

APPENDIX J-1: GENEEC AND PRZM/EXAMS INPUTS AND OUTPUTS

GENEEC FILES

Celery/Fennel Ground Broadcast

RUN No. 1 FOR Prometryn ON Celery * INPUT VALUES *

RATE (#/AC) No.APPS & SOIL SOLUBIL APPL TYPE NO-SPRAY INCORP
ONE(MULT) INTERVAL Koc (PPM) (%DRIFT) (FT) (IN)

2.000(2.000) 1 1 117.0 33.0 GRHIFI(6.6) .0 .0

FIELD AND STANDARD POND HALFLIFE VALUES (DAYS)

METABOLIC DAYS UNTIL HYDROLYSIS PHOTOLYSIS METABOLIC COMBINED
(FIELD) RAIN/RUNOFF (POND) (POND-EFF) (POND) (POND)

810.00 2 N/A .00- .00 ***** 1620.00

GENERIC EECs (IN MICROGRAMS/LITER (PPB)) Version 2.0 Aug 1, 2001

PEAK GEEC	MAX 4 DAY AVG GEEC	MAX 21 DAY AVG GEEC	MAX 60 DAY AVG GEEC	MAX 90 DAY AVG GEEC
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99.49	99.38	98.75	97.35	96.32
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Celery/Fennel Ground Incorporated

RUN No. 2 FOR Prometryn ON Celery * INPUT VALUES *

RATE (#/AC) No.APPS & SOIL SOLUBIL APPL TYPE NO-SPRAY INCORP
ONE(MULT) INTERVAL Koc (PPM) (%DRIFT) (FT) (IN)

2.000(2.000) 1 1 117.0 33.0 GRHIFI(6.6) .0 1.2

FIELD AND STANDARD POND HALFLIFE VALUES (DAYS)

METABOLIC DAYS UNTIL HYDROLYSIS PHOTOLYSIS METABOLIC COMBINED
(FIELD) RAIN/RUNOFF (POND) (POND-EFF) (POND) (POND)

810.00 2 N/A .00- .00 ***** 1620.00

GENERIC EECs (IN MICROGRAMS/LITER (PPB)) Version 2.0 Aug 1, 2001

PEAK GEEC	MAX 4 DAY AVG GEEC	MAX 21 DAY AVG GEEC	MAX 60 DAY AVG GEEC	MAX 90 DAY AVG GEEC
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84.14	84.04	83.52	82.34	81.47
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Parsley Ground Broadcast

RUN No. 3 FOR Prometryn ON Parsley * INPUT VALUES *

RATE (#/AC)	No.APPS &	SOIL	SOLUBIL	APPL TYPE	NO-SPRAY INCORP
ONE(MULT)	INTERVAL	Koc	(PPM)	(%DRIFT)	(FT) (IN)

2.000(2.000) 1 1 117.0 33.0 GRHIFI(6.6) .0 .0

FIELD AND STANDARD POND HALFLIFE VALUES (DAYS)

METABOLIC DAYS UNTIL HYDROLYSIS	PHOTOLYSIS	METABOLIC COMBINED
(FIELD) RAIN/RUNOFF (POND)	(POND-EFF) (POND)	(POND)

810.00 2 N/A .00- .00 ***** 1260.00

GENERIC EECs (IN MICROGRAMS/LITER (PPB)) Version 2.0 Aug 1, 2001

PEAK	MAX 4 DAY	MAX 21 DAY	MAX 60 DAY	MAX 90 DAY
GEEC	AVG GEEC	AVG GEEC	AVG GEEC	AVG GEEC
99.48	99.37	98.68	97.16	96.04

Dill-Ground Broadcast

RUN No. 5 FOR Prometryn ON Dill * INPUT VALUES *

RATE (#/AC)	No.APPS &	SOIL	SOLUBIL	APPL TYPE	NO-SPRAY INCORP
ONE(MULT)	INTERVAL	Koc	(PPM)	(%DRIFT)	(FT) (IN)

1.600(1.600) 1 1 117.0 33.0 GRHIFI(6.6) .0 .0

FIELD AND STANDARD POND HALFLIFE VALUES (DAYS)

METABOLIC DAYS UNTIL HYDROLYSIS	PHOTOLYSIS	METABOLIC COMBINED
(FIELD) RAIN/RUNOFF (POND)	(POND-EFF) (POND)	(POND)

810.00 2 N/A .00- .00 ***** 1260.00

GENERIC EECs (IN MICROGRAMS/LITER (PPB)) Version 2.0 Aug 1, 2001

PEAK	MAX 4 DAY	MAX 21 DAY	MAX 60 DAY	MAX 90 DAY
GEEC	AVG GEEC	AVG GEEC	AVG GEEC	AVG GEEC
79.59	79.49	78.95	77.73	76.83

Cotton Ground Broadcast

RUN No. 7 FOR Prometryn ON Cotton * INPUT VALUES *

RATE (#/AC) No.APPS & SOIL SOLUBIL APPL TYPE NO-SPRAY INCORP
ONE(MULT) INTERVAL Koc (PPM) (%DRIFT) (FT) (IN)

2.400(2.400) 1 1 117.0 33.0 GRHIFI(6.6) .0 .0

FIELD AND STANDARD POND HALFLIFE VALUES (DAYS)

METABOLIC DAYS UNTIL HYDROLYSIS PHOTOLYSIS METABOLIC COMBINED
(FIELD) RAIN/RUNOFF (POND) (POND-EFF) (POND) (POND)

810.00 2 N/A .00- .00 ***** 1260.00

GENERIC EECs (IN MICROGRAMS/LITER (PPB)) Version 2.0 Aug 1, 2001

PEAK MAX 4 DAY MAX 21 DAY MAX 60 DAY MAX 90 DAY
GEEC AVG GEEC AVG GEEC AVG GEEC AVG GEEC

119.38 119.24 118.42 116.59 115.24

Cotton Ground Incorporated

RUN No. 7 FOR Prometryn ON Cotton * INPUT VALUES *

RATE (#/AC) No.APPS & SOIL SOLUBIL APPL TYPE NO-SPRAY INCORP
ONE(MULT) INTERVAL Koc (PPM) (%DRIFT) (FT) (IN)

2.400(2.400) 1 1 117.0 33.0 GRHIFI(6.6) .0 .0

FIELD AND STANDARD POND HALFLIFE VALUES (DAYS)

METABOLIC DAYS UNTIL HYDROLYSIS PHOTOLYSIS METABOLIC COMBINED
(FIELD) RAIN/RUNOFF (POND) (POND-EFF) (POND) (POND)

810.00 2 N/A .00- .00 ***** 1260.00

GENERIC EECs (IN MICROGRAMS/LITER (PPB)) Version 2.0 Aug 1, 2001

PEAK MAX 4 DAY MAX 21 DAY MAX 60 DAY MAX 90 DAY
GEEC AVG GEEC AVG GEEC AVG GEEC AVG GEEC

119.38 119.24 118.42 116.59 115.24

Cotton Aerial

RUN No. 6 FOR Prometryn ON Cotton * INPUT VALUES *

RATE (#/AC) No.APPS & SOIL SOLUBIL APPL TYPE NO-SPRAY INCORP
ONE(MULT) INTERVAL Koc (PPM) (%DRIFT) (FT) (IN)

2.400(2.400) 1 1 117.0 33.0 AERL_B(13.0) .0 .0

FIELD AND STANDARD POND HALFLIFE VALUES (DAYS)

METABOLIC DAYS UNTIL HYDROLYSIS PHOTOLYSIS METABOLIC COMBINED
(FIELD) RAIN/RUNOFF (POND) (POND-EFF) (POND) (POND)

810.00 2 N/A .00- .00 ***** 1260.00

GENERIC EECs (IN MICROGRAMS/LITER (PPB)) Version 2.0 Aug 1, 2001

PEAK MAX 4 DAY MAX 21 DAY MAX 60 DAY MAX 90 DAY
GEEC AVG GEEC AVG GEEC AVG GEEC AVG GEEC

123.49 123.35 122.52 120.67 119.30

PRZM/EXAMS FILES

CELERY

Fall Application (Ground Spray)

PRZM INPUT FILE

"CarowcropRLF_V2.txt, 3/25/2008"

Santa Maria Valley Area; MLRA 15; Metfile: W23234.dvf

*** Record 3:

0.75 0 0 17.5 1 3

*** Record 6 -- ERFLAG

4

*** Record 7:

0.49 0.2 0.6 10 1 1 356.8

*** Record 8

1

*** Record 9

1 0.25 46 100 3 86 78 82 0 38

*** Record 9a-e

1 29

0101 1601 0102 1602 0103 1503 1603 2503 0104 1604 0105 1605 0106 1506 1606 0107
.395 .446 .497 .543 .585 .652 .662 .795 .750 .513 .254 .157 .144 .176 .176 .282
.011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011
78 78 78 78 78 78 78 78 86 86 86 86 86 86 86 86

1007 1507 1607 0108 1608 0109 1609 0110 1610 0111 1611 0112 1612
.438 .473 .422 .267 .127 .088 .083 .124 .145 .187 .239 .293 .345
.011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011
86 86 86 86 86 86 86 86 86 86 86 86 86

*** Record 10 -- NCPDS, the number of cropping periods

30

*** Record 11

010161 010461 080461 1

010162	010462	080462	1
010163	010463	080463	1
010164	010464	080464	1
010165	010465	080465	1
010166	010466	080466	1
010167	010467	080467	1
010168	010468	080468	1
010169	010469	080469	1
010170	010470	080470	1
010171	010471	080471	1
010172	010472	080472	1
010173	010473	080473	1
010174	010474	080474	1
010175	010475	080475	1
010176	010476	080476	1
010177	010477	080477	1
010178	010478	080478	1
010179	010479	080479	1
010180	010480	080480	1
010181	010481	080481	1
010182	010482	080482	1
010183	010483	080483	1
010184	010484	080484	1
010185	010485	080485	1
010186	010486	080486	1
010187	010487	080487	1
010188	010488	080488	1
010189	010489	080489	1
010190	010490	080490	1

*** Record 12 -- PTITLE
Prometryn - 1 applications @ 2.24 kg/ha
*** Record 13
30 1 0 0
*** Record 15 -- PSTNAM
Prometryn
*** Record 16

011261	0	1	4.0	2.24	.99	.01
011262	0	1	4.0	2.24	.99	.01
011263	0	1	4.0	2.24	.99	.01
011264	0	1	4.0	2.24	.99	.01
011265	0	1	4.0	2.24	.99	.01
011266	0	1	4.0	2.24	.99	.01
011267	0	1	4.0	2.24	.99	.01
011268	0	1	4.0	2.24	.99	.01
011269	0	1	4.0	2.24	.99	.01
011270	0	1	4.0	2.24	.99	.01
011271	0	1	4.0	2.24	.99	.01
011272	0	1	4.0	2.24	.99	.01
011273	0	1	4.0	2.24	.99	.01
011274	0	1	4.0	2.24	.99	.01
011275	0	1	4.0	2.24	.99	.01
011276	0	1	4.0	2.24	.99	.01
011277	0	1	4.0	2.24	.99	.01
011278	0	1	4.0	2.24	.99	.01
011279	0	1	4.0	2.24	.99	.01
011280	0	1	4.0	2.24	.99	.01
011281	0	1	4.0	2.24	.99	.01
011282	0	1	4.0	2.24	.99	.01
011283	0	1	4.0	2.24	.99	.01
011284	0	1	4.0	2.24	.99	.01
011285	0	1	4.0	2.24	.99	.01
011286	0	1	4.0	2.24	.99	.01
011287	0	1	4.0	2.24	.99	.01
011288	0	1	4.0	2.24	.99	.01
011289	0	1	4.0	2.24	.99	.01
011290	0	1	4.0	2.24	.99	.01

*** Record 17
0 1 0
*** Record 19 -- STITLE
"Mocho Silt Loam, 0 To 2 Percent Slopes, hydrologic group B"
*** Record 20

```

173      0  0  1  0  0  2  0  0  0
*** Record 26
0      0      0
*** Record 27 -- irrigation
3      0.1      0.5      0.1
*** Record 30
4      244
*** Record 33
2
1      10      1.35      0.283      0      0      0
0.0008560.000856      0
0.1      0.283      0.148      1.74      0
2      163      1.35      0.283      0      0      0
0.0008560.000856      0
1      0.283      0.148      1.74      0
***Record 40
0
YEAR      10      YEAR      10      YEAR      10      1
1
1  -----
7  YEAR
PRCP  TCUM  0  0
RUNF  TCUM  0  0
INFL  TCUM  1  1
ESLS  TCUM  0  0  1.0E3
RFLX  TCUM  0  0  1.0E5
EFLX  TCUM  0  0  1.0E5
RZFX  TCUM  0  0  1.0E5

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EXAMS EXA FILE

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set mode = 3
set outfil(1) to Y
set outfil(4) to Y
set outfil(2) to N
READ ENV C:\models\INPUTS\EXAMServ\pond298.exv
READ MET C:\models\INPUTS\Metfiles\w23234.dvrf
SET YEAR1 = 1961
recall chem 1
chemical name is Prometryn
set MWT(1) = 241.35
set HENRY(1) = 9.1E-9
set VAPR(1) = 1.0E-6
set SOL(1,1) = 33
set KBACW(*,1,1) = 1.78278595823031e-005
set KOC(1) = 244
set QTBAS(*,1,1) = 2
set QTBAW(*,1,1) = 2
READ PRZM P2E-C1.D61
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
RUN
READ PRZM P2E-C1.D62
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D63
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE

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```

READ PRZM P2E-C1.D64
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D65
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D66
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D67
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D68
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D69
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D70
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D71
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D72
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D73
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D74

```

```

set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D75
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D76
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D77
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D78
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D79
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D80
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D81
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D82
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D83
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D84
set STFL0(1,*) = 0.0

```



```

set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D85
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D86
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D87
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D88
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D89
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D90
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
QUIT

```

PRZM/EXAMS OUTPUT

stored as celery101.out

Chemical: Prometryn

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	11.29	11.18	10.78	5.454	3.636	0.8966
1962	24.85	24.76	21.34	13.95	12.55	10.82
1963	26.27	26.17	25.81	25.18	24.83	23.55
1964	37.33	37.21	33.86	33.07	32.66	30.85
1965	57.7	57.31	41.89	36.82	36.3	35.43
1966	67.19	67.03	66.61	57.87	55.19	53.01
1967	76.91	76.79	76.41	69.28	67.21	65.83
1968	79.27	79.17	76.43	75.65	75.33	73.21
1969	82.46	82.35	78.81	78.53	78.2	76.06
1970	83.42	83.35	82.78	81.49	81.1	79.01
1971	83.23	83.16	82.9	82.4	82.07	79.99

1972	81.56	81.52	81.33	80.96	80.7	78.67
1973	87.09	86.97	81.13	80.74	80.46	78.52
1974	88	87.87	87.41	86.62	86.13	83.41
1975	87.55	87.48	87.21	86.68	86.44	84.34
1976	107	93.6	84.19	83.84	83.56	81.96
1977	112	111	110	108	107	103
1978	106	106	106	105	105	102
1979	126	126	111	106	106	103
1980	125	125	125	123	123	118
1981	132	130	122	122	121	118
1982	155	155	141	138	137	132
1983	155	154	152	152	151	146
1984	154	154	153	152	152	147
1985	143	143	143	143	143	139
1986	137	137	137	137	136	133
1987	138	138	137	132	131	129
1988	139	139	136	135	134	131
1989	139	138	138	137	136	132
1990	130	130	130	129	129	126

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			155	155	153	152	152	147
0.0645161290322581			155	154	152	152	151	146
0.0967741935483871			154	154	143	143	143	139
0.129032258064516			143	143	141	138	137	133
0.161290322580645			139	139	138	137	136	132
0.193548387096774			139	138	137	137	136	132
0.225806451612903			138	138	137	135	134	131
0.258064516129032			137	137	136	132	131	129
0.290322580645161			132	130	130	129	129	126
0.32258064516129			130	130	125	123	123	118
0.354838709677419			126	126	122	122	121	118
0.387096774193548			125	125	111	108	107	103
0.419354838709677			112	111	110	106	106	103
0.451612903225806			107	106	106	105	105	102
0.483870967741936			106	93.6	87.41	86.68	86.44	84.34
0.516129032258065			88	87.87	87.21	86.62	86.13	83.41
0.548387096774194			87.55	87.48	84.19	83.84	83.56	81.96
0.580645161290323			87.09	86.97	82.9	82.4	82.07	79.99
0.612903225806452			83.42	83.35	82.78	81.49	81.1	79.01
0.645161290322581			83.23	83.16	81.33	80.96	80.7	78.67
0.67741935483871			82.46	82.35	81.13	80.74	80.46	78.52
0.709677419354839			81.56	81.52	78.81	78.53	78.2	76.06
0.741935483870968			79.27	79.17	76.43	75.65	75.33	73.21
0.774193548387097			76.91	76.79	76.41	69.28	67.21	65.83
0.806451612903226			67.19	67.03	66.61	57.87	55.19	53.01
0.838709677419355			57.7	57.31	41.89	36.82	36.3	35.43
0.870967741935484			37.33	37.21	33.86	33.07	32.66	30.85
0.903225806451613			26.27	26.17	25.81	25.18	24.83	23.55
0.935483870967742			24.85	24.76	21.34	13.95	12.55	10.82
0.967741935483871			11.29	11.18	10.78	5.454	3.636	0.8966

0.1 152.9 152.9 142.8 142.5 142.4 138.4

Average of yearly averages: 89.818553333333

Inputs generated by pe5.pl - November 2006

Data used for this run:

Output File: celery101

Metfile: w23234.dvf

PRZM scenario: CARowCropRLF_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: Prometryn

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

Molecular weight	mwt	241.35	g/mol	
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Henry's Law Const.	henry	9.1E-9	atm-m ³ /mol	
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Vapor Pressure vapr		1.0E-6	torr	
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Solubility	sol	33	mg/L	
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Kd	Kd		mg/L	
----	----	--	------	--

Koc	Koc	244	mg/L	
-----	-----	-----	------	--

Photolysis half-life kdp days Half-life
 Aerobic Aquatic Metabolism kbacw 1620 days Halfife
 Anaerobic Aquatic Metabolism kbacs days Halfife
 Aerobic Soil Metabolism asm 810 days Halfife
 Hydrolysis: pH 7 days Half-life
 Method: CAM 1 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 1-12 dd/mm or dd/mmm or dd-mm or dd-mmm
 Record 17: FILTRA
 IPSCND 1
 UPTKF
 Record 18: PLVKRT
 PLDKRT
 FEXTRC 0.5
 Flag for Index Res. Run IR EPA Pond
 Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

Spring Application (Ground Spray)

PRZM INPUT FILE

"CarowcropRLF_V2.txt, 3/25/2008"
 Santa Maria Valley Area; MLRA 15; Metfile: W23234.dvf
 *** Record 3:
 0.75 0 0 17.5 1 3
 *** Record 6 -- ERFLAG
 4
 *** Record 7:
 0.49 0.2 0.6 10 1 1 356.8
 *** Record 8
 1
 *** Record 9
 1 0.25 46 100 3 86 78 82 0 38
 *** Record 9a-e
 1 29
 0101 1601 0102 1602 0103 1503 1603 2503 0104 1604 0105 1605 0106 1506 1606 0107
 .395 .446 .497 .543 .585 .652 .662 .795 .750 .513 .254 .157 .144 .176 .176 .282
 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011
 78 78 78 78 78 78 78 86 86 86 86 86 86 86
 1007 1507 1607 0108 1608 0109 1609 0110 1610 0111 1611 0112 1612
 .438 .473 .422 .267 .127 .088 .083 .124 .145 .187 .239 .293 .345
 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011
 86 86 86 86 86 86 86 86 86 86 86 86
 *** Record 10 -- NCPDS, the number of cropping periods
 30
 *** Record 11
 010161 010461 080461 1
 010162 010462 080462 1
 010163 010463 080463 1
 010164 010464 080464 1
 010165 010465 080465 1
 010166 010466 080466 1
 010167 010467 080467 1
 010168 010468 080468 1
 010169 010469 080469 1
 010170 010470 080470 1
 010171 010471 080471 1
 010172 010472 080472 1
 010173 010473 080473 1
 010174 010474 080474 1
 010175 010475 080475 1
 010176 010476 080476 1
 010177 010477 080477 1
 010178 010478 080478 1
 010179 010479 080479 1
 010180 010480 080480 1
 010181 010481 080481 1

```

010182 010482 080482      1
010183 010483 080483      1
010184 010484 080484      1
010185 010485 080485      1
010186 010486 080486      1
010187 010487 080487      1
010188 010488 080488      1
010189 010489 080489      1
010190 010490 080490      1
*** Record 12 -- PTITLE
Prometryn - 1 applications @ 2.24 kg/ha
*** Record 13
      30      1      0      0
*** Record 15 -- PSTNAM
Prometryn
*** Record 16
010461 0 1 4.0 2.24 .99 .01
010462 0 1 4.0 2.24 .99 .01
010463 0 1 4.0 2.24 .99 .01
010464 0 1 4.0 2.24 .99 .01
010465 0 1 4.0 2.24 .99 .01
010466 0 1 4.0 2.24 .99 .01
010467 0 1 4.0 2.24 .99 .01
010468 0 1 4.0 2.24 .99 .01
010469 0 1 4.0 2.24 .99 .01
010470 0 1 4.0 2.24 .99 .01
010471 0 1 4.0 2.24 .99 .01
010472 0 1 4.0 2.24 .99 .01
010473 0 1 4.0 2.24 .99 .01
010474 0 1 4.0 2.24 .99 .01
010475 0 1 4.0 2.24 .99 .01
010476 0 1 4.0 2.24 .99 .01
010477 0 1 4.0 2.24 .99 .01
010478 0 1 4.0 2.24 .99 .01
010479 0 1 4.0 2.24 .99 .01
010480 0 1 4.0 2.24 .99 .01
010481 0 1 4.0 2.24 .99 .01
010482 0 1 4.0 2.24 .99 .01
010483 0 1 4.0 2.24 .99 .01
010484 0 1 4.0 2.24 .99 .01
010485 0 1 4.0 2.24 .99 .01
010486 0 1 4.0 2.24 .99 .01
010487 0 1 4.0 2.24 .99 .01
010488 0 1 4.0 2.24 .99 .01
010489 0 1 4.0 2.24 .99 .01
010490 0 1 4.0 2.24 .99 .01
*** Record 17
      0      1      0
*** Record 19 -- STITLE
"Mocho Silt Loam, 0 To 2 Percent Slopes, hydrologic group B"
*** Record 20
      173      0      0      1      0      0      2      0      0      0
*** Record 26
      0      0      0
*** Record 27 -- irrigation
      3      0.1      0.5      0.1
*** Record 30
      4      244
*** Record 33
      2
      1      10      1.35      0.283      0      0      0
      0.0008560.000856      0
      0.1      0.283      0.148      1.74      0
      2      163      1.35      0.283      0      0      0
      0.0008560.000856      0
      1      0.283      0.148      1.74      0
***Record 40
      0
      YEAR      10      YEAR      10      YEAR      10      1
      1
      1 -----

```

7	YEAR			
PRCP	TCUM	0	0	
RUNF	TCUM	0	0	
INFL	TCUM	1	1	
ESLS	TCUM	0	0	1.0E3
RFLX	TCUM	0	0	1.0E5
EFLX	TCUM	0	0	1.0E5
RZFX	TCUM	0	0	1.0E5

EXAMS EXA FILE

```

set mode = 3
set outfil(1) to Y
set outfil(4) to Y
set outfil(2) to N
READ ENV C:\models\INPUTS\EXAMSenv\pond298.exv
READ MET C:\models\INPUTS\Metfiles\w23234.dvf
SET YEAR1 = 1961
recall chem 1
chemical name is Prometryn
set MWT(1) = 241.35
set HENRY(1) = 9.1E-9
set VAPR(1) = 1.0E-6
set SOL(1,1) = 33
set KBACW(*,1,1) = 1.78278595823031e-005
set KOC(1) = 244
set QTBAS(*,1,1) = 2
set QTBAW(*,1,1) = 2
READ PRZM P2E-C1.D61
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
RUN
READ PRZM P2E-C1.D62
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D63
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D64
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D65
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D66
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0

```

```

CONTINUE
READ PRZM P2E-C1.D67
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D68
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D69
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D70
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D71
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D72
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D73
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D74
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D75
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D76
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE

```

```

READ PRZM P2E-C1.D77
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D78
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D79
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D80
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D81
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D82
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D83
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D84
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D85
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D86
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D87

```

```

set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D88
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D89
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D90
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
QUIT

```

PRZM/EXAMS OUTPUT

stored as celery31.out

Chemical: Prometryn

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	6.924	6.901	6.815	5.839	5.337	3.67
1962	38.83	38.54	37.46	35.65	32.72	14.68
1963	38.43	38.34	38.21	37.77	37.45	35.26
1964	38.81	38.76	38.61	38.15	37.03	35.66
1965	40.82	40.78	40.61	40.28	40.07	38.93
1966	46.76	46.73	46.56	45.02	43.63	41.63
1967	61.82	61.64	61.29	60.24	59.6	54.27
1968	57.8	57.75	57.55	57.18	56.92	55.85
1969	64	63.91	63.55	62.88	62.46	60.51
1970	66.39	66.32	66.03	65.49	65.14	63.43
1971	68.03	67.97	67.72	67.23	66.91	65.15
1972	74.44	74.34	73.83	73.22	71.98	65.77
1973	78.23	78.12	77.72	76.99	76.52	74.23
1974	89.7	89.53	88.88	87.73	87.04	82.08
1975	90.13	90.02	89.61	88.82	88.32	85.37
1976	85.14	84.98	84.88	84.55	84.38	83.15
1977	88.3	88.22	87.9	87.3	86.9	85.4
1978	91.8	91.72	91.38	90.76	90.48	88.14
1979	89.92	89.86	88.95	88.62	87.3	85.82
1980	93.92	93.83	93.47	92.82	92.38	90.05
1981	97.26	97.16	96.78	95.66	93.75	91.61
1982	102	102	102	101	100	97.64
1983	102	102	101	101	100	98.07
1984	99.8	99.72	99.4	98.74	98.29	96.75
1985	101	101	101	100	99.63	97.82
1986	102	102	102	101	100	98.19

1987	101	101	100	99.54	99.08	96.99
1988	106	106	106	105	104	100
1989	103	103	102	102	101	99.78
1990	104	104	104	103	103	101

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			106	106	106	105	104	101
0.0645161290322581			104	104	104	103	103	100
0.0967741935483871			103	103	102	102	101	99.78
0.129032258064516			102	102	102	101	100	98.19
0.161290322580645			102	102	102	101	100	98.07
0.193548387096774			102	102	101	101	100	97.82
0.225806451612903			101	101	101	100	99.63	97.64
0.258064516129032			101	101	100	99.54	99.08	96.99
0.290322580645161			99.8	99.72	99.4	98.74	98.29	96.75
0.32258064516129			97.26	97.16	96.78	95.66	93.75	91.61
0.354838709677419			93.92	93.83	93.47	92.82	92.38	90.05
0.387096774193548			91.8	91.72	91.38	90.76	90.48	88.14
0.419354838709677			90.13	90.02	89.61	88.82	88.32	85.82
0.451612903225806			89.92	89.86	88.95	88.62	87.3	85.4
0.483870967741936			89.7	89.53	88.88	87.73	87.04	85.37
0.516129032258065			88.3	88.22	87.9	87.3	86.9	83.15
0.548387096774194			85.14	84.98	84.88	84.55	84.38	82.08
0.580645161290323			78.23	78.12	77.72	76.99	76.52	74.23
0.612903225806452			74.44	74.34	73.83	73.22	71.98	65.77
0.645161290322581			68.03	67.97	67.72	67.23	66.91	65.15
0.67741935483871			66.39	66.32	66.03	65.49	65.14	63.43
0.709677419354839			64	63.91	63.55	62.88	62.46	60.51
0.741935483870968			61.82	61.64	61.29	60.24	59.6	55.85
0.774193548387097			57.8	57.75	57.55	57.18	56.92	54.27
0.806451612903226			46.76	46.73	46.56	45.02	43.63	41.63
0.838709677419355			40.82	40.78	40.61	40.28	40.07	38.93
0.870967741935484			38.83	38.76	38.61	38.15	37.45	35.66
0.903225806451613			38.81	38.54	38.21	37.77	37.03	35.26
0.935483870967742			38.43	38.34	37.46	35.65	32.72	14.68
0.967741935483871			6.924	6.901	6.815	5.839	5.337	3.67

0.1	102.9	102.9	102	101.9	100.9	99.621	
						Average of yearly averages:	72.8966666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: celery31

Metfile: w23234.dvf

PRZM scenario: CARowCropRLF_V2.txt

EXAMS environment file: pond298.exv

Chemical Name: Prometryn

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

Molecular weight	mwt	241.35	g/mol	
------------------	-----	--------	-------	--

Henry's Law Const.	henry	9.1E-9	atm-m^3/mol	
--------------------	-------	--------	-------------	--

Vapor Pressure	vapr	1.0E-6	torr	
----------------	------	--------	------	--

Solubility	sol	33	mg/L	
------------	-----	----	------	--

Kd	Kd		mg/L	
----	----	--	------	--

Koc	Koc	244	mg/L	
-----	-----	-----	------	--

Photolysis half-life	kdp		days	Half-life
----------------------	-----	--	------	-----------

Aerobic Aquatic Metabolism	kbacw	1620	days	Halfife
----------------------------	-------	------	------	---------

Anaerobic Aquatic Metabolism	kbacs		days	Halfife
------------------------------	-------	--	------	---------

Aerobic Soil Metabolism	asm	810	days	Halfife
-------------------------	-----	-----	------	---------

Hydrolysis:	pH 7	days	Half-life	
-------------	------	------	-----------	--

Method: CAM	1	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	1-4	dd/mm or dd/mm or dd-mm or dd-mmm	
------------------	------	-----	-----------------------------------	--

Record 17:	FILTRA			
------------	--------	--	--	--

IPSCND	1
--------	---

UPTKF	
-------	--

Record 18:	PLVKRT
------------	--------

PLDKRT
 FEXTRC 0.5
 Flag for Index Res. Run IR EPA Pond
 Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

PARSELY

Fall Application (Ground Spray)

PRZM INPUT FILE

```
"CaLettuceC, August 12, 2004"
"Monterey County; MLRA 15, Central California Coast Range; Metfile: W23273.dvf"
*** Record 3:
  0.79      0      0      17.5      1      1
*** Record 6 -- ERFLAG
  4
*** Record 7:
  0.37      1.34      0.5      10      1      6      356.8
*** Record 8
  1
*** Record 9
  1      0.25      12      90      3      94      89      94      0      30
*** Record 9a-e
  1      26
1602 0103 1603 0104 1604 0105 1605 0106 1606 0107 1007 1607 0108 1608 0109 1609
.188 .190 .191 .527 .558 .569 .572 .574 .575 .634 .796 .750 .602 .302 .176 .176
.011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011
89 89 89 89 89 89 94 94 94 94 94 94 94 94 94 94
0110 1610 0111 1611 0112 1012 1612 0101 1601 0102
.177 .178 .505 .560 .634 .803 .767 .632 .318 .186
.011 .011 .011 .011 .011 .011 .011 .011 .011 .011
94 94 94 94 94 94 94 94 94 94 94 94
*** Record 10 -- NCPDS, the number of cropping periods
  30
*** Record 11
160261 050561 120561      1
160262 050562 120562      1
160263 050563 120563      1
160264 050564 120564      1
160265 050565 120565      1
160266 050566 120566      1
160267 050567 120567      1
160268 050568 120568      1
160269 050569 120569      1
160270 050570 120570      1
160271 050571 120571      1
160272 050572 120572      1
160273 050573 120573      1
160274 050574 120574      1
160275 050575 120575      1
160276 050576 120576      1
160277 050577 120577      1
160278 050578 120578      1
160279 050579 120579      1
160280 050580 120580      1
160281 050581 120581      1
160282 050582 120582      1
160283 050583 120583      1
160284 050584 120584      1
160285 050585 120585      1
160286 050586 120586      1
160287 050587 120587      1
160288 050588 120588      1
160289 050589 120589      1
160290 050590 120590      1
*** Record 12 -- PTITLE
Prometryn - 1 applications @ 2.24 kg/ha
```

```

*** Record 13
  30      1      0      0
*** Record 15 -- PSTNAM
Prometryn
*** Record 16
011261 0 1 4.0 2.24 .99 .01
011262 0 1 4.0 2.24 .99 .01
011263 0 1 4.0 2.24 .99 .01
011264 0 1 4.0 2.24 .99 .01
011265 0 1 4.0 2.24 .99 .01
011266 0 1 4.0 2.24 .99 .01
011267 0 1 4.0 2.24 .99 .01
011268 0 1 4.0 2.24 .99 .01
011269 0 1 4.0 2.24 .99 .01
011270 0 1 4.0 2.24 .99 .01
011271 0 1 4.0 2.24 .99 .01
011272 0 1 4.0 2.24 .99 .01
011273 0 1 4.0 2.24 .99 .01
011274 0 1 4.0 2.24 .99 .01
011275 0 1 4.0 2.24 .99 .01
011276 0 1 4.0 2.24 .99 .01
011277 0 1 4.0 2.24 .99 .01
011278 0 1 4.0 2.24 .99 .01
011279 0 1 4.0 2.24 .99 .01
011280 0 1 4.0 2.24 .99 .01
011281 0 1 4.0 2.24 .99 .01
011282 0 1 4.0 2.24 .99 .01
011283 0 1 4.0 2.24 .99 .01
011284 0 1 4.0 2.24 .99 .01
011285 0 1 4.0 2.24 .99 .01
011286 0 1 4.0 2.24 .99 .01
011287 0 1 4.0 2.24 .99 .01
011288 0 1 4.0 2.24 .99 .01
011289 0 1 4.0 2.24 .99 .01
011290 0 1 4.0 2.24 .99 .01
*** Record 17
  0      1      0
*** Record 19 -- STITLE
Placentia sandy loam; Hydrologic Group D
*** Record 20
 171      0      0      1      0      0      0      0      0      0
*** Record 26
  0      0      0
*** Record 30
  4      244
*** Record 33
  5
  1      10      1.575      0.295      0      0      0
0.0008560.000856      0
      0.1      0.295      0.17      0.725      0
  2      22      1.575      0.295      0      0      0
0.0008560.000856      0
      2      0.295      0.17      0.725      0
  3      40      1.475      0.347      0      0      0
0.0008560.000856      0
      5      0.347      0.242      0.058      0
  4      77      1.725      0.224      0      0      0
0.0008560.000856      0
      1      0.224      0.139      0.058      0
      22      1.75      0.214      0      0      0
0.0008560.000856      0
      2      0.214      0.089      0.058      0
***Record 40
  0
      YEAR      10      YEAR      10      YEAR      10      1
  1
  1 -----
  7      YEAR
PRCP      TCUM      0      0
RUNF      TCUM      0      0
INFL      TCUM      1      1

```

ESLS	TCUM	0	0	1.0E3
RFLX	TCUM	0	0	1.0E5
EFLX	TCUM	0	0	1.0E5
RZFX	TCUM	0	0	1.0E5

EXAMS EXA FILE

```

set mode = 3
set outfil(1) to Y
set outfil(4) to Y
set outfil(2) to N
READ ENV C:\models\INPUTS\EXAMSenv\pond298.exv
READ MET C:\models\INPUTS\Metfiles\w23273.dvf
SET YEAR1 = 1961
recall chem 1
chemical name is Prometryn
set MWT(1) = 241.35
set HENRY(1) = 9.1E-9
set VAPR(1) = 1.0E-6
set SOL(1,1) = 33
set KBACW(*,1,1) = 1.78278595823031e-005
set KOC(1) = 244
set QTBAS(*,1,1) = 2
set QTBAW(*,1,1) = 2
READ PRZM P2E-C1.D61
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
RUN
READ PRZM P2E-C1.D62
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D63
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D64
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D65
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D66
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D67
set STFL0(1,*) = 0.0

```

```

set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D68
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D69
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D70
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D71
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D72
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D73
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D74
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D75
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D76
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D77
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0

```

```

set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D78
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D79
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D80
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D81
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D82
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D83
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D84
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D85
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D86
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D87
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0

```

```

set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D88
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D89
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D90
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
QUIT

```

PRZM/EXAMS OUTPUT

stored as lettuce101.out

Chemical: Prometryn

PRZM environment: CAlettuceSTD.txt modified Tuesday, 21 February 2006 at 15:38:22

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

Metfile: w23273.dvf modified Tuesday, 26 August 2008 at 06:15:40

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	48.06	47.63	46.01	23.37	15.58	3.842
1962	61.49	61.26	60.28	58.43	57.39	53.34
1963	80.73	80.45	79.59	78.26	77.47	72.01
1964	81.97	81.85	81.62	81.19	80.84	79.24
1965	96.89	94.97	82.33	81.51	81.23	79.51
1966	148	147	145	115	107	96.02
1967	155	155	154	151	150	144
1968	153	153	152	152	151	148
1969	158	158	157	156	155	151
1970	176	175	166	159	159	156
1971	174	174	173	172	171	166
1972	173	172	172	171	170	166
1973	219	218	207	191	186	183
1974	302	301	296	249	235	218
1975	301	300	297	296	295	284
1976	308	307	306	303	302	291
1977	330	329	308	306	305	299
1978	331	331	330	327	325	315
1979	330	329	321	319	318	311
1980	349	349	347	345	343	334
1981	354	353	353	351	350	340
1982	339	339	338	337	337	329
1983	367	366	365	361	359	348
1984	366	365	358	354	353	344
1985	363	363	362	360	359	350
1986	369	369	367	365	364	355
1987	378	378	370	366	366	358
1988	393	392	381	375	374	364
1989	391	391	389	387	385	373
1990	371	370	370	369	368	359

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129			393	392	389	387	385	373
0.0645161290322581			391	391	381	375	374	364
0.0967741935483871			378	378	370	369	368	359
0.129032258064516			371	370	370	366	366	358
0.161290322580645			369	369	367	365	364	355
0.193548387096774			367	366	365	361	359	350
0.225806451612903			366	365	362	360	359	348
0.258064516129032			363	363	358	354	353	344
0.290322580645161			354	353	353	351	350	340
0.32258064516129			349	349	347	345	343	334
0.354838709677419			339	339	338	337	337	329
0.387096774193548			331	331	330	327	325	315
0.419354838709677			330	329	321	319	318	311
0.451612903225806			330	329	308	306	305	299
0.483870967741936			308	307	306	303	302	291
0.516129032258065			302	301	297	296	295	284
0.548387096774194			301	300	296	249	235	218
0.580645161290323			219	218	207	191	186	183
0.612903225806452			176	175	173	172	171	166
0.645161290322581			174	174	172	171	170	166
0.67741935483871			173	172	166	159	159	156
0.709677419354839			158	158	157	156	155	151
0.741935483870968			155	155	154	152	151	148
0.774193548387097			153	153	152	151	150	144
0.806451612903226			148	147	145	115	107	96.02
0.838709677419355			96.89	94.97	82.33	81.51	81.23	79.51
0.870967741935484			81.97	81.85	81.62	81.19	80.84	79.24
0.903225806451613			80.73	80.45	79.59	78.26	77.47	72.01
0.935483870967742			61.49	61.26	60.28	58.43	57.39	53.34
0.967741935483871			48.06	47.63	46.01	23.37	15.58	3.842

0.1 377.3 377.2 370 368.7 367.8 358.9
Average of yearly averages: 235.6654

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: lettuce101

Metfile: w23273.dvf

PRZM scenario: CAlettuceSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: Prometryn

Description Variable Name Value Units Comments

Molecular weight mwt 241.35 g/mol

Henry's Law Const. henry 9.1E-9 atm-m³/mol

Vapor Pressure vapr 1.0E-6 torr

Solubility sol 33 mg/L

Kd Kd mg/L

Koc Koc 244 mg/L

Photolysis half-life kdp days Half-life

Aerobic Aquatic Metabolism kbacw 1620 days Halfife

Anaerobic Aquatic Metabolism kbacs days Halfife

Aerobic Soil Metabolism asm 810 days Halfife

Hydrolysis: pH 7 days Half-life

Method: CAM 1 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 1-12 dd/mm or dd/mm or dd-mm or dd-mm

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR EPA Pond

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

Spring Application (Ground Spray)

PRZM INPUT FILE

"CaLettuceC, August 12, 2004"

"Monterey County; MLRA 15, Central California Coast Range; Metfile: W23273.dvf"

*** Record 3:

0.79 0 0 17.5 1 1

*** Record 6 -- ERFLAG

4

*** Record 7:

0.37 1.34 0.5 10 1 6 356.8

*** Record 8

1

*** Record 9

1 0.25 12 90 3 94 89 94 0 30

*** Record 9a-e

1 26

1602 0103 1603 0104 1604 0105 1605 0106 1606 0107 1007 1607 0108 1608 0109 1609

.188 .190 .191 .527 .558 .569 .572 .574 .575 .634 .796 .750 .602 .302 .176 .176

.011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011

89 89 89 89 89 89 94 94 94 94 94 94 94 94 94 94

0110 1610 0111 1611 0112 1012 1612 0101 1601 0102

.177 .178 .505 .560 .634 .803 .767 .632 .318 .186

.011 .011 .011 .011 .011 .011 .011 .011 .011 .011

94 94 94 94 94 94 94 94 94 94

*** Record 10 -- NCPDS, the number of cropping periods

30

*** Record 11

160261 050561 120561 1

160262 050562 120562 1

160263 050563 120563 1

160264 050564 120564 1

160265 050565 120565 1

160266 050566 120566 1

160267 050567 120567 1

160268 050568 120568 1

160269 050569 120569 1

160270 050570 120570 1

160271 050571 120571 1

160272 050572 120572 1

160273 050573 120573 1

160274 050574 120574 1

160275 050575 120575 1

160276 050576 120576 1

160277 050577 120577 1

160278 050578 120578 1

160279 050579 120579 1

160280 050580 120580 1

160281 050581 120581 1

160282 050582 120582 1

160283 050583 120583 1

160284 050584 120584 1

160285 050585 120585 1

160286 050586 120586 1

160287 050587 120587 1

160288 050588 120588 1

160289 050589 120589 1

160290 050590 120590 1

*** Record 12 -- PTITLE

Prometryn - 1 applications @ 2.24 kg/ha

*** Record 13

30 1 0 0

*** Record 15 -- PSTNAM

Prometryn

*** Record 16

010461 0 1 4.0 2.24 .99 .01

010462 0 1 4.0 2.24 .99 .01

```

010463 0 1 4.0 2.24 .99 .01
010464 0 1 4.0 2.24 .99 .01
010465 0 1 4.0 2.24 .99 .01
010466 0 1 4.0 2.24 .99 .01
010467 0 1 4.0 2.24 .99 .01
010468 0 1 4.0 2.24 .99 .01
010469 0 1 4.0 2.24 .99 .01
010470 0 1 4.0 2.24 .99 .01
010471 0 1 4.0 2.24 .99 .01
010472 0 1 4.0 2.24 .99 .01
010473 0 1 4.0 2.24 .99 .01
010474 0 1 4.0 2.24 .99 .01
010475 0 1 4.0 2.24 .99 .01
010476 0 1 4.0 2.24 .99 .01
010477 0 1 4.0 2.24 .99 .01
010478 0 1 4.0 2.24 .99 .01
010479 0 1 4.0 2.24 .99 .01
010480 0 1 4.0 2.24 .99 .01
010481 0 1 4.0 2.24 .99 .01
010482 0 1 4.0 2.24 .99 .01
010483 0 1 4.0 2.24 .99 .01
010484 0 1 4.0 2.24 .99 .01
010485 0 1 4.0 2.24 .99 .01
010486 0 1 4.0 2.24 .99 .01
010487 0 1 4.0 2.24 .99 .01
010488 0 1 4.0 2.24 .99 .01
010489 0 1 4.0 2.24 .99 .01
010490 0 1 4.0 2.24 .99 .01
*** Record 17
0 1 0
*** Record 19 -- STITLE
Placentia sandy loam; Hydrologic Group D
*** Record 20
171 0 0 1 0 0 0 0 0 0
*** Record 26
0 0 0
*** Record 30
4 244
*** Record 33
5
1 10 1.575 0.295 0 0 0
0.0008560.000856 0
0.1 0.295 0.17 0.725 0
2 22 1.575 0.295 0 0 0
0.0008560.000856 0
2 0.295 0.17 0.725 0
3 40 1.475 0.347 0 0 0
0.0008560.000856 0
5 0.347 0.242 0.058 0
4 77 1.725 0.224 0 0 0
0.0008560.000856 0
1 0.224 0.139 0.058 0
5 22 1.75 0.214 0 0 0
0.0008560.000856 0
2 0.214 0.089 0.058 0
***Record 40
0
YEAR 10 YEAR 10 YEAR 10 1
1
1 -----
7 YEAR
PRCP TCUM 0 0
RUNF TCUM 0 0
INFL TCUM 1 1
ESLS TCUM 0 0 1.0E3
RFLX TCUM 0 0 1.0E5
EFLX TCUM 0 0 1.0E5
RZFX TCUM 0 0 1.0E5

```

EXAMS EXA FILE

```
set mode = 3
set outfil(1) to Y
set outfil(4) to Y
set outfil(2) to N
READ ENV C:\models\INPUTS\EXAMServ\pond298.exv
READ MET C:\models\INPUTS\Metfiles\w23273.dvf
SET YEAR1 = 1961
recall chem 1
chemical name is Prometryn
set MWT(1) = 241.35
set HENRY(1) = 9.1E-9
set VAPR(1) = 1.0E-6
set SOL(1,1) = 33
set KBACW(*,1,1) = 1.78278595823031e-005
set KOC(1) = 244
set QTBAS(*,1,1) = 2
set QTBAW(*,1,1) = 2
READ PRZM P2E-C1.D61
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
RUN
READ PRZM P2E-C1.D62
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D63
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D64
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D65
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D66
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D67
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D68
set STFLO(1,*) = 0.0
```

```

set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D69
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D70
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D71
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D72
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D73
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D74
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D75
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D76
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D77
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D78
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0

```

```

set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D79
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D80
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D81
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D82
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D83
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D84
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D85
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D86
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D87
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D88
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0

```

```

set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D89
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D90
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
QUIT

```

PRZM/EXAMS OUTPUT

stored as lettuce31.out
 Chemical: Prometryn
 PRZM environment: CAlettuceSTD.txt modified Tuesday, 21 February 2006 at 15:38:22
 EXAMS environment: pond298.exv modified Tuesday, 26 August 2008 at 06:14:08
 Metfile: w23273.dvf modified Tuesday, 26 August 2008 at 06:15:40
 Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	36.81	36.5	35.41	22.67	15.38	4.247
1962	35.08	34.92	34.52	34.13	33.89	32.76
1963	51.6	51.5	51.14	50.6	50.17	46.82
1964	74.01	73.79	72.95	71.23	64.3	51.84
1965	84.01	83.82	83.07	81.81	81.07	76.08
1966	93.9	93.73	93.08	88.37	83.75	78.19
1967	96.05	95.95	95.62	95.04	94.63	92.33
1968	105	105	105	104	102	93.39
1969	116	116	115	114	113	108
1970	135	135	134	123	118	111
1971	136	136	136	135	134	131
1972	145	145	144	141	137	130
1973	149	149	148	144	141	139
1974	182	182	181	167	161	152
1975	181	181	180	179	178	174
1976	187	187	186	184	183	175
1977	199	199	198	196	195	187
1978	197	197	196	195	195	192
1979	195	194	192	192	191	188
1980	199	199	199	197	197	193
1981	203	203	202	201	201	197
1982	210	210	209	207	206	201
1983	202	202	201	200	199	197
1984	193	193	193	192	192	189
1985	201	201	200	196	191	188
1986	212	211	210	209	207	203
1987	207	207	207	206	205	203
1988	217	217	216	215	214	208
1989	206	206	206	205	205	200
1990	199	199	198	198	197	193

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	217	217	217	216	215	214
0.0645161290322581	212	211	211	210	209	207
0.0967741935483871	210	210	210	209	207	206
0.129032258064516	207	207	207	207	206	205
0.161290322580645	206	206	206	206	205	205
0.193548387096774	203	203	203	202	201	201
0.225806451612903	202	202	202	201	200	199

0.258064516129032	201	201	200	198	197	193
0.290322580645161	199	199	199	197	197	193
0.32258064516129	199	199	198	196	195	192
0.354838709677419	199	199	198	196	195	189
0.387096774193548	197	197	196	195	192	188
0.419354838709677	195	194	193	192	191	188
0.451612903225806	193	193	192	192	191	187
0.483870967741936	187	187	186	184	183	175
0.516129032258065	182	182	181	179	178	174
0.548387096774194	181	181	180	167	161	152
0.580645161290323	149	149	148	144	141	139
0.612903225806452	145	145	144	141	137	131
0.645161290322581	136	136	136	135	134	130
0.67741935483871	135	135	134	123	118	111
0.709677419354839	116	116	115	114	113	108
0.741935483870968	105	105	105	104	102	93.39
0.774193548387097	96.05	95.95	95.62	95.04	94.63	92.33
0.806451612903226	93.9	93.73	93.08	88.37	83.75	78.19
0.838709677419355	84.01	83.82	83.07	81.81	81.07	76.08
0.870967741935484	74.01	73.79	72.95	71.23	64.3	51.84
0.903225806451613	51.6	51.5	51.14	50.6	50.17	46.82
0.935483870967742	36.81	36.5	35.41	34.13	33.89	32.76
0.967741935483871	35.08	34.92	34.52	22.67	15.38	4.247
0.1	209.7	209.7	208.8	206.9	205.9	202.8
Average of yearly averages:						144.488566666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: lettuce31

Metfile: w23273.dvf

PRZM scenario: CAlettuceSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: Prometryn

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	241.35	g/mol	
Henry's Law Const.	henry	9.1E-9	atm-m ³ /mol	
Vapor Pressure	vaprr	1.0E-6	torr	
Solubility	sol	33	mg/L	
Kd	Kd		mg/L	
Koc	Koc	244	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1620	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	810	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method: CAM	1	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	1-4	dd/mm or dd/mm/ or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND	1		
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		EPA Pond	
Flag for runoff calc.	RUNOFF	none	none, monthly or total(average of entire run)	

COTTON

Spring Application (Aerial Spray)

PRZM INPUT FILE

"CaCotton.xls - Created August 6, 2001"

"Fresno County, CA - MLRA 17, Metfile: W93193.dvf (old: Met17.met or Met18.met), (can use MLRA 18 metfile for Sacramento, CA),

*** Record 3:

0.73 0 0 17.5 1 1

*** Record 6 -- ERFLAG

4

*** Record 7:

0.21 0.37 1 10 1 2.5 356.8

*** Record 8

1

*** Record 9

1 0.2 65 100 1 89 86 89 0 122

*** Record 9a-e

1 25

0105 1605 0106 1606 0107 1607 0108 1608 0109 1609 0110 1610 0111 1611 0112 1612

.161 .085 .062 .062 .062 .054 .054 .054 .054 .054 .055 .091 .098 .108 .123 .137

.023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023

86 86 86 86 86 86 86 86 86 86 86 86 86 86 89 89 89

0101 1601 0102 1602 2502 0103 1603 0104 1604

.157 .175 .196 .351 .395 .412 .392 .337 .259

.023 .023 .023 .023 .023 .023 .023 .023 .023

89 89 89 89 89 89 89 89 89

*** Record 10 -- NCPDS, the number of cropping periods

30

*** Record 11

010561 200961 111161 1

010562 200962 111162 1

010563 200963 111163 1

010564 200964 111164 1

010565 200965 111165 1

010566 200966 111166 1

010567 200967 111167 1

010568 200968 111168 1

010569 200969 111169 1

010570 200970 111170 1

010571 200971 111171 1

010572 200972 111172 1

010573 200973 111173 1

010574 200974 111174 1

010575 200975 111175 1

010576 200976 111176 1

010577 200977 111177 1

010578 200978 111178 1

010579 200979 111179 1

010580 200980 111180 1

010581 200981 111181 1

010582 200982 111182 1

010583 200983 111183 1

010584 200984 111184 1

010585 200985 111185 1

010586 200986 111186 1

010587 200987 111187 1

010588 200988 111188 1

010589 200989 111189 1

010590 200990 111190 1

*** Record 12 -- PTITLE

Prometryn - 1 applications @ 2.69 kg/ha

*** Record 13

30 1 0 0

*** Record 15 -- PSTNAM

Prometryn

*** Record 16

010461 0 1 10.2 2.69 .95 .05


```

010462 0 1 10.2 2.69 .95 .05
010463 0 1 10.2 2.69 .95 .05
010464 0 1 10.2 2.69 .95 .05
010465 0 1 10.2 2.69 .95 .05
010466 0 1 10.2 2.69 .95 .05
010467 0 1 10.2 2.69 .95 .05
010468 0 1 10.2 2.69 .95 .05
010469 0 1 10.2 2.69 .95 .05
010470 0 1 10.2 2.69 .95 .05
010471 0 1 10.2 2.69 .95 .05
010472 0 1 10.2 2.69 .95 .05
010473 0 1 10.2 2.69 .95 .05
010474 0 1 10.2 2.69 .95 .05
010475 0 1 10.2 2.69 .95 .05
010476 0 1 10.2 2.69 .95 .05
010477 0 1 10.2 2.69 .95 .05
010478 0 1 10.2 2.69 .95 .05
010479 0 1 10.2 2.69 .95 .05
010480 0 1 10.2 2.69 .95 .05
010481 0 1 10.2 2.69 .95 .05
010482 0 1 10.2 2.69 .95 .05
010483 0 1 10.2 2.69 .95 .05
010484 0 1 10.2 2.69 .95 .05
010485 0 1 10.2 2.69 .95 .05
010486 0 1 10.2 2.69 .95 .05
010487 0 1 10.2 2.69 .95 .05
010488 0 1 10.2 2.69 .95 .05
010489 0 1 10.2 2.69 .95 .05
010490 0 1 10.2 2.69 .95 .05
*** Record 17
      0      1      0
*** Record 19 -- STITLE
Twisselman Clay - Hydg: C
*** Record 20
      100      0      0      1      0      0      2      0      0      0
*** Record 26
      0      0      0
*** Record 27 -- irrigation
      4      0.1      0.55      0.074
*** Record 30
      4      244
*** Record 33
      3
      1      10      1.45      0.36      0      0      0
      0.0008560.000856      0
      0.1      0.36      0.22      0.29      0
      2      26      1.5      0.36      0      0      0
      0.0008560.000856      0
      2      0.36      0.22      0.29      0
      3      64      1.6      0.317      0      0      0
      0.0008560.000856      0
      4      0.317      0.197      0.174      0
***Record 40
      0
      YEAR      10      YEAR      10      YEAR      10      1
      1
      1 -----
      7      YEAR
      PRCP      TCUM      0      0
      RUNF      TCUM      0      0
      INFL      TCUM      1      1
      ESLS      TCUM      0      0      1.0E3
      RFLX      TCUM      0      0      1.0E5
      EFLX      TCUM      0      0      1.0E5
      RZFX      TCUM      0      0      1.0E5

```

EXAMS EXA FILE

```

set mode = 3
set outfil(1) to Y

```

```

set outfil(4) to Y
set outfil(2) to N
READ ENV C:\models\INPUTS\EXAMServ\pond298.exv
READ MET C:\models\INPUTS\Metfiles\w93193.dvf
SET YEAR1 = 1961
recall chem 1
chemical name is Prometryn
set MWT(1) = 241.35
set HENRY(1) = 9.1E-9
set VAPR(1) = 1.0E-6
set SOL(1,1) = 33
set KBACW(*,1,1) = 1.78278595823031e-005
set KOC(1) = 244
set QTBAS(*,1,1) = 2
set QTBAW(*,1,1) = 2
READ PRZM P2E-C1.D61
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
RUN
READ PRZM P2E-C1.D62
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D63
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D64
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D65
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D66
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D67
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D68
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE

```

```

READ PRZM P2E-C1.D69
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D70
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D71
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D72
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D73
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D74
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D75
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D76
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D77
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D78
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D79

```

```

set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D80
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D81
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D82
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D83
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D84
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D85
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D86
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D87
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D88
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D89
set STFLO(1,*) = 0.0

```

```

set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D90
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
QUIT

```

PRZM/EXAMS OUTPUT

stored as cotton31.out

Chemical: Prometryn

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	7.133	7.078	6.871	6.593	6.448	4.398
1962	12.02	11.96	11.69	11.26	11.03	9.042
1963	30.42	30.23	29.89	28.78	28.17	21.86
1964	31.18	31.1	30.8	30.27	29.94	27.53
1965	35.19	35.1	34.79	34.27	33.94	31.21
1966	37.61	37.52	37.21	36.63	36.27	33.85
1967	45.48	45.41	45.05	44.47	43.99	39.72
1968	53.14	52.99	52.42	51.4	50.77	46.23
1969	70.41	70.15	69.18	67.45	66.43	58.64
1970	65.97	65.88	65.54	64.87	64.38	61.43
1971	78.81	78.61	77.82	76.4	75.49	68.81
1972	75.25	75.16	74.79	74.06	73.52	70.46
1973	74.56	74.46	74.1	73.35	72.8	69.74
1974	75.49	75.38	74.96	74.14	73.56	69.98
1975	74.27	74.19	73.85	73.18	72.67	69.68
1976	74.01	73.93	73.59	72.89	72.38	69.43
1977	73.73	73.62	73.23	72.62	72.18	69.05
1978	86.89	86.67	85.85	84.41	83.43	76.33
1979	82.03	81.93	81.54	80.75	80.17	76.87
1980	80.24	80.14	79.76	79.02	78.5	75.28
1981	83.27	83.14	82.62	81.54	80.76	76.5
1982	82.93	82.83	82.41	81.57	81.07	77.35
1983	83.93	83.82	83.35	82.4	81.87	78.28
1984	82.27	82.18	81.79	80.99	80.38	76.94
1985	80.3	80.19	79.78	78.97	78.39	75.08
1986	78.49	78.39	78.02	77.25	76.68	73.46
1987	77.09	76.98	76.58	76.23	76.03	72.98
1988	94.73	94.53	93.82	92.06	90.92	82.49
1989	88.96	88.85	88.42	88.11	87.77	84.4
1990	94.21	94.05	93.43	92.23	91.38	86.51

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129			94.73	94.53	93.82	92.23
0.0645161290322581			94.21	94.05	93.43	92.06
0.0967741935483871			88.96	88.85	88.42	88.11
0.129032258064516			86.89	86.67	85.85	84.41
0.161290322580645			83.93	83.82	83.35	82.4
0.193548387096774			83.27	83.14	82.62	81.57
0.225806451612903			82.93	82.83	82.41	81.54
0.258064516129032			82.27	82.18	81.79	80.99
0.290322580645161			82.03	81.93	81.54	80.75
0.32258064516129			80.3	80.19	79.78	79.02
0.354838709677419			80.24	80.14	79.76	78.97
0.387096774193548			78.81	78.61	78.02	77.25
						91.38
						90.92
						87.77
						83.43
						81.87
						81.07
						80.76
						80.38
						80.17
						78.5
						78.39
						76.68
						73.46

0.419354838709677	78.49	78.39	77.82	76.4	76.03	72.98
0.451612903225806	77.09	76.98	76.58	76.23	75.49	70.46
0.483870967741936	75.49	75.38	74.96	74.14	73.56	69.98
0.516129032258065	75.25	75.16	74.79	74.06	73.52	69.74
0.548387096774194	74.56	74.46	74.1	73.35	72.8	69.68
0.580645161290323	74.27	74.19	73.85	73.18	72.67	69.43
0.612903225806452	74.01	73.93	73.59	72.89	72.38	69.05
0.645161290322581	73.73	73.62	73.23	72.62	72.18	68.81
0.67741935483871	70.41	70.15	69.18	67.45	66.43	61.43
0.709677419354839	65.97	65.88	65.54	64.87	64.38	58.64
0.741935483870968	53.14	52.99	52.42	51.4	50.77	46.23
0.774193548387097	45.48	45.41	45.05	44.47	43.99	39.72
0.806451612903226	37.61	37.52	37.21	36.63	36.27	33.85
0.838709677419355	35.19	35.1	34.79	34.27	33.94	31.21
0.870967741935484	31.18	31.1	30.8	30.27	29.94	27.53
0.903225806451613	30.42	30.23	29.89	28.78	28.17	21.86
0.935483870967742	12.02	11.96	11.69	11.26	11.03	9.042
0.967741935483871	7.133	7.078	6.871	6.593	6.448	4.398

0.1 88.753 88.632 88.163 87.74 87.336 82.069
Average of yearly averages: 61.117666666667

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: cotton31

Metfile: w93193.dvf

PRZM scenario: CACotton_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: Prometryn

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	241.35	g/mol	
Henry's Law Const.	henry	9.1E-9	atm-m ³ /mol	
Vapor Pressure	vapr	1.0E-6	torr	
Solubility	sol	33	mg/L	
Kd	Kd		mg/L	
Koc	Koc	244	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1620	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		days	Halfife
Aerobic Soil Metabolism	asm	810	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method: CAM	1	integer	See PRZM manual	
Incorporation Depth:	DEPI	10.16	cm	
Application Rate:	TAPP	2.69	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	1-4	dd/mm or dd/mm or dd-mm or dd-mmm	

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR EPA Pond

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

Spring Application (Ground Spray)

PRZM INPUT FILE

"CaCotton.xls - Created August 6, 2001"

"Fresno County, CA - MLRA 17, Metfile: w93193.dvf (old: Met17.met or Met18.met), (can use MLRA 18 metfile for Sacramento, CA),

*** Record 3:

0.73	0	0	17.5	1	1
------	---	---	------	---	---

*** Record 6 -- ERFLAG

4

*** Record 7:

```

0.21    0.37      1      10      1      2.5    356.8
*** Record 8
1
*** Record 9
1      0.2      65      100      1  89  86  89      0      122
*** Record 9a-e
1      25
0105 1605 0106 1606 0107 1607 0108 1608 0109 1609 0110 1610 0111 1611 0112 1612
.161 .085 .062 .062 .062 .054 .054 .054 .054 .054 .055 .091 .098 .108 .123 .137
.023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023
86 86 86 86 86 86 86 86 86 86 86 86 86 89 89 89
0101 1601 0102 1602 2502 0103 1603 0104 1604
.157 .175 .196 .351 .395 .412 .392 .337 .259
.023 .023 .023 .023 .023 .023 .023 .023 .023
89 89 89 89 89 89 89 89 89 89 89 89
*** Record 10 -- NCPDS, the number of cropping periods
30
*** Record 11
010561 200961 111161 1
010562 200962 111162 1
010563 200963 111163 1
010564 200964 111164 1
010565 200965 111165 1
010566 200966 111166 1
010567 200967 111167 1
010568 200968 111168 1
010569 200969 111169 1
010570 200970 111170 1
010571 200971 111171 1
010572 200972 111172 1
010573 200973 111173 1
010574 200974 111174 1
010575 200975 111175 1
010576 200976 111176 1
010577 200977 111177 1
010578 200978 111178 1
010579 200979 111179 1
010580 200980 111180 1
010581 200981 111181 1
010582 200982 111182 1
010583 200983 111183 1
010584 200984 111184 1
010585 200985 111185 1
010586 200986 111186 1
010587 200987 111187 1
010588 200988 111188 1
010589 200989 111189 1
010590 200990 111190 1
*** Record 12 -- PTITLE
Prometryn - 1 applications @ 2.69 kg/ha
*** Record 13
30      1      0      0
*** Record 15 -- PSTNAM
Prometryn
*** Record 16
010461 0 1 10.2 2.69 .99 .01
010462 0 1 10.2 2.69 .99 .01
010463 0 1 10.2 2.69 .99 .01
010464 0 1 10.2 2.69 .99 .01
010465 0 1 10.2 2.69 .99 .01
010466 0 1 10.2 2.69 .99 .01
010467 0 1 10.2 2.69 .99 .01
010468 0 1 10.2 2.69 .99 .01
010469 0 1 10.2 2.69 .99 .01
010470 0 1 10.2 2.69 .99 .01
010471 0 1 10.2 2.69 .99 .01
010472 0 1 10.2 2.69 .99 .01
010473 0 1 10.2 2.69 .99 .01
010474 0 1 10.2 2.69 .99 .01
010475 0 1 10.2 2.69 .99 .01
010476 0 1 10.2 2.69 .99 .01

```

```

010477 0 1 10.2 2.69 .99 .01
010478 0 1 10.2 2.69 .99 .01
010479 0 1 10.2 2.69 .99 .01
010480 0 1 10.2 2.69 .99 .01
010481 0 1 10.2 2.69 .99 .01
010482 0 1 10.2 2.69 .99 .01
010483 0 1 10.2 2.69 .99 .01
010484 0 1 10.2 2.69 .99 .01
010485 0 1 10.2 2.69 .99 .01
010486 0 1 10.2 2.69 .99 .01
010487 0 1 10.2 2.69 .99 .01
010488 0 1 10.2 2.69 .99 .01
010489 0 1 10.2 2.69 .99 .01
010490 0 1 10.2 2.69 .99 .01
*** Record 17
      0      1      0
*** Record 19 -- STITLE
Twisselman Clay - Hydg: C
*** Record 20
      100      0      0      1      0      0      2      0      0      0
*** Record 26
      0      0      0
*** Record 27 -- irrigation
      4      0.1      0.55      0.074
*** Record 30
      4      244
*** Record 33
      3
      1      10      1.45      0.36      0      0      0
      0.0008560.000856      0
      0.1      0.36      0.22      0.29      0
      2      26      1.5      0.36      0      0      0
      0.0008560.000856      0
      2      0.36      0.22      0.29      0
      3      64      1.6      0.317      0      0      0
      0.0008560.000856      0
      4      0.317      0.197      0.174      0
***Record 40
      0
      YEAR      10      YEAR      10      YEAR      10      1
      1
      1 -----
      7      YEAR
      PRCP      TCUM      0      0
      RUNF      TCUM      0      0
      INFL      TCUM      1      1
      ESLS      TCUM      0      0      1.0E3
      RFLX      TCUM      0      0      1.0E5
      EFLX      TCUM      0      0      1.0E5
      RZFX      TCUM      0      0      1.0E5

```

EXAMS EXA FILE

```

set mode = 3
set outfil(1) to Y
set outfil(4) to Y
set outfil(2) to N
READ ENV C:\models\INPUTS\EXAMServ\pond298.exv
READ MET C:\models\INPUTS\Metfiles\w93193.dvf
SET YEAR1 = 1961
recall chem 1
chemical name is Prometryn
set MWT(1) = 241.35
set HENRY(1) = 9.1E-9
set VAPR(1) = 1.0E-6
set SOL(1,1) = 33
set KBACW(*,1,1) = 1.78278595823031e-005
set KOC(1) = 244

```



```

set QTBAS(*,1,1) = 2
set QTBAS(*,1,1) = 2
READ PRZM P2E-C1.D61
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
RUN
READ PRZM P2E-C1.D62
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D63
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D64
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D65
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D66
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D67
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D68
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D69
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D70
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0

```

```

CONTINUE
READ PRZM P2E-C1.D71
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D72
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D73
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D74
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D75
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D76
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D77
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D78
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D79
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D80
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE

```

```

READ PRZM P2E-C1.D81
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D82
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D83
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D84
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D85
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D86
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D87
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D88
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D89
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D90
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
QUIT

```

PRZM/EXAMS OUTPUT

stored as cotton31.out

Chemical: Prometryn

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	2.272	2.253	2.18	2.065	1.998	1.337
1962	2.996	2.982	2.929	2.847	2.813	2.411
1963	18.95	18.8	18.62	17.76	17.24	12.27
1964	16.05	16.03	15.95	15.78	15.67	14.96
1965	17.45	17.41	17.28	17.03	16.88	15.81
1966	16.85	16.82	16.74	16.58	16.47	15.84
1967	23	22.95	22.7	22.28	22.01	19.47
1968	28.19	28.1	27.75	27.13	26.76	24
1969	44.09	43.88	43.11	41.74	40.96	34.76
1970	37.29	37.26	37.16	36.92	36.72	35.71
1971	49.31	49.15	48.54	47.45	46.77	41.57
1972	43.38	43.35	43.23	42.95	42.72	41.63
1973	41.06	41.03	40.91	40.64	40.4	39.35
1974	40.61	40.56	40.39	40.03	39.76	38.22
1975	38.03	38.01	37.91	37.69	37.49	36.52
1976	36.31	36.28	36.19	35.97	35.77	34.85
1977	34.69	34.66	34.54	34.43	34.32	33.33
1978	47.81	47.64	47.03	46.04	45.37	40.12
1979	41.73	41.7	41.57	41.29	41.06	39.94
1980	39.25	39.22	39.1	38.85	38.66	37.61
1981	42.26	42.18	41.87	41.25	40.81	38.3
1982	41.12	41.07	40.88	40.46	40.17	38.51
1983	41.94	41.88	41.61	41.09	40.73	38.79
1984	38.9	38.87	38.75	38.48	38.25	37.12
1985	36.58	36.55	36.42	36.15	35.94	34.89
1986	34.46	34.43	34.32	34.08	33.88	32.9
1987	33.87	33.83	33.66	33.28	33.02	32.02
1988	51.28	51.08	50.52	49.17	48.34	41.51
1989	45.17	45.12	44.94	44.51	44.29	43.14
1990	50.01	49.9	49.5	48.73	48.21	44.96

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129			51.28	51.08	50.52	49.17
0.0645161290322581			50.01	49.9	49.5	48.73
0.0967741935483871			49.31	49.15	48.54	47.45
0.129032258064516			47.81	47.64	47.03	46.04
0.161290322580645			45.17	45.12	44.94	44.51
0.193548387096774			44.09	43.88	43.23	42.95
0.225806451612903			43.38	43.35	43.11	41.74
0.258064516129032			42.26	42.18	41.87	41.29
0.290322580645161			41.94	41.88	41.61	41.25
0.32258064516129			41.73	41.7	41.57	41.09
0.354838709677419			41.12	41.07	40.91	40.64
0.387096774193548			41.06	41.03	40.88	40.46
0.419354838709677			40.61	40.56	40.39	40.03
0.451612903225806			39.25	39.22	39.1	38.85
0.483870967741936			38.9	38.87	38.75	38.48
0.516129032258065			38.03	38.01	37.91	37.69
0.548387096774194			37.29	37.26	37.16	36.92
0.580645161290323			36.58	36.55	36.42	36.15
0.612903225806452			36.31	36.28	36.19	35.97
0.645161290322581			34.69	34.66	34.54	34.43
0.67741935483871			34.46	34.43	34.32	34.08
0.709677419354839			33.87	33.83	33.66	33.28
0.741935483870968			28.19	28.1	27.75	27.13
						26.76
						24

0.774193548387097	23	22.95	22.7	22.28	22.01	19.47
0.806451612903226	18.95	18.8	18.62	17.76	17.24	15.84
0.838709677419355	17.45	17.41	17.28	17.03	16.88	15.81
0.870967741935484	16.85	16.82	16.74	16.58	16.47	14.96
0.903225806451613	16.05	16.03	15.95	15.78	15.67	12.27
0.935483870967742	2.996	2.982	2.929	2.847	2.813	2.411
0.967741935483871	2.272	2.253	2.18	2.065	1.998	1.337

0.1 49.16 48.999 48.389 47.309 46.63 41.624
Average of yearly averages: 31.3949333333333

Inputs generated by pe5.pl - November 2006

Data used for this run:

Output File: cotton31

Metfile: w93193.dvf

PRZM scenario: CACotton_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: Prometryn

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

Molecular weight	mwt	241.35	g/mol	
------------------	-----	--------	-------	--

Henry's Law Const.	henry	9.1E-9	atm-m ³ /mol	
--------------------	-------	--------	-------------------------	--

Vapor Pressure vap	1.0E-6	torr		
--------------------	--------	------	--	--

Solubility	sol	33	mg/L	
------------	-----	----	------	--

Kd	Kd	mg/L		
----	----	------	--	--

Koc	Koc	244	mg/L	
-----	-----	-----	------	--

Photolysis half-life	kdp		days	Half-life
----------------------	-----	--	------	-----------

Aerobic Aquatic Metabolism	kbacw	1620	days	Halfife
----------------------------	-------	------	------	---------

Anaerobic Aquatic Metabolism	kbacs		days	Halfife
------------------------------	-------	--	------	---------

Aerobic Soil Metabolism	asm	810	days	Halfife
-------------------------	-----	-----	------	---------

Hydrolysis:	pH 7	days	Half-life	
-------------	------	------	-----------	--

Method: CAM	1	integer	See PRZM manual	
-------------	---	---------	-----------------	--

Incorporation Depth:	DEPI	10.16	cm	
----------------------	------	-------	----	--

Application Rate:	TAPP	2.69	kg/ha	
-------------------	------	------	-------	--

Application Efficiency:	APPEFF	0.99	fraction	
-------------------------	--------	------	----------	--

Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
-------------	------	------	--	--

Application Date	Date	1-4	dd/mm or dd/mm or dd-mm or dd-mmm	
------------------	------	-----	-----------------------------------	--

Record 17: FILTRA

 IPSCND 1

 UPTKF

Record 18: PLVKRT

 PLDKRT

 FEXTRC 0.5

Flag for Index Res. Run	IR	EPA Pond
-------------------------	----	----------

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

Fall Application (Ground Spray)

PRZM INPUT FILE

"CaCotton.xls - Created August 6, 2001"

"Fresno County, CA - MLRA 17, Metfile: w93193.dvf (old: Met17.met or Met18.met), (can use MLRA 18 metfile for Sacramento, CA),

*** Record 3:

0.73	0	0	17.5	1	1
------	---	---	------	---	---

*** Record 6 -- ERFLAG

4

*** Record 7:

0.21	0.37	1	10	1	2.5	356.8
------	------	---	----	---	-----	-------

*** Record 8

1

*** Record 9

1	0.2	65	100	1	89	86	89	0	122
---	-----	----	-----	---	----	----	----	---	-----

*** Record 9a-e

1 25

0105 1605 0106 1606 0107 1607 0108 1608 0109 1609 0110 1610 0111 1611 0112 1612

```

.161 .085 .062 .062 .062 .054 .054 .054 .054 .054 .055 .091 .098 .108 .123 .137
.023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023
86 86 86 86 86 86 86 86 86 86 86 86 86 89 89 89
0101 1601 0102 1602 2502 0103 1603 0104 1604
.157 .175 .196 .351 .395 .412 .392 .337 .259
.023 .023 .023 .023 .023 .023 .023 .023 .023
89 89 89 89 89 89 89 89 89
*** Record 10 -- NCPDS, the number of cropping periods
30
*** Record 11
010561 200961 111161 1
010562 200962 111162 1
010563 200963 111163 1
010564 200964 111164 1
010565 200965 111165 1
010566 200966 111166 1
010567 200967 111167 1
010568 200968 111168 1
010569 200969 111169 1
010570 200970 111170 1
010571 200971 111171 1
010572 200972 111172 1
010573 200973 111173 1
010574 200974 111174 1
010575 200975 111175 1
010576 200976 111176 1
010577 200977 111177 1
010578 200978 111178 1
010579 200979 111179 1
010580 200980 111180 1
010581 200981 111181 1
010582 200982 111182 1
010583 200983 111183 1
010584 200984 111184 1
010585 200985 111185 1
010586 200986 111186 1
010587 200987 111187 1
010588 200988 111188 1
010589 200989 111189 1
010590 200990 111190 1
*** Record 12 -- PTITLE
Prometryn - 1 applications @ 2.69 kg/ha
*** Record 13
30 1 0 0
*** Record 15 -- PSTNAM
Prometryn
*** Record 16
011261 0 1 4.0 2.69 .99 .01
011262 0 1 4.0 2.69 .99 .01
011263 0 1 4.0 2.69 .99 .01
011264 0 1 4.0 2.69 .99 .01
011265 0 1 4.0 2.69 .99 .01
011266 0 1 4.0 2.69 .99 .01
011267 0 1 4.0 2.69 .99 .01
011268 0 1 4.0 2.69 .99 .01
011269 0 1 4.0 2.69 .99 .01
011270 0 1 4.0 2.69 .99 .01
011271 0 1 4.0 2.69 .99 .01
011272 0 1 4.0 2.69 .99 .01
011273 0 1 4.0 2.69 .99 .01
011274 0 1 4.0 2.69 .99 .01
011275 0 1 4.0 2.69 .99 .01
011276 0 1 4.0 2.69 .99 .01
011277 0 1 4.0 2.69 .99 .01
011278 0 1 4.0 2.69 .99 .01
011279 0 1 4.0 2.69 .99 .01
011280 0 1 4.0 2.69 .99 .01
011281 0 1 4.0 2.69 .99 .01
011282 0 1 4.0 2.69 .99 .01
011283 0 1 4.0 2.69 .99 .01
011284 0 1 4.0 2.69 .99 .01

```

```

011285 0 1 4.0 2.69 .99 .01
011286 0 1 4.0 2.69 .99 .01
011287 0 1 4.0 2.69 .99 .01
011288 0 1 4.0 2.69 .99 .01
011289 0 1 4.0 2.69 .99 .01
011290 0 1 4.0 2.69 .99 .01
*** Record 17
0 1 0
*** Record 19 -- STITLE
Twisselman Clay - Hydrg: C
*** Record 20
100 0 0 1 0 0 2 0 0 0
*** Record 26
0 0 0
*** Record 27 -- irrigation
4 0.1 0.55 0.074
*** Record 30
4 244
*** Record 33
3
1 10 1.45 0.36 0 0 0
0.0008560.000856 0
0.1 0.36 0.22 0.29 0
2 26 1.5 0.36 0 0 0
0.0008560.000856 0
2 0.36 0.22 0.29 0
3 64 1.6 0.317 0 0 0
0.0008560.000856 0
4 0.317 0.197 0.174 0
***Record 40
0
YEAR 10 YEAR 10 YEAR 10 1
1
1 -----
7 YEAR
PRCP TCUM 0 0
RUNF TCUM 0 0
INFL TCUM 1 1
ESLS TCUM 0 0 1.0E3
RFLX TCUM 0 0 1.0E5
EFLX TCUM 0 0 1.0E5
RZFX TCUM 0 0 1.0E5

```

EXAMS EXA FILE

```

set mode = 3
set outfil(1) to Y
set outfil(4) to Y
set outfil(2) to N
READ ENV C:\models\INPUTS\EXAMSEnv\pond298.exv
READ MET C:\models\INPUTS\Metfiles\w93193.dvf
SET YEAR1 = 1961
recall chem 1
chemical name is Prometryn
set MWT(1) = 241.35
set HENRY(1) = 9.1E-9
set VAPR(1) = 1.0E-6
set SOL(1,1) = 33
set KBACW(*,1,1) = 1.78278595823031e-005
set KOC(1) = 244
set QTBAS(*,1,1) = 2
set QTBAW(*,1,1) = 2
READ PRZM P2E-C1.D61
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
RUN

```

```

READ PRZM P2E-C1.D62
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D63
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D64
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D65
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D66
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D67
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D68
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D69
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D70
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D71
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D72

```



```

set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D73
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D74
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D75
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D76
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D77
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D78
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D79
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D80
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D81
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D82
set STFLO(1,*) = 0.0

```

```

set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D83
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D84
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D85
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D86
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D87
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D88
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D89
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D90
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
QUIT

```

PRZM/EXAMS OUTPUT

```

stored as cotton101.out
Chemical: Prometryn
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	18.13	17.95	17.31	8.666	5.778	1.425
1962	16.12	16.04	15.75	15.58	15.33	14.14
1963	19.71	19.65	19.47	19.19	18.99	17.75
1964	20.1	20.07	18.94	18.49	18.42	17.92
1965	26.2	25.63	24.55	20.53	19.73	19.2
1966	42.41	42.22	41.52	31.55	28.63	25.27
1967	40.41	40.3	39.85	39.19	38.78	36.67
1968	45.46	45.36	43.63	37.55	36.71	35.91
1969	44.66	44.57	44.43	44.01	43.7	41.73
1970	55.24	55.11	52.56	45.42	44.7	43.49
1971	54.57	54.46	54.05	53.33	52.92	50.5
1972	52.2	52.16	52.01	51.72	51.51	49.63
1973	55	54.92	52.68	50.2	50.06	48.7
1974	63.16	63.02	62.49	55.65	54.02	52.63
1975	62.19	62.11	61.78	61.3	60.95	58.45
1976	69.83	69.69	69.23	68.34	67.79	64.04
1977	80.06	79.88	74.68	66.38	66.14	64.35
1978	79.62	79.46	78.86	77.78	77.15	73.25
1979	73.37	73.33	73.16	72.85	72.6	69.8
1980	69.41	69.37	69.25	68.95	68.73	66.32
1981	68.88	68.82	68.6	68.16	67.87	65.04
1982	85.77	85.53	73.68	67.68	67.38	65.37
1983	88.07	87.93	87.29	86.12	85.42	81.16
1984	79.6	79.56	79.42	79.18	78.98	76
1985	77.33	77.28	77.11	76.76	76.5	73.69
1986	87.87	87.68	80.89	75.16	75	72.85
1987	88.05	87.95	87.36	86.34	85.7	81.48
1988	94.58	94.37	88.93	79.55	79.34	77.3
1989	93.73	93.56	92.99	91.88	91.21	86.65
1990	99.99	99.89	99.25	98.09	97.36	92.3

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129			99.99	99.89	99.25	98.09
0.0645161290322581			94.58	94.37	92.99	91.88
0.0967741935483871			93.73	93.56	88.93	86.34
0.129032258064516			88.07	87.95	87.36	86.12
0.161290322580645			88.05	87.93	87.29	79.55
0.193548387096774			87.87	87.68	80.89	79.18
0.225806451612903			85.77	85.53	79.42	77.78
0.258064516129032			80.06	79.88	78.86	76.76
0.290322580645161			79.62	79.56	77.11	75.16
0.32258064516129			79.6	79.46	74.68	72.85
0.354838709677419			77.33	77.28	73.68	68.95
0.387096774193548			73.37	73.33	73.16	68.34
0.419354838709677			69.83	69.69	69.25	68.16
0.451612903225806			69.41	69.37	69.23	67.68
0.483870967741936			68.88	68.82	68.6	66.38
0.516129032258065			63.16	63.02	62.49	61.3
0.548387096774194			62.19	62.11	61.78	55.65
0.580645161290323			55.24	55.11	54.05	53.33
0.612903225806452			55	54.92	52.68	51.72
0.645161290322581			54.57	54.46	52.56	50.2
0.67741935483871			52.2	52.16	52.01	45.42
0.709677419354839			45.46	45.36	44.43	44.01
0.741935483870968			44.66	44.57	43.63	39.19
0.774193548387097			42.41	42.22	41.52	37.55
0.806451612903226			40.41	40.3	39.85	31.55
0.838709677419355			26.2	25.63	24.55	20.53
0.870967741935484			20.1	20.07	19.47	19.19
0.903225806451613			19.71	19.65	18.94	18.49
0.935483870967742			18.13	17.95	17.31	15.58
0.967741935483871			16.12	16.04	15.75	8.666

0.1 93.164 92.999 88.773 86.318 85.672 81.448

Average of yearly averages: 54.1005

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:
Output File: cotton101
Metfile: w93193.dvf
PRZM scenario: CACotton_WirrigSTD.txt
EXAMS environment file: pond298.exv
Chemical Name: Prometryn
Description Variable Name Value Units Comments
Molecular weight mwt 241.35 g/mol
Henry's Law Const. henry 9.1E-9 atm-m³/mol
Vapor Pressure vap 1.0E-6 torr
Solubility sol 33 mg/L
Kd Kd mg/L
Koc Koc 244 mg/L
Photolysis half-life kdp days Half-life
Aerobic Aquatic Metabolism kbacw 1620 days Halfife
Anaerobic Aquatic Metabolism kbacs days Halfife
Aerobic Soil Metabolism asm 810 days Halfife
Hydrolysis: pH 7 days Half-life
Method: CAM 1 integer See PRZM manual
Incorporation Depth: DEPI 4 cm
Application Rate: TAPP 2.69 kg/ha
Application Efficiency: APPEFF 0.99 fraction
Spray Drift DRFT 0.01 fraction of application rate applied to pond
Application Date Date 1-12 dd/mm or dd/mm or dd-mm or dd-mm
Record 17: FILTRA
IPSCND 1
UPTKF
Record 18: PLVKRT
PLDKRT
FEXTRC 0.5
Flag for Index Res. Run IR EPA Pond
Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

Multiple Applications- Pre-plant (Ground Spray), Post plant (Ground Spray), Post Harvest (Ground Spray)

PRZM INPUT FILE

"CaCotton.xls - Created August 6, 2001"
"Fresno County, CA - MLRA 17, Metfile: W93193.dvf (old: Met17.met or Met18.met), (can use MLRA 18 metfile for Sacramento, CA),
*** Record 3:
0.73 0 0 17.5 1 1
*** Record 6 -- ERFLAG
4
*** Record 7:
0.21 0.37 1 10 1 2.5 356.8
*** Record 8
1
*** Record 9
1 0.2 65 100 1 89 86 89 0 122
*** Record 9a-e
1 25
0105 1605 0106 1606 0107 1607 0108 1608 0109 1609 0110 1610 0111 1611 0112 1612
.161 .085 .062 .062 .062 .054 .054 .054 .054 .054 .055 .091 .098 .108 .123 .137
.023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023
86 86 86 86 86 86 86 86 86 86 86 86 86 89 89 89
0101 1601 0102 1602 2502 0103 1603 0104 1604
.157 .175 .196 .351 .395 .412 .392 .337 .259
.023 .023 .023 .023 .023 .023 .023 .023 .023
89 89 89 89 89 89 89 89
*** Record 10 -- NCPDS, the number of cropping periods
30
*** Record 11
010561 200961 111161 1
010562 200962 111162 1
010563 200963 111163 1
010564 200964 111164 1

010565	200965	111165	1
010566	200966	111166	1
010567	200967	111167	1
010568	200968	111168	1
010569	200969	111169	1
010570	200970	111170	1
010571	200971	111171	1
010572	200972	111172	1
010573	200973	111173	1
010574	200974	111174	1
010575	200975	111175	1
010576	200976	111176	1
010577	200977	111177	1
010578	200978	111178	1
010579	200979	111179	1
010580	200980	111180	1
010581	200981	111181	1
010582	200982	111182	1
010583	200983	111183	1
010584	200984	111184	1
010585	200985	111185	1
010586	200986	111186	1
010587	200987	111187	1
010588	200988	111188	1
010589	200989	111189	1
010590	200990	111190	1

*** Record 12 -- PTTITLE
Prometryn - 3 applications @ 2.69 0.78 2.69 kg/ha

*** Record 13
90 1 0 0

*** Record 15 -- PSTNAM
Prometryn

*** Record 16

010461	0	1	10.2	2.69	.99	.01
310561	0	1	4.0	0.78	.99	.01
271161	0	1	4.0	2.69	.99	.01
010462	0	1	10.2	2.69	.99	.01
310562	0	1	4.0	0.78	.99	.01
271162	0	1	4.0	2.69	.99	.01
010463	0	1	10.2	2.69	.99	.01
310563	0	1	4.0	0.78	.99	.01
271163	0	1	4.0	2.69	.99	.01
010464	0	1	10.2	2.69	.99	.01
310564	0	1	4.0	0.78	.99	.01
271164	0	1	4.0	2.69	.99	.01
010465	0	1	10.2	2.69	.99	.01
310565	0	1	4.0	0.78	.99	.01
271165	0	1	4.0	2.69	.99	.01
010466	0	1	10.2	2.69	.99	.01
310566	0	1	4.0	0.78	.99	.01
271166	0	1	4.0	2.69	.99	.01
010467	0	1	10.2	2.69	.99	.01
310567	0	1	4.0	0.78	.99	.01
271167	0	1	4.0	2.69	.99	.01
010468	0	1	10.2	2.69	.99	.01
310568	0	1	4.0	0.78	.99	.01
271168	0	1	4.0	2.69	.99	.01
010469	0	1	10.2	2.69	.99	.01
310569	0	1	4.0	0.78	.99	.01
271169	0	1	4.0	2.69	.99	.01
010470	0	1	10.2	2.69	.99	.01
310570	0	1	4.0	0.78	.99	.01
271170	0	1	4.0	2.69	.99	.01
010471	0	1	10.2	2.69	.99	.01
310571	0	1	4.0	0.78	.99	.01
271171	0	1	4.0	2.69	.99	.01
010472	0	1	10.2	2.69	.99	.01
310572	0	1	4.0	0.78	.99	.01
271172	0	1	4.0	2.69	.99	.01
010473	0	1	10.2	2.69	.99	.01
310573	0	1	4.0	0.78	.99	.01

271173	0	1	4.0	2.69	.99	.01
010474	0	1	10.2	2.69	.99	.01
310574	0	1	4.0	0.78	.99	.01
271174	0	1	4.0	2.69	.99	.01
010475	0	1	10.2	2.69	.99	.01
310575	0	1	4.0	0.78	.99	.01
271175	0	1	4.0	2.69	.99	.01
010476	0	1	10.2	2.69	.99	.01
310576	0	1	4.0	0.78	.99	.01
271176	0	1	4.0	2.69	.99	.01
010477	0	1	10.2	2.69	.99	.01
310577	0	1	4.0	0.78	.99	.01
271177	0	1	4.0	2.69	.99	.01
010478	0	1	10.2	2.69	.99	.01
310578	0	1	4.0	0.78	.99	.01
271178	0	1	4.0	2.69	.99	.01
010479	0	1	10.2	2.69	.99	.01
310579	0	1	4.0	0.78	.99	.01
271179	0	1	4.0	2.69	.99	.01
010480	0	1	10.2	2.69	.99	.01
310580	0	1	4.0	0.78	.99	.01
271180	0	1	4.0	2.69	.99	.01
010481	0	1	10.2	2.69	.99	.01
310581	0	1	4.0	0.78	.99	.01
271181	0	1	4.0	2.69	.99	.01
010482	0	1	10.2	2.69	.99	.01
310582	0	1	4.0	0.78	.99	.01
271182	0	1	4.0	2.69	.99	.01
010483	0	1	10.2	2.69	.99	.01
310583	0	1	4.0	0.78	.99	.01
271183	0	1	4.0	2.69	.99	.01
010484	0	1	10.2	2.69	.99	.01
310584	0	1	4.0	0.78	.99	.01
271184	0	1	4.0	2.69	.99	.01
010485	0	1	10.2	2.69	.99	.01
310585	0	1	4.0	0.78	.99	.01
271185	0	1	4.0	2.69	.99	.01
010486	0	1	10.2	2.69	.99	.01
310586	0	1	4.0	0.78	.99	.01
271186	0	1	4.0	2.69	.99	.01
010487	0	1	10.2	2.69	.99	.01
310587	0	1	4.0	0.78	.99	.01
271187	0	1	4.0	2.69	.99	.01
010488	0	1	10.2	2.69	.99	.01
310588	0	1	4.0	0.78	.99	.01
271188	0	1	4.0	2.69	.99	.01
010489	0	1	10.2	2.69	.99	.01
310589	0	1	4.0	0.78	.99	.01
271189	0	1	4.0	2.69	.99	.01
010490	0	1	10.2	2.69	.99	.01
310590	0	1	4.0	0.78	.99	.01
271190	0	1	4.0	2.69	.99	.01
*** Record 17						
0	1	0				
*** Record 19 -- STITLE						
Twisselman Clay - Hydrg: C						
*** Record 20						
100	0	0	1	0	0	2
0	0	0				
*** Record 26						
0	0	0				
*** Record 27 -- irrigation						
4	0.1	0.55	0.074			
*** Record 30						
4	244					
*** Record 33						
3						
1	10	1.45	0.36	0	0	0
0.0008560.000856						
0.1	0.36	0.22	0.29	0		
2	26	1.5	0.36	0	0	0
0.0008560.000856						

	2	0.36	0.22	0.29	0	
3	64	1.6	0.317	0	0	0
	0.000856	0.000856	0			
	4	0.317	0.197	0.174	0	

***Record 40

0	YEAR	10	YEAR	10	YEAR	10	1
---	------	----	------	----	------	----	---

1

1 -----

7 YEAR

PRCP	TCUM	0	0
RUNF	TCUM	0	0
INFL	TCUM	1	1
ESLS	TCUM	0	0 1.0E3
RFLX	TCUM	0	0 1.0E5
EFLX	TCUM	0	0 1.0E5
RZFX	TCUM	0	0 1.0E5

EXAMS EXA FILE

```

set mode = 3
set outfil(1) to Y
set outfil(4) to Y
set outfil(2) to N
READ ENV C:\models\INPUTS\EXAMSen\pond298.exv
READ MET C:\models\INPUTS\Metfiles\w93193.dvf
SET YEAR1 = 1961
recall chem 1
chemical name is Prometryn
set MWT(1) = 241.35
set HENRY(1) = 9.1E-9
set VAPR(1) = 1.0E-6
set SOL(1,1) = 33
set KBACW(*,1,1) = 1.18852397215354e-005
set KOC(1) = 244
set QTBAS(*,1,1) = 2
set QTBAW(*,1,1) = 2
READ PRZM P2E-C1.D61
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
RUN
READ PRZM P2E-C1.D62
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D63
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D64
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D65
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0

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set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D66
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D67
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D68
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D69
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D70
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D71
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D72
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D73
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D74
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D75
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0

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```

set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D76
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D77
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D78
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D79
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D80
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D81
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D82
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D83
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D84
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D85
set STFLO(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0

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set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D86
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D87
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D88
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D89
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D90
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
QUIT

```

PRZM/EXAMS OUTPUT

cotton-ground-multiapplication

WATER COLUMN DISSOLVED CONCENTRATION (PPB)

YEAR	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
----	-----	-----	-----	-----	-----	-----
1961	17.530	17.400	16.890	10.170	7.880	3.459
1962	17.620	17.610	17.550	17.190	17.030	16.280
1963	38.080	37.920	37.670	37.020	36.860	31.700
1964	39.350	39.320	38.210	37.830	37.600	36.690
1965	48.730	48.160	47.090	43.220	42.420	41.030
1966	64.440	64.280	63.660	55.070	52.520	49.170
1967	68.250	68.190	68.000	67.420	67.310	65.090
1968	82.930	82.820	81.090	75.180	74.310	72.150
1969	100.000	99.930	99.060	97.570	97.260	91.230
1970	124.000	124.000	123.000	110.000	105.000	98.480
1971	132.000	132.000	131.000	130.000	130.000	125.000
1972	127.000	127.000	127.000	127.000	127.000	125.000
1973	129.000	129.000	127.000	125.000	125.000	124.000
1974	138.000	138.000	138.000	131.000	129.000	128.000
1975	137.000	137.000	137.000	136.000	136.000	134.000
1976	142.000	142.000	141.000	141.000	141.000	138.000
1977	154.000	154.000	148.000	140.000	139.000	138.000
1978	165.000	164.000	164.000	162.000	162.000	156.000
1979	158.000	158.000	158.000	157.000	157.000	154.000
1980	153.000	153.000	153.000	153.000	152.000	150.000

1981	156.000	156.000	156.000	155.000	155.000	151.000
1982	163.000	163.000	162.000	156.000	154.000	153.000
1983	164.000	164.000	163.000	163.000	163.000	160.000
1984	159.000	159.000	159.000	159.000	158.000	156.000
1985	159.000	159.000	159.000	155.000	155.000	153.000
1986	169.000	168.000	162.000	157.000	156.000	155.000
1987	169.000	169.000	168.000	167.000	166.000	163.000
1988	190.000	190.000	184.000	178.000	177.000	170.000
1989	189.000	189.000	188.000	187.000	187.000	183.000
1990	199.000	199.000	198.000	197.000	196.000	192.000

SORTED FOR PLOTTING

PROB	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
.032	199.000	199.000	198.000	197.000	196.000	192.000
.065	190.000	190.000	188.000	187.000	187.000	183.000
.097	189.000	189.000	184.000	178.000	177.000	170.000
.129	169.000	169.000	168.000	167.000	166.000	163.000
.161	169.000	168.000	164.000	163.000	163.000	160.000
.194	165.000	164.000	163.000	162.000	162.000	156.000
.226	164.000	164.000	162.000	159.000	158.000	156.000
.258	163.000	163.000	162.000	157.000	157.000	155.000
.290	159.000	159.000	159.000	157.000	156.000	154.000
.323	159.000	159.000	159.000	156.000	155.000	153.000
.355	158.000	158.000	158.000	155.000	155.000	153.000
.387	156.000	156.000	156.000	155.000	154.000	151.000
.419	154.000	154.000	153.000	153.000	152.000	150.000
.452	153.000	153.000	148.000	141.000	141.000	138.000
.484	142.000	142.000	141.000	140.000	139.000	138.000
.516	138.000	138.000	138.000	136.000	136.000	134.000
.548	137.000	137.000	137.000	131.000	130.000	128.000
.581	132.000	132.000	131.000	130.000	129.000	125.000
.613	129.000	129.000	127.000	127.000	127.000	125.000
.645	127.000	127.000	127.000	125.000	125.000	124.000
.677	124.000	124.000	123.000	110.000	105.000	98.480
.710	100.000	99.930	99.060	97.570	97.260	91.230
.742	82.930	82.820	81.090	75.180	74.310	72.150
.774	68.250	68.190	68.000	67.420	67.310	65.090
.806	64.440	64.280	63.660	55.070	52.520	49.170
.839	48.730	48.160	47.090	43.220	42.420	41.030
.871	39.350	39.320	38.210	37.830	37.600	36.690
.903	38.080	37.920	37.670	37.020	36.860	31.700
.935	17.620	17.610	17.550	17.190	17.030	16.280
.968	17.530	17.400	16.890	10.170	7.880	3.459
1/10	187.000	187.000	182.400	176.900	175.900	169.300

MEAN OF ANNUAL VALUES = 117.109

STANDARD DEVIATION OF ANNUAL VALUES = 53.098

UPPER 90% CONFIDENCE LIMIT ON MEAN = 131.505

Multiple Applications- Pre-plant (Aerial Spray), Post plant (Ground Spray), Post Harvest (Ground Spray)

PRZM INPUT FILE

"CaCotton.xls - Created August 6, 2001"

"Fresno County, CA - MLRA 17, Metfile: W93193.dvf (old: Met17.met or Met18.met), (can use MLRA 18 metfile for Sacramento, CA),

*** Record 3:

0.73 0 0 17.5 1 1

*** Record 6 -- ERFLAG

4

*** Record 7:

0.21 0.37 1 10 1 2.5 356.8

*** Record 8

1

*** Record 9

1 0.2 65 100 1 89 86 89 0 122

*** Record 9a-e

1 25

0105 1605 0106 1606 0107 1607 0108 1608 0109 1609 0110 1610 0111 1611 0112 1612

.161 .085 .062 .062 .062 .054 .054 .054 .054 .054 .055 .091 .098 .108 .123 .137

.023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023 .023

86 86 86 86 86 86 86 86 86 86 86 86 86 89 89 89

0101 1601 0102 1602 2502 0103 1603 0104 1604

.157 .175 .196 .351 .395 .412 .392 .337 .259

.023 .023 .023 .023 .023 .023 .023 .023 .023

89 89 89 89 89 89 89 89 89

*** Record 10 -- NCPDS, the number of cropping periods

30

*** Record 11

010561 200961 111161 1

010562 200962 111162 1

010563 200963 111163 1

010564 200964 111164 1

010565 200965 111165 1

010566 200966 111166 1

010567 200967 111167 1

010568 200968 111168 1

010569 200969 111169 1

010570 200970 111170 1

010571 200971 111171 1

010572 200972 111172 1

010573 200973 111173 1

010574 200974 111174 1

010575 200975 111175 1

010576 200976 111176 1

010577 200977 111177 1

010578 200978 111178 1

010579 200979 111179 1

010580 200980 111180 1

010581 200981 111181 1

010582 200982 111182 1

010583 200983 111183 1

010584 200984 111184 1

010585 200985 111185 1

010586 200986 111186 1

010587 200987 111187 1

010588 200988 111188 1

010589 200989 111189 1

010590 200990 111190 1

*** Record 12 -- PTITLE

Prometryn - 3 applications @ 2.69 0.78 2.69 kg/ha

*** Record 13

90 1 0 0

*** Record 15 -- PSTNAM

Prometryn

*** Record 16

010461 0 1 10.2 2.69 .95 .05

310561 0 1 4.0 0.78 .99 .01

271161 0 1 4.0 2.69 .99 .01

010462 0 1 10.2 2.69 .95 .05

310562	0	1	4.0	0.78	.99	.01
271162	0	1	4.0	2.69	.99	.01
010463	0	1	10.2	2.69	.95	.05
310563	0	1	4.0	0.78	.99	.01
271163	0	1	4.0	2.69	.99	.01
010464	0	1	10.2	2.69	.95	.05
310564	0	1	4.0	0.78	.99	.01
271164	0	1	4.0	2.69	.99	.01
010465	0	1	10.2	2.69	.95	.05
310565	0	1	4.0	0.78	.99	.01
271165	0	1	4.0	2.69	.99	.01
010466	0	1	10.2	2.69	.95	.05
310566	0	1	4.0	0.78	.99	.01
271166	0	1	4.0	2.69	.99	.01
010467	0	1	10.2	2.69	.95	.05
310567	0	1	4.0	0.78	.99	.01
271167	0	1	4.0	2.69	.99	.01
010468	0	1	10.2	2.69	.95	.05
310568	0	1	4.0	0.78	.99	.01
271168	0	1	4.0	2.69	.99	.01
010469	0	1	10.2	2.69	.95	.05
310569	0	1	4.0	0.78	.99	.01
271169	0	1	4.0	2.69	.99	.01
010470	0	1	10.2	2.69	.95	.05
310570	0	1	4.0	0.78	.99	.01
271170	0	1	4.0	2.69	.99	.01
010471	0	1	10.2	2.69	.95	.05
310571	0	1	4.0	0.78	.99	.01
271171	0	1	4.0	2.69	.99	.01
010472	0	1	10.2	2.69	.95	.05
310572	0	1	4.0	0.78	.99	.01
271172	0	1	4.0	2.69	.99	.01
010473	0	1	10.2	2.69	.95	.05
310573	0	1	4.0	0.78	.99	.01
271173	0	1	4.0	2.69	.99	.01
010474	0	1	10.2	2.69	.95	.05
310574	0	1	4.0	0.78	.99	.01
271174	0	1	4.0	2.69	.99	.01
010475	0	1	10.2	2.69	.95	.05
310575	0	1	4.0	0.78	.99	.01
271175	0	1	4.0	2.69	.99	.01
010476	0	1	10.2	2.69	.95	.05
310576	0	1	4.0	0.78	.99	.01
271176	0	1	4.0	2.69	.99	.01
010477	0	1	10.2	2.69	.95	.05
310577	0	1	4.0	0.78	.99	.01
271177	0	1	4.0	2.69	.99	.01
010478	0	1	10.2	2.69	.95	.05
310578	0	1	4.0	0.78	.99	.01
271178	0	1	4.0	2.69	.99	.01
010479	0	1	10.2	2.69	.95	.05
310579	0	1	4.0	0.78	.99	.01
271179	0	1	4.0	2.69	.99	.01
010480	0	1	10.2	2.69	.95	.05
310580	0	1	4.0	0.78	.99	.01
271180	0	1	4.0	2.69	.99	.01
010481	0	1	10.2	2.69	.95	.05
310581	0	1	4.0	0.78	.99	.01
271181	0	1	4.0	2.69	.99	.01
010482	0	1	10.2	2.69	.95	.05
310582	0	1	4.0	0.78	.99	.01
271182	0	1	4.0	2.69	.99	.01
010483	0	1	10.2	2.69	.95	.05
310583	0	1	4.0	0.78	.99	.01
271183	0	1	4.0	2.69	.99	.01
010484	0	1	10.2	2.69	.95	.05
310584	0	1	4.0	0.78	.99	.01
271184	0	1	4.0	2.69	.99	.01
010485	0	1	10.2	2.69	.95	.05
310585	0	1	4.0	0.78	.99	.01
271185	0	1	4.0	2.69	.99	.01

```

010486 0 1 10.2 2.69 .95 .05
310586 0 1 4.0 0.78 .99 .01
271186 0 1 4.0 2.69 .99 .01
010487 0 1 10.2 2.69 .95 .05
310587 0 1 4.0 0.78 .99 .01
271187 0 1 4.0 2.69 .99 .01
010488 0 1 10.2 2.69 .95 .05
310588 0 1 4.0 0.78 .99 .01
271188 0 1 4.0 2.69 .99 .01
010489 0 1 10.2 2.69 .95 .05
310589 0 1 4.0 0.78 .99 .01
271189 0 1 4.0 2.69 .99 .01
010490 0 1 10.2 2.69 .95 .05
310590 0 1 4.0 0.78 .99 .01
271190 0 1 4.0 2.69 .99 .01
*** Record 17
0 1 0
*** Record 19 -- STITLE
Twisselman Clay - Hydg: C
*** Record 20
100 0 0 1 0 0 2 0 0 0
*** Record 26
0 0 0
*** Record 27 -- irrigation
4 0.1 0.55 0.074
*** Record 30
4 244
*** Record 33
3
1 10 1.45 0.36 0 0 0
0.0008560.000856 0
0.1 0.36 0.22 0.29 0
2 26 1.5 0.36 0 0 0
0.0008560.000856 0
2 0.36 0.22 0.29 0
3 64 1.6 0.317 0 0 0
0.0008560.000856 0
4 0.317 0.197 0.174 0
***Record 40
0
YEAR 10 YEAR 10 YEAR 10 1
1
1 -----
7 YEAR
PRCP TCUM 0 0
RUNF TCUM 0 0
INFL TCUM 1 1
ESLS TCUM 0 0 1.0E3
RFLX TCUM 0 0 1.0E5
EFLX TCUM 0 0 1.0E5
RZFX TCUM 0 0 1.0E5

```

EXAMS EXA FILE

```

set mode = 3
set outfil(1) to Y
set outfil(4) to Y
set outfil(2) to N
READ ENV C:\models\INPUTS\EXAMSenv\pond298.exv
READ MET C:\models\INPUTS\Metfiles\w93193.dvf
SET YEAR1 = 1961
recall chem 1
chemical name is Prometryn
set MWT(1) = 241.35
set HENRY(1) = 9.1E-9
set VAPR(1) = 1.0E-6
set SOL(1,1) = 33
set KBACW(*,1,1) = 1.18852397215354e-005
set KOC(1) = 244

```

```

set QTBAS(*,1,1) = 2
set QTBAS(*,1,1) = 2
READ PRZM P2E-C1.D61
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
RUN
READ PRZM P2E-C1.D62
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D63
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D64
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D65
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D66
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D67
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D68
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D69
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D70
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0

```

```

CONTINUE
READ PRZM P2E-C1.D71
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D72
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D73
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D74
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D75
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D76
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D77
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D78
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D79
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D80
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE

```



```

READ PRZM P2E-C1.D81
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D82
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D83
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D84
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D85
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D86
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D87
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D88
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D89
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
READ PRZM P2E-C1.D90
set STFL0(1,*) = 0.0
set EVAP(*,*) = 0.0
set NPSFL(*,*)=0.0
set NPSED(*,*)=0.0
set RAIN(*) = 0.0
CONTINUE
QUIT

```

PRZM/EXAMS OUTPUT

cotton-multiapps-air

WATER COLUMN DISSOLVED CONCENTRATION (PPB)

YEAR	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
----	----	-----	-----	-----	-----	-----
1961	21.320	21.190	20.680	13.970	11.680	6.561
1962	25.610	25.580	25.420	25.060	24.820	23.080
1963	49.840	49.640	49.240	48.330	48.030	41.640
1964	52.950	52.910	52.560	52.110	51.890	49.870
1965	65.380	64.810	63.750	59.890	59.390	57.350
1966	83.980	83.820	83.180	74.620	72.100	68.460
1967	91.810	91.720	91.360	90.800	90.810	87.030
1968	107.000	107.000	106.000	100.000	100.000	96.520
1969	129.000	129.000	128.000	126.000	125.000	118.000
1970	153.000	152.000	151.000	138.000	133.000	127.000
1971	165.000	165.000	164.000	163.000	162.000	155.000
1972	163.000	163.000	162.000	161.000	161.000	158.000
1973	164.000	164.000	163.000	162.000	162.000	159.000
1974	175.000	175.000	174.000	168.000	168.000	165.000
1975	178.000	178.000	177.000	176.000	176.000	173.000
1976	185.000	184.000	184.000	183.000	183.000	179.000
1977	196.000	195.000	190.000	184.000	184.000	181.000
1978	211.000	210.000	209.000	208.000	207.000	199.000
1979	205.000	205.000	204.000	203.000	203.000	199.000
1980	202.000	202.000	201.000	200.000	200.000	196.000
1981	206.000	206.000	205.000	204.000	203.000	198.000
1982	211.000	211.000	210.000	204.000	204.000	201.000
1983	215.000	215.000	214.000	214.000	213.000	209.000
1984	212.000	212.000	212.000	210.000	210.000	206.000
1985	209.000	209.000	209.000	207.000	207.000	204.000
1986	220.000	219.000	213.000	210.000	209.000	206.000
1987	222.000	221.000	221.000	220.000	220.000	216.000
1988	242.000	242.000	237.000	233.000	232.000	223.000
1989	243.000	243.000	242.000	241.000	241.000	237.000
1990	256.000	256.000	255.000	253.000	252.000	246.000

SORTED FOR PLOTTING

PROB	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
----	----	-----	-----	-----	-----	-----
.032	256.000	256.000	255.000	253.000	252.000	246.000
.065	243.000	243.000	242.000	241.000	241.000	237.000
.097	242.000	242.000	237.000	233.000	232.000	223.000
.129	222.000	221.000	221.000	220.000	220.000	216.000
.161	220.000	219.000	214.000	214.000	213.000	209.000
.194	215.000	215.000	213.000	210.000	210.000	206.000
.226	212.000	212.000	212.000	210.000	209.000	206.000
.258	211.000	211.000	210.000	208.000	207.000	204.000
.290	211.000	210.000	209.000	207.000	207.000	201.000
.323	209.000	209.000	209.000	204.000	204.000	199.000
.355	206.000	206.000	205.000	204.000	203.000	199.000
.387	205.000	205.000	204.000	203.000	203.000	198.000
.419	202.000	202.000	201.000	200.000	200.000	196.000
.452	196.000	195.000	190.000	184.000	184.000	181.000
.484	185.000	184.000	184.000	183.000	183.000	179.000
.516	178.000	178.000	177.000	176.000	176.000	173.000
.548	175.000	175.000	174.000	168.000	168.000	165.000
.581	165.000	165.000	164.000	163.000	162.000	159.000
.613	164.000	164.000	163.000	162.000	162.000	158.000
.645	163.000	163.000	162.000	161.000	161.000	155.000

.677	153.000	152.000	151.000	138.000	133.000	127.000
.710	129.000	129.000	128.000	126.000	125.000	118.000
.742	107.000	107.000	106.000	100.000	100.000	96.520
.774	91.810	91.720	91.360	90.800	90.810	87.030
.806	83.980	83.820	83.180	74.620	72.100	68.460
.839	65.380	64.810	63.750	59.890	59.390	57.350
.871	52.950	52.910	52.560	52.110	51.890	49.870
.903	49.840	49.640	49.240	48.330	48.030	41.640
.935	25.610	25.580	25.420	25.060	24.820	23.080
.968	21.320	21.190	20.680	13.970	11.680	6.561
1/10	240.000	239.900	235.400	231.700	230.800	222.300

MEAN OF ANNUAL VALUES = 152.850

STANDARD DEVIATION OF ANNUAL VALUES = 68.357

UPPER 90% CONFIDENCE LIMIT ON MEAN = 171.383

AGDISP FILE (Gauassin Extension)

AGDISP_userdata

5
3
0
0
1
Untitled
1

3
20
0
4.137
0
1
20
0
4

ASAE Fine to Medium

40
31
10.77 0.001
16.73 0.000333
19.39 0.000667
22.49 0.000333
26.05 0.000667
30.21 0.001
35.01 0.001
40.57 0.002
47.03 0.003333
54.5 0.005333
63.16 0.006667
73.23 0.009
84.85 0.013333
98.12 0.022333
113.71 0.033
131.73 0.039333
152.79 0.048
177.84 0.064667
205.84 0.083
238.45 0.114667
276.48 0.128333
320.6 0.138
372.18 0.112667
430.74 0.064

498.91 0.044
 578.54 0.031667
 670.72 0.020333
 777.39 0.009333
 900.61 0.001
 1044.42 0.000667
 1210.66 0.000334
 0
 0
 4
 ASAE Fine to Medium
 40
 31
 10.77 0.001
 16.73 0.000333
 19.39 0.000667
 22.49 0.000333
 26.05 0.000667
 30.21 0.001
 35.01 0.001
 40.57 0.002
 47.03 0.003333
 54.5 0.005333
 63.16 0.006667
 73.23 0.009
 84.85 0.013333
 98.12 0.022333
 113.71 0.033
 131.73 0.039333
 152.79 0.048
 177.84 0.064667
 205.84 0.083
 238.45 0.114667
 276.48 0.128333
 320.6 0.138
 372.18 0.112667
 430.74 0.064
 498.91 0.044
 578.54 0.031667
 670.72 0.020333
 777.39 0.009333
 900.61 0.001
 1044.42 0.000667
 1210.66 0.000334
 0
 0
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777.39 0.009333
900.61 0.001
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 Air Tractor AT-401
 18
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 53.64
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 2720.471
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 -0.254
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 0 -4.1475 0 0
 0 -3.9105 0 0
 0 -3.6735 0 0
 0 -3.4365 0 0
 0 -3.1995 0 0
 0 -2.9625 0 0
 0 -2.7255 0 0
 0 -2.4885 0 0
 0 -2.2515 0 0
 0 -2.0145 0 0
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 8.13
 04-30-2009
 16:03:55
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 56
 04-30-2009 16:03:54 Checking data
 Air Tractor AT-401
 Semispan (ft) 24.5
 Boom Height (ft) 100
 Boom Vertical Position (ft) -1.15
 Boom Forward Position (ft) -0.8333
 Wing Vertical Position (ft) 1.51
 Flying Speed (mph) 120
 Weight (lb) 5999.96
 Aircraft Drag Coefficient 0.1
 Propeller Efficiency 0.8
 Planform Area (ft²) 294
 Propeller RPM 2000
 Propeller Radius (ft) 4.5
 Engine Vertical Position (ft) -1.2
 Engine Forward Position (ft) 11.9
 Engine Horizontal Position (ft) 0
 Maximum Computation Time (s) 600
 Vortex Decay Rate OGE (m/s) 0.15
 Vortex Decay Rate IGE (m/s) 0.56
 Surface Roughness (ft) 0.0246
 Wind Speed Height (ft) 6.56
 Wind Direction (deg) -90
 Wind Speed (mph) 5
 Overcast Cloud Cover
 Number of Nozzles 42
 Spray Volume Rate (gal/ac) 2
 Specific Gravity of Carrier 1
 Specific Gravity of Nonvolatile 1
 Evaporation Rate (mm/sec-deg C) 84.76
 Left Nozzle Horizontal Position (ft) -15.94
 Right Nozzle Horizontal Position (ft) 15.94
 Minimum Nozzle Vertical Position (ft) -4.55
 Maximum Nozzle Vertical Position (ft) 0
 Minimum Nozzle Forward Position (ft) 0
 Maximum Nozzle Forward Position (ft) 0
 Number of Drop Sizes 31
 Smallest Drop Diameter (mm) 10.77
 Largest Drop Diameter (mm) 1210.66
 Nonvolatile Fraction 0.03
 Active Fraction 0.015
 Ambient Pressure (mb) 1013
 Temperature (deg F) 65
 Relative Humidity (%) 50
 Apparent Surface Height (ft) 70
 Number of Spray Lines 20
 Swath Width (ft) 60
 Swath Displacement (ft) 0
 Maximum Downwind Distance (ft) 2608.24
 Transport Distance (ft) 0
 Canopy Height (ft) 70
 Canopy Roughness (ft) 9.8
 Canopy Displacement (ft) 49
 04-30-2009 16:03:55 Calculations starting
 04-30-2009 16:04:01 Calculations complete

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