

## Appendix I. PRZM EXAM Example Runs

### California Turf- 2 applications

stored as CAturf2.out

Chemical: Captan

PRZM environment: CAturf no\_irrig.txt modified Monday, 16 April 2007 at 08:56:44

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 17:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 09:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	2.409	0.3378	0.1653	0.05789	0.03859	0.009517
1962	2.409	0.3927	0.1429	0.05012	0.03341	0.01204
1963	2.409	0.3379	0.1646	0.06521	0.04347	0.01072
1964	2.409	0.3379	0.1287	0.04506	0.03004	0.007419
1965	2.409	0.3379	0.1287	0.04682	0.03121	0.007698
1966	2.409	0.338	0.1288	0.04506	0.03004	0.007797
1967	2.409	0.339	0.1353	0.0477	0.0318	0.007841
1968	2.409	0.3386	0.1795	0.06283	0.04189	0.01031
1969	2.409	0.3379	0.13	0.04575	0.0305	0.007608
1970	2.409	0.4362	0.1485	0.05197	0.03465	0.008718
1971	3.603	0.5055	0.225	0.07882	0.05255	0.01296
1972	2.409	0.3376	0.1286	0.04502	0.03001	0.008977
1973	2.409	0.3408	0.1319	0.04617	0.03078	0.007657
1974	3.605	0.5056	0.1607	0.05902	0.03935	0.009702
1975	2.409	0.338	0.1574	0.05529	0.03686	0.009088
1976	2.409	0.4325	0.1468	0.05137	0.03425	0.00858
1977	2.409	0.338	0.1638	0.05733	0.03829	0.009573
1978	10.74	1.505	0.3539	0.1239	0.08259	0.02037
1979	2.409	0.3378	0.1287	0.05151	0.03434	0.008515
1980	2.409	0.4237	0.1477	0.05169	0.03446	0.00865
1981	2.409	0.3378	0.1451	0.0508	0.03387	0.008362
1982	2.416	0.339	0.1296	0.04722	0.03148	0.007762
1983	2.541	0.4051	0.1615	0.05656	0.0377	0.009297
1984	2.409	0.3373	0.1285	0.04498	0.02999	0.007433
1985	2.409	0.3394	0.1292	0.04669	0.03112	0.007704
1986	5.256	1.139	0.2825	0.09889	0.06592	0.01626
1987	2.409	0.3376	0.1286	0.04502	0.03001	0.007414
1988	2.409	0.3374	0.1285	0.06122	0.04082	0.01004
1989	2.409	0.374	0.1368	0.04788	0.03192	0.007876
1990	2.409	0.3378	0.1287	0.04505	0.03087	0.007627

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	10.74	1.505	0.3539	0.1239	0.08259	0.02037
0.0645161290322581	5.256	1.139	0.2825	0.09889	0.06592	0.01626
0.0967741935483871	3.605	0.5056	0.225	0.07882	0.05255	0.01296
0.129032258064516	3.603	0.5055	0.1795	0.06521	0.04347	0.01204
0.161290322580645	2.541	0.4362	0.1653	0.06283	0.04189	0.01072
0.193548387096774	2.416	0.4325	0.1646	0.06122	0.04082	0.01031
0.225806451612903	2.409	0.4237	0.1638	0.05902	0.03935	0.01004
0.258064516129032	2.409	0.4051	0.1615	0.05789	0.03859	0.009702
0.290322580645161	2.409	0.3927	0.1607	0.05733	0.03829	0.009573
0.32258064516129	2.409	0.374	0.1574	0.05656	0.0377	0.009517
0.354838709677419	2.409	0.3408	0.1485	0.05529	0.03686	0.009297
0.387096774193548	2.409	0.3394	0.1477	0.05197	0.03465	0.009088
0.419354838709677	2.409	0.339	0.1468	0.05169	0.03446	0.008977
0.451612903225806	2.409	0.339	0.1451	0.05151	0.03434	0.008718
0.483870967741936	2.409	0.3386	0.1429	0.05137	0.03425	0.00865
0.516129032258065	2.409	0.338	0.1368	0.0508	0.03387	0.00858
0.548387096774194	2.409	0.338	0.1353	0.05012	0.03341	0.008515
0.580645161290323	2.409	0.338	0.1319	0.04788	0.03192	0.008362
0.612903225806452	2.409	0.3379	0.13	0.0477	0.0318	0.007876
0.645161290322581	2.409	0.3379	0.1296	0.04722	0.03148	0.007841
0.67741935483871	2.409	0.3379	0.1292	0.04682	0.03121	0.007797
0.709677419354839	2.409	0.3379	0.1288	0.04669	0.03112	0.007762
0.741935483870968	2.409	0.3378	0.1287	0.04617	0.03087	0.007704
0.774193548387097	2.409	0.3378	0.1287	0.04575	0.03078	0.007698
0.806451612903226	2.409	0.3378	0.1287	0.04506	0.0305	0.007657

0.838709677419355	2.409	0.3378	0.1287	0.04506	0.03004	0.007627
0.870967741935484	2.409	0.3376	0.1286	0.04505	0.03004	0.007608
0.903225806451613	2.409	0.3376	0.1286	0.04502	0.03001	0.007433
0.935483870967742	2.409	0.3374	0.1285	0.04502	0.03001	0.007419
0.967741935483871	2.409	0.3373	0.1285	0.04498	0.02999	0.007414

0.1    3.6048  0.50559 0.22045 0.077459            0.051642            0.012868  
Average of yearly averages:    0.0094505

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

Data used for this run:

Output File: CAturf2

Metfile:            w23234.dvf

PRZM scenario: CAturf no\_irrig.txt

EXAMS environment file:            pond298.exv

Chemical Name: Captan

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	310	g/mol	
Henry's Law Const.	henry	9.59e-10		atm-m <sup>3</sup> /mol
Vapor Pressure	vapr	8.0e-8	torr	
Solubility	sol	3.3	mg/L	
Kd	Kd		mg/L	
Koc	Koc	200	mg/L	
Photolysis half-life	kdp	0.42	days	Half-life
Aerobic Aquatic Metabolism	kbacw	3.75	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1.85	days	Halfife
Aerobic Soil Metabolism	asm	1.25	days	Halfife
Hydrolysis:	pH 7	0.25	days	Half-life
Method: CAM	2	integer		See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	4.82	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/mmm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
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)

## California Almond – 4 applications

stored as CAalmon4.out

Chemical: Captan

PRZM environment: CAalmond\_NirrigC.txt modified Thuday, 17 June 2004 at 09:13:20

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 17:33:30

Metfile: w23232.dvf modified Wedday, 3 July 2002 at 09:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	2.595	0.54	0.2375	0.1067	0.07111	0.01753
1962	2.519	0.3857	0.212	0.09778	0.06518	0.01607
1963	6.47	1.129	0.5587	0.2208	0.1472	0.0363
1964	2.519	0.3533	0.2019	0.09423	0.06282	0.01545
1965	2.519	0.3533	0.2019	0.09932	0.06621	0.01634
1966	2.519	0.3531	0.2018	0.09417	0.06278	0.01548
1967	5.783	1.152	0.3731	0.1723	0.1149	0.02833
1968	2.535	0.599	0.2602	0.1146	0.07643	0.01879
1969	6.465	0.9055	0.2398	0.1555	0.1037	0.02557
1970	2.824	0.4311	0.217	0.09947	0.06631	0.01635
1971	2.519	0.5589	0.2522	0.1118	0.07456	0.01839
1972	2.519	0.3526	0.2015	0.0942	0.0628	0.01544
1973	2.53	0.4834	0.234	0.1055	0.0703	0.01734
1974	5.117	0.7176	0.2719	0.1187	0.07915	0.01962
1975	3.394	0.83	0.3498	0.146	0.09734	0.024
1976	2.519	0.3541	0.202	0.1087	0.07246	0.01782
1977	3.002	0.7542	0.2783	0.121	0.08106	0.01999
1978	4.794	0.7557	0.3435	0.1473	0.09822	0.02422
1979	12.48	1.75	0.5131	0.2032	0.1355	0.0334
1980	2.519	0.6458	0.261	0.122	0.08142	0.02002
1981	14.68	2.451	0.6271	0.2435	0.1625	0.04006
1982	15.12	2.301	0.5963	0.2819	0.1879	0.04633
1983	5.68	1.433	0.4654	0.1913	0.1275	0.03144
1984	2.52	0.3874	0.2083	0.09809	0.0654	0.01608
1985	2.519	0.3651	0.2248	0.1023	0.06818	0.01681
1986	6.407	0.8967	0.3781	0.1588	0.1058	0.0261
1987	7.626	1.402	0.4094	0.1668	0.1112	0.02742
1988	7.22	1.01	0.2015	0.1614	0.1084	0.02674
1989	2.901	0.8781	0.3671	0.1564	0.1043	0.02582
1990	4.931	0.6883	0.2017	0.0967	0.09505	0.02344

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	15.12	2.451	0.6271	0.2819	0.1879	0.04633
0.0645161290322581	14.68	2.301	0.5963	0.2435	0.1625	0.04006
0.0967741935483871	12.48	1.75	0.5587	0.2208	0.1472	0.0363
0.129032258064516	7.626	1.433	0.5131	0.2032	0.1355	0.0334
0.161290322580645	7.22	1.402	0.4654	0.1913	0.1275	0.03144
0.193548387096774	6.47	1.152	0.4094	0.1723	0.1149	0.02833
0.225806451612903	6.465	1.129	0.3781	0.1668	0.1112	0.02742
0.258064516129032	6.407	1.01	0.3731	0.1614	0.1084	0.02674
0.290322580645161	5.783	0.9055	0.3671	0.1588	0.1058	0.0261
0.32258064516129	5.68	0.8967	0.3498	0.1564	0.1043	0.02582
0.354838709677419	5.117	0.8781	0.3435	0.1555	0.1037	0.02557
0.387096774193548	4.931	0.83	0.2783	0.1473	0.09822	0.02422
0.419354838709677	4.794	0.7557	0.2719	0.146	0.09734	0.024
0.451612903225806	4.5117	0.7176	0.261	0.122	0.09505	0.02344
0.483870967741936	3.002	0.7176	0.2602	0.121	0.08142	0.02002
0.516129032258065	2.901	0.6883	0.2522	0.1187	0.08106	0.01999
0.548387096774194	2.824	0.6458	0.2398	0.1146	0.07915	0.01962
0.580645161290323	2.595	0.599	0.2375	0.1118	0.07643	0.01879
0.612903225806452	2.535	0.5589	0.234	0.1087	0.07456	0.01839
0.645161290322581	2.53	0.54	0.2248	0.1067	0.07246	0.01782
0.67741935483871	2.52	0.4834	0.217	0.1055	0.07111	0.01753
0.709677419354839	2.519	0.4311	0.212	0.1023	0.0703	0.01734
0.741935483870968	2.519	0.3874	0.2083	0.09947	0.06818	0.01681
0.774193548387097	2.519	0.3857	0.202	0.09932	0.06631	0.01635
0.806451612903226	2.519	0.3651	0.2019	0.09809	0.06621	0.01634
0.838709677419355	2.519	0.3541	0.2019	0.09778	0.0654	0.01608
0.870967741935484	2.519	0.3533	0.2018	0.0967	0.06518	0.01607

0.903225806451613	2.519	0.3533	0.2017	0.09423	0.06282	0.01548
0.935483870967742	2.519	0.3531	0.2015	0.0942	0.0628	0.01545
0.967741935483871	2.519	0.3526	0.2015	0.09417	0.06278	0.01544

0.1      11.9946 1.7183 0.55414 0.21904 0.14603 0.03601  
Average of yearly averages:      0.023223

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

Data used for this run:

Output File: CAalmon4

Metfile:            w23232.dvf

PRZM scenario: CAalmond\_NirrigC.txt

EXAMS environment file:            pond298.exv

Chemical Name: Captan

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	310	g/mol	
Henry's Law Const.	henry	9.59e-10		atm-m <sup>3</sup> /mol
Vapor Pressure	vapr	8.0e-8	torr	
Solubility	sol	3.3	mg/L	
Kd	Kd		mg/L	
Koc	Koc	200	mg/L	
Photolysis half-life	kdp	0.42	days	Half-life
Aerobic Aquatic Metabolism	kbacw	3.75	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1.85	days	Halfife
Aerobic Soil Metabolism	asm	1.25	days	Halfife
Hydrolysis:	pH 7	0.25	days	Half-life
Method: CAM	2	integer		See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	5.04	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-mm
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.
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)