.53	14.03
1964	8.347	8.299	8.119	7.773	7.45	5.002
1965	19.7	19.63	9.507	4.591	3.986	3.138
1966	52.9	52.63	51.39	28.33	21.05	14.74
1967	79.45	79.02	77.33	44.53	42.52	32.37
1968	73.4	73.01	71.38	67.47	64.33	41.34
1969	23.17	23.05	22.54	21.39	20.5	13.4
1970	16.09	16.01	15.6	8.927	7.403	5.769
1971	22.27	22.15	21.63	13.5	12.92	9.773
1972	20.53	20.42	19.97	18.92	18.07	11.78
1973	8.781	8.732	8.527	8.056	7.7	5.154
1974	8.358	8.307	7.58	5.385	5.15	3.799
1975	8.232	8.186	7.992	7.557	7.225	4.878
1976	31.52	17.38	5.934	3.918	3.764	2.76
1977	32.35	32.16	31.42	29.67	28.32	18.53
1978	14.99	14.89	14.48	13.59	12.92	8.314
1979	20.42	20.28	10.68	6.114	5.878	4.314
1980	34.81	34.6	33.67	19.1	17.12	13.13
1981	31.74	31.53	30.7	28.9	27.55	17.89
1982	18.3	18.18	17.26	16.37	15.67	10.62
1983	20.47	20.34	19.83	16.23	15.47	10.89
1984	19	18.88	18.37	17.26	16.41	10.43
1985	7.588	7.549	7.386	7.006	6.709	4.497
1986	4.78	4.753	4.629	4.33	4.106	2.776
1987	17.87	17.79	17.33	8.532	6.052	3.204
1988	19.72	19.59	15.91	14.94	14.21	9.402
1989	19.22	19.1	18.64	17.63	16.85	10.7
1990	11.42	11.35	11.06	10.46	9.99	6.78

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			79.45	79.02	77.33	67.47	64.33	41.34
0.0645161290322581			73.4	73.01	71.38	47.53	45.52	32.37
0.0967741935483871			56.32	56	54.64	44.53	42.52	30.09
0.129032258064516			52.9	52.63	51.39	29.67	28.32	18.53
0.161290322580645			51.65	51.36	50.17	28.9	27.55	17.89
0.193548387096774			34.81	34.6	33.67	28.33	21.53	14.74
0.225806451612903			32.35	32.16	31.42	27.83	21.05	14.03
0.258064516129032			31.74	31.53	30.7	22.57	20.5	13.4
0.290322580645161			31.52	24.42	23.89	21.39	18.56	13.13
0.32258064516129			24.55	23.05	22.54	19.1	18.07	11.78
0.354838709677419			23.17	22.15	21.63	18.92	17.12	10.89
0.387096774193548			22.27	20.42	19.97	17.63	16.85	10.7
0.419354838709677			20.53	20.34	19.83	17.26	16.41	10.62
0.451612903225806			20.47	20.28	18.64	16.37	15.67	10.43
0.483870967741936			20.42	19.63	18.37	16.23	15.47	9.773

0.516129032258065	19.72	19.59	17.33	14.94	14.21	9.402
0.548387096774194	19.7	19.1	17.26	13.59	12.92	8.314
0.580645161290323	19.22	18.88	15.91	13.5	12.92	6.78
0.612903225806452	19	18.18	15.6	10.46	9.99	5.769
0.645161290322581	18.3	17.79	14.48	8.927	7.7	5.154
0.67741935483871	17.87	17.38	11.06	8.532	7.45	5.002
0.709677419354839	16.09	16.01	10.68	8.056	7.403	4.878
0.741935483870968	14.99	14.89	9.507	7.773	7.225	4.575
0.774193548387097	11.42	11.35	8.527	7.557	6.709	4.497
0.806451612903226	8.781	8.732	8.119	7.006	6.052	4.314
0.838709677419355	8.358	8.307	7.992	6.114	5.878	3.799
0.870967741935484	8.347	8.299	7.58	5.385	5.15	3.204
0.903225806451613	8.232	8.186	7.386	4.591	4.106	3.138
0.935483870967742	7.588	7.549	5.934	4.33	3.986	2.776
0.967741935483871	4.78	4.753	4.629	3.918	3.764	2.76

0.1	55.978	55.663	54.315	43.044	41.1	28.934	
	Average of yearly averages:					11.13583333333333	

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAwoody

Metfile: w23234.dvf

PRZM scenario: CANurserySTD_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	2	integer		See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate: TAPP		4.48	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-12	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAcotton_revised.out

Chemical: Alachlor

PRZM environment: CAcotton_WirrigSTD.txt modified Tuesday, 29 May 2007 at 13:42:12

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

Metfile: w93193.dvf modified Tuesday, 26 August 2008 at 06:16:12

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	1.153	1.145	1.105	1.073	1.027	0.4914
1962	1.871	1.858	1.796	1.631	1.545	0.79
1963	6.54	6.494	6.352	5.951	5.615	2.761
1964	2.298	2.283	2.221	2.079	1.955	1.145
1965	28.33	28.11	27.23	25.23	23.45	11.13
1966	5.875	5.831	5.648	5.257	5.263	3.066
1967	8.236	8.175	7.927	7.418	6.928	3.34
1968	5.217	5.177	5.057	4.729	4.397	2.279
1969	3.574	3.549	3.447	3.34	3.136	1.665
1970	37.05	36.76	35.66	33.29	31.12	14.49
1971	7.889	7.823	7.545	6.912	6.784	4.417
1972	2.596	2.573	2.479	2.277	2.12	1.244
1973	2.392	2.379	2.309	2.162	2.031	1.022
1974	3.65	3.621	3.503	3.303	3.093	1.499
1975	1.727	1.716	1.685	1.608	1.519	0.8249
1976	2.139	2.125	2.063	1.926	1.803	0.9237
1977	3.32	3.297	3.183	2.942	2.735	1.334
1978	5.463	5.413	5.239	4.826	4.492	2.141
1979	5.494	5.448	5.363	5.037	4.693	2.256
1980	6.444	6.396	6.199	5.749	5.375	2.624
1981	3.044	3.022	2.925	2.802	2.629	1.329
1982	2.587	2.572	2.51	2.326	2.16	1.117
1983	26.45	26.24	25.6	23.91	22.38	10.41
1984	4.529	4.493	4.34	4.006	3.897	2.239
1985	1.83	1.817	1.764	1.641	1.53	0.7737
1986	4.026	3.999	3.897	3.561	3.281	1.511
1987	10.99	10.9	10.65	9.809	9.041	4.201
1988	6.121	6.073	5.843	5.297	4.828	2.609
1989	13.97	13.85	13.27	12.74	11.95	5.71
1990	3.152	3.132	3.043	2.864	2.805	1.711

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			37.05	36.76	35.66	33.29	31.12	14.49
0.0645161290322581			28.33	28.11	27.23	25.23	23.45	11.13
0.0967741935483871			26.45	26.24	25.6	23.91	22.38	10.41
0.129032258064516			13.97	13.85	13.27	12.74	11.95	5.71
0.161290322580645			10.99	10.9	10.65	9.809	9.041	4.417
0.193548387096774			8.236	8.175	7.927	7.418	6.928	4.201
0.225806451612903			7.889	7.823	7.545	6.912	6.784	3.34
0.258064516129032			6.54	6.494	6.352	5.951	5.615	3.066
0.290322580645161			6.444	6.396	6.199	5.749	5.375	2.761
0.32258064516129			6.121	6.073	5.843	5.297	5.263	2.624
0.354838709677419			5.875	5.831	5.648	5.257	4.828	2.609
0.387096774193548			5.494	5.448	5.363	5.037	4.693	2.279
0.419354838709677			5.463	5.413	5.239	4.826	4.492	2.256
0.451612903225806			5.217	5.177	5.057	4.729	4.397	2.239
0.483870967741936			4.529	4.493	4.34	4.006	3.897	2.141
0.516129032258065			4.026	3.999	3.897	3.561	3.281	1.711

0.548387096774194	3.65	3.621	3.503	3.34	3.136	1.665
0.580645161290323	3.574	3.549	3.447	3.303	3.093	1.511
0.612903225806452	3.32	3.297	3.183	2.942	2.805	1.499
0.645161290322581	3.152	3.132	3.043	2.864	2.735	1.334
0.67741935483871	3.044	3.022	2.925	2.802	2.629	1.329
0.709677419354839	2.596	2.573	2.51	2.326	2.16	1.244
0.741935483870968	2.587	2.572	2.479	2.277	2.12	1.145
0.774193548387097	2.392	2.379	2.309	2.162	2.031	1.117
0.806451612903226	2.298	2.283	2.221	2.079	1.955	1.022
0.838709677419355	2.139	2.125	2.063	1.926	1.803	0.9237
0.870967741935484	1.871	1.858	1.796	1.641	1.545	0.8249
0.903225806451613	1.83	1.817	1.764	1.631	1.53	0.79
0.935483870967742	1.727	1.716	1.685	1.608	1.519	0.7737
0.967741935483871	1.153	1.145	1.105	1.073	1.027	0.4914

0.1	25.202	25.001	24.367	22.793	21.337	9.94	
						Average of yearly averages:	3.03512333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAcotton_revised

Metfile: w93193.dvf

PRZM scenario: CAcotton_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	1	integer		See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate: TAPP		2.24	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAcotton_revised_incorp.out

Chemical: Alachlor

PRZM environment: CAcotton_WirrigSTD.txt modified Tuesday, 29 May 2007 at 13:42:12

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

Metfile: w93193.dvf modified Tuesday, 26 August 2008 at 06:16:12

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	1.12	1.111	1.078	1.041	0.9878	0.4677
1962	1.587	1.576	1.524	1.41	1.346	0.6822
1963	4.305	4.274	4.175	3.929	3.701	1.844
1964	1.894	1.882	1.83	1.71	1.608	0.9058
1965	17.22	17.08	16.55	15.32	14.24	6.786
1966	4.008	3.978	3.852	3.548	3.368	2.027
1967	5.344	5.305	5.143	4.812	4.496	2.183
1968	3.531	3.504	3.424	3.192	2.966	1.542
1969	2.609	2.591	2.517	2.412	2.259	1.195
1970	22.17	22	21.34	19.92	18.62	8.681
1971	5.046	5.004	4.826	4.486	4.411	2.805
1972	2.064	2.045	1.969	1.808	1.683	0.946
1973	1.896	1.884	1.829	1.734	1.631	0.8157
1974	2.66	2.639	2.553	2.396	2.242	1.091
1975	1.523	1.513	1.498	1.424	1.343	0.7136
1976	1.8	1.788	1.736	1.62	1.519	0.7797
1977	2.468	2.451	2.381	2.192	2.037	1.012
1978	3.637	3.604	3.485	3.21	2.987	1.433
1979	3.744	3.713	3.644	3.412	3.177	1.525
1980	4.246	4.215	4.085	3.794	3.545	1.734
1981	2.268	2.251	2.184	2.105	1.97	0.9791
1982	1.987	1.974	1.928	1.786	1.673	0.864
1983	16.01	15.89	15.49	14.46	13.53	6.308
1984	3.181	3.155	3.047	2.81	2.612	1.51
1985	1.57	1.559	1.514	1.42	1.321	0.651
1986	2.804	2.784	2.706	2.471	2.277	1.065
1987	6.938	6.884	6.719	6.184	5.699	2.658
1988	3.965	3.933	3.783	3.436	3.131	1.723
1989	8.693	8.62	8.258	7.956	7.456	3.563
1990	2.384	2.368	2.298	2.149	2.078	1.212

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			22.17	22	21.34	19.92	18.62	8.681
0.0645161290322581			17.22	17.08	16.55	15.32	14.24	6.786
0.0967741935483871			16.01	15.89	15.49	14.46	13.53	6.308
0.129032258064516			8.693	8.62	8.258	7.956	7.456	3.563
0.161290322580645			6.938	6.884	6.719	6.184	5.699	2.805
0.193548387096774			5.344	5.305	5.143	4.812	4.496	2.658
0.225806451612903			5.046	5.004	4.826	4.486	4.411	2.183
0.258064516129032			4.305	4.274	4.175	3.929	3.701	2.027
0.290322580645161			4.246	4.215	4.085	3.794	3.545	1.844
0.32258064516129			4.008	3.978	3.852	3.548	3.368	1.734
0.354838709677419			3.965	3.933	3.783	3.436	3.177	1.723
0.387096774193548			3.744	3.713	3.644	3.412	3.131	1.542
0.419354838709677			3.637	3.604	3.485	3.21	2.987	1.525
0.451612903225806			3.531	3.504	3.424	3.192	2.966	1.51
0.483870967741936			3.181	3.155	3.047	2.81	2.612	1.433

0.516129032258065	2.804	2.784	2.706	2.471	2.277	1.212
0.548387096774194	2.66	2.639	2.553	2.412	2.259	1.195
0.580645161290323	2.609	2.591	2.517	2.396	2.242	1.091
0.612903225806452	2.468	2.451	2.381	2.192	2.078	1.065
0.645161290322581	2.384	2.368	2.298	2.149	2.037	1.012
0.67741935483871	2.268	2.251	2.184	2.105	1.97	0.9791
0.709677419354839	2.064	2.045	1.969	1.808	1.683	0.946
0.741935483870968	1.987	1.974	1.928	1.786	1.673	0.9058
0.774193548387097	1.896	1.884	1.83	1.734	1.631	0.864
0.806451612903226	1.894	1.882	1.829	1.71	1.608	0.8157
0.838709677419355	1.8	1.788	1.736	1.62	1.519	0.7797
0.870967741935484	1.587	1.576	1.524	1.424	1.346	0.7136
0.903225806451613	1.57	1.559	1.514	1.42	1.343	0.6822
0.935483870967742	1.523	1.513	1.498	1.41	1.321	0.651
0.967741935483871	1.12	1.111	1.078	1.041	0.9878	0.4677

0.1 15.2783 15.163 14.7668 13.8096 12.9226 6.0335

Average of yearly averages: 1.99006

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAcotton_revised_incorp

Metfile: w93193.dvf

PRZM scenario: CAcotton_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	4	integer		See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate: TAPP		2.24	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAsunflower_CAM1.out

Chemical: Alachlor

PRZM environment: CAcornOP.txt modified Thuday, 14 June 2007 at 11:21:10

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

Metfile: w23232.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	7.441	7.397	7.212	6.669	6.25	3.086
1962	12.36	12.28	11.94	11.12	10.45	5.603
1963	11.59	11.53	11.25	10.73	10.15	5.734
1964	7.252	7.203	7.003	6.54	6.167	3.62
1965	4.348	4.315	4.186	3.901	3.755	2.301
1966	3.235	3.212	3.116	2.89	2.706	1.556
1967	11.28	11.21	10.98	10.37	9.775	5.039
1968	13.47	13.38	13.03	12.05	11.28	6.138
1969	5.027	4.989	4.83	4.723	4.556	2.855
1970	21.87	21.75	21.16	19.68	18.45	9.518
1971	13.01	12.92	12.77	12.1	11.43	6.638
1972	5.012	4.971	4.804	4.45	4.181	2.613
1973	17.94	17.82	17.4	16.3	15.25	7.714
1974	46.05	45.81	45.01	42.07	39.69	21.1
1975	15.93	15.84	15.5	14.74	13.9	8.657
1976	16.64	16.52	16.02	15.07	14.21	7.599
1977	12.73	12.64	12.29	11.32	10.64	6.064
1978	16.08	15.95	15.61	14.51	13.62	7.381
1979	13.05	12.98	12.79	12.01	11.23	6.245
1980	29.87	29.67	28.85	26.98	25.41	13.7
1981	25.71	25.6	24.89	23.24	22.1	12.41
1982	39.38	39.12	38.06	35.65	33.68	18.74
1983	45.44	45.21	44.36	41.66	39.37	21.58
1984	11.56	11.49	11.17	10.53	9.957	6.407
1985	6.418	6.377	6.219	5.781	5.452	3.157
1986	12.64	12.54	12.13	11.22	10.54	5.585
1987	48.43	48.07	46.92	43.43	40.44	20.59
1988	11.78	11.67	11.27	10.29	10.29	7.079
1989	12.87	12.77	12.54	11.61	10.85	5.921
1990	4.709	4.675	4.572	4.254	3.986	2.424

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			48.43	48.07	46.92	43.43	40.44	21.58
0.0645161290322581			46.05	45.81	45.01	42.07	39.69	21.1
0.0967741935483871			45.44	45.21	44.36	41.66	39.37	20.59
0.129032258064516			39.38	39.12	38.06	35.65	33.68	18.74
0.161290322580645			29.87	29.67	28.85	26.98	25.41	13.7
0.193548387096774			25.71	25.6	24.89	23.24	22.1	12.41
0.225806451612903			21.87	21.75	21.16	19.68	18.45	9.518
0.258064516129032			17.94	17.82	17.4	16.3	15.25	8.657
0.290322580645161			16.64	16.52	16.02	15.07	14.21	7.714
0.32258064516129			16.08	15.95	15.61	14.74	13.9	7.599
0.354838709677419			15.93	15.84	15.5	14.51	13.62	7.381
0.387096774193548			13.47	13.38	13.03	12.1	11.43	7.079
0.419354838709677			13.05	12.98	12.79	12.05	11.28	6.638
0.451612903225806			13.01	12.92	12.77	12.01	11.23	6.407
0.483870967741936			12.87	12.77	12.54	11.61	10.85	6.245

0.516129032258065	12.73	12.64	12.29	11.32	10.64	6.138
0.548387096774194	12.64	12.54	12.13	11.22	10.54	6.064
0.580645161290323	12.36	12.28	11.94	11.12	10.45	5.921
0.612903225806452	11.78	11.67	11.27	10.73	10.29	5.734
0.645161290322581	11.59	11.53	11.25	10.53	10.15	5.603
0.67741935483871	11.56	11.49	11.17	10.37	9.957	5.585
0.709677419354839	11.28	11.21	10.98	10.29	9.775	5.039
0.741935483870968	7.441	7.397	7.212	6.669	6.25	3.62
0.774193548387097	7.252	7.203	7.003	6.54	6.167	3.157
0.806451612903226	6.418	6.377	6.219	5.781	5.452	3.086
0.838709677419355	5.027	4.989	4.83	4.723	4.556	2.855
0.870967741935484	5.012	4.971	4.804	4.45	4.181	2.613
0.903225806451613	4.709	4.675	4.572	4.254	3.986	2.424
0.935483870967742	4.348	4.315	4.186	3.901	3.755	2.301
0.967741935483871	3.235	3.212	3.116	2.89	2.706	1.556

0.1	44.834	44.601	43.73	41.059	38.801	20.405	
						Average of yearly averages:	7.9018

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAsunflower_CAM1

Metfile: w23232.dvf

PRZM scenario: CAcornOP.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	1	integer		See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate: TAPP		4.48	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAsunflower_incorporated.out

Chemical: Alachlor

PRZM environment: CAcornOP.txt modified Thuday, 14 June 2007 at 11:21:10

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

Metfile: w23232.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	5.189	5.165	5.031	4.652	4.36	2.177
1962	8.19	8.136	7.915	7.372	6.925	3.731
1963	7.783	7.749	7.577	7.224	6.831	3.88
1964	5.397	5.361	5.211	4.866	4.588	2.659
1965	3.565	3.538	3.434	3.266	3.163	1.887
1966	3.054	3.032	2.942	2.728	2.554	1.441
1967	7.627	7.576	7.43	7.011	6.613	3.459
1968	8.856	8.797	8.564	7.917	7.412	4.062
1969	4.02	3.993	3.882	3.771	3.612	2.183
1970	13.81	13.73	13.35	12.42	11.65	6.038
1971	8.707	8.648	8.523	8.055	7.608	4.409
1972	4.082	4.049	3.912	3.621	3.401	2.051
1973	11.67	11.59	11.31	10.59	9.9	5.04
1974	28.07	27.92	27.41	25.61	24.17	12.87
1975	10.39	10.32	10.13	9.612	9.086	5.577
1976	10.87	10.79	10.46	9.827	9.254	4.946
1977	8.516	8.459	8.22	7.574	7.115	4.074
1978	10.32	10.24	10.02	9.318	8.746	4.757
1979	8.642	8.6	8.45	7.916	7.403	4.132
1980	18.51	18.39	17.89	16.73	15.75	8.511
1981	16.02	15.95	15.5	14.48	13.81	7.744
1982	24.03	23.87	23.22	21.75	20.55	11.44
1983	27.69	27.55	27.02	25.36	23.97	13.13
1984	7.831	7.782	7.556	7.148	6.746	4.234
1985	4.803	4.772	4.652	4.336	4.098	2.339
1986	8.414	8.344	8.07	7.475	7.017	3.749
1987	29.51	29.29	28.58	26.45	24.63	12.57
1988	7.794	7.727	7.462	6.971	6.955	4.637
1989	8.555	8.506	8.331	7.709	7.203	3.933
1990	3.879	3.851	3.756	3.488	3.266	1.915

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			29.51	29.29	28.58	26.45	24.63	13.13
0.0645161290322581			28.07	27.92	27.41	25.61	24.17	12.87
0.0967741935483871			27.69	27.55	27.02	25.36	23.97	12.57
0.129032258064516			24.03	23.87	23.22	21.75	20.55	11.44
0.161290322580645			18.51	18.39	17.89	16.73	15.75	8.511
0.193548387096774			16.02	15.95	15.5	14.48	13.81	7.744
0.225806451612903			13.81	13.73	13.35	12.42	11.65	6.038
0.258064516129032			11.67	11.59	11.31	10.59	9.9	5.577
0.290322580645161			10.87	10.79	10.46	9.827	9.254	5.04
0.32258064516129			10.39	10.32	10.13	9.612	9.086	4.946
0.354838709677419			10.32	10.24	10.02	9.318	8.746	4.757
0.387096774193548			8.856	8.797	8.564	8.055	7.608	4.637
0.419354838709677			8.707	8.648	8.523	7.917	7.412	4.409
0.451612903225806			8.642	8.6	8.45	7.916	7.403	4.234
0.483870967741936			8.555	8.506	8.331	7.709	7.203	4.132

0.516129032258065	8.516	8.459	8.22	7.574	7.115	4.074
0.548387096774194	8.414	8.344	8.07	7.475	7.017	4.062
0.580645161290323	8.19	8.136	7.915	7.372	6.955	3.933
0.612903225806452	7.831	7.782	7.577	7.224	6.925	3.88
0.645161290322581	7.794	7.749	7.556	7.148	6.831	3.749
0.67741935483871	7.783	7.727	7.462	7.011	6.746	3.731
0.709677419354839	7.627	7.576	7.43	6.971	6.613	3.459
0.741935483870968	5.397	5.361	5.211	4.866	4.588	2.659
0.774193548387097	5.189	5.165	5.031	4.652	4.36	2.339
0.806451612903226	4.803	4.772	4.652	4.336	4.098	2.183
0.838709677419355	4.082	4.049	3.912	3.771	3.612	2.177
0.870967741935484	4.02	3.993	3.882	3.621	3.401	2.051
0.903225806451613	3.879	3.851	3.756	3.488	3.266	1.915
0.935483870967742	3.565	3.538	3.434	3.266	3.163	1.887
0.967741935483871	3.054	3.032	2.942	2.728	2.554	1.441

0.1 27.324 27.182 26.64 24.999 23.628 12.457

Average of yearly averages: 5.11916666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAsunflower_incorporated

Metfile: w23232.dvf

PRZM scenario: CAcornOP.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	4	integer		See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate: TAPP		4.48	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

stored as CAIPeanuts_broadcast.out

Chemical: Alachlor

PRZM environment: CARowCropRLF_V2.txt modified Wedday, 26 March 2008 at 10:38:52

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	33.75	33.56	32.93	22.39	14.93	3.68
1962	30.74	30.57	29.84	28.22	27.01	17.85
1963	20.28	20.13	19.57	13.85	11.32	8.972
1964	18.05	17.94	17.5	16.5	15.76	10.34
1965	12.68	12.58	12.25	8.549	6.467	4.896
1966	21.99	21.86	21.53	15.69	11.75	8.561
1967	20.1	19.98	19.48	18.37	17.55	11.92
1968	11.67	11.61	11.35	10.74	10.24	6.813
1969	5.606	5.575	5.448	5.164	4.947	3.437
1970	12.69	12.62	12.3	7.813	5.61	3.195
1971	11.43	11.36	11.08	10.47	10.02	7.063
1972	9.124	9.076	8.878	8.414	8.036	5.397
1973	44.15	43.84	42.64	23.39	16.14	6.386
1974	39.79	39.55	38.56	36.4	34.78	22.64
1975	13.76	13.68	13.38	12.68	12.14	8.174
1976	25.6	14.53	5.629	5.287	5.067	3.615
1977	70.84	70.29	68.11	47.53	34.49	21.08
1978	61.57	61.14	59.39	55.67	52.9	33.86
1979	20.58	20.47	20.01	18.97	18.14	11.82
1980	21.13	20.99	20.42	11.95	9.951	7.794
1981	19.23	19.11	18.6	17.47	16.64	10.87
1982	14.41	14.34	13.99	9.822	7.406	5.632
1983	16.06	15.94	15.51	11.94	11.38	8.386
1984	14.1	14.01	13.63	12.8	12.17	8.352
1985	41.93	41.65	40.99	26.66	18.93	9.962
1986	37.93	37.67	36.57	34.16	32.37	20.53
1987	11.22	11.16	10.91	10.3	9.825	6.656
1988	21.61	21.44	20.83	14.02	10.09	5.938
1989	34.93	34.65	33.66	22.51	17.02	13.41
1990	30.95	30.76	30	28.33	27.1	17.28

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			70.84	70.29	68.11	55.67	52.9	33.86
0.0645161290322581			61.57	61.14	59.39	47.53	34.78	22.64
0.0967741935483871			44.15	43.84	42.64	36.4	34.49	21.08
0.129032258064516			41.93	41.65	40.99	34.16	32.37	20.53
0.161290322580645			39.79	39.55	38.56	28.33	27.1	17.85
0.193548387096774			37.93	37.67	36.57	28.22	27.01	17.28
0.225806451612903			34.93	34.65	33.66	26.66	18.93	13.41
0.258064516129032			33.75	33.56	32.93	23.39	18.14	11.92
0.290322580645161			30.95	30.76	30	22.51	17.55	11.82
0.32258064516129			30.74	30.57	29.84	22.39	17.02	10.87
0.354838709677419			25.6	21.86	21.53	18.97	16.64	10.34
0.387096774193548			21.99	21.44	20.83	18.37	16.14	9.962
0.419354838709677			21.61	20.99	20.42	17.47	15.76	8.972
0.451612903225806			21.13	20.47	20.01	16.5	14.93	8.561
0.483870967741936			20.58	20.13	19.57	15.69	12.17	8.386

0.516129032258065	20.28	19.98	19.48	14.02	12.14	8.352
0.548387096774194	20.1	19.11	18.6	13.85	11.75	8.174
0.580645161290323	19.23	17.94	17.5	12.8	11.38	7.794
0.612903225806452	18.05	15.94	15.51	12.68	11.32	7.063
0.645161290322581	16.06	14.53	13.99	11.95	10.24	6.813
0.67741935483871	14.41	14.34	13.63	11.94	10.09	6.656
0.709677419354839	14.1	14.01	13.38	10.74	10.02	6.386
0.741935483870968	13.76	13.68	12.3	10.47	9.951	5.938
0.774193548387097	12.69	12.62	12.25	10.3	9.825	5.632
0.806451612903226	12.68	12.58	11.35	9.822	8.036	5.397
0.838709677419355	11.67	11.61	11.08	8.549	7.406	4.896
0.870967741935484	11.43	11.36	10.91	8.414	6.467	3.68
0.903225806451613	11.22	11.16	8.878	7.813	5.61	3.615
0.935483870967742	9.124	9.076	5.629	5.287	5.067	3.437
0.967741935483871	5.606	5.575	5.448	5.164	4.947	3.195

0.1 43.928 43.621 42.475 36.176 34.278 21.025

Average of yearly averages: 10.4836333333333

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAIPeanuts_broadcast

Metfile: w23234.dvf

PRZM scenario: CARowCropRLF_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	1	integer		See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate: TAPP		4.48	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	20-11	dd/mm or dd/mm or dd-mm or dd-mmm	

Record 17: FILTRA

IPSCND1

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)

stored as CAIPeanuts.out

Chemical: Alachlor

PRZM environment: CARowCropRLF_V2.txt modified Wedday, 26 March 2008 at 10:38:52

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	9.504	9.448	9.289	6.332	4.221	1.041
1962	8.653	8.604	8.4	7.944	7.603	5.189
1963	6.959	6.906	6.715	4.87	4.267	3.321
1964	6.197	6.159	6.006	5.664	5.41	3.708
1965	5.198	5.158	5.022	3.676	3.109	2.464
1966	7.318	7.264	7.196	5.324	4.136	3.317
1967	6.664	6.624	6.458	6.092	5.82	4.071
1968	4.682	4.657	4.553	4.305	4.104	2.866
1969	3.299	3.281	3.205	3.037	2.908	2.107
1970	5.081	5.053	4.921	3.427	2.584	1.984
1971	4.578	4.552	4.44	4.197	4.014	2.917
1972	4.138	4.116	4.026	3.815	3.644	2.57
1973	12.47	12.38	12.04	7.114	5.089	2.799
1974	11.24	11.17	10.9	10.29	9.833	6.568
1975	5.202	5.174	5.057	4.79	4.584	3.232
1976	7.903	5.365	3.375	3.108	2.977	2.175
1977	18.85	18.71	18.13	12.78	9.383	6.188
1978	16.37	16.26	15.8	14.81	14.07	9.17
1979	6.799	6.762	6.608	6.259	5.985	4.043
1980	7.123	7.076	6.885	4.452	3.99	3.07
1981	6.487	6.445	6.274	5.894	5.615	3.815
1982	5.57	5.546	5.414	3.968	3.313	2.614
1983	5.864	5.818	5.652	4.619	4.403	3.224
1984	5.132	5.099	4.961	4.661	4.432	3.115
1985	11.99	11.91	11.7	7.853	5.704	3.561
1986	10.82	10.75	10.43	9.747	9.237	6.032
1987	4.578	4.553	4.445	4.193	3.998	2.794
1988	7.226	7.169	6.972	4.873	3.615	2.599
1989	10.4	10.32	10.03	6.911	5.63	4.374
1990	9.221	9.164	8.935	8.437	8.07	5.309

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			18.85	18.71	18.13	14.81	14.07	9.17
0.0645161290322581			16.37	16.26	15.8	12.78	9.833	6.568
0.0967741935483871			12.47	12.38	12.04	10.29	9.383	6.188
0.129032258064516			11.99	11.91	11.7	9.747	9.237	6.032
0.161290322580645			11.24	11.17	10.9	8.437	8.07	5.309
0.193548387096774			10.82	10.75	10.43	7.944	7.603	5.189
0.225806451612903			10.4	10.32	10.03	7.853	5.985	4.374
0.258064516129032			9.504	9.448	9.289	7.114	5.82	4.071
0.290322580645161			9.221	9.164	8.935	6.911	5.704	4.043
0.32258064516129			8.653	8.604	8.4	6.332	5.63	3.815
0.354838709677419			7.903	7.264	7.196	6.259	5.615	3.708
0.387096774193548			7.318	7.169	6.972	6.092	5.41	3.561
0.419354838709677			7.226	7.076	6.885	5.894	5.089	3.321
0.451612903225806			7.123	6.906	6.715	5.664	4.584	3.317

0.483870967741936	6.959	6.762	6.608	5.324	4.432	3.232
0.516129032258065	6.799	6.624	6.458	4.873	4.403	3.224
0.548387096774194	6.664	6.445	6.274	4.87	4.267	3.115
0.580645161290323	6.487	6.159	6.006	4.79	4.221	3.07
0.612903225806452	6.197	5.818	5.652	4.661	4.136	2.917
0.645161290322581	5.864	5.546	5.414	4.619	4.104	2.866
0.67741935483871	5.57	5.365	5.057	4.452	4.014	2.799
0.709677419354839	5.202	5.174	5.022	4.305	3.998	2.794
0.741935483870968	5.198	5.158	4.961	4.197	3.99	2.614
0.774193548387097	5.132	5.099	4.921	4.193	3.644	2.599
0.806451612903226	5.081	5.053	4.553	3.968	3.615	2.57
0.838709677419355	4.682	4.657	4.445	3.815	3.313	2.464
0.870967741935484	4.578	4.553	4.44	3.676	3.109	2.175
0.903225806451613	4.578	4.552	4.026	3.427	2.977	2.107
0.935483870967742	4.138	4.116	3.375	3.108	2.908	1.984
0.967741935483871	3.299	3.281	3.205	3.037	2.584	1.041

0.1	12.422	12.333	12.006	10.2357	9.3684	6.1724	
						Average of yearly averages:	3.67456666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: CAIPeanuts

Metfile: w23234.dvf

PRZM scenario: CARowCropRLF_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: Alachlor

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	269.77	g/mol	
Henry's Law Const.	henry	3.3e-8	atm-m ³ /mol	
Vapor Pressure	vapr	2.2e-5	torr	
Solubility	sol	2400	mg/L	
Kd	Kd	0.33	mg/L	
Koc	Koc	190	mg/L	
Photolysis half-life	kdp	0	days	Half-life
Aerobic Aquatic Metabolism	kbacw	84	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	42	days	Halfife
Hydrolysis:	pH 7	0	days	Half-life
Method: CAM	4	integer	See PRZM manual	
Incorporation Depth:	DEPI	10	cm	
Application Rate: TAPP		4.48	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	20-11	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND1			
	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)	

Residential Woody Ornamentals output, combined Impervious and Residential scenarios:

Year	Max Peak	4-day	Max 14 day	Max 21 day	Max 30 day	Max 60 day	Max 90 day	Annual
1961	3.70E-03	3.68E-03	3.62E-03	3.59E-03	3.55E-03	3.42E-03	2.84E-03	1.63E-03
1962	3.65E-03	3.63E-03	3.58E-03	3.55E-03	3.50E-03	3.41E-03	3.31E-03	2.21E-03
1963	3.48E-03	3.49E-03	3.48E-03	3.49E-03	3.48E-03	3.37E-03	3.23E-03	2.12E-03
1964	1.45E-03	1.44E-03	1.42E-03	1.41E-03	1.40E-03	1.41E-03	1.38E-03	1.26E-03
1965	6.32E-03	6.30E-03	6.12E-03	5.40E-03	4.95E-03	4.14E-03	3.76E-03	2.76E-03
1966	6.48E-03	6.47E-03	6.39E-03	6.33E-03	6.25E-03	6.00E-03	5.62E-03	3.90E-03
1967	6.62E-03	6.60E-03	6.55E-03	6.54E-03	6.50E-03	6.23E-03	5.77E-03	3.91E-03
1968	6.35E-03	6.36E-03	6.34E-03	6.35E-03	6.35E-03	6.30E-03	6.05E-03	3.95E-03
1969	2.76E-03	2.77E-03	2.76E-03	2.75E-03	2.73E-03	2.67E-03	2.57E-03	2.27E-03
1970	2.73E-03	2.72E-03	2.70E-03	2.69E-03	2.67E-03	2.57E-03	2.23E-03	1.58E-03
1971	2.72E-03	2.72E-03	2.69E-03	2.69E-03	2.68E-03	2.62E-03	2.47E-03	1.66E-03
1972	2.67E-03	2.68E-03	2.67E-03	2.67E-03	2.65E-03	2.62E-03	2.53E-03	1.67E-03
1973	2.31E-03	2.30E-03	2.23E-03	2.12E-03	2.03E-03	1.81E-03	1.63E-03	1.25E-03
1974	2.87E-03	2.86E-03	2.75E-03	2.66E-03	2.61E-03	2.52E-03	2.22E-03	1.66E-03
1975	2.84E-03	2.84E-03	2.83E-03	2.81E-03	2.78E-03	2.67E-03	2.56E-03	1.77E-03
1976	4.52E-03	3.79E-03	3.44E-03	3.16E-03	3.14E-03	2.95E-03	2.78E-03	2.22E-03
1977	4.86E-03	4.84E-03	4.77E-03	4.72E-03	4.67E-03	4.48E-03	4.28E-03	2.84E-03
1978	3.06E-03	3.07E-03	3.05E-03	3.06E-03	3.04E-03	2.91E-03	2.78E-03	2.11E-03
1979	4.00E-03	3.98E-03	3.93E-03	3.65E-03	3.37E-03	2.86E-03	2.58E-03	1.94E-03
1980	4.66E-03	4.64E-03	4.57E-03	4.57E-03	4.55E-03	4.36E-03	3.76E-03	2.66E-03
1981	4.45E-03	4.45E-03	4.44E-03	4.45E-03	4.43E-03	4.40E-03	4.23E-03	2.75E-03
1982	3.99E-03	4.00E-03	3.96E-03	3.93E-03	3.88E-03	3.73E-03	3.57E-03	2.42E-03
1983	3.87E-03	3.87E-03	3.86E-03	3.87E-03	3.82E-03	3.68E-03	3.52E-03	2.32E-03
1984	3.18E-03	3.19E-03	3.18E-03	3.16E-03	3.13E-03	3.05E-03	2.93E-03	2.00E-03
1985	1.84E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03	1.81E-03	1.74E-03	1.32E-03
1986	1.66E-03	1.65E-03	1.63E-03	1.62E-03	1.60E-03	1.54E-03	1.49E-03	1.02E-03
1987	3.41E-03	3.39E-03	3.35E-03	3.32E-03	3.27E-03	3.04E-03	2.56E-03	1.65E-03
1988	3.31E-03	3.30E-03	3.25E-03	3.20E-03	3.16E-03	3.13E-03	2.99E-03	1.89E-03
1989	3.24E-03	3.24E-03	3.23E-03	3.22E-03	3.18E-03	3.06E-03	2.93E-03	1.88E-03
1990	2.94E-03	2.92E-03	2.90E-03	2.88E-03	2.88E-03	2.55E-03	2.44E-03	1.69E-03
90th % (ppm)	0.006318		0.00614379	0.00548917	0.0050762	0.00463311	0.004417094	0.002944
90th % (ppb)	6.31825		6.14378571	5.48916905	5.07619667	4.63310833	4.417094444	2.943762
Average Annual								0.00214