

# Cotton- Aerial Spray

## MS Scenario

stored as MScotton.out

Chemical: fomesafen

PRZM environment: MScottonC.txt

modified Wedday, 22 January 2003 at 11:52:38

EXAMS environment: pond298.exv

modified Thuday, 29 August 2002 at 16:33:30

Metfile: w03940.dvf modified Wedday, 3 July 2002 at 09:05:46

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	2.542	2.511	2.437	2.223	2.039	0.9659
1962	1.836	1.819	1.723	1.582	1.448	0.9167
1963	3.34	3.289	3.181	2.887	2.625	1.368
1964	4.987	4.917	4.636	4.137	3.761	2.071
1965	2.051	2.027	1.928	1.717	1.563	1.176
1966	6.229	6.169	5.93	5.254	4.762	2.308
1967	14.57	14.43	13.87	12.31	11.26	5.771
1968	6.514	6.442	6.174	5.577	5.093	3.805
1969	2.373	2.346	2.267	2.108	1.933	1.493
1970	5.442	5.362	5.06	4.523	4.114	2.054
1971	2.164	2.142	2.059	1.951	1.796	1.322
1972	1.765	1.739	1.636	1.46	1.401	0.8455
1973	8.994	8.888	8.52	7.459	6.724	3.077
1974	2.897	2.86	2.713	2.547	2.368	1.842
1975	4.594	4.537	4.321	3.845	3.494	1.85
1976	17.32	17.08	16.26	14.55	13.23	6.232
1977	5.832	5.811	5.721	5.491	5.265	3.802
1978	4.489	4.437	4.235	3.718	3.356	2.035
1979	8.678	8.56	8.108	7.275	6.651	3.425
1980	11.45	11.32	10.88	9.505	8.516	4.554
1981	7.813	7.727	7.42	6.488	5.839	3.474
1982	10.26	10.11	9.667	8.445	7.631	4.086
1983	11.76	11.64	11.24	10.07	9.135	5.097
1984	4.384	4.336	4.202	3.756	3.456	2.629
1985	3.8	3.746	3.622	3.426	3.154	1.904
1986	4.871	4.833	4.654	4.157	3.758	2.111
1987	3.531	3.501	3.316	2.874	2.591	1.666
1988	4.884	4.807	4.531	4.038	3.71	2.095
1989	12.14	12	11.43	10.12	9.191	4.71
1990	3.7	3.679	3.594	3.397	3.24	2.363

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	17.32	17.08	16.26	14.55	13.23	6.232
0.0645161290322581	14.57	14.43	13.87	12.31	11.26	5.771
0.0967741935483871	12.14	12	11.43	10.12	9.191	5.097
0.129032258064516	11.76	11.64	11.24	10.07	9.135	4.71
0.161290322580645	11.45	11.32	10.88	9.505	8.516	4.554
0.193548387096774	10.26	10.11	9.667	8.445	7.631	4.086
0.225806451612903	8.994	8.888	8.52	7.459	6.724	3.805
0.258064516129032	8.678	8.56	8.108	7.275	6.651	3.802
0.290322580645161	7.813	7.727	7.42	6.488	5.839	3.474
0.32258064516129	6.514	6.442	6.174	5.577	5.265	3.425
0.354838709677419	6.229	6.169	5.93	5.491	5.093	3.077
0.387096774193548	5.832	5.811	5.721	5.254	4.762	2.629
0.419354838709677	5.442	5.362	5.06	4.523	4.114	2.363
0.451612903225806	4.987	4.917	4.654	4.157	3.761	2.308
0.483870967741936	4.884	4.833	4.636	4.137	3.758	2.111
0.516129032258065	4.871	4.807	4.531	4.038	3.71	2.095
0.548387096774194	4.594	4.537	4.321	3.845	3.494	2.071
0.580645161290323	4.489	4.437	4.235	3.756	3.456	2.054
0.612903225806452	4.384	4.336	4.202	3.718	3.356	2.035
0.645161290322581	3.8	3.746	3.622	3.426	3.24	1.904
0.67741935483871	3.7	3.679	3.594	3.397	3.154	1.85
0.709677419354839	3.531	3.501	3.316	2.887	2.625	1.842
0.741935483870968	3.34	3.289	3.181	2.874	2.591	1.666
0.774193548387097	2.897	2.86	2.713	2.547	2.368	1.493
0.806451612903226	2.542	2.511	2.437	2.223	2.039	1.368
0.838709677419355	2.373	2.346	2.267	2.108	1.933	1.322
0.870967741935484	2.164	2.142	2.059	1.951	1.796	1.176
0.903225806451613	2.051	2.027	1.928	1.717	1.563	0.9659
0.935483870967742	1.836	1.819	1.723	1.582	1.448	0.9167
0.967741935483871	1.765	1.739	1.636	1.46	1.401	0.8455

0.1      12.102    11.964    11.411    10.115    9.1854    5.0583  
 Average of yearly averages:    2.70160333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: MSscotton

Metfile: w03940.dvf

PRZM scenario: MSscottonC.txt

EXAMS environment file: pond298.exv

Chemical Name: fomesafen

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	420	g/mol	
Henry's Law Const.	henry	7.3E-13	atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr	7.5E-7	torr	
Solubility	sol	1200	mg/L	
Kd	Kd	0.68	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	289	days	Half-life
Aerobic Aquatic Metabolism	kbacw	115.71	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	428.8	days	Halfife
Hydrolysis:	pH 7	1000	days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	0.42	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	15-5	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      Pond

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

# NC Scenario

stored as NCcotton.out

Chemical: fomesafen

PRZM environment: NCcottonC.txt

modified Satday, 12 October 2002 at 17:12:02

EXAMS environment: pond298.exv

modified Thuday, 29 August 2002 at 16:33:30

Metfile: w13722.dvf modified Wedday, 3 July 2002 at 09:05:50

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	3.892	3.852	3.659	3.285	3.012	1.289
1962	4.233	4.178	4.056	3.683	3.424	2.105
1963	2.493	2.461	2.332	2.161	2.022	1.618
1964	4.864	4.801	4.544	4.235	3.928	2.145
1965	10.77	10.65	10.18	9.21	8.465	4.485
1966	9.068	8.958	8.614	7.654	7.013	4.699
1967	15.38	15.2	14.59	13.08	12.02	6.592
1968	7.757	7.666	7.362	6.661	6.133	5.203
1969	4.572	4.518	4.388	4.154	3.915	3.109
1970	5.092	5.025	4.875	4.402	4.064	2.667
1971	3.802	3.759	3.662	3.29	3.037	2.278
1972	8.44	8.346	8.028	7.168	6.589	3.48
1973	7.214	7.125	6.896	6.149	5.661	3.8
1974	3.638	3.603	3.471	3.138	2.928	2.397
1975	2.662	2.636	2.514	2.235	2.119	1.576
1976	2.079	2.053	1.961	1.75	1.612	1.172
1977	1.974	1.947	1.877	1.725	1.62	1.134
1978	4.602	4.538	4.312	4.102	3.787	2.071
1979	4.612	4.554	4.411	4.252	4.038	2.584
1980	9.944	9.813	9.266	8.113	7.373	3.969
1981	7.978	7.879	7.456	6.603	6.091	4.163
1982	3.949	3.897	3.679	3.424	3.305	2.71
1983	2.748	2.715	2.574	2.286	2.119	1.563
1984	3.016	2.977	2.867	2.618	2.435	1.509
1985	4.747	4.687	4.582	4.172	3.847	2.154
1986	3.854	3.798	3.649	3.299	3.046	2.089
1987	3.895	3.843	3.619	3.158	2.876	1.887
1988	2.832	2.799	2.656	2.421	2.249	1.571
1989	3.217	3.174	3.049	2.747	2.527	1.552
1990	1.79	1.767	1.687	1.614	1.508	1.137

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129		15.38	15.2	14.59	13.08	12.02	6.592
0.0645161290322581		10.77	10.65	10.18	9.21	8.465	5.203
0.0967741935483871		9.944	9.813	9.266	8.113	7.373	4.699
0.129032258064516		9.068	8.958	8.614	7.654	7.013	4.485
0.161290322580645		8.44	8.346	8.028	7.168	6.589	4.163
0.193548387096774		7.978	7.879	7.456	6.661	6.133	3.969
0.225806451612903		7.757	7.666	7.362	6.603	6.091	3.8
0.258064516129032		7.214	7.125	6.896	6.149	5.661	3.48
0.290322580645161		5.092	5.025	4.875	4.402	4.064	3.109
0.32258064516129		4.864	4.801	4.582	4.252	4.038	2.71
0.354838709677419		4.747	4.687	4.544	4.235	3.928	2.667
0.387096774193548		4.612	4.554	4.411	4.172	3.915	2.584
0.419354838709677		4.602	4.538	4.388	4.154	3.847	2.397
0.451612903225806		4.572	4.518	4.312	4.102	3.787	2.278
0.483870967741936		4.233	4.178	4.056	3.683	3.424	2.154
0.516129032258065		3.949	3.897	3.679	3.424	3.305	2.145
0.548387096774194		3.895	3.852	3.662	3.299	3.046	2.105
0.580645161290323		3.892	3.843	3.659	3.29	3.037	2.089
0.612903225806452		3.854	3.798	3.649	3.285	3.012	2.071
0.645161290322581		3.802	3.759	3.619	3.158	2.928	1.887
0.67741935483871		3.638	3.603	3.471	3.138	2.876	1.618
0.709677419354839		3.217	3.174	3.049	2.747	2.527	1.576
0.741935483870968		3.016	2.977	2.867	2.618	2.435	1.571
0.774193548387097		2.832	2.799	2.656	2.421	2.249	1.563
0.806451612903226		2.748	2.715	2.574	2.286	2.119	1.552
0.838709677419355		2.662	2.636	2.514	2.235	2.119	1.509
0.870967741935484		2.493	2.461	2.332	2.161	2.022	1.289
0.903225806451613		2.079	2.053	1.961	1.75	1.62	1.172
0.935483870967742		1.974	1.947	1.877	1.725	1.612	1.137
0.967741935483871		1.79	1.767	1.687	1.614	1.508	1.134
0.1	9.8564	9.7275	9.2008	8.0671	7.337	4.6776	
Average of yearly averages:							2.6236

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: NCcotton

Metfile: w13722.dvf

PRZM scenario: NCcottonC.txt

EXAMS environment file: pond298.exv

Chemical Name: fomesafen

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	420	g/mol	
Henry's Law Const.	henry	7.3E-13	atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr	7.5E-7	torr	
Solubility	sol	1200	mg/L	
Kd	Kd	0.68	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	289	days	Half-life
Aerobic Aquatic Metabolism	kbacw	115.71	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	428.8	days	Halfife
Hydrolysis:	pH 7	1000	days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	0.42	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	15-6	dd/mm or dd/mmm or dd-mm or dd-mmm	

## TX Scenario

stored as TXcotton.out

Chemical: fomesafen

PRZM environment: TXcottonC.txt

modified Satday, 12 October 2002 at 17:29:08

EXAMS environment: pond298.exv

modified Thuday, 29 August 2002 at 16:33:30

Metfile: w13958.dvf modified Wedday, 3 July 2002 at 09:06:24

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	1.805	1.787	1.716	1.517	1.375	0.6472
1962	3.47	3.418	3.232	2.815	2.524	1.27
1963	1.645	1.623	1.568	1.438	1.31	0.8167
1964	1.965	1.934	1.813	1.555	1.436	0.7941
1965	13.19	13.1	12.52	11.22	10.13	4.482
1966	3.257	3.243	3.181	3.04	2.916	2.014
1967	2.837	2.801	2.704	2.352	2.108	1.18
1968	8.907	8.793	8.504	7.538	6.83	3.171
1969	3.061	3.024	2.892	2.653	2.43	1.742
1970	9.96	9.844	9.426	8.292	7.459	3.422
1971	2.563	2.53	2.437	2.283	2.169	1.675
1972	4.493	4.437	4.21	3.755	3.41	1.69
1973	2.269	2.238	2.118	1.848	1.777	1.166
1974	1.465	1.445	1.375	1.222	1.111	0.7435
1975	2.575	2.553	2.419	2.119	1.957	1.019
1976	3.754	3.718	3.617	3.304	3.016	1.535
1977	2.166	2.138	2.02	1.805	1.645	1.046
1978	2.418	2.385	2.251	2.033	1.855	0.966
1979	13.16	13.01	12.34	10.76	9.692	4.333
1980	6.786	6.706	6.362	5.496	4.886	3.059
1981	5.868	5.794	5.48	4.873	4.41	2.328
1982	12.45	12.29	11.66	10.16	9.072	4.169
1983	9.128	9.018	8.727	7.784	7.049	3.844
1984	2.681	2.644	2.507	2.291	2.087	1.573
1985	1.472	1.454	1.388	1.331	1.229	0.7309
1986	4.703	4.644	4.413	3.874	3.465	1.581
1987	3.174	3.132	2.96	2.573	2.34	1.378
1988	2.55	2.518	2.416	2.154	1.97	1.087
1989	4.601	4.536	4.349	3.803	3.419	1.63
1990	1.874	1.84	1.705	1.621	1.506	0.9755

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	13.19	13.1	12.52	11.22	10.13	4.482
0.0645161290322581	13.16	13.01	12.34	10.76	9.692	4.333
0.0967741935483871	12.45	12.29	11.66	10.16	9.072	4.169
0.129032258064516	9.96	9.844	9.426	8.292	7.459	3.844
0.161290322580645	9.128	9.018	8.727	7.784	7.049	3.422
0.193548387096774	8.907	8.793	8.504	7.538	6.83	3.171
0.225806451612903	6.786	6.706	6.362	5.496	4.886	3.059
0.258064516129032	5.868	5.794	5.48	4.873	4.41	2.328
0.290322580645161	4.703	4.644	4.413	3.874	3.465	2.014
0.32258064516129	4.601	4.536	4.349	3.803	3.419	1.742
0.354838709677419	4.493	4.437	4.21	3.755	3.41	1.69
0.387096774193548	3.754	3.718	3.617	3.304	3.016	1.675
0.419354838709677	3.47	3.418	3.232	3.04	2.916	1.63
0.451612903225806	3.257	3.243	3.181	2.815	2.524	1.581
0.483870967741936	3.174	3.132	2.96	2.653	2.43	1.573
0.516129032258065	3.061	3.024	2.892	2.573	2.34	1.535
0.548387096774194	2.837	2.801	2.704	2.352	2.169	1.378
0.580645161290323	2.681	2.644	2.507	2.291	2.108	1.27
0.612903225806452	2.575	2.553	2.437	2.283	2.087	1.18
0.645161290322581	2.563	2.53	2.419	2.154	1.97	1.166
0.67741935483871	2.55	2.518	2.416	2.119	1.957	1.087
0.709677419354839	2.418	2.385	2.251	2.033	1.855	1.046
0.741935483870968	2.269	2.238	2.118	1.848	1.777	1.019
0.774193548387097	2.166	2.138	2.02	1.805	1.645	0.9755
0.806451612903226	1.965	1.934	1.813	1.621	1.506	0.966
0.838709677419355	1.874	1.84	1.716	1.555	1.436	0.8167
0.870967741935484	1.805	1.787	1.705	1.517	1.375	0.7941
0.903225806451613	1.645	1.623	1.568	1.438	1.31	0.7435
0.935483870967742	1.472	1.454	1.388	1.331	1.229	0.7309
0.967741935483871	1.465	1.445	1.375	1.222	1.111	0.6472

0.1            12.201    12.0454    11.4366    9.9732    8.9107    4.1365  
Average of yearly averages:            1.86893

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: TXcotton

Metfile: w13958.dvf

PRZM scenario: TXcottonC.txt

EXAMS environment file: pond298.exv

Chemical Name: fomesafen

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	420	g/mol	
Henry's Law Const.	henry	7.3E-13	atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr	7.5E-7	torr	
Solubility	sol	1200	mg/L	
Kd	Kd	0.68	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	289	days	Half-life
Aerobic Aquatic Metabolism	kbacw	115.71	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	428.8	days	Halfife
Hydrolysis:	pH 7	1000	days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	0.42	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	10-5	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            Pond

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

# Cotton- Ground Spray

## MS Scenario

stored as MScottongrd.out

Chemical: fomesafen

PRZM environment: MScottonC.txt modified Wedday, 22 January 2003 at 11:52:38

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

Metfile: w03940.dvf modified Wedday, 3 July 2002 at 09:05:46

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	2.359	2.347	2.28	2.067	1.889	0.8731
1962	1.225	1.212	1.151	1.006	0.9258	0.6755
1963	3.449	3.396	3.302	3.009	2.736	1.281
1964	5.296	5.221	4.926	4.387	3.982	2.151
1965	1.666	1.658	1.623	1.546	1.489	0.9706
1966	6.578	6.515	6.261	5.546	5.026	2.352
1967	17.99	17.83	17.13	15.21	13.9	7.012
1968	7.412	7.33	7.005	6.341	5.781	4.477
1969	2.342	2.33	2.281	2.174	2.094	1.424
1970	6.126	6.036	5.691	5.091	4.629	2.192
1971	1.927	1.917	1.876	1.785	1.716	1.191
1972	1.298	1.279	1.202	1.05	0.9479	0.5909
1973	11.01	10.88	10.42	9.126	8.225	3.649
1974	3.108	3.089	3.01	2.845	2.717	1.885
1975	4.968	4.907	4.678	4.164	3.785	1.947
1976	21.81	21.51	20.45	18.31	16.64	7.73
1977	7.334	7.307	7.194	6.903	6.619	4.479
1978	4.46	4.408	4.21	3.698	3.334	2.095
1979	9.693	9.561	9.057	8.12	7.42	3.74
1980	13.88	13.73	13.2	11.53	10.33	5.424
1981	8.777	8.681	8.336	7.29	6.561	3.981
1982	11.88	11.7	11.2	9.778	8.833	4.639
1983	14.44	14.3	13.79	12.36	11.22	6.181
1984	4.634	4.584	4.461	4.055	3.898	2.971
1985	3.871	3.814	3.7	3.506	3.229	1.908
1986	5.063	5.025	4.82	4.313	3.9	2.178
1987	3.295	3.262	3.092	2.68	2.416	1.55
1988	5.442	5.355	5.052	4.498	4.13	2.121
1989	15.18	15.01	14.3	12.65	11.49	5.787
1990	4.626	4.6	4.494	4.247	4.051	2.628

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129		21.81	21.51	20.45	18.31	16.64	7.73
0.0645161290322581		17.99	17.83	17.13	15.21	13.9	7.012
0.0967741935483871		15.18	15.01	14.3	12.65	11.49	6.181
0.129032258064516		14.44	14.3	13.79	12.36	11.22	5.787
0.161290322580645		13.88	13.73	13.2	11.53	10.33	5.424
0.193548387096774		11.88	11.7	11.2	9.778	8.833	4.639
0.225806451612903		11.01	10.88	10.42	9.126	8.225	4.479
0.258064516129032		9.693	9.561	9.057	8.12	7.42	4.477
0.290322580645161		8.777	8.681	8.336	7.29	6.619	3.981
0.32258064516129		7.412	7.33	7.194	6.903	6.561	3.74
0.354838709677419		7.334	7.307	7.005	6.341	5.781	3.649
0.387096774193548		6.578	6.515	6.261	5.546	5.026	2.971
0.419354838709677		6.126	6.036	5.691	5.091	4.629	2.628
0.451612903225806		5.442	5.355	5.052	4.498	4.13	2.352
0.483870967741936		5.296	5.221	4.926	4.387	4.051	2.192
0.516129032258065		5.063	5.025	4.82	4.313	3.982	2.178
0.548387096774194		4.968	4.907	4.678	4.247	3.9	2.151
0.580645161290323		4.634	4.6	4.494	4.164	3.898	2.121
0.612903225806452		4.626	4.584	4.461	4.055	3.785	2.095
0.645161290322581		4.46	4.408	4.21	3.698	3.334	1.947
0.67741935483871		3.871	3.814	3.7	3.506	3.229	1.908
0.709677419354839		3.449	3.396	3.302	3.009	2.736	1.885
0.741935483870968		3.295	3.262	3.092	2.845	2.717	1.55
0.774193548387097		3.108	3.089	3.01	2.68	2.416	1.424
0.806451612903226		2.359	2.347	2.281	2.174	2.094	1.281
0.838709677419355		2.342	2.33	2.28	2.067	1.889	1.191
0.870967741935484		1.927	1.917	1.876	1.785	1.716	0.9706
0.903225806451613		1.666	1.658	1.623	1.546	1.489	0.8731
0.935483870967742		1.298	1.279	1.202	1.05	0.9479	0.6755
0.967741935483871		1.225	1.212	1.151	1.006	0.9258	0.5909
0.1	15.106	14.939	14.249	12.621	11.463	6.1416	
Average of yearly averages:							3.00277

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: MSscottongrd

Metfile: w03940.dvf

PRZM scenario: MSscottonC.txt

EXAMS environment file: pond298.exv

Chemical Name: fomesafen

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	420	g/mol	
Henry's Law Const.	henry	7.3E-13	atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr	7.5E-7	torr	
Solubility	sol	1200	mg/L	
Kd	Kd	0.68	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	289	days	Half-life
Aerobic Aquatic Metabolism	kbacw	115.71	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	428.8	days	Halfife
Hydrolysis:	pH 7	1000	days	Half-life
Method:	CAM	1	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	0.56	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	15-5	dd/mm or dd/mmm or dd-mm or dd-mmm	

Description Variable Name Value Units Comments

Molecular weight mwt 420 g/mol

Henry's Law Const. henry 7.3E-13 atm-m<sup>3</sup>/mol

Vapor Pressure vapr 7.5E-7 torr

Solubility sol 1200 mg/L

Kd Kd 0.68 mg/L

Koc Koc mg/L

Photolysis half-life kdp 289 days Half-life

Aerobic Aquatic Metabolism kbacw 115.71 days Halfife

Anaerobic Aquatic Metabolism kbacs days Halfife

Aerobic Soil Metabolism asm 428.8 days Halfife

Hydrolysis: pH 7 1000 days Half-life

Method: CAM 1 integer See PRZM manual

Incorporation Depth: DEPI 0 cm

Application Rate: TAPP 0.56 kg/ha

Application Efficiency: APPEFF 0.99 fraction

Spray Drift DRFT 0.01 fraction of application rate applied to pond

Application Date Date 15-5 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 Pond

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

## NC Scenario

stored as NCcottongrd.out

Chemical: fomesafen

PRZM environment: NCcottonC.txt

modified Satday, 12 October 2002 at 17:12:02

EXAMS environment: pond298.exv

modified Thuday, 29 August 2002 at 16:33:30

Metfile: w13722.dvf modified Wedday, 3 July 2002 at 09:05:50

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	4.053	4.012	3.808	3.415	3.131	1.326
1962	4.154	4.1	4.002	3.614	3.359	2.089
1963	1.913	1.906	1.875	1.809	1.75	1.337
1964	5.086	5.02	4.751	4.43	4.108	2.084
1965	12.58	12.44	11.89	10.72	9.847	5.116
1966	9.785	9.667	9.293	8.251	7.554	5.194
1967	19.16	18.94	18.17	16.3	14.98	7.965
1968	8.898	8.791	8.479	7.718	7.473	6.183
1969	4.75	4.694	4.556	4.279	4.031	3.359
1970	4.853	4.79	4.655	4.206	3.883	2.575
1971	3.118	3.08	2.983	2.671	2.462	1.968
1972	9.481	9.375	9.018	8.047	7.396	3.693
1973	6.254	6.176	5.942	5.304	4.88	3.624
1974	2.913	2.884	2.77	2.492	2.345	1.972
1975	1.56	1.548	1.476	1.312	1.218	1.045
1976	1.235	1.22	1.155	1.028	0.9462	0.6842
1977	1.26	1.243	1.194	1.087	1.017	0.6469
1978	4.502	4.439	4.219	4.006	3.698	1.839
1979	4.787	4.727	4.566	4.402	4.18	2.624
1980	10.7	10.56	9.973	8.728	7.93	4.208
1981	8.95	8.845	8.367	7.405	6.83	4.554
1982	4.061	4.047	3.985	3.835	3.702	2.733
1983	2.282	2.256	2.139	1.892	1.746	1.339
1984	2.448	2.416	2.316	2.089	1.945	1.213
1985	4.706	4.646	4.526	4.105	3.78	2.017
1986	3.8	3.745	3.599	3.233	2.979	2.016
1987	3.5	3.453	3.251	2.836	2.579	1.727
1988	2.288	2.261	2.145	1.954	1.804	1.306
1989	2.634	2.598	2.491	2.237	2.057	1.255
1990	1.096	1.09	1.066	1.013	0.972	0.7538

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	19.16	18.94	18.17	16.3	14.98	7.965	
0.0645161290322581	12.58	12.44	11.89	10.72	9.847	6.183	
0.0967741935483871	10.7	10.56	9.973	8.728	7.93	5.194	
0.129032258064516	9.785	9.667	9.293	8.251	7.554	5.116	
0.161290322580645	9.481	9.375	9.018	8.047	7.473	4.554	
0.193548387096774	8.95	8.845	8.479	7.718	7.396	4.208	
0.225806451612903	8.898	8.791	8.367	7.405	6.83	3.693	
0.258064516129032	6.254	6.176	5.942	5.304	4.88	3.624	
0.290322580645161	5.086	5.02	4.751	4.43	4.18	3.359	
0.32258064516129	4.853	4.79	4.655	4.402	4.108	2.733	
0.354838709677419	4.787	4.727	4.566	4.279	4.031	2.624	
0.387096774193548	4.75	4.694	4.556	4.206	3.883	2.575	
0.419354838709677	4.706	4.646	4.526	4.105	3.78	2.089	
0.451612903225806	4.502	4.439	4.219	4.006	3.702	2.084	
0.483870967741936	4.154	4.1	4.002	3.835	3.698	2.017	
0.516129032258065	4.061	4.047	3.985	3.614	3.359	2.016	
0.548387096774194	4.053	4.012	3.808	3.415	3.131	1.972	
0.580645161290323	3.8	3.745	3.599	3.233	2.979	1.968	
0.612903225806452	3.5	3.453	3.251	2.836	2.579	1.839	
0.645161290322581	3.118	3.08	2.983	2.671	2.462	1.727	
0.67741935483871	2.913	2.884	2.77	2.492	2.345	1.339	
0.709677419354839	2.634	2.598	2.491	2.237	2.057	1.337	
0.741935483870968	2.448	2.416	2.316	2.089	1.945	1.326	
0.774193548387097	2.288	2.261	2.145	1.954	1.804	1.306	
0.806451612903226	2.282	2.256	2.139	1.892	1.75	1.255	
0.838709677419355	1.913	1.906	1.875	1.809	1.746	1.213	
0.870967741935484	1.56	1.548	1.476	1.312	1.218	1.045	
0.903225806451613	1.26	1.243	1.194	1.087	1.017	0.7538	
0.935483870967742	1.235	1.22	1.155	1.028	0.972	0.6842	
0.967741935483871	1.096	1.09	1.066	1.013	0.9462	0.6469	

0.1            10.6085   10.4707   9.905            8.6803            7.8924   5.1862  
Average of yearly averages:            2.61486333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: NCcottongrd

Metfile: w13722.dvf

PRZM scenario: NCcottonC.txt

EXAMS environment file: pond298.exv

Chemical Name: fomesafen

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	420	g/mol	
Henry's Law Const.	henry	7.3E-13	atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr	7.5E-7	torr	
Solubility	sol	1200	mg/L	
Kd	Kd	0.68	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	289	days	Half-life
Aerobic Aquatic Metabolism	kbacw	115.71	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	428.8	days	Halfife
Hydrolysis:	pH 7	1000	days	Half-life
Method:	CAM	1	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	0.56	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	15-6	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            Pond

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

## TX Scenario

stored as TXcottongrd.out

Chemical: fomesafen

PRZM environment: TXcottonC.txt

modified Satday, 12 October 2002 at 17:29:08

EXAMS environment: pond298.exv

modified Thuday, 29 August 2002 at 16:33:30

Metfile: w13958.dvf modified Wedday, 3 July 2002 at 09:06:24

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	1.383	1.367	1.313	1.155	1.046	0.4556
1962	3.417	3.366	3.181	2.764	2.472	1.167
1963	0.9787	0.966	0.9118	0.8493	0.7924	0.5976
1964	1.095	1.077	1.009	0.8653	0.771	0.4293
1965	16.65	16.54	15.79	14.17	12.78	5.535
1966	4.109	4.09	4.013	3.834	3.679	2.197
1967	2.479	2.448	2.377	2.074	1.859	1.037
1968	10.86	10.72	10.38	9.197	8.334	3.791
1969	2.837	2.821	2.752	2.604	2.496	1.818
1970	11.48	11.34	10.86	9.558	8.597	3.876
1971	2.869	2.852	2.78	2.622	2.498	1.647
1972	4.817	4.757	4.513	4.012	3.641	1.761
1973	1.753	1.728	1.634	1.426	1.285	0.9753
1974	0.606	0.598	0.5756	0.5325	0.4914	0.4172
1975	1.701	1.687	1.597	1.393	1.281	0.6492
1976	3.824	3.787	3.654	3.352	3.061	1.479
1977	1.652	1.632	1.542	1.343	1.218	0.8732
1978	1.926	1.9	1.793	1.577	1.448	0.7561
1979	15.83	15.64	14.83	12.93	11.65	5.099
1980	7.707	7.618	7.228	6.239	5.549	3.537
1981	6.229	6.151	5.817	5.173	4.68	2.491
1982	14.98	14.79	14.03	12.22	10.91	4.946
1983	11.1	10.96	10.61	9.462	8.57	4.662
1984	2.87	2.856	2.8	2.661	2.538	1.613
1985	0.7261	0.7153	0.6744	0.6373	0.5948	0.4379
1986	4.965	4.903	4.651	4.083	3.653	1.588
1987	2.716	2.68	2.534	2.203	1.977	1.226
1988	2.107	2.08	2.001	1.764	1.602	0.9004
1989	4.804	4.736	4.537	3.969	3.557	1.659
1990	1.326	1.302	1.207	1.081	1.023	0.7886

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129		16.65	16.54	15.79	14.17	12.78	5.535
0.0645161290322581		15.83	15.64	14.83	12.93	11.65	5.099
0.0967741935483871		14.98	14.79	14.03	12.22	10.91	4.946
0.129032258064516		11.48	11.34	10.86	9.558	8.597	4.662
0.161290322580645		11.1	10.96	10.61	9.462	8.57	3.876
0.193548387096774		10.86	10.72	10.38	9.197	8.334	3.791
0.225806451612903		7.707	7.618	7.228	6.239	5.549	3.537
0.258064516129032		6.229	6.151	5.817	5.173	4.68	2.491
0.290322580645161		4.965	4.903	4.651	4.083	3.679	2.197
0.32258064516129		4.817	4.757	4.537	4.012	3.653	1.818
0.354838709677419		4.804	4.736	4.513	3.969	3.641	1.761
0.387096774193548		4.109	4.09	4.013	3.834	3.557	1.659
0.419354838709677		3.824	3.787	3.654	3.352	3.061	1.647
0.451612903225806		3.417	3.366	3.181	2.764	2.538	1.613
0.483870967741936		2.87	2.856	2.8	2.661	2.498	1.588
0.516129032258065		2.869	2.852	2.78	2.622	2.496	1.479
0.548387096774194		2.837	2.821	2.752	2.604	2.472	1.226
0.580645161290323		2.716	2.68	2.534	2.203	1.977	1.167
0.612903225806452		2.479	2.448	2.377	2.074	1.859	1.037
0.645161290322581		2.107	2.08	2.001	1.764	1.602	0.9753
0.67741935483871		1.926	1.9	1.793	1.577	1.448	0.9004
0.709677419354839		1.753	1.728	1.634	1.426	1.285	0.8732
0.741935483870968		1.701	1.687	1.597	1.393	1.281	0.7886
0.774193548387097		1.652	1.632	1.542	1.343	1.218	0.7561
0.806451612903226		1.383	1.367	1.313	1.155	1.046	0.6492
0.838709677419355		1.326	1.302	1.207	1.081	1.023	0.5976
0.870967741935484		1.095	1.077	1.009	0.8653	0.7924	0.4556
0.903225806451613		0.9787	0.966	0.9118	0.8493	0.771	0.4379
0.935483870967742		0.7261	0.7153	0.6744	0.6373	0.5948	0.4293
0.967741935483871		0.606	0.598	0.5756	0.5325	0.4914	0.4172
0.1	14.63	14.445	13.713	11.9538	10.6787	4.9176	
Average of yearly averages:							1.94698

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: TXcottongrd

Metfile: w13958.dvf

PRZM scenario: TXcottonC.txt

EXAMS environment file: pond298.exv

Chemical Name: fomesafen

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	420	g/mol	
Henry's Law Const.	henry	7.3E-13	atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr	7.5E-7	torr	
Solubility	sol	1200	mg/L	
Kd	Kd	0.68	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	289	days	Half-life
Aerobic Aquatic Metabolism	kbacw	115.71	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	428.8	days	Halfife
Hydrolysis:	pH 7	1000	days	Half-life
Method:	CAM	1	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	0.56	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	10-5	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 Pond

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

# Soybean-Aerial Application

## MS Scenario

stored as MSSoy.out

Chemical: fomesafen

PRZM environment: MSsoybeanC.txt modified Satday, 12 October 2002 at 17:07:44

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

Metfile: w13893.dvf modified Wedday, 3 July 2002 at 09:06:20

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	2.638	2.61	2.497	2.242	2.051	0.9418
1962	1.627	1.604	1.513	1.442	1.355	0.8555
1963	3.489	3.455	3.273	2.879	2.608	1.365
1964	2.78	2.747	2.685	2.406	2.19	1.303
1965	1.988	1.965	1.858	1.67	1.58	0.9703
1966	2.807	2.778	2.711	2.541	2.325	1.237
1967	5.827	5.763	5.537	4.948	4.511	2.355
1968	3.535	3.505	3.371	2.972	2.727	1.772
1969	2.118	2.093	1.991	1.797	1.639	1.039
1970	6.189	6.114	5.809	5.176	4.716	2.277
1971	3.888	3.848	3.703	3.281	2.973	1.845
1972	7.408	7.324	7.018	6.307	5.751	2.901
1973	7.468	7.388	7.146	6.458	5.856	3.194
1974	3.414	3.374	3.252	2.96	2.74	1.853
1975	5.174	5.112	4.866	4.409	4.028	2.138
1976	3.516	3.481	3.34	3.11	2.849	1.73
1977	1.825	1.801	1.702	1.523	1.407	0.9495
1978	4.205	4.158	3.961	3.535	3.205	1.556
1979	9.259	9.174	8.786	7.824	7.089	3.456
1980	4.876	4.818	4.646	4.174	3.751	2.345
1981	2.145	2.122	2.071	1.92	1.756	1.131
1982	1.782	1.77	1.69	1.529	1.426	0.8251
1983	3.706	3.68	3.562	3.164	2.863	1.419
1984	10.17	10.06	9.765	8.722	7.895	3.797
1985	2.961	2.927	2.805	2.657	2.476	1.881
1986	1.772	1.751	1.728	1.601	1.458	0.8914
1987	1.401	1.382	1.307	1.262	1.169	0.6688
1988	1.375	1.359	1.287	1.226	1.154	0.6494
1989	1.353	1.338	1.277	1.215	1.122	0.6338
1990	1.916	1.897	1.815	1.697	1.555	0.8096

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129		10.17	10.06	9.765	8.722	7.895	3.797
0.0645161290322581		9.259	9.174	8.786	7.824	7.089	3.456
0.0967741935483871		7.468	7.388	7.146	6.458	5.856	3.194
0.129032258064516		7.408	7.324	7.018	6.307	5.751	2.901
0.161290322580645		6.189	6.114	5.809	5.176	4.716	2.355
0.193548387096774		5.827	5.763	5.537	4.948	4.511	2.345
0.225806451612903		5.174	5.112	4.866	4.409	4.028	2.277
0.258064516129032		4.876	4.818	4.646	4.174	3.751	2.138
0.290322580645161		4.205	4.158	3.961	3.535	3.205	1.881
0.32258064516129		3.888	3.848	3.703	3.281	2.973	1.853
0.354838709677419		3.706	3.68	3.562	3.164	2.863	1.845
0.387096774193548		3.535	3.505	3.371	3.11	2.849	1.772
0.419354838709677		3.516	3.481	3.34	2.972	2.74	1.73
0.451612903225806		3.489	3.455	3.273	2.96	2.727	1.556
0.483870967741936		3.414	3.374	3.252	2.879	2.608	1.419
0.516129032258065		2.961	2.927	2.805	2.657	2.476	1.365
0.548387096774194		2.807	2.778	2.711	2.541	2.325	1.303
0.580645161290323		2.78	2.747	2.685	2.406	2.19	1.237
0.612903225806452		2.638	2.61	2.497	2.242	2.051	1.131
0.645161290322581		2.145	2.122	2.071	1.92	1.756	1.039
0.67741935483871		2.118	2.093	1.991	1.797	1.639	0.9703
0.709677419354839		1.988	1.965	1.858	1.697	1.58	0.9495
0.741935483870968		1.916	1.897	1.815	1.67	1.555	0.9418
0.774193548387097		1.825	1.801	1.728	1.601	1.458	0.8914
0.806451612903226		1.782	1.77	1.702	1.529	1.426	0.8555
0.838709677419355		1.772	1.751	1.69	1.523	1.407	0.8251
0.870967741935484		1.627	1.604	1.513	1.442	1.355	0.8096
0.903225806451613		1.401	1.382	1.307	1.262	1.169	0.6688
0.935483870967742		1.375	1.359	1.287	1.226	1.154	0.6494
0.967741935483871		1.353	1.338	1.277	1.215	1.122	0.6338
0.1	7.462	7.3816	7.1332	6.4429	5.8455	3.1647	
Average of yearly averages:							1.62630666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: MSSoy

Metfile: w13893.dvf

PRZM scenario: MSsoybeanC.txt

EXAMS environment file: pond298.exv

Chemical Name: fomesafen

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	420	g/mol	
Henry's Law Const.	henry	7.3E-13	atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr	7.5E-7	torr	
Solubility	sol	1200	mg/L	
Kd	Kd	0.68	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	289	days	Half-life
Aerobic Aquatic Metabolism	kbacw	115.71	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	428.8	days	Halfife
Hydrolysis:	pH 7	1000	days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	0.42	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	1-5	dd/mm or dd/mm or dd-mm or dd-mmm	