Appendix A. PRZM-EXAMS Water Modeling Results

1) Alfalfa and Clover by Aerial Application

```
stored as alfalfa clover.out
Chemical: oxydemeton-methyl
PRZM environment: CAalfalfa_NirrigOP.txt  modified Tueday, 8 June 2004
at 08:02:02
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w93193.dvf     modified Wedday, 3 July 2002 at 09:04:24
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  2.316 2.176 1.712 1.192 0.8934      0.236
1962  2.537 2.388 2.065 1.415 1.06  0.2764
1963  5.607 5.272 4.361 2.832 2.184 0.5655
1964  2.312 2.177 1.713 1.2   0.8978      0.2347
1965  6.823 6.397 5.28  3.315 2.495 0.6412
1966  2.278 2.133 1.635 1.122 0.8209      0.2216
1967  3.157 2.965 2.369 1.702 1.302 0.3415
1968  2.831 2.687 2.175 1.536 1.16  0.3103
1969  2.565 2.413 1.885 1.579 1.225 0.3182
1970  8.077 7.633 6.427 4.194 3.06  0.8063
1971  2.524 2.371 1.841 1.492 1.254 0.3505
1972  2.247 2.093 1.577 1.096 0.8089      0.2297
1973  3.855 3.633 2.843 1.9   1.435 0.371
1974  2.506 2.365 2.109 1.591 1.21  0.315
1975  2.385 2.246 1.763 1.255 0.9427      0.2459
1976  2.389 2.248 1.758 1.25  0.9319      0.249
1977  3.379 3.178 2.536 1.623 1.215 0.3134
1978  2.646 2.466 2.1   1.666 1.274 0.3299
1979  2.618 2.45  1.903 1.374 1.01  0.2564
1980  2.797 2.626 2.037 1.471 1.087 0.2767
1981  3.319 3.115 2.511 1.709 1.276 0.3253
1982  4.205 4.006 3.194 2.063 1.562 0.4005
1983  6.232 5.753 4.935 3.385 2.487 0.6303
1984  2.265 2.115 1.607 1.117 0.8199      0.2119
1985  2.323 2.184 1.698 1.159 0.8472      0.2227
1986  7.513 6.998 5.272 3.076 2.297 0.5867
1987  4.123 3.865 3.4   2.404 1.786 0.4631
1988  2.277 2.13  1.737 1.475 1.267 0.335
1989  4.886 4.566 3.778 2.929 2.176 0.5553
1990  2.288 2.14  1.636 1.185 0.9563      0.2634

Sorted results
Prob. Peak  96 hr 21 Day      60 Day      90 Day      Yearly
0.032258064516129 8.077 7.633 6.427 4.194 3.06  0.8063
0.0645161290322581      7.513 6.998 5.28  3.385 2.495 0.6412
0.0967741935483871      6.823 6.397 5.272 3.315 2.487 0.6303
0.129032258064516 6.232 5.753 4.935 3.076 2.297 0.5867
0.161290322580645 5.607 5.272 4.361 2.929 2.184 0.5655
0.193548387096774 4.886 4.566 3.778 2.832 2.176 0.5553
0.225806451612903 4.205 4.006 3.4   2.404 1.786 0.4631
0.258064516129032 4.123 3.865 3.194 2.063 1.562 0.4005
0.290322580645161 3.855 3.633 2.843 1.9   1.435 0.371
```

```
0.32258064516129  3.379 3.178 2.536 1.709 1.302 0.3505
0.354838709677419 3.319 3.115 2.511 1.702 1.276 0.3415
0.387096774193548 3.157 2.965 2.369 1.666 1.274 0.335
0.419354838709677 2.831 2.687 2.175 1.623 1.267 0.3299
0.451612903225806 2.797 2.626 2.109 1.591 1.254 0.3253
0.483870967741936 2.646 2.466 2.1   1.579 1.225 0.3182
0.516129032258065 2.618 2.45  2.065 1.536 1.215 0.315
0.548387096774194 2.565 2.413 2.037 1.492 1.21  0.3134
0.580645161290323 2.537 2.388 1.903 1.475 1.16  0.3103
0.612903225806452 2.524 2.371 1.885 1.471 1.087 0.2767
0.645161290322581 2.506 2.365 1.841 1.415 1.06  0.2764
0.67741935483871  2.389 2.248 1.763 1.374 1.01  0.2634
0.709677419354839 2.385 2.246 1.758 1.255 0.9563      0.2564
0.741935483870968 2.323 2.184 1.737 1.25  0.9427      0.249
0.774193548387097 2.316 2.177 1.713 1.2   0.9319      0.2459
0.806451612903226 2.312 2.176 1.712 1.192 0.8978      0.236
0.838709677419355 2.288 2.14  1.698 1.185 0.8934      0.2347
0.870967741935484 2.278 2.133 1.636 1.159 0.8472      0.2297
0.903225806451613 2.277 2.13  1.635 1.122 0.8209      0.2227
0.935483870967742 2.265 2.115 1.607 1.117 0.8199      0.2216
0.967741935483871 2.247 2.093 1.577 1.096 0.8089      0.2119

0.1   6.7639      6.3326      5.2383      3.2911      2.468 0.62594
                              Average of yearly averages:   0.36278

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

Data used for this run:
Output File: alfalfa clover
Metfile:    w93193.dvf
PRZM scenario:    CAalfalfa_NirrigOP.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    14    days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
```

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

2) Alfalfa and Clover by Ground Application

```
stored as alfalfa clover G.out
Chemical: oxydemeton-methyl
PRZM environment: CAalfalfa_NirrigOP.txt  modified Tueday, 8 June 2004
at 08:02:02
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w93193.dvf     modified Wedday, 3 July 2002 at 09:04:24
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  0.4757      0.447 0.3684      0.2587      0.1982      0.05913
1962  1.072 1.009 0.7756      0.4858      0.3733      0.1017
1963  3.961 3.68  3.125 2.068 1.508 0.3913
1964  0.4625      0.4354      0.3498      0.2452      0.1838
      0.05281
1965  5.407 5.139 4.141 2.607 1.882 0.484
1966  0.4558      0.4267      0.3271      0.2245      0.1643
      0.0561
1967  1.357 1.274 1.077 0.7886      0.5992      0.1622
1968  1.089 1.021 0.8798      0.6431      0.4936      0.1423
1969  1.357 1.266 0.959 0.6777      0.5355      0.143
1970  7.242 6.853 5.495 3.39  2.459 0.655
1971  1.482 1.384 1.049 0.6651      0.5668      0.1756
1972  0.4499      0.4191      0.3158      0.2197      0.162 0.06721
1973  2.335 2.201 1.716 1.013 0.7492      0.1978
1974  1.357 1.289 0.9934      0.6923      0.5405      0.1454
1975  0.5353      0.5041      0.3957      0.2845      0.2135
      0.05992
1976  0.5452      0.513 0.4011      0.2951      0.2193      0.06825
1977  1.638 1.54  1.239 0.721 0.5449      0.1433
1978  1.436 1.34  1.066 0.8124      0.6346      0.1679
1979  0.8135      0.7612      0.6563      0.4812      0.353 0.09011
1980  0.9807      0.921 0.8272      0.5543      0.4067      0.1039
1981  1.76  1.652 1.272 0.8102      0.6147      0.1583
1982  2.493 2.396 1.927 1.179 0.8756      0.2256
1983  5.315 4.98  4.017 2.601 1.901 0.4811
1984  0.4574      0.4271      0.3245      0.2252      0.1653
      0.04745
1985  0.4834      0.4552      0.3553      0.2421      0.1771
      0.05399
1986  5.936 5.53  4.165 2.389 1.719 0.441
1987  2.716 2.545 2.277 1.573 1.169 0.3079
1988  1.796 1.674 1.346 0.7849      0.619 0.1702
1989  3.737 3.492 2.597 2.134 1.589 0.4071
1990  0.7296      0.6738      0.488 0.3451      0.3227      0.09992

Sorted results
```

```
Prob. Peak  96 hr 21 Day      60 Day      90 Day      Yearly
0.032258064516129 7.242 6.853 5.495 3.39  2.459 0.655
0.0645161290322581      5.936 5.53  4.165 2.607 1.901 0.484
0.0967741935483871      5.407 5.139 4.141 2.601 1.882 0.4811
0.129032258064516 5.315 4.98  4.017 2.389 1.719 0.441
0.161290322580645 3.961 3.68  3.125 2.134 1.589 0.4071
0.193548387096774 3.737 3.492 2.597 2.068 1.508 0.3913
0.225806451612903 2.716 2.545 2.277 1.573 1.169 0.3079
0.258064516129032 2.493 2.396 1.927 1.179 0.8756      0.2256
0.290322580645161 2.335 2.201 1.716 1.013 0.7492      0.1978
0.32258064516129  1.796 1.674 1.346 0.8124      0.6346      0.1756
0.354838709677419 1.76  1.652 1.272 0.8102      0.619 0.1702
0.387096774193548 1.638 1.54  1.239 0.7886      0.6147      0.1679
0.419354838709677 1.482 1.384 1.077 0.7849      0.5992      0.1622
0.451612903225806 1.436 1.34  1.066 0.721 0.5668      0.1583
0.483870967741936 1.357 1.289 1.049 0.6923      0.5449      0.1454
0.516129032258065 1.357 1.274 0.9934      0.6777      0.5405
      0.1433
0.548387096774194 1.357 1.266 0.959 0.6651      0.5355      0.143
0.580645161290323 1.089 1.021 0.8798      0.6431      0.4936
      0.1423
0.612903225806452 1.072 1.009 0.8272      0.5543      0.4067
      0.1039
0.645161290322581 0.9807      0.921 0.7756      0.4858      0.3733
      0.1017
0.67741935483871  0.8135      0.7612      0.6563      0.4812      0.353
      0.09992
0.709677419354839 0.7296      0.6738      0.488 0.3451      0.3227
      0.09011
0.741935483870968 0.5452      0.513 0.4011      0.2951      0.2193
      0.06825
0.774193548387097 0.5353      0.5041      0.3957      0.2845
      0.2135      0.06721
0.806451612903226 0.4834      0.4552      0.3684      0.2587
      0.1982      0.05992
0.838709677419355 0.4757      0.447 0.3553      0.2452      0.1838
      0.05913
0.870967741935484 0.4625      0.4354      0.3498      0.2421
      0.1771      0.0561
0.903225806451613 0.4574      0.4271      0.3271      0.2252
      0.1653      0.05399
0.935483870967742 0.4558      0.4267      0.3245      0.2245
      0.1643      0.05281
0.967741935483871 0.4499      0.4191      0.3158      0.2197      0.162
      0.04745

0.1   5.3978      5.1231      4.1286      2.5798      1.8657
      0.47709
                            Average of yearly averages:
      0.195316333333333

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

Data used for this run:
Output File: alfalfa clover G
Metfile:    w93193.dvf
PRZM scenario:    CAalfalfa_NirrigOP.txt
```

```
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    14    days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

3) Walnuts, Ground Application (Almond scenario)

```
stored as walnuts G.out
Chemical: oxydemeton-methyl
PRZM environment: CAalmond_NirrigC.txt    modified Thuday, 17 June 2004
at 08:13:20
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23232.dvf     modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  0.2828      0.266 0.2078      0.1517      0.1131      0.029
1962  0.2697      0.2542      0.2088      0.1325      0.09688
      0.02485
1963  0.3141      0.3023      0.2672      0.2032      0.1586
      0.04152
1964  0.21  0.1977      0.155 0.09506     0.06948     0.01772
1965  0.21  0.1975      0.1544      0.09814     0.07281     0.01876
1966  0.21  0.1973      0.1535      0.09259     0.06702     0.01719
1967  0.2285      0.2153      0.1968      0.1441      0.1086
      0.02804
1968  0.5   0.4693      0.4006      0.2578      0.1908      0.04872
1969  0.21  0.1976      0.1546      0.1329      0.1064      0.02797
```

1970 0.3195 0.2997 0.2476 0.1522 0.111 0.02824
1971 0.5459 0.5136 0.4038 0.262 0.1982 0.0513
1972 0.21 0.1963 0.1499 0.08943 0.0651 0.01652
1973 0.2726 0.2567 0.2097 0.137 0.09996 0.02538
1974 0.816 0.7666 0.6 0.3666 0.2681 0.06858
1975 0.2339 0.2206 0.1952 0.1442 0.1079 0.02765
1976 0.21 0.1995 0.1557 0.1041 0.07865 0.02012
1977 0.2309 0.2175 0.181 0.1336 0.09967 0.02569
1978 0.4198 0.3929 0.3057 0.1918 0.1404 0.03581
1979 0.5147 0.4834 0.384 0.2529 0.1922 0.04955
1980 0.445 0.4218 0.3362 0.2118 0.1551 0.03961
1981 0.6986 0.6709 0.6133 0.4224 0.3152 0.0808
1982 2.599 2.501 1.98 1.229 0.9008 0.2309
1983 0.5639 0.5299 0.4436 0.285 0.21 0.05378
1984 0.2402 0.2246 0.1872 0.1304 0.09587 0.02433
1985 0.21 0.1979 0.1572 0.0999 0.07303 0.0186
1986 0.6493 0.6173 0.4932 0.3042 0.2244 0.0574
1987 3.287 3.087 2.399 1.435 1.036 0.2634
1988 0.3061 0.2853 0.2151 0.1298 0.1282 0.03555
1989 0.2615 0.2452 0.2036 0.1246 0.09019 0.02292
1990 0.21 0.1971 0.1527 0.09226 0.06989 0.02172

Sorted results

Prob. Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	3.287	3.087	2.399	1.435	1.036	0.2634
0.0645161290322581	2.599	2.501	1.98	1.229	0.9008	0.2309
0.0967741935483871	0.816	0.7666	0.6133	0.4224	0.3152	0.0808
0.129032258064516	0.6986	0.6709	0.6	0.3666	0.2681	0.06858
0.161290322580645	0.6493	0.6173	0.4932	0.3042	0.2244	0.0574
0.193548387096774	0.5639	0.5299	0.4436	0.285	0.21	0.05378
0.225806451612903	0.5459	0.5136	0.4038	0.262	0.1982	0.0513
0.258064516129032	0.5147	0.4834	0.4006	0.2578	0.1922	0.04955
0.290322580645161	0.5	0.4693	0.384	0.2529	0.1908	0.04872
0.32258064516129	0.445	0.4218	0.3362	0.2118	0.1586	0.04152
0.354838709677419	0.4198	0.3929	0.3057	0.2032	0.1551	0.03961
0.387096774193548	0.3195	0.3023	0.2672	0.1918	0.1404	0.03581
0.419354838709677	0.3141	0.2997	0.2476	0.1522	0.1282	0.03555
0.451612903225806	0.3061	0.2853	0.2151	0.1517	0.1131	0.029

```
0.483870967741936 0.2828      0.266 0.2097      0.1442      0.111
      0.02824
0.516129032258065 0.2726      0.2567      0.2088      0.1441
      0.1086      0.02804
0.548387096774194 0.2697      0.2542      0.2078      0.137 0.1079
      0.02797
0.580645161290323 0.2615      0.2452      0.2036      0.1336
      0.1064      0.02765
0.612903225806452 0.2402      0.2246      0.1968      0.1329
      0.09996     0.02569
0.645161290322581 0.2339      0.2206      0.1952      0.1325
      0.09967     0.02538
0.67741935483871  0.2309      0.2175      0.1872      0.1304
      0.09688     0.02485
0.709677419354839 0.2285      0.2153      0.181 0.1298      0.09587
      0.02433
0.741935483870968 0.21  0.1995      0.1572      0.1246      0.09019
      0.02292
0.774193548387097 0.21  0.1979      0.1557      0.1041      0.07865
      0.02172
0.806451612903226 0.21  0.1977      0.155 0.0999      0.07303
      0.02012
0.838709677419355 0.21  0.1976      0.1546      0.09814     0.07281
      0.01876
0.870967741935484 0.21  0.1975      0.1544      0.09506     0.06989
      0.0186
0.903225806451613 0.21  0.1973      0.1535      0.09259     0.06948
      0.01772
0.935483870967742 0.21  0.1971      0.1527      0.09226     0.06702
      0.01719
0.967741935483871 0.21  0.1963      0.1499      0.08943     0.0651
      0.01652

0.1   0.80426     0.75703     0.61197     0.41682     0.31049
      0.079578
                            Average of yearly averages:
      0.0483873333333333

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

Data used for this run:
Output File: walnuts G
Metfile:    w23232.dvf
PRZM scenario:    CAalmond_NirrigC.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
```

```
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.42  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

4) Broccoli and Cauliflower, aerial applicatiom

```
stored as broccoli cauliflower.out
Chemical: oxydemeton-methyl
PRZM environment: CAColeCrop no_irrig.txt modified Monday, 16 April
2007 at 08:58:22
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23234.dvf     modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  7.998 7.512 5.842 3.667 2.783 0.7364
1962  20.84 19.44 15.59 9.781 7.273 1.928
1963  10    9.379 7.648 4.863 3.674 0.9793
1964  2.53  2.381 1.866 1.295 0.9903      0.2623
1965  3.471 3.272 2.624 1.748 1.316 0.3474
1966  6.323 5.966 5.209 3.585 2.69  0.7059
1967  2.531 2.383 1.87  1.663 1.385 0.3825
1968  6.139 5.766 4.497 3.044 2.37  0.6352
1969  19    18.05 15.31 10.07 7.596 2.011
1970  5.407 5.144 4.2   2.852 2.208 0.5881
1971  9.634 9.066 7.107 4.399 3.481 1.013
1972  3.009 2.833 2.225 1.481 1.111 0.291
1973  12.31 11.71 9.586 6.196 4.662 1.231
1974  7.581 7.176 5.612 3.765 3.016 0.8323
1975  6.707 6.36  5.19  3.402 2.585 0.6845
1976  9.168 8.641 7.103 4.461 3.549 0.9883
1977  2.526 2.376 1.939 1.418 1.109 0.2975
1978  15.96 15.01 12.39 7.64  5.665 1.487
1979  29.59 27.88 22.17 13.7  10.14 2.678
1980  9.422 9.055 7.321 4.655 3.547 0.9466
1981  3.961 3.721 2.929 2.107 1.622 0.4301
1982  16.02 15.08 11.91 7.5   5.654 1.518
1983  5.916 5.558 4.927 3.452 2.637 0.6987
1984  3.395 3.192 2.592 1.775 1.357 0.357
1985  21.6  20.35 15.98 10.01 7.425 1.954
1986  10.43 10.18 8.075 5.026 3.826 1.015
1987  23.1  21.96 17.38 10.64 7.945 2.095
```

1988 2.521 2.367 1.84 1.219 0.9373   0.2572
1989 5.651 5.337 4.239 2.799 2.124 0.5576
1990 10.59 9.993 7.893 5.027 3.871 1.03

Sorted results

Prob. Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	29.59	27.88	22.17	13.7	10.14	2.678
0.0645161290322581		23.1	21.96	17.38	10.64	7.945 2.095
0.0967741935483871		21.6	20.35	15.98	10.07	7.596 2.011
0.129032258064516	20.84	19.44	15.59	10.01	7.425	1.954
0.161290322580645	19	18.05	15.31	9.781	7.273	1.928
0.193548387096774	16.02	15.08	12.39	7.64	5.665	1.518
0.225806451612903	15.96	15.01	11.91	7.5	5.654	1.487
0.258064516129032	12.31	11.71	9.586	6.196	4.662	1.231
0.290322580645161	10.59	10.18	8.075	5.027	3.871	1.03
0.32258064516129	10.43	9.993	7.893	5.026	3.826	1.015
0.354838709677419	10	9.379	7.648	4.863	3.674	1.013
0.387096774193548	9.634	9.066	7.321	4.655	3.549	0.9883
0.419354838709677	9.422	9.055	7.107	4.461	3.547	0.9793
0.451612903225806	9.168	8.641	7.103	4.399	3.481	0.9466
0.483870967741936	7.998	7.512	5.842	3.765	3.016	0.8323
0.516129032258065	7.581	7.176	5.612	3.667	2.783	0.7364
0.548387096774194	6.707	6.36	5.209	3.585	2.69	0.7059
0.580645161290323	6.323	5.966	5.19	3.452	2.637	0.6987
0.612903225806452	6.139	5.766	4.927	3.402	2.585	0.6845
0.645161290322581	5.916	5.558	4.497	3.044	2.37	0.6352
0.67741935483871	5.651	5.337	4.239	2.852	2.208	0.5881
0.709677419354839	5.407	5.144	4.2	2.799	2.124	0.5576
0.741935483870968	3.961	3.721	2.929	2.107	1.622	0.4301
0.774193548387097	3.471	3.272	2.624	1.775	1.385	0.3825
0.806451612903226	3.395	3.192	2.592	1.748	1.357	0.357
0.838709677419355	3.009	2.833	2.225	1.663	1.316	0.3474
0.870967741935484	2.531	2.383	1.939	1.481	1.111	0.2975
0.903225806451613	2.53	2.381	1.87	1.418	1.109	0.291
0.935483870967742	2.526	2.376	1.866	1.295	0.9903	0.2623
0.967741935483871	2.521	2.367	1.84	1.219	0.9373	0.2572

0.1	21.524	20.259	15.941	10.064	7.5789	
	2.0053					
			Average of yearly averages:			
	0.964596666666667					

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

Data used for this run:
Output File: broccoli cauliflower
Metfile: w23234.dvf
PRZM scenario: CAColeCrop no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name: oxydemeton-methyl

Description	Variable Name		Value	Units	Comments
Molecular weight	mwt		246.29	g/mol	
Henry's Law Const.	henry			atm-m^3/mol	
Vapor Pressure	vapr		2.8E-5	torr	
Solubility	sol		1000000	mg/L	
Kd	Kd	0.01	mg/L		
Koc	Koc		mg/L		

```
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  01-02 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

5) Broccoli and Cauliflower, Ground Application

```
stored as broccoli cauliflower G.out
Chemical: oxydemeton-methyl
PRZM environment: CAColeCrop no_irrig.txt modified Monday, 16 April
2007 at 08:58:22
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23234.dvf     modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  6.404 6.015 4.677 2.897 2.143 0.5648
1962  19.65 18.37 14.77 9.269 6.875 1.804
1963  8.566 8.03  6.486 4.143 3.095 0.818
1964  0.506 0.4763      0.3733      0.2938      0.2375      0.06455
1965  1.481 1.396 1.184 0.7541      0.5669      0.1496
1966  4.688 4.43  3.903 2.658 1.992 0.5226
1967  1.698 1.615 1.287 0.8125      0.6523      0.1885
1968  4.752 4.463 3.486 2.293 1.715 0.46
1969  18.01 17.12 14.49 9.465 7.147 1.883
1970  3.83  3.667 3.066 2.069 1.552 0.4141
1971  9.22  8.677 6.802 4.21  3.112 0.842
1972  1.005 0.9462      0.7712      0.4946      0.3717      0.09757
1973  10.77 10.27 8.479 5.469 4.087 1.076
1974  6.755 6.401 5.007 3.168 2.415 0.6562
1975  4.919 4.677 3.828 2.481 1.889 0.5009
1976  8.482 7.993 6.557 4.122 3.054 0.8175
1977  0.6474      0.6099      0.4793      0.4379      0.3658
      0.1019
1978  14.5  13.64 11.35 6.991 5.172 1.349
1979  29    27.33 21.75 13.44 9.914 2.582
```

1980 8.178 7.897 6.396 4.013 2.971 0.785
1981 2.004 1.883 1.5   1.201 0.915 0.2452
1982 14.97 14.09 11.14 6.999 5.204 1.372
1983 4.292 4.033 3.621 2.613 1.982 0.5252
1984 1.72 1.617 1.26 0.8385   0.6455   0.1721
1985 20.38 19.19 15.07 9.452 7   1.827
1986 9.186 8.983 7.163 4.359 3.246 0.8622
1987 22.26 21.12 16.74 10.25 7.533 1.982
1988 0.5042   0.4735   0.368 0.2438   0.2123   0.06928
1989 3.746 3.538 2.81 1.903 1.412 0.3717
1990 9.342 8.816 6.963 4.308 3.239 0.8623

Sorted results
Prob. Peak 96 hr 21 Day   60 Day   90 Day   Yearly
0.032258064516129 29   27.33 21.75 13.44 9.914 2.582
0.0645161290322581   22.26 21.12 16.74 10.25 7.533 1.982
0.0967741935483871   20.38 19.19 15.07 9.465 7.147 1.883
0.129032258064516 19.65 18.37 14.77 9.452 7   1.827
0.161290322580645 18.01 17.12 14.49 9.269 6.875 1.804
0.193548387096774 14.97 14.09 11.35 6.999 5.204 1.372
0.225806451612903 14.5 13.64 11.14 6.991 5.172 1.349
0.258064516129032 10.77 10.27 8.479 5.469 4.087 1.076
0.290322580645161 9.342 8.983 7.163 4.359 3.246 0.8623
0.32258064516129 9.22 8.816 6.963 4.308 3.239 0.8622
0.354838709677419 9.186 8.677 6.802 4.21 3.112 0.842
0.387096774193548 8.566 8.03 6.557 4.143 3.095 0.818
0.419354838709677 8.482 7.993 6.486 4.122 3.054 0.8175
0.451612903225806 8.178 7.897 6.396 4.013 2.971 0.785
0.483870967741936 6.755 6.401 5.007 3.168 2.415 0.6562
0.516129032258065 6.404 6.015 4.677 2.897 2.143 0.5648
0.548387096774194 4.919 4.677 3.903 2.658 1.992 0.5252
0.580645161290323 4.752 4.463 3.828 2.613 1.982 0.5226
0.612903225806452 4.688 4.43 3.621 2.481 1.889 0.5009
0.645161290322581 4.292 4.033 3.486 2.293 1.715 0.46
0.67741935483871 3.83 3.667 3.066 2.069 1.552 0.4141
0.709677419354839 3.746 3.538 2.81 1.903 1.412 0.3717
0.741935483870968 2.004 1.883 1.5   1.201 0.915 0.2452
0.774193548387097 1.72 1.617 1.287 0.8385   0.6523   0.1885
0.806451612903226 1.698 1.615 1.26 0.8125   0.6455   0.1721
0.838709677419355 1.481 1.396 1.184 0.7541   0.5669   0.1496
0.870967741935484 1.005 0.9462   0.7712   0.4946   0.3717
      0.1019
0.903225806451613 0.6474   0.6099   0.4793   0.4379
      0.3658   0.09757
0.935483870967742 0.506 0.4763   0.3733   0.2938   0.2375
      0.06928
0.967741935483871 0.5042   0.4735   0.368 0.2438   0.2123
      0.06455

0.1   20.307   19.108   15.04 9.4637   7.1323   1.8774
                              Average of yearly averages:
      0.798873333333334

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

Data used for this run:
Output File: broccoli cauliflower G

```
Metfile:    w23234.dvf
PRZM scenario:    CAColeCrop no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
Application Date  Date  01-02 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

6) Brussels Sprouts, aerial application

```
stored as brussels sprouts.out
Chemical: oxydemeton-methyl
PRZM environment: CAColeCrop no_irrig.txt modified Monday, 16 April
2007 at 08:58:22
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23234.dvf     modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  8.446 7.933 6.718 4.312 3.272 0.8688
1962  21.84 21.01 18.76 12.36 9.234 2.449
1963  10.47 9.816 8.439 5.843 4.491 1.217
1964  3.442 3.24  2.625 1.897 1.478 0.3951
1965  4.218 3.977 3.344 2.329 1.778 0.4728
1966  6.668 6.292 5.835 4.353 3.305 0.8724
1967  3.972 3.803 3.043 2.572 2.124 0.5914
1968  10.26 9.64  7.519 4.917 3.782 1.018
1969  22.16 20.91 17.91 11.97 9.083 2.409
1970  7.068 6.645 5.725 4.189 3.244 0.8734
```

1971	15.8	14.87	11.65	7.213	5.614	1.621
1972	3.829	3.605	2.98	2.052	1.563	0.4125
1973	14.48	13.62	11.55	9.172	7.066	1.895
1974	13.53	12.81	10.02	6.606	5.164	1.422
1975	7.15	6.736	5.952	4.043	3.109	0.8281
1976	17.6	16.58	13.62	8.559	6.584	1.818
1977	3.433	3.228	2.789	2.149	1.723	0.4674
1978	15.96	15.01	13.15	8.482	6.32	1.666
1979	29.59	28.56	25.56	16.29	12.06	3.19
1980	17.24	16.76	13.61	8.514	6.379	1.703
1981	5.052	4.747	4.044	3.19	2.489	0.6681
1982	37.05	34.88	27.6	17.35	12.88	3.428
1983	9.169	8.828	7.47	5.557	4.294	1.153
1984	4.589	4.314	3.442	2.416	1.888	0.5019
1985	21.6	20.35	16.74	10.93	8.149	2.149
1986	20.52	19.43	15.52	9.617	7.21	1.921
1987	23.1	22.39	18.29	11.68	8.724	2.308
1988	3.418	3.21	2.593	1.779	1.396	0.3879
1989	6.018	5.685	5.007	3.753	2.867	0.7592
1990	18.18	17.16	13.55	8.406	6.378	1.701

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	37.05	34.88	27.6	17.35	12.88	3.428
0.0645161290322581		29.59	28.56	25.56	16.29	12.06	3.19
0.0967741935483871		23.1	22.39	18.76	12.36	9.234	2.449
0.129032258064516	22.16	21.01	18.29	11.97	9.083	2.409
0.161290322580645	21.84	20.91	17.91	11.68	8.724	2.308
0.193548387096774	21.6	20.35	16.74	10.93	8.149	2.149
0.225806451612903	20.52	19.43	15.52	9.617	7.21	1.921
0.258064516129032	18.18	17.16	13.62	9.172	7.066	1.895
0.290322580645161	17.6	16.76	13.61	8.559	6.584	1.818
0.32258064516129	17.24	16.58	13.55	8.514	6.379	1.703
0.354838709677419	15.96	15.01	13.15	8.482	6.378	1.701
0.387096774193548	15.8	14.87	11.65	8.406	6.32	1.666
0.419354838709677	14.48	13.62	11.55	7.213	5.614	1.621
0.451612903225806	13.53	12.81	10.02	6.606	5.164	1.422
0.483870967741936	10.47	9.816	8.439	5.843	4.491	1.217
0.516129032258065	10.26	9.64	7.519	5.557	4.294	1.153
0.548387096774194	9.169	8.828	7.47	4.917	3.782	1.018
0.580645161290323	8.446	7.933	6.718	4.353	3.305	0.8734
0.612903225806452	7.15	6.736	5.952	4.312	3.272	0.8724
0.645161290322581	7.068	6.645	5.835	4.189	3.244	0.8688
0.67741935483871	6.668	6.292	5.725	4.043	3.109	0.8281
0.709677419354839	6.018	5.685	5.007	3.753	2.867	0.7592
0.741935483870968	5.052	4.747	4.044	3.19	2.489	0.6681
0.774193548387097	4.589	4.314	3.442	2.572	2.124	0.5914
0.806451612903226	4.218	3.977	3.344	2.416	1.888	0.5019
0.838709677419355	3.972	3.803	3.043	2.329	1.778	0.4728
0.870967741935484	3.829	3.605	2.98	2.149	1.723	0.4674
0.903225806451613	3.442	3.24	2.789	2.052	1.563	0.4125
0.935483870967742	3.433	3.228	2.625	1.897	1.478	0.3951
0.967741935483871	3.418	3.21	2.593	1.779	1.396	0.3879

0.1	23.006	22.252	18.713	12.321	9.2189	2.445

Average of yearly averages:

1.37223333333333

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

Data used for this run:
Output File: brussels sprouts
Metfile:    w23234.dvf
PRZM scenario:    CAColeCrop no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  01-02 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Interval 2  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

7) Brussels Sprouts, ground application

```
stored as brussels sprouts G.out
Chemical: oxydemeton-methyl
PRZM environment: CAColeCrop no_irrig.txt modified Monday, 16 April
2007 at 08:58:22
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23234.dvf     modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  6.404 6.015 4.853 3.069 2.279 0.6018
1962  19.79 19.1  17.3  11.36 8.477 2.228
1963  8.566 8.099 6.644 4.668 3.597 0.9639
```

1964	0.6884	0.648	0.5251	0.4409	0.3604	0.09886
1965	1.482	1.397	1.299	0.8739	0.6599	0.1749
1966	4.688	4.43	4.052	2.966	2.243	0.5911
1967	2.789	2.652	2.113	1.334	1.052	0.3015
1968	7.907	7.426	5.8	3.82	2.848	0.7577
1969	20.17	19.04	16.45	10.93	8.301	2.192
1970	4.889	4.581	3.901	3.013	2.286	0.6124
1971	15.09	14.2	11.13	6.889	5.092	1.37
1972	1.092	1.028	0.8958	0.6089	0.463	0.1223
1973	13.1	12.33	10.07	8.065	6.241	1.665
1974	12.18	11.54	9.027	5.683	4.335	1.167
1975	4.919	4.677	3.98	2.66	2.045	0.5447
1976	16.53	15.58	12.77	8.032	5.952	1.577
1977	1.21	1.14	0.8961	0.7553	0.6208	0.1751
1978	14.5	13.64	11.5	7.379	5.491	1.436
1979	29	27.46	24.46	15.6	11.56	3.013
1980	15.2	14.85	12.1	7.567	5.61	1.472
1981	3.355	3.152	2.535	1.865	1.454	0.3921
1982	35.71	33.62	26.62	16.75	12.42	3.258
1983	7.516	7.222	5.897	4.326	3.353	0.8975
1984	1.896	1.782	1.451	1.065	0.8289	0.2245
1985	20.38	19.19	15.22	9.883	7.362	1.926
1986	18.7	17.74	14.12	8.741	6.466	1.71
1987	22.26	21.19	16.92	10.82	7.983	2.105
1988	0.6837	0.6421	0.5186	0.3559	0.3256	0.1068
1989	3.746	3.538	2.964	2.398	1.813	0.4798
1990	16.11	15.21	12.01	7.431	5.483	1.458

Sorted results

Prob. Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	35.71	33.62	26.62	16.75	12.42	3.258
0.0645161290322581	29	27.46	24.46	15.6	11.56	3.013
0.0967741935483871	22.26	21.19	17.3	11.36	8.477	2.228
0.129032258064516	20.38	19.19	16.92	10.93	8.301	2.192
0.161290322580645	20.17	19.1	16.45	10.82	7.983	2.105
0.193548387096774	19.79	19.04	15.22	9.883	7.362	1.926
0.225806451612903	18.7	17.74	14.12	8.741	6.466	1.71
0.258064516129032	16.53	15.58	12.77	8.065	6.241	1.665
0.290322580645161	16.11	15.21	12.1	8.032	5.952	1.577
0.32258064516129	15.2	14.85	12.01	7.567	5.61	1.472
0.354838709677419	15.09	14.2	11.5	7.431	5.491	1.458
0.387096774193548	14.5	13.64	11.13	7.379	5.483	1.436
0.419354838709677	13.1	12.33	10.07	6.889	5.092	1.37
0.451612903225806	12.18	11.54	9.027	5.683	4.335	1.167
0.483870967741936	8.566	8.099	6.644	4.668	3.597	0.9639
0.516129032258065	7.907	7.426	5.897	4.326	3.353	0.8975
0.548387096774194	7.516	7.222	5.8	3.82	2.848	0.7577
0.580645161290323	6.404	6.015	4.853	3.069	2.286	0.6124
0.612903225806452	4.919	4.677	4.052	3.013	2.279	0.6018
0.645161290322581	4.889	4.581	3.98	2.966	2.243	0.5911
0.67741935483871	4.688	4.43	3.901	2.66	2.045	0.5447
0.709677419354839	3.746	3.538	2.964	2.398	1.813	0.4798
0.741935483870968	3.355	3.152	2.535	1.865	1.454	0.3921
0.774193548387097	2.789	2.652	2.113	1.334	1.052	0.3015
0.806451612903226	1.896	1.782	1.451	1.065	0.8289	0.2245
0.838709677419355	1.482	1.397	1.299	0.8739	0.6599	0.1751

```
0.870967741935484 1.21  1.14  0.8961      0.7553      0.6208
      0.1749
0.903225806451613 1.092 1.028 0.8958      0.6089      0.463 0.1223
0.935483870967742 0.6884      0.648 0.5251      0.4409      0.3604
      0.1068
0.967741935483871 0.6837      0.6421      0.5186      0.3559
      0.3256      0.09886

0.1   22.072      20.99 17.262      11.317      8.4594      2.2244
                              Average of yearly averages:   1.120732

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

Data used for this run:
Output File: brussels sprouts G
Metfile:    w23234.dvf
PRZM scenario:    CAColeCrop no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
Application Date  Date  01-02 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Interval 2  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

8) Cabbage, aerial application

```
stored as cabbage.out
Chemical: oxydemeton-methyl
```

PRZM environment: CAColeCrop no_irrig.txt modified Monday, 16 April 2007 at 08:58:22
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w23234.dvf modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	12.67	11.9	10.08	6.469	4.908	1.303
1962	32.78	31.54	28.16	18.55	13.86	3.675
1963	15.7	14.72	12.66	8.762	6.735	1.825
1964	5.163	4.859	3.938	2.846	2.218	0.5926
1965	6.326	5.965	5.016	3.493	2.667	0.7092
1966	10	9.437	8.752	6.529	4.957	1.309
1967	5.958	5.704	4.565	3.857	3.186	0.8871
1968	15.39	14.46	11.28	7.374	5.673	1.527
1969	33.24	31.37	26.87	17.95	13.63	3.614
1970	10.6	9.967	8.588	6.283	4.866	1.31
1971	23.7	22.3	17.48	10.82	8.42	2.431
1972	5.744	5.407	4.47	3.079	2.344	0.6187
1973	21.72	20.44	17.33	13.76	10.6	2.842
1974	20.29	19.21	15.02	9.908	7.746	2.134
1975	10.72	10.1	8.928	6.064	4.663	1.242
1976	26.4	24.88	20.43	12.84	9.876	2.728
1977	5.149	4.842	4.183	3.224	2.585	0.7011
1978	23.94	22.51	19.72	12.72	9.479	2.498
1979	44.38	42.84	38.34	24.43	18.1	4.784
1980	25.86	25.14	20.42	12.77	9.568	2.555
1981	7.578	7.121	6.066	4.785	3.733	1.002
1982	55.58	52.32	41.4	26.03	19.32	5.142
1983	13.75	13.24	11.2	8.335	6.44	1.73
1984	6.884	6.471	5.163	3.624	2.833	0.7529
1985	32.4	30.52	25.1	16.39	12.22	3.224
1986	30.78	29.15	23.29	14.43	10.82	2.882
1987	34.66	33.59	27.44	17.52	13.09	3.462
1988	5.127	4.815	3.889	2.669	2.094	0.5818
1989	9.027	8.527	7.511	5.629	4.3	1.139
1990	27.27	25.74	20.33	12.61	9.566	2.551

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	55.58	52.32	41.4	26.03	19.32	5.142
0.0645161290322581	44.38	42.84	38.34	24.43	18.1	4.784
0.0967741935483871	34.66	33.59	28.16	18.55	13.86	3.675
0.129032258064516	33.24	31.54	27.44	17.95	13.63	3.614
0.161290322580645	32.78	31.37	26.87	17.52	13.09	3.462
0.193548387096774	32.4	30.52	25.1	16.39	12.22	3.224
0.225806451612903	30.78	29.15	23.29	14.43	10.82	2.882
0.258064516129032	27.27	25.74	20.43	13.76	10.6	2.842
0.290322580645161	26.4	25.14	20.42	12.84	9.876	2.728
0.32258064516129	25.86	24.88	20.33	12.77	9.568	2.555
0.354838709677419	23.94	22.51	19.72	12.72	9.566	2.551
0.387096774193548	23.7	22.3	17.48	12.61	9.479	2.498
0.419354838709677	21.72	20.44	17.33	10.82	8.42	2.431
0.451612903225806	20.29	19.21	15.02	9.908	7.746	2.134
0.483870967741936	15.7	14.72	12.66	8.762	6.735	1.825
0.516129032258065	15.39	14.46	11.28	8.335	6.44	1.73

```
0.548387096774194 13.75 13.24 11.2  7.374 5.673 1.527
0.580645161290323 12.67 11.9  10.08 6.529 4.957 1.31
0.612903225806452 10.72 10.1  8.928 6.469 4.908 1.309
0.645161290322581 10.6  9.967 8.752 6.283 4.866 1.303
0.67741935483871  10    9.437 8.588 6.064 4.663 1.242
0.709677419354839 9.027 8.527 7.511 5.629 4.3   1.139
0.741935483870968 7.578 7.121 6.066 4.785 3.733 1.002
0.774193548387097 6.884 6.471 5.163 3.857 3.186 0.8871
0.806451612903226 6.326 5.965 5.016 3.624 2.833 0.7529
0.838709677419355 5.958 5.704 4.565 3.493 2.667 0.7092
0.870967741935484 5.744 5.407 4.47  3.224 2.585 0.7011
0.903225806451613 5.163 4.859 4.183 3.079 2.344 0.6187
0.935483870967742 5.149 4.842 3.938 2.846 2.218 0.5926
0.967741935483871 5.127 4.815 3.889 2.669 2.094 0.5818

0.1   34.518      33.385      28.088      18.49 13.837      3.6689
                              Average of yearly averages:
      2.05841333333333

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

Data used for this run:
Output File: cabbage
Metfile:    w23234.dvf
PRZM scenario:    CAColeCrop no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.84  kg/ha
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  01-02 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Interval 2  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
```

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

9) Cabbage, ground application

stored as cabbage G.out
Chemical: oxydemeton-methyl
PRZM environment: CAColeCrop no_irrig.txt modified Monday, 16 April 2007 at 08:58:22
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w23234.dvf modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	9.608	9.025	7.281	4.599	3.408	0.8993
1962	30.14	29.07	26.31	17.28	12.89	3.389
1963	12.85	12.15	9.968	7.004	5.397	1.446
1964	1.033	0.972	0.7877	0.6614	0.5407	0.1483
1965	2.223	2.096	1.948	1.311	0.99	0.2624
1966	7.033	6.646	6.078	4.45	3.365	0.8866
1967	4.183	3.979	3.17	2.001	1.577	0.4523
1968	11.86	11.14	8.702	5.731	4.273	1.137
1969	30.25	28.55	24.68	16.4	12.45	3.288
1970	7.333	6.871	5.849	4.518	3.428	0.9184
1971	22.63	21.3	16.69	10.33	7.638	2.055
1972	1.637	1.541	1.344	0.9133	0.6945	0.1835
1973	19.65	18.49	15.09	12.1	9.359	2.498
1974	18.27	17.31	13.54	8.524	6.502	1.751
1975	7.378	7.015	5.969	3.99	3.068	0.817
1976	24.8	23.37	19.16	12.05	8.926	2.365
1977	1.815	1.71	1.344	1.133	0.9309	0.2625
1978	21.76	20.46	17.25	11.07	8.238	2.154
1979	43.49	41.19	36.69	23.4	17.33	4.52
1980	22.8	22.28	18.14	11.35	8.414	2.208
1981	5.032	4.728	3.803	2.797	2.181	0.5882
1982	53.57	50.43	39.93	25.13	18.63	4.887
1983	11.27	10.83	8.845	6.489	5.029	1.346
1984	2.844	2.673	2.177	1.597	1.243	0.3367
1985	30.57	28.79	22.84	14.82	11.04	2.89
1986	28.06	26.61	21.18	13.11	9.7	2.565
1987	33.39	31.79	25.38	16.23	11.97	3.157
1988	1.026	0.9631	0.778	0.5339	0.4884	0.1603
1989	5.619	5.308	4.446	3.597	2.719	0.7198
1990	24.17	22.81	18.01	11.15	8.223	2.187

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	53.57	50.43	39.93	25.13	18.63	4.887
0.0645161290322581	43.49	41.19	36.69	23.4	17.33	4.52
0.0967741935483871	33.39	31.79	26.31	17.28	12.89	3.389
0.129032258064516	30.57	29.07	25.38	16.4	12.45	3.288
0.161290322580645	30.25	28.79	24.68	16.23	11.97	3.157
0.193548387096774	30.14	28.55	22.84	14.82	11.04	2.89
0.225806451612903	28.06	26.61	21.18	13.11	9.7	2.565

0.258064516129032 24.8 23.37 19.16 12.1 9.359 2.498
0.290322580645161 24.17 22.81 18.14 12.05 8.926 2.365
0.32258064516129 22.8 22.28 18.01 11.35 8.414 2.208
0.354838709677419 22.63 21.3 17.25 11.15 8.238 2.187
0.387096774193548 21.76 20.46 16.69 11.07 8.223 2.154
0.419354838709677 19.65 18.49 15.09 10.33 7.638 2.055
0.451612903225806 18.27 17.31 13.54 8.524 6.502 1.751
0.483870967741936 12.85 12.15 9.968 7.004 5.397 1.446
0.516129032258065 11.86 11.14 8.845 6.489 5.029 1.346
0.548387096774194 11.27 10.83 8.702 5.731 4.273 1.137
0.580645161290323 9.608 9.025 7.281 4.599 3.428 0.9184
0.612903225806452 7.378 7.015 6.078 4.518 3.408 0.8993
0.645161290322581 7.333 6.871 5.969 4.45 3.365 0.8866
0.67741935483871 7.033 6.646 5.849 3.99 3.068 0.817
0.709677419354839 5.619 5.308 4.446 3.597 2.719 0.7198
0.741935483870968 5.032 4.728 3.803 2.797 2.181 0.5882
0.774193548387097 4.183 3.979 3.17 2.001 1.577 0.4523
0.806451612903226 2.844 2.673 2.177 1.597 1.243 0.3367
0.838709677419355 2.223 2.096 1.948 1.311 0.99 0.2625
0.870967741935484 1.815 1.71 1.344 1.133 0.9309   0.2624
0.903225806451613 1.637 1.541 1.344 0.9133   0.6945   0.1835
0.935483870967742 1.033 0.972 0.7877   0.6614   0.5407
      0.1603
0.967741935483871 1.026 0.9631   0.778 0.5339   0.4884
      0.1483

0.1   33.108   31.518   26.217   17.192   12.846
      3.3789
                              Average of yearly averages: 1.68261

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

Data used for this run:
Output File: cabbage G
Metfile: w23234.dvf
PRZM scenario: CAColeCrop no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name: oxydemeton-methyl
Description Variable Name   Value Units Comments
Molecular weight mwt   246.29   g/mol
Henry's Law Const.   henry   atm-m^3/mol
Vapor Pressure   vapr 2.8E-5   torr
Solubility sol   1000000   mg/L
Kd   Kd   0.01 mg/L
Koc   Koc   mg/L
Photolysis half-life   kdp   136   days Half-life
Aerobic Aquatic Metabolism   kbacw 19.2 days Halfife
Anaerobic Aquatic Metabolism kbacs 10.5 days Halfife
Aerobic Soil Metabolism asm   9.6   days Halfife
Hydrolysis: pH 7 41   days Half-life
Method: CAM   2   integer   See PRZM manual
Incorporation Depth: DEPI 0   cm
Application Rate: TAPP 0.84 kg/ha
Application Efficiency: APPEFF   0.99 fraction
Spray Drift DRFT 0.01 fraction of application rate applied to pond
Application Date Date 01-02 dd/mm or dd/mmm or dd-mm or dd-mmm

```
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Interval 2  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

10) Corn, aerial application

```
stored as corn.out
Chemical: oxydemeton-methyl
PRZM environment: CAcornOP.txt      modified Satday, 12 October 2002 at
16:32:58
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23232.dvf     modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  2.496 2.33  1.762 1.124 0.8027      0.2015
1962  2.488 2.317 1.741 1.11  0.7985      0.2045
1963  2.525 2.374 1.827 1.17  0.8453      0.2141
1964  2.502 2.338 1.771 1.131 0.8166      0.2064
1965  2.617 2.45  1.857 1.186 0.8583      0.219
1966  2.479 2.304 1.712 1.077 0.7709      0.1955
1967  2.592 2.446 1.887 1.189 0.8575      0.2163
1968  2.494 2.327 1.75  1.107 0.7921      0.199
1969  2.51  2.372 1.794 1.121 0.8067      0.2039
1970  2.512 2.354 1.772 1.099 0.7857      0.1978
1971  2.512 2.354 1.798 1.153 0.8329      0.2103
1972  2.501 2.337 1.757 1.101 0.7882      0.198
1973  2.489 2.319 1.719 1.059 0.7505      0.1884
1974  2.509 2.349 1.785 1.136 0.8213      0.2095
1975  2.532 2.385 1.816 1.124 0.8016      0.2015
1976  2.504 2.342 1.748 1.072 0.7607      0.1905
1977  2.485 2.312 1.815 1.185 0.8574      0.2175
1978  2.752 2.579 1.969 1.229 0.8801      0.2218
1979  2.508 2.347 1.768 1.102 0.7876      0.1983
1980  2.493 2.325 1.752 1.119 0.8101      0.2047
1981  2.542 2.378 1.796 1.132 0.8075      0.2032
1982  2.514 2.357 1.792 1.135 0.823 0.2094
1983  3.93  3.772 3.113 1.904 1.379 0.3491
1984  2.499 2.334 1.734 1.059 0.7529      0.1894
1985  2.484 2.312 1.731 1.097 0.783 0.1969
1986  2.5   2.336 1.757 1.103 0.7898      0.1991
1987  2.478 2.302 1.696 1.046 0.7447      0.1886
1988  3.656 3.407 2.638 1.606 1.148 0.2878
```

1989 2.475 2.297 1.7   1.065 0.7623   0.2257
1990 2.479 2.302 1.708 1.127 0.8243   0.2098

Sorted results
Prob. Peak 96 hr 21 Day   60 Day   90 Day   Yearly
0.032258064516129 3.93 3.772 3.113 1.904 1.379 0.3491
0.0645161290322581   3.656 3.407 2.638 1.606 1.148 0.2878
0.0967741935483871   2.752 2.579 1.969 1.229 0.8801   0.2257
0.129032258064516 2.617 2.45 1.887 1.189 0.8583   0.2218
0.161290322580645 2.592 2.446 1.857 1.186 0.8575   0.219
0.193548387096774 2.542 2.385 1.827 1.185 0.8574   0.2175
0.225806451612903 2.532 2.378 1.816 1.17 0.8453   0.2163
0.258064516129032 2.525 2.374 1.815 1.153 0.8329   0.2141
0.290322580645161 2.514 2.372 1.798 1.136 0.8243   0.2103
0.32258064516129 2.512 2.357 1.796 1.135 0.823 0.2098
0.354838709677419 2.512 2.354 1.794 1.132 0.8213   0.2095
0.387096774193548 2.51 2.354 1.792 1.131 0.8166   0.2094
0.419354838709677 2.509 2.349 1.785 1.127 0.8101   0.2064
0.451612903225806 2.508 2.347 1.772 1.124 0.8075   0.2047
0.483870967741936 2.504 2.342 1.771 1.124 0.8067   0.2045
0.516129032258065 2.502 2.338 1.768 1.121 0.8027   0.2039
0.548387096774194 2.501 2.337 1.762 1.119 0.8016   0.2032
0.580645161290323 2.5   2.336 1.757 1.11 0.7985   0.2015
0.612903225806452 2.499 2.334 1.757 1.107 0.7921   0.2015
0.645161290322581 2.496 2.33 1.752 1.103 0.7898   0.1991
0.67741935483871 2.494 2.327 1.75 1.102 0.7882   0.199
0.709677419354839 2.493 2.325 1.748 1.101 0.7876   0.1983
0.741935483870968 2.489 2.319 1.741 1.099 0.7857   0.198
0.774193548387097 2.488 2.317 1.734 1.097 0.783 0.1978
0.806451612903226 2.485 2.312 1.731 1.077 0.7709   0.1969
0.838709677419355 2.484 2.312 1.719 1.072 0.7623   0.1955
0.870967741935484 2.479 2.304 1.712 1.065 0.7607   0.1905
0.903225806451613 2.479 2.302 1.708 1.059 0.7529   0.1894
0.935483870967742 2.478 2.302 1.7   1.059 0.7505   0.1886
0.967741935483871 2.475 2.297 1.696 1.046 0.7447   0.1884

0.1   2.7385   2.5661   1.9608   1.225 0.87792   0.22531
                              Average of yearly averages:
      0.211916666666667

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

Data used for this run:
Output File: corn
Metfile: w23232.dvf
PRZM scenario: CAcornOP.txt
EXAMS environment file: pond298.exv
Chemical Name: oxydemeton-methyl
Description Variable Name   Value Units Comments
Molecular weight mwt   246.29   g/mol
Henry's Law Const.   henry   atm-m^3/mol
Vapor Pressure   vapr 2.8E-5   torr
Solubility sol   1000000   mg/L
Kd   Kd   0.01 mg/L
Koc   Koc   mg/L
Photolysis half-life   kdp   136   days Half-life
Aerobic Aquatic Metabolism   kbacw 19.2 days Halfife

```
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  15-04 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

11) Corn, ground application

```
stored as corn G.out
Chemical: oxydemeton-methyl
PRZM environment: CAcornOP.txt      modified Satday, 12 October 2002 at
16:32:58
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23232.dvf     modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  0.4993      0.466 0.3523      0.2248      0.1605      0.04031
1962  0.4976      0.4634      0.3481      0.222 0.1597      0.0433
1963  0.5052      0.4749      0.3655      0.2343      0.1693
      0.04313
1964  0.5003      0.4676      0.3543      0.2263      0.1633
      0.04181
1965  0.6151      0.5758      0.4522      0.2851      0.206 0.05382
1966  0.4959      0.4608      0.3425      0.2154      0.1542
      0.03993
1967  0.5622      0.5306      0.4096      0.2562      0.1848
      0.04683
1968  0.4988      0.4654      0.35  0.2214      0.1584      0.0398
1969  0.5168      0.4924      0.3761      0.2339      0.1684
      0.04289
1970  0.5024      0.4707      0.3544      0.2199      0.1571
      0.0396
1971  0.5024      0.4708      0.3596      0.2307      0.1666
      0.04206
1972  0.5002      0.4675      0.3514      0.2203      0.1576
      0.03963
1973  0.4978      0.4638      0.3438      0.2118      0.1501
      0.03771
```

1974 0.5017 0.4698 0.357 0.2272 0.1661 0.04384
1975 0.5064 0.4769 0.3632 0.2249 0.1603
0.04039
1976 0.5009 0.4684 0.3496 0.2145 0.1521
0.03811
1977 0.5162 0.4821 0.4229 0.2847 0.2077
0.05318
1978 0.7527 0.7053 0.577 0.3497 0.2497 0.0629
1979 0.5015 0.4695 0.3536 0.2205 0.1575
0.03975
1980 0.4986 0.465 0.3503 0.2238 0.162 0.04095
1981 0.5406 0.5056 0.3832 0.2406 0.1716
0.04321
1982 0.5028 0.4714 0.3584 0.2271 0.1646
0.04223
1983 2.207 2.081 1.762 1.029 0.7461 0.1892
1984 0.4998 0.4667 0.3467 0.2119 0.1506
0.03869
1985 0.4969 0.4624 0.3461 0.2195 0.1566
0.03946
1986 0.5001 0.4673 0.3514 0.2206 0.158 0.03982
1987 0.4956 0.4604 0.3392 0.2091 0.1489
0.03844
1988 1.713 1.596 1.293 0.7539 0.5395 0.1356
1989 0.4979 0.4595 0.34 0.213 0.1525 0.07349
1990 0.4987 0.4631 0.3435 0.2719 0.2134
0.05626

Sorted results

Prob. Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	2.207	2.081	1.762	1.029	0.7461	0.1892
0.0645161290322581	1.713	1.596	1.293	0.7539	0.5395	0.1356
0.0967741935483871	0.7527	0.7053	0.577	0.3497	0.2497	0.07349
0.129032258064516	0.6151	0.5758	0.4522	0.2851	0.2134	0.0629
0.161290322580645	0.5622	0.5306	0.4229	0.2847	0.2077	0.05626
0.193548387096774	0.5406	0.5056	0.4096	0.2719	0.206	0.05382
0.225806451612903	0.5168	0.4924	0.3832	0.2562	0.1848	0.05318
0.258064516129032	0.5162	0.4821	0.3761	0.2406	0.1716	0.04683
0.290322580645161	0.5064	0.4769	0.3655	0.2343	0.1693	0.04384
0.32258064516129	0.5052	0.4749	0.3632	0.2339	0.1684	0.0433
0.354838709677419	0.5028	0.4714	0.3596	0.2307	0.1666	0.04321
0.387096774193548	0.5024	0.4708	0.3584	0.2272	0.1661	0.04313
0.419354838709677	0.5024	0.4707	0.357	0.2271	0.1646	0.04289
0.451612903225806	0.5017	0.4698	0.3544	0.2263	0.1633	0.04223

```
0.483870967741936 0.5015      0.4695      0.3543      0.2249      0.162
      0.04206
0.516129032258065 0.5009      0.4684      0.3536      0.2248
      0.1605      0.04181
0.548387096774194 0.5003      0.4676      0.3523      0.2238
      0.1603      0.04095
0.580645161290323 0.5002      0.4675      0.3514      0.222 0.1597
      0.04039
0.612903225806452 0.5001      0.4673      0.3514      0.2214
      0.1584      0.04031
0.645161290322581 0.4998      0.4667      0.3503      0.2206      0.158
      0.03993
0.67741935483871  0.4993      0.466 0.35  0.2205      0.1576
      0.03982
0.709677419354839 0.4988      0.4654      0.3496      0.2203
      0.1575      0.0398
0.741935483870968 0.4987      0.465 0.3481      0.2199      0.1571
      0.03975
0.774193548387097 0.4986      0.4638      0.3467      0.2195
      0.1566      0.03963
0.806451612903226 0.4979      0.4634      0.3461      0.2154
      0.1542      0.0396
0.838709677419355 0.4978      0.4631      0.3438      0.2145
      0.1525      0.03946
0.870967741935484 0.4976      0.4624      0.3435      0.213 0.1521
      0.03869
0.903225806451613 0.4969      0.4608      0.3425      0.2119
      0.1506      0.03844
0.935483870967742 0.4959      0.4604      0.34  0.2118      0.1501
      0.03811
0.967741935483871 0.4956      0.4595      0.3392      0.2091
      0.1489      0.03771

0.1   0.73894     0.69235     0.56452     0.34324     0.24607
      0.072431
                              Average of yearly averages:
      0.0522113333333333

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

Data used for this run:
Output File: corn G
Metfile:    w23232.dvf
PRZM scenario:    CAcornOP.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
```

```
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
Application Date  Date  15-04 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

12) Cotton, ground application

```
stored as cotton G.out
Chemical: oxydemeton-methyl
PRZM environment: Cacotton_NirrigC.txt    modified Thuday, 17 June 2004
at 08:14:24
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w93193.dvf     modified Wedday, 3 July 2002 at 09:04:24
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  0.28  0.2594      0.1917      0.1005      0.06908     0.02135
1962  0.2803      0.2592      0.1902      0.1008      0.06958
      0.01934
1963  0.28  0.258 0.1867      0.0998      0.0693      0.01853
1964  0.2801      0.2588      0.1894      0.1014      0.07013
      0.02241
1965  0.2801      0.2576      0.1853      0.09934     0.06898
      0.01872
1966  0.28  0.2559      0.1797      0.09236     0.06369     0.01619
1967  0.28  0.2572      0.184 0.09707     0.06688     0.01801
1968  0.2801      0.2575      0.1849      0.09564     0.06572
      0.02346
1969  0.2802      0.2563      0.1808      0.09529     0.06593
      0.01757
1970  0.28  0.2557      0.1794      0.09222     0.06335     0.01837
1971  0.3366      0.312 0.2266      0.1618      0.1135      0.02969
1972  0.28  0.2563      0.1813      0.1043      0.07262     0.02108
1973  0.2802      0.2551      0.1769      0.08934     0.06135
      0.01821
1974  0.28  0.2567      0.1824      0.09397     0.06463     0.02262
1975  0.2803      0.2572      0.1834      0.09602     0.06642
      0.01974
1976  0.2801      0.2566      0.1819      0.0957      0.06626
      0.02064
```

1977	0.6692	0.6199	0.4578	0.2407	0.1653	0.0413
1978	0.28	0.2563	0.1812	0.09349	0.06426	0.02127
1979	0.28	0.2557	0.1793	0.09129	0.06265	0.01644
1980	0.28	0.258	0.1868	0.09945	0.06859	0.01725
1981	0.28	0.2561	0.1805	0.08982	0.06123	0.01546
1982	0.28	0.2567	0.1826	0.0966	0.06684	0.02179
1983	0.2801	0.2566	0.1819	0.09419	0.06499	0.0177
1984	0.28	0.2534	0.172	0.0861	0.05881	0.01468
1985	0.28	0.2565	0.182	0.09116	0.06213	0.01746
1986	0.2801	0.2555	0.1785	0.08993	0.0616	0.01588
1987	1.419	1.294	0.9013	0.4661	0.3236	0.08073
1988	0.28	0.2579	0.1865	0.09806	0.06734	0.01891
1989	0.2801	0.2567	0.1824	0.09419	0.06471	0.01815
1990	0.4335	0.3983	0.2701	0.1837	0.1289	0.03217

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	1.419	1.294	0.9013	0.4661	0.3236	0.08073
0.0645161290322581	0.6692	0.6199	0.4578	0.2407	0.1653	0.0413
0.0967741935483871	0.4335	0.3983	0.2701	0.1837	0.1289	0.03217
0.129032258064516	0.3366	0.312	0.2266	0.1618	0.1135	0.02969
0.161290322580645	0.2803	0.2594	0.1917	0.1043	0.07262	0.02346
0.193548387096774	0.2803	0.2592	0.1902	0.1014	0.07013	0.02262
0.225806451612903	0.2802	0.2588	0.1894	0.1008	0.06958	0.02241
0.258064516129032	0.2802	0.258	0.1868	0.1005	0.0693	0.02179
0.290322580645161	0.2801	0.258	0.1867	0.0998	0.06908	0.02135
0.32258064516129	0.2801	0.2579	0.1865	0.09945	0.06898	0.02127
0.354838709677419	0.2801	0.2576	0.1853	0.09934	0.06859	0.02108
0.387096774193548	0.2801	0.2575	0.1849	0.09806	0.06734	0.02064
0.419354838709677	0.2801	0.2572	0.184	0.09707	0.06688	0.01974
0.451612903225806	0.2801	0.2572	0.1834	0.0966	0.06684	0.01934
0.483870967741936	0.2801	0.2567	0.1826	0.09602	0.06642	0.01891
0.516129032258065	0.28	0.2567	0.1824	0.0957	0.06626	0.01872
0.548387096774194	0.28	0.2567	0.1824	0.09564	0.06593	0.01853

```
0.580645161290323 0.28  0.2566      0.182 0.09529     0.06572
      0.01837
0.612903225806452 0.28  0.2566      0.1819      0.09419     0.06499
      0.01821
0.645161290322581 0.28  0.2565      0.1819      0.09419     0.06471
      0.01815
0.67741935483871  0.28  0.2563      0.1813      0.09397     0.06463
      0.01801
0.709677419354839 0.28  0.2563      0.1812      0.09349     0.06426
      0.0177
0.741935483870968 0.28  0.2563      0.1808      0.09236     0.06369
      0.01757
0.774193548387097 0.28  0.2561      0.1805      0.09222     0.06335
      0.01746
0.806451612903226 0.28  0.2559      0.1797      0.09129     0.06265
      0.01725
0.838709677419355 0.28  0.2557      0.1794      0.09116     0.06213
      0.01644
0.870967741935484 0.28  0.2557      0.1793      0.08993     0.0616
      0.01619
0.903225806451613 0.28  0.2555      0.1785      0.08982     0.06135
      0.01588
0.935483870967742 0.28  0.2551      0.1769      0.08934     0.06123
      0.01546
0.967741935483871 0.28  0.2534      0.172 0.0861      0.05881
      0.01468

0.1   0.42381     0.38967     0.26575     0.18151     0.12736
      0.031922
                              Average of yearly averages:   0.022504

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

Data used for this run:
Output File: cotton G
Metfile:    w93193.dvf
PRZM scenario:    Cacotton_NirrigC.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
Application Date  Date  10-05 dd/mm or dd/mmm or dd-mm or dd-mmm
```

```
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

13) Fruit trees, ground application

```
stored as fruit.out
Chemical: oxydemeton-methyl
PRZM environment: CAfruit_NirrigC.txt     modified Thuday, 17 June 2004
at 08:14:02
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w93193.dvf     modified Wedday, 3 July 2002 at 09:04:24
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  1.892 1.778 1.384 0.9047      0.6633      0.1683
1962  1.897 1.786 1.4   0.911 0.6644      0.1685
1963  1.894 1.781 1.398 0.9339      0.6908      0.1761
1964  1.898 1.786 1.4   0.9245      0.6805      0.1728
1965  3.159 2.962 2.301 1.495 1.106 0.282
1966  1.881 1.761 1.353 0.868 0.6264      0.1579
1967  1.89  1.775 1.489 1.002 0.746 0.1901
1968  1.884 1.766 1.362 0.8857      0.6461      0.163
1969  1.895 1.782 1.392 0.9489      0.7011      0.1783
1970  4.116 3.859 3.349 2.125 1.546 0.3903
1971  1.891 1.775 1.38  0.9091      0.6709      0.171
1972  1.866 1.739 1.31  0.8431      0.6124      0.1542
1973  1.901 1.792 1.422 0.9406      0.6861      0.1731
1974  1.884 1.766 1.361 0.8893      0.6499      0.1644
1975  1.899 1.788 1.405 0.9392      0.6946      0.1766
1976  1.896 1.784 1.396 0.9251      0.6799      0.1722
1977  1.895 1.783 1.393 0.9012      0.6556      0.1659
1978  2.071 1.931 1.467 0.967 0.7081      0.1792
1979  1.88  1.759 1.348 0.8716      0.6323      0.1594
1980  1.964 1.844 1.432 0.9327      0.6814      0.1724
1981  1.889 1.773 1.391 0.9081      0.6603      0.1663
1982  1.898 1.787 1.517 1.012 0.7456      0.1895
1983  3.323 3.113 2.628 1.684 1.228 0.3105
1984  1.873 1.749 1.329 0.859 0.6214      0.1558
1985  1.892 1.778 1.385 0.8902      0.6423      0.1615
1986  2.162 2.015 1.615 1.022 0.7422      0.187
1987  1.885 1.767 1.363 0.873 0.6284      0.1581
1988  1.879 1.758 1.346 0.8849      0.6552      0.1662
1989  1.896 1.772 1.367 0.8906      0.6439      0.1625
1990  1.879 1.758 1.346 0.8623      0.6254      0.1617

Sorted results
Prob. Peak  96 hr 21 Day      60 Day      90 Day      Yearly
```

```
0.032258064516129 4.116 3.859 3.349 2.125 1.546 0.3903
0.0645161290322581      3.323 3.113 2.628 1.684 1.228 0.3105
0.0967741935483871      3.159 2.962 2.301 1.495 1.106 0.282
0.129032258064516 2.162 2.015 1.615 1.022 0.746 0.1901
0.161290322580645 2.071 1.931 1.517 1.012 0.7456      0.1895
0.193548387096774 1.964 1.844 1.489 1.002 0.7422      0.187
0.225806451612903 1.901 1.792 1.467 0.967 0.7081      0.1792
0.258064516129032 1.899 1.788 1.432 0.9489      0.7011      0.1783
0.290322580645161 1.898 1.787 1.422 0.9406      0.6946      0.1766
0.32258064516129  1.898 1.786 1.405 0.9392      0.6908      0.1761
0.354838709677419 1.897 1.786 1.4   0.9339      0.6861      0.1731
0.387096774193548 1.896 1.784 1.4   0.9327      0.6814      0.1728
0.419354838709677 1.896 1.783 1.398 0.9251      0.6805      0.1724
0.451612903225806 1.895 1.782 1.396 0.9245      0.6799      0.1722
0.483870967741936 1.895 1.781 1.393 0.911 0.6709      0.171
0.516129032258065 1.894 1.778 1.392 0.9091      0.6644      0.1685
0.548387096774194 1.892 1.778 1.391 0.9081      0.6633      0.1683
0.580645161290323 1.892 1.775 1.385 0.9047      0.6603      0.1663
0.612903225806452 1.891 1.775 1.384 0.9012      0.6556      0.1662
0.645161290322581 1.89  1.773 1.38  0.8906      0.6552      0.1659
0.67741935483871  1.889 1.772 1.367 0.8902      0.6499      0.1644
0.709677419354839 1.885 1.767 1.363 0.8893      0.6461      0.163
0.741935483870968 1.884 1.766 1.362 0.8857      0.6439      0.1625
0.774193548387097 1.884 1.766 1.361 0.8849      0.6423      0.1617
0.806451612903226 1.881 1.761 1.353 0.873 0.6323      0.1615
0.838709677419355 1.88  1.759 1.348 0.8716      0.6284      0.1594
0.870967741935484 1.879 1.758 1.346 0.868 0.6264      0.1581
0.903225806451613 1.879 1.758 1.346 0.8623      0.6254      0.1579
0.935483870967742 1.873 1.749 1.329 0.859 0.6214      0.1558
0.967741935483871 1.866 1.739 1.31  0.8431      0.6124      0.1542

0.1   3.0593      2.8673      2.2324      1.4477      1.07  0.27281
                              Average of yearly averages:   0.18516

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

Data used for this run:
Output File: fruit
Metfile:    w93193.dvf
PRZM scenario:    CAfruit_NirrigC.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.42  kg/ha
```

```
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

14) Grapes, ground application

```
stored as grapes.out
Chemical: oxydemeton-methyl
PRZM environment: CAgrapes_NirrigC.txt    modified Thuday, 17 June 2004
at 08:13:38
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w93193.dvf     modified Wedday, 3 July 2002 at 09:04:24
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  1.892 1.778 1.384 0.9047      0.6633      0.1684
1962  1.897 1.786 1.4   0.911 0.6644      0.1685
1963  1.894 1.781 1.411 0.9453      0.6998      0.1785
1964  1.898 1.786 1.4   0.9245      0.6805      0.1728
1965  3.468 3.252 2.511 1.618 1.199 0.3058
1966  1.881 1.761 1.353 0.868 0.6264      0.1579
1967  1.89  1.775 1.425 0.954 0.7081      0.1803
1968  1.884 1.766 1.367 0.8888      0.6484      0.1636
1969  1.895 1.782 1.392 0.9373      0.6902      0.1753
1970  3.728 3.496 2.998 1.912 1.392 0.3515
1971  1.891 1.775 1.38  0.9102      0.6725      0.1714
1972  1.866 1.739 1.31  0.8431      0.6124      0.1542
1973  1.901 1.792 1.423 0.9409      0.6863      0.1732
1974  1.885 1.767 1.362 0.8906      0.651 0.1647
1975  1.899 1.788 1.404 0.9391      0.6945      0.1766
1976  1.896 1.784 1.396 0.9251      0.6799      0.1722
1977  1.895 1.783 1.393 0.9012      0.6556      0.1659
1978  1.944 1.812 1.37  0.9004      0.6586      0.1666
1979  1.879 1.759 1.348 0.8715      0.6323      0.1594
1980  1.917 1.8   1.398 0.9112      0.6657      0.1684
1981  1.889 1.773 1.385 0.9028      0.6563      0.1653
1982  1.898 1.787 1.442 0.9572      0.7037      0.1788
1983  3.037 2.845 2.367 1.523 1.111 0.2809
1984  1.873 1.749 1.329 0.859 0.6214      0.1558
1985  1.892 1.778 1.385 0.8902      0.6423      0.1615
1986  1.907 1.821 1.431 0.9115      0.6604      0.1663
1987  1.887 1.769 1.365 0.8741      0.6292      0.1584
1988  1.879 1.758 1.346 0.8836      0.6528      0.1655
```

1989 1.96 1.831 1.414 0.9257 0.6693 0.1689
1990 1.879 1.758 1.346 0.8623 0.6248 0.1603

Sorted results
Prob. Peak 96 hr 21 Day 60 Day 90 Day Yearly
0.032258064516129 3.728 3.496 2.998 1.912 1.392 0.3515
0.0645161290322581 3.468 3.252 2.511 1.618 1.199 0.3058
0.0967741935483871 3.037 2.845 2.367 1.523 1.111 0.2809
0.129032258064516 1.96 1.831 1.442 0.9572 0.7081 0.1803
0.161290322580645 1.944 1.821 1.431 0.954 0.7037 0.1788
0.193548387096774 1.917 1.812 1.425 0.9453 0.6998 0.1785
0.225806451612903 1.907 1.8   1.423 0.9409 0.6945 0.1766
0.258064516129032 1.901 1.792 1.414 0.9391 0.6902 0.1753
0.290322580645161 1.899 1.788 1.411 0.9373 0.6863 0.1732
0.32258064516129 1.898 1.787 1.404 0.9257 0.6805 0.1728
0.354838709677419 1.898 1.786 1.4   0.9251 0.6799 0.1722
0.387096774193548 1.897 1.786 1.4   0.9245 0.6725 0.1714
0.419354838709677 1.896 1.784 1.398 0.9115 0.6693 0.1689
0.451612903225806 1.895 1.783 1.396 0.9112 0.6657 0.1685
0.483870967741936 1.895 1.782 1.393 0.911 0.6644 0.1684
0.516129032258065 1.894 1.781 1.392 0.9102 0.6633 0.1684
0.548387096774194 1.892 1.778 1.385 0.9047 0.6604 0.1666
0.580645161290323 1.892 1.778 1.385 0.9028 0.6586 0.1663
0.612903225806452 1.891 1.775 1.384 0.9012 0.6563 0.1659
0.645161290322581 1.89 1.775 1.38 0.9004 0.6556 0.1655
0.67741935483871 1.889 1.773 1.37 0.8906 0.6528 0.1653
0.709677419354839 1.887 1.769 1.367 0.8902 0.651 0.1647
0.741935483870968 1.885 1.767 1.365 0.8888 0.6484 0.1636
0.774193548387097 1.884 1.766 1.362 0.8836 0.6423 0.1615
0.806451612903226 1.881 1.761 1.353 0.8741 0.6323 0.1603
0.838709677419355 1.879 1.759 1.348 0.8715 0.6292 0.1594
0.870967741935484 1.879 1.758 1.346 0.868 0.6264 0.1584
0.903225806451613 1.879 1.758 1.346 0.8623 0.6248 0.1579
0.935483870967742 1.873 1.749 1.329 0.859 0.6214 0.1558
0.967741935483871 1.866 1.739 1.31 0.8431 0.6124 0.1542

0.1   2.9293 2.7436 2.2745 1.46642 1.07071
      0.27084
                        Average of yearly averages:
      0.181896666666667

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

Data used for this run:
Output File: grapes
Metfile: w93193.dvf
PRZM scenario: CAgrapes_NirrigC.txt
EXAMS environment file: pond298.exv
Chemical Name: oxydemeton-methyl
Description Variable Name Value Units Comments
Molecular weight mwt 246.29 g/mol
Henry's Law Const. henry atm-m^3/mol
Vapor Pressure vapr 2.8E-5 torr
Solubility sol 1000000 mg/L
Kd Kd 0.01 mg/L
Koc Koc mg/L
Photolysis half-life kdp 136 days Half-life

```
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.42  kg/ha
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

15) Lettuce, aerial application

```
stored as lettuce.out
Chemical: oxydemeton-methyl
PRZM environment: CAlettuceC.txt    modified Monday, 11 October 2004 at
15:23:40
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23273.dvf     modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  2.526 2.376 1.895 1.264 0.9461      0.2475
1962  2.818 2.657 2.095 1.398 1.047 0.2746
1963  9.911 9.334 7.437 4.704 3.6   0.9628
1964  3.702 3.569 2.934 2.164 1.71  0.4598
1965  2.592 2.435 1.9   1.43  1.11  0.2962
1966  2.52  2.367 1.838 1.214 0.9022      0.2352
1967  4.694 4.439 3.517 2.327 1.78  0.4712
1968  6.207 5.821 4.505 2.935 2.229 0.5844
1969  2.522 2.37  1.844 1.586 1.272 0.3435
1970  9.582 8.979 8.02  5.025 3.701 0.9614
1971  2.525 2.374 1.852 1.276 0.9921      0.2943
1972  2.515 2.359 1.824 1.206 0.8983      0.2338
1973  4.326 4.081 3.797 2.543 1.935 0.5089
1974  17.56 16.53 13.7  8.797 6.539 1.708
1975  4.488 4.232 3.362 2.164 1.63  0.4287
1976  4.296 4.035 3.355 2.287 1.749 0.4601
1977  8.923 8.393 6.556 4.098 3.246 0.8875
1978  8.136 7.617 6.085 3.964 2.96  0.7727
1979  2.521 2.368 1.985 1.49  1.138 0.3002
1980  3.196 3.006 2.369 1.578 1.19  0.3118
1981  15.33 14.68 13.01 8.721 6.491 1.687
```

1982 3.031 2.911 2.492 1.778 1.356 0.3577
1983 7.114 6.676 5.95 3.886 2.882 0.7473
1984 2.704 2.54 2.171 1.452 1.09 0.2831
1985 2.665 2.509 1.969 1.302 0.9692   0.2517
1986 10.52 10.12 8.169 5.015 3.736 0.9813
1987 10.8 10.17 8.558 5.355 3.97 1.036
1988 2.843 2.723 2.258 1.663 1.524 0.439
1989 2.544 2.388 1.853 1.22 0.9049   0.2355
1990 2.528 2.378 1.859 1.232 0.9169   0.2389

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	17.56	16.53	13.7	8.797	6.539	1.708
0.0645161290322581		15.33	14.68	13.01	8.721	6.491	1.687
0.0967741935483871		10.8	10.17	8.558	5.355	3.97	1.036
0.129032258064516	10.52	10.12	8.169	5.025	3.736	0.9813
0.161290322580645	9.911	9.334	8.02	5.015	3.701	0.9628
0.193548387096774	9.582	8.979	7.437	4.704	3.6	0.9614
0.225806451612903	8.923	8.393	6.556	4.098	3.246	0.8875
0.258064516129032	8.136	7.617	6.085	3.964	2.96	0.7727
0.290322580645161	7.114	6.676	5.95	3.886	2.882	0.7473
0.32258064516129	6.207	5.821	4.505	2.935	2.229	0.5844
0.354838709677419	4.694	4.439	3.797	2.543	1.935	0.5089
0.387096774193548	4.488	4.232	3.517	2.327	1.78	0.4712
0.419354838709677	4.326	4.081	3.362	2.287	1.749	0.4601
0.451612903225806	4.296	4.035	3.355	2.164	1.71	0.4598
0.483870967741936	3.702	3.569	2.934	2.164	1.63	0.439
0.516129032258065	3.196	3.006	2.492	1.778	1.524	0.4287
0.548387096774194	3.031	2.911	2.369	1.663	1.356	0.3577
0.580645161290323	2.843	2.723	2.258	1.586	1.272	0.3435
0.612903225806452	2.818	2.657	2.171	1.578	1.19	0.3118
0.645161290322581	2.704	2.54	2.095	1.49	1.138	0.3002
0.67741935483871	2.665	2.509	1.985	1.452	1.11	0.2962
0.709677419354839	2.592	2.435	1.969	1.43	1.09	0.2943
0.741935483870968	2.544	2.388	1.9	1.398	1.047	0.2831
0.774193548387097	2.528	2.378	1.895	1.302	0.9921	0.2746
0.806451612903226	2.526	2.376	1.859	1.276	0.9692	0.2517
0.838709677419355	2.525	2.374	1.853	1.264	0.9461	0.2475
0.870967741935484	2.522	2.37	1.852	1.232	0.9169	0.2389
0.903225806451613	2.521	2.368	1.844	1.22	0.9049	0.2355
0.935483870967742	2.52	2.367	1.838	1.214	0.9022	0.2352
0.967741935483871	2.515	2.359	1.824	1.206	0.8983	0.2338

0.1	10.772	10.165	8.5191	5.322	3.9466	1.03053
			Average of yearly averages:			0.56667

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

Data used for this run:
Output File: lettuce
Metfile: w23273.dvf
PRZM scenario: CAlettuceC.txt
EXAMS environment file: pond298.exv
Chemical Name: oxydemeton-methyl

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	246.29	g/mol	
Henry's Law Const.	henry		atm-m^3/mol	

```
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

16) Lettuce, ground application

```
stored as lettuce G.out
Chemical: oxydemeton-methyl
PRZM environment: CAlettuceC.txt    modified Monday, 11 October 2004 at
15:23:40
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23273.dvf     modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  0.5053      0.4752      0.4119      0.2774      0.2086
      0.0547
1962  0.8008      0.7549      0.6091      0.3961      0.2967
      0.07784
1963  8.652 8.029 6.407 4.01  2.959 0.783
1964  2.476 2.377 1.998 1.272 0.9761      0.2669
1965  0.756 0.726 0.5786      0.4658      0.388 0.1073
1966  0.5041      0.4733      0.3676      0.2428      0.1804
      0.04705
1967  2.957 2.807 2.246 1.429 1.071 0.2854
1968  4.668 4.378 3.39  2.11  1.575 0.4137
1969  1.496 1.404 1.086 0.6652      0.5547      0.1564
1970  8.657 8.111 6.874 4.227 3.107 0.8061
1971  0.5215      0.49  0.3779      0.2869      0.2639      0.1005
1972  0.5031      0.4719      0.3648      0.2412      0.1797
      0.0468
```

1973 2.991 2.826 2.396 1.658 1.236 0.3267
1974 17.12 16.12 12.77 8.126 6.036 1.576
1975 2.55 2.411 1.951 1.227 0.9171 0.2416
1976 2.506 2.354 1.99 1.357 1.05 0.2781
1977 7.635 7.181 5.609 3.489 2.676 0.7213
1978 6.436 6.026 4.847 3.142 2.341 0.6111
1979 0.9749 0.9358 0.7431 0.5298 0.4196
0.1129
1980 1.202 1.131 0.9273 0.6031 0.4627 0.1222
1981 14.79 14.19 12.06 8.052 5.991 1.557
1982 1.594 1.515 1.249 0.8185 0.633 0.169
1983 6.075 5.704 4.71 3.027 2.241 0.5806
1984 1.006 0.9447 0.7344 0.4815 0.3662 0.0957
1985 0.6454 0.6077 0.478 0.3117 0.2323 0.06036
1986 8.916 8.557 6.973 4.289 3.159 0.8238
1987 9.678 9.19 7.371 4.584 3.371 0.8762
1988 2.464 2.352 1.966 1.201 0.878 0.2615
1989 0.529 0.4967 0.3855 0.2549 0.1889 0.04918
1990 0.5055 0.4755 0.3719 0.2464 0.1834
0.04792

Sorted results
Prob. Peak 96 hr 21 Day 60 Day 90 Day Yearly
0.032258064516129 17.12 16.12 12.77 8.126 6.036 1.576
0.0645161290322581 14.79 14.19 12.06 8.052 5.991 1.557
0.0967741935483871 9.678 9.19 7.371 4.584 3.371 0.8762
0.129032258064516 8.916 8.557 6.973 4.289 3.159 0.8238
0.161290322580645 8.657 8.111 6.874 4.227 3.107 0.8061
0.193548387096774 8.652 8.029 6.407 4.01 2.959 0.783
0.225806451612903 7.635 7.181 5.609 3.489 2.676 0.7213
0.258064516129032 6.436 6.026 4.847 3.142 2.341 0.6111
0.290322580645161 6.075 5.704 4.71 3.027 2.241 0.5806
0.32258064516129 4.668 4.378 3.39 2.11 1.575 0.4137
0.354838709677419 2.991 2.826 2.396 1.658 1.236 0.3267
0.387096774193548 2.957 2.807 2.246 1.429 1.071 0.2854
0.419354838709677 2.55 2.411 1.998 1.357 1.05 0.2781
0.451612903225806 2.506 2.377 1.99 1.272 0.9761 0.2669
0.483870967741936 2.476 2.354 1.966 1.227 0.9171 0.2615
0.516129032258065 2.464 2.352 1.951 1.201 0.878 0.2416
0.548387096774194 1.594 1.515 1.249 0.8185 0.633 0.169
0.580645161290323 1.496 1.404 1.086 0.6652 0.5547 0.1564
0.612903225806452 1.202 1.131 0.9273 0.6031 0.4627
0.1222
0.645161290322581 1.006 0.9447 0.7431 0.5298 0.4196
0.1129
0.67741935483871 0.9749 0.9358 0.7344 0.4815 0.388
0.1073
0.709677419354839 0.8008 0.7549 0.6091 0.4658
0.3662 0.1005
0.741935483870968 0.756 0.726 0.5786 0.3961 0.2967
0.0957
0.774193548387097 0.6454 0.6077 0.478 0.3117 0.2639
0.07784
0.806451612903226 0.529 0.4967 0.4119 0.2869 0.2323
0.06036
0.838709677419355 0.5215 0.49 0.3855 0.2774 0.2086
0.0547

```
0.870967741935484 0.5055      0.4755      0.3779      0.2549
      0.1889      0.04918
0.903225806451613 0.5053      0.4752      0.3719      0.2464
      0.1834      0.04792
0.935483870967742 0.5041      0.4733      0.3676      0.2428
      0.1804      0.04705
0.967741935483871 0.5031      0.4719      0.3648      0.2412
      0.1797      0.0468

0.1   9.6018      9.1267      7.3312      4.5545      3.3498
      0.87096
                              Average of yearly averages:
      0.388561666666667

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

Data used for this run:
Output File: lettuce G
Metfile:    w23273.dvf
PRZM scenario:    CAlettuceC.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

17) Melons, aerial application

```
stored as melons.out
```

Chemical: oxydemeton-methyl
PRZM environment: CAMelons no_irrig.txt modified Monday, 16 April 2007 at 08:58:00
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w93193.dvf modified Wedday, 3 July 2002 at 09:04:24
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	1.4	1.297	0.9366	0.4674	0.3199	0.07935
1962	1.4	1.295	0.934	0.4765	0.3275	0.08137
1963	1.4	1.29	0.9254	0.4837	0.3345	0.08327
1964	1.4	1.294	0.9349	0.4848	0.3337	0.08273
1965	1.4	1.288	0.9211	0.4854	0.3355	0.0835
1966	1.4	1.279	0.89	0.4479	0.3081	0.07651
1967	1.4	1.286	0.9127	0.4697	0.3219	0.07981
1968	1.4	1.287	0.9095	0.454	0.3109	0.07713
1969	1.4	1.281	0.9009	0.4688	0.323	0.0803
1970	1.4	1.279	0.8893	0.4469	0.3059	0.0759
1971	1.488	1.379	1.154	0.6213	0.4279	0.1063
1972	1.4	1.282	0.907	0.4715	0.3239	0.08023
1973	1.4	1.275	0.8751	0.432	0.2961	0.0736
1974	1.4	1.283	0.9	0.4501	0.3086	0.07661
1975	1.4	1.285	0.9077	0.4645	0.3204	0.07972
1976	1.4	1.282	0.9042	0.4683	0.3233	0.0804
1977	1.4	1.297	0.9335	0.4608	0.315	0.07811
1978	1.4	1.281	0.8965	0.4506	0.3086	0.07836
1979	1.4	1.279	0.8861	0.4391	0.3005	0.07454
1980	1.4	1.29	0.9248	0.4784	0.3282	0.0812
1981	1.4	1.28	0.8829	0.4207	0.286	0.0708
1982	1.4	1.284	0.9086	0.4725	0.3255	0.08104
1983	1.4	1.283	0.8997	0.4547	0.3128	0.07764
1984	1.4	1.267	0.8563	0.422	0.2872	0.07088
1985	1.4	1.283	0.89	0.4262	0.2896	0.07174
1986	1.4	1.277	0.8799	0.4304	0.294	0.07284
1987	1.4	1.277	0.8808	0.4363	0.3001	0.07454
1988	1.4	1.29	0.9202	0.4673	0.3192	0.07889
1989	1.4	1.283	0.9006	0.4516	0.3091	0.0768
1990	1.528	1.404	1.157	0.6182	0.4241	0.1052

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	1.528	1.404	1.157	0.6213	0.4279	0.1063
0.0645161290322581	1.488	1.379	1.154	0.6182	0.4241	0.1052
0.0967741935483871	1.4	1.297	0.9366	0.4854	0.3355	0.0835
0.129032258064516	1.4	1.297	0.9349	0.4848	0.3345	0.08327
0.161290322580645	1.4	1.295	0.934	0.4837	0.3337	0.08273
0.193548387096774	1.4	1.294	0.9335	0.4784	0.3282	0.08137
0.225806451612903	1.4	1.29	0.9254	0.4765	0.3275	0.0812
0.258064516129032	1.4	1.29	0.9248	0.4725	0.3255	0.08104

```
0.290322580645161 1.4   1.29  0.9211      0.4715      0.3239
      0.0804
0.32258064516129  1.4   1.288 0.9202      0.4697      0.3233
      0.0803
0.354838709677419 1.4   1.287 0.9127      0.4688      0.323 0.08023
0.387096774193548 1.4   1.286 0.9095      0.4683      0.3219
      0.07981
0.419354838709677 1.4   1.285 0.9086      0.4674      0.3204
      0.07972
0.451612903225806 1.4   1.284 0.9077      0.4673      0.3199
      0.07935
0.483870967741936 1.4   1.283 0.907 0.4645      0.3192      0.07889
0.516129032258065 1.4   1.283 0.9042      0.4608      0.315 0.07836
0.548387096774194 1.4   1.283 0.9009      0.4547      0.3128
      0.07811
0.580645161290323 1.4   1.283 0.9006      0.454 0.3109      0.07764
0.612903225806452 1.4   1.282 0.9   0.4516      0.3091      0.07713
0.645161290322581 1.4   1.282 0.8997      0.4506      0.3086
      0.0768
0.67741935483871  1.4   1.281 0.8965      0.4501      0.3086
      0.07661
0.709677419354839 1.4   1.281 0.89  0.4479      0.3081      0.07651
0.741935483870968 1.4   1.28  0.89  0.4469      0.3059      0.0759
0.774193548387097 1.4   1.279 0.8893      0.4391      0.3005
      0.07454
0.806451612903226 1.4   1.279 0.8861      0.4363      0.3001
      0.07454
0.838709677419355 1.4   1.279 0.8829      0.432 0.2961      0.0736
0.870967741935484 1.4   1.277 0.8808      0.4304      0.294 0.07284
0.903225806451613 1.4   1.277 0.8799      0.4262      0.2896
      0.07174
0.935483870967742 1.4   1.275 0.8751      0.422 0.2872      0.07088
0.967741935483871 1.4   1.267 0.8563      0.4207      0.286 0.0708

0.1   1.4   1.297 0.93643     0.48534     0.3354      0.083477
                              Average of yearly averages:
      0.0796436666666667

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

Data used for this run:
Output File: melons
Metfile:    w93193.dvf
PRZM scenario:    CAMelons no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
```

```
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  20-05 dd/mm or dd/mmm or dd-mm or dd-mmm
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

18) Melons, ground application

```
stored as melons G.out
Chemical: oxydemeton-methyl
PRZM environment: CAMelons no_irrig.txt   modified Monday, 16 April
2007 at 08:58:00
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w93193.dvf     modified Wedday, 3 July 2002 at 09:04:24
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  0.28  0.2594      0.1873      0.09348     0.06397     0.01587
1962  0.28  0.2589      0.1868      0.09531     0.0655      0.01628
1963  0.28  0.258 0.1851      0.09674     0.06691     0.01666
1964  0.28  0.2587      0.187 0.09696     0.06675     0.01655
1965  0.28  0.2575      0.1842      0.09708     0.0671      0.0167
1966  0.28  0.2558      0.178 0.08959     0.06162     0.0153
1967  0.28  0.2572      0.1825      0.09393     0.06438     0.01596
1968  0.28  0.2574      0.1819      0.09079     0.06218     0.01553
1969  0.28  0.2561      0.1802      0.09376     0.0646      0.01607
1970  0.28  0.2557      0.1779      0.08938     0.06118     0.01518
1971  0.6509      0.6032      0.4217      0.2378      0.1645
      0.04092
1972  0.28  0.2563      0.1914      0.1149      0.07959     0.01975
1973  0.28  0.2549      0.175 0.08641     0.05921     0.01479
1974  0.28  0.2567      0.18  0.09002     0.06172     0.01534
1975  0.28  0.2569      0.1815      0.09289     0.06407     0.01595
1976  0.28  0.2565      0.1808      0.09365     0.06465     0.01611
1977  0.28  0.2594      0.1867      0.09216     0.06299     0.01562
1978  0.28  0.2563      0.1793      0.09012     0.06171     0.01721
1979  0.28  0.2557      0.1772      0.08782     0.06009     0.01494
1980  0.28  0.258 0.185 0.09568     0.06563     0.01624
1981  0.28  0.2561      0.1766      0.08413     0.0572      0.01416
1982  0.28  0.2567      0.1817      0.09451     0.0651      0.01633
1983  0.28  0.2565      0.1799      0.09094     0.06255     0.01555
1984  0.28  0.2534      0.1713      0.0844      0.05743     0.01418
1985  0.28  0.2565      0.178 0.08525     0.05792     0.01437
```

1986	0.28	0.2554	0.176	0.08608	0.0588	0.01457	
1987	0.28	0.2554	0.1762	0.08725	0.06002	0.01491	
1988	0.28	0.2579	0.184	0.09346	0.06384	0.01578	
1989	0.28	0.2566	0.1801	0.09032	0.06182	0.01545	
1990	0.757	0.6955	0.4716	0.2595	0.1789	0.04445	

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	0.757	0.6955	0.4716	0.2595	0.1789	0.04445	
0.0645161290322581		0.6509	0.6032	0.4217	0.2378	0.1645	0.04092
0.0967741935483871		0.28	0.2594	0.1914	0.1149	0.07959	0.01975
0.129032258064516	0.28	0.2594	0.1873	0.09708	0.0671	0.01721	
0.161290322580645	0.28	0.2589	0.187	0.09696	0.06691	0.0167	
0.193548387096774	0.28	0.2587	0.1868	0.09674	0.06675	0.01666	
0.225806451612903	0.28	0.258	0.1867	0.09568	0.06563	0.01655	
0.258064516129032	0.28	0.258	0.1851	0.09531	0.0655	0.01633	
0.290322580645161	0.28	0.2579	0.185	0.09451	0.0651	0.01628	
0.32258064516129	0.28	0.2575	0.1842	0.09393	0.06465	0.01624	
0.354838709677419	0.28	0.2574	0.184	0.09376	0.0646	0.01611	
0.387096774193548	0.28	0.2572	0.1825	0.09365	0.06438	0.01607	
0.419354838709677	0.28	0.2569	0.1819	0.09348	0.06407	0.01596	
0.451612903225806	0.28	0.2567	0.1817	0.09346	0.06397	0.01595	
0.483870967741936	0.28	0.2567	0.1815	0.09289	0.06384	0.01587	
0.516129032258065	0.28	0.2566	0.1808	0.09216	0.06299	0.01578	
0.548387096774194	0.28	0.2565	0.1802	0.09094	0.06255	0.01562	
0.580645161290323	0.28	0.2565	0.1801	0.09079	0.06218	0.01555	
0.612903225806452	0.28	0.2565	0.18	0.09032	0.06182	0.01553	
0.645161290322581	0.28	0.2563	0.1799	0.09012	0.06172	0.01545	
0.67741935483871	0.28	0.2563	0.1793	0.09002	0.06171	0.01534	
0.709677419354839	0.28	0.2561	0.178	0.08959	0.06162	0.0153	
0.741935483870968	0.28	0.2561	0.178	0.08938	0.06118	0.01518	
0.774193548387097	0.28	0.2558	0.1779	0.08782	0.06009	0.01494	

```
0.806451612903226 0.28  0.2557      0.1772      0.08725     0.06002
      0.01491
0.838709677419355 0.28  0.2557      0.1766      0.08641     0.05921
      0.01479
0.870967741935484 0.28  0.2554      0.1762      0.08608     0.0588
      0.01457
0.903225806451613 0.28  0.2554      0.176 0.08525     0.05792
      0.01437
0.935483870967742 0.28  0.2549      0.175 0.0844      0.05743
      0.01418
0.967741935483871 0.28  0.2534      0.1713      0.08413     0.0572
      0.01416

0.1   0.28  0.2594      0.19099     0.113118    0.078341    0.019496
                              Average of yearly averages:
      0.0175573333333333

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

Data used for this run:
Output File: melons G
Metfile:    w93193.dvf
PRZM scenario:    CAMelons no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
Application Date  Date  20-05 dd/mm or dd/mmm or dd-mm or dd-mmm
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

19) Nursery, ground application

stored as nursery G.out
Chemical: oxydemeton-methyl
PRZM environment: CAnursery no_irrig.txt modified Monday, 16 April 2007 at 14:26:46
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w23188.dvf modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.4303		0.4016	0.3078	0.1975	0.1446
	0.03711					
1962	0.3771		0.3535	0.2729	0.1781	0.131 0.03372
1963	0.4817		0.4504	0.3685	0.254 0.1904	0.05031
1964	0.3753		0.3508	0.2717	0.1788	0.132 0.03399
1965	1.839	1.718	1.31	0.7874	0.5831	0.1514
1966	0.3756		0.3513	0.2687	0.1744	0.128 0.05061
1967	0.376	0.3508	0.2916	0.1972	0.1475	0.03934
1968	7.504	6.982	5.241	3.025	2.175	0.5547
1969	0.3759		0.3517	0.27	0.1752	0.1284 0.0333
1970	0.6042		0.5629	0.4642	0.2905	0.2117
	0.05441					
1971	0.3759		0.3516	0.2691	0.2062	0.167 0.04595
1972	0.3737		0.3483	0.263	0.1691	0.1234 0.03175
1973	0.6235		0.5825	0.464	0.2996	0.2225 0.05742
1974	1.335	1.246	0.9467	0.5564	0.4106	0.1079
1975	1.264	1.204	0.9864	0.6105	0.4531	0.1174
1976	1.459	1.359	1.135	0.724	0.5433	0.1419
1977	0.5262		0.4894	0.3667	0.2094	0.2101
	0.07033					
1978	2.607	2.418	2.172	1.333	0.9617	0.2438
1979	1.351	1.259	1.093	0.6964	0.5056	0.1288
1980	3.134	2.914	2.181	1.252	0.9095	0.2329
1981	7.712	7.175	5.547	3.298	2.371	0.6003
1982	1.843	1.716	1.39	0.8174	0.6041	0.1562
1983	3.913	3.682	2.976	1.819	1.315	0.3342
1984	0.3704		0.3434	0.2542	0.166 0.1211	0.03073
1985	0.3744		0.3494	0.2652	0.1704	0.1242
	0.04891					
1986	1.089	1.015	0.8238	0.4955	0.366	0.09721
1987	0.3769		0.3517	0.2669	0.2004	0.1516
	0.04148					
1988	0.6785		0.6387	0.4847	0.3029	0.2797
	0.07929					
1989	0.6782		0.6327	0.4717	0.324 0.2494	0.06511
1990	0.3751		0.3504	0.2671	0.1725	0.1263
	0.03321					

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	7.712	7.175	5.547	3.298	2.371	0.6003
0.0645161290322581	7.504	6.982	5.241	3.025	2.175	0.5547
0.0967741935483871	3.913	3.682	2.976	1.819	1.315	0.3342
0.129032258064516	3.134	2.914	2.181	1.333	0.9617	0.2438
0.161290322580645	2.607	2.418	2.172	1.252	0.9095	0.2329
0.193548387096774	1.843	1.718	1.39	0.8174	0.6041	0.1562
0.225806451612903	1.839	1.716	1.31	0.7874	0.5831	0.1514

```
0.258064516129032 1.459 1.359 1.135 0.724 0.5433      0.1419
0.290322580645161 1.351 1.259 1.093 0.6964      0.5056      0.1288
0.32258064516129  1.335 1.246 0.9864      0.6105      0.4531
      0.1174
0.354838709677419 1.264 1.204 0.9467      0.5564      0.4106
      0.1079
0.387096774193548 1.089 1.015 0.8238      0.4955      0.366 0.09721
0.419354838709677 0.6785      0.6387      0.4847      0.324 0.2797
      0.07929
0.451612903225806 0.6782      0.6327      0.4717      0.3029
      0.2494      0.07033
0.483870967741936 0.6235      0.5825      0.4642      0.2996
      0.2225      0.06511
0.516129032258065 0.6042      0.5629      0.464 0.2905      0.2117
      0.05742
0.548387096774194 0.5262      0.4894      0.3685      0.254 0.2101
      0.05441
0.580645161290323 0.4817      0.4504      0.3667      0.2094
      0.1904      0.05061
0.612903225806452 0.4303      0.4016      0.3078      0.2062      0.167
      0.05031
0.645161290322581 0.3771      0.3535      0.2916      0.2004
      0.1516      0.04891
0.67741935483871  0.3769      0.3517      0.2729      0.1975
      0.1475      0.04595
0.709677419354839 0.376 0.3517      0.2717      0.1972      0.1446
      0.04148
0.741935483870968 0.3759      0.3516      0.27  0.1788      0.132
      0.03934
0.774193548387097 0.3759      0.3513      0.2691      0.1781      0.131
      0.03711
0.806451612903226 0.3756      0.3508      0.2687      0.1752
      0.1284      0.03399
0.838709677419355 0.3753      0.3508      0.2671      0.1744      0.128
      0.03372
0.870967741935484 0.3751      0.3504      0.2669      0.1725
      0.1263      0.0333
0.903225806451613 0.3744      0.3494      0.2652      0.1704
      0.1242      0.03321
0.935483870967742 0.3737      0.3483      0.263 0.1691      0.1234
      0.03175
0.967741935483871 0.3704      0.3434      0.2542      0.166 0.1211
      0.03073

0.1   3.8351      3.6052      2.8965      1.7704      1.27967
      0.32516
                              Average of yearly averages:   0.123456

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

Data used for this run:
Output File: nursery G
Metfile:    w23188.dvf
PRZM scenario:    CAnursery no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
```

```
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.42  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

20) Onion, aerial application

```
stored as onion.out
Chemical: oxydemeton-methyl
PRZM environment: CAonion_NirrigC.txt     modified Tueday, 8 June 2004
at 11:01:56
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23155.dvf     modified Wedday, 3 July 2002 at 09:04:20
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  2.286 2.143 1.651 1.138 0.84  0.2128
1962  2.302 2.163 1.681 1.152 0.8475      0.215
1963  2.287 2.144 1.797 1.305 0.9886      0.2531
1964  2.29  2.148 1.66  1.152 0.8533      0.2164
1965  2.59  2.424 1.873 1.324 0.9879      0.2519
1966  2.269 2.121 1.617 1.105 0.8046      0.203
1967  2.285 2.142 1.653 1.212 0.9206      0.2354
1968  2.385 2.223 1.707 1.206 0.8888      0.2241
1969  2.279 2.134 1.639 1.222 0.9119      0.2311
1970  2.257 2.107 1.598 1.114 0.8189      0.2065
1971  2.265 2.116 1.612 1.118 0.833 0.2188
1972  2.221 2.06  1.528 1.054 0.7704      0.2533
1973  2.99  2.807 2.286 1.527 1.129 0.2846
1974  2.782 2.595 1.986 1.368 1.002 0.2528
```

1975 2.273 2.126 1.628 1.141 0.8445   0.2135
1976 2.271 2.124 1.624 1.129 0.8302   0.2089
1977 2.293 2.152 1.926 1.329 0.9866   0.2504
1978 2.245 2.086 1.713 1.186 0.8769   0.2217
1979 2.266 2.117 1.621 1.119 0.8185   0.206
1980 2.376 2.228 1.719 1.197 0.887 0.2252
1981 2.277 2.131 1.669 1.152 0.8448   0.2129
1982 2.386 2.278 1.822 1.256 0.9235   0.2337
1983 2.664 2.497 1.939 1.431 1.06 0.2696
1984 2.273 2.126 1.628 1.139 0.8424   0.2129
1985 2.298 2.159 1.674 1.146 0.8399   0.2123
1986 2.398 2.239 1.701 1.185 0.874 0.2214
1987 2.277 2.131 1.632 1.113 0.8096   0.2042
1988 2.264 2.114 1.605 1.122 0.8352   0.2118
1989 2.252 2.1   1.603 1.091 0.7943   0.2007
1990 2.262 2.112 1.604 1.098 0.8028   0.2031

Sorted results

Prob. Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	2.99	2.807	2.286	1.527	1.129 0.2846
0.0645161290322581		2.782	2.595	1.986	1.431 1.06 0.2696
0.0967741935483871		2.664	2.497	1.939	1.368 1.002 0.2533
0.129032258064516	2.59	2.424	1.926	1.329	0.9886 0.2531
0.161290322580645	2.398	2.278	1.873	1.324	0.9879 0.2528
0.193548387096774	2.386	2.239	1.822	1.305	0.9866 0.2519
0.225806451612903	2.385	2.228	1.797	1.256	0.9235 0.2504
0.258064516129032	2.376	2.223	1.719	1.222	0.9206 0.2354
0.290322580645161	2.302	2.163	1.713	1.212	0.9119 0.2337
0.32258064516129	2.298	2.159	1.707	1.206	0.8888 0.2311
0.354838709677419	2.293	2.152	1.701	1.197	0.887 0.2252
0.387096774193548	2.29	2.148	1.681	1.186	0.8769 0.2241
0.419354838709677	2.287	2.144	1.674	1.185	0.874 0.2217
0.451612903225806	2.286	2.143	1.669	1.152	0.8533 0.2214
0.483870967741936	2.285	2.142	1.66	1.152	0.8475 0.2188
0.516129032258065	2.279	2.134	1.653	1.152	0.8448 0.2164
0.548387096774194	2.277	2.131	1.651	1.146	0.8445 0.215
0.580645161290323	2.277	2.131	1.639	1.141	0.8424 0.2135
0.612903225806452	2.273	2.126	1.632	1.139	0.84 0.2129
0.645161290322581	2.273	2.126	1.628	1.138	0.8399 0.2129
0.67741935483871	2.271	2.124	1.628	1.129	0.8352 0.2128
0.709677419354839	2.269	2.121	1.624	1.122	0.833 0.2123
0.741935483870968	2.266	2.117	1.621	1.119	0.8302 0.2118
0.774193548387097	2.265	2.116	1.617	1.118	0.8189 0.2089
0.806451612903226	2.264	2.114	1.612	1.114	0.8185 0.2065
0.838709677419355	2.262	2.112	1.605	1.113	0.8096 0.206
0.870967741935484	2.257	2.107	1.604	1.105	0.8046 0.2042
0.903225806451613	2.252	2.1	1.603	1.098	0.8028 0.2031
0.935483870967742	2.245	2.086	1.598	1.091	0.7943 0.203
0.967741935483871	2.221	2.06	1.528	1.054	0.7704 0.2007

0.1	2.6566	2.4897	1.9377	1.3641	1.00066
	0.25328				

Average of yearly averages: 0.22557

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

Data used for this run:

```
Output File: onion
Metfile:    w23155.dvf
PRZM scenario:    CAonion_NirrigC.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    14    days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

21) Onion, ground application

```
stored as onion G.out
Chemical: oxydemeton-methyl
PRZM environment: CAonion_NirrigC.txt     modified Tueday, 8 June 2004
at 11:01:56
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23155.dvf     modified Wedday, 3 July 2002 at 09:04:20
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  0.4571      0.4285      0.3301      0.2276      0.168 0.04257
1962  0.4604      0.4327      0.3362      0.2304      0.1695
      0.04301
1963  0.74  0.6938      0.532 0.3795      0.2987      0.07724
1964  0.458 0.4296      0.3319      0.2304      0.1707      0.04327
1965  0.7824      0.7323      0.5854      0.4244      0.323 0.08283
1966  0.4538      0.4242      0.3235      0.2209      0.1609
      0.04061
```

1967 0.457 0.4284 0.3309 0.2721 0.2141 0.05522
1968 0.5907 0.5506 0.4469 0.3421 0.257 0.06506
1969 0.569 0.5277 0.3911 0.3196 0.2513 0.06442
1970 0.4515 0.4213 0.3196 0.2227 0.1638
0.0413
1971 0.453 0.4232 0.3223 0.2236 0.1721 0.05145
1972 1.378 1.229 0.7926 0.3731 0.262 0.1009
1973 1.466 1.377 1.058 0.6237 0.4687 0.1186
1974 0.9995 0.9324 0.7981 0.4981 0.3645
0.09194
1975 0.4546 0.4252 0.3256 0.2282 0.1689
0.0427
1976 0.4542 0.4248 0.3248 0.2258 0.1676
0.04233
1977 0.9575 0.8986 0.6704 0.4308 0.3297
0.08452
1978 0.6591 0.6125 0.4787 0.3268 0.2456
0.06233
1979 0.4531 0.4234 0.3316 0.2282 0.167 0.04204
1980 0.5492 0.515 0.3974 0.2812 0.2098 0.05339
1981 0.4586 0.4291 0.3689 0.2587 0.1917
0.04843
1982 0.7043 0.6582 0.5388 0.3713 0.2783
0.07129
1983 0.9085 0.8514 0.7396 0.5165 0.3796
0.09639
1984 0.4545 0.4252 0.3255 0.2278 0.1685
0.04257
1985 0.4597 0.4318 0.3349 0.2291 0.168 0.04246
1986 0.5958 0.5563 0.4324 0.296 0.2182 0.05527
1987 0.4553 0.4262 0.3264 0.2225 0.1619
0.04085
1988 0.4554 0.4252 0.3229 0.2368 0.1842
0.04725
1989 0.4504 0.4199 0.3362 0.2297 0.168 0.04251
1990 0.4523 0.4224 0.3208 0.2195 0.1606
0.04061

Sorted results

Prob. Peak 96 hr 21 Day 60 Day 90 Day Yearly

0.032258064516129 1.466 1.377 1.058 0.6237 0.4687 0.1186
0.0645161290322581 1.378 1.229 0.7981 0.5165 0.3796
0.1009
0.0967741935483871 0.9995 0.9324 0.7926 0.4981
0.3645 0.09639
0.129032258064516 0.9575 0.8986 0.7396 0.4308
0.3297 0.09194
0.161290322580645 0.9085 0.8514 0.6704 0.4244 0.323
0.08452
0.193548387096774 0.7824 0.7323 0.5854 0.3795
0.2987 0.08283
0.225806451612903 0.74 0.6938 0.5388 0.3731 0.2783
0.07724
0.258064516129032 0.7043 0.6582 0.532 0.3713 0.262
0.07129
0.290322580645161 0.6591 0.6125 0.4787 0.3421 0.257
0.06506

```
0.32258064516129  0.5958      0.5563      0.4469      0.3268
      0.2513      0.06442
0.354838709677419 0.5907      0.5506      0.4324      0.3196
      0.2456      0.06233
0.387096774193548 0.569 0.5277      0.3974      0.296 0.2182
      0.05527
0.419354838709677 0.5492      0.515 0.3911      0.2812      0.2141
      0.05522
0.451612903225806 0.4604      0.4327      0.3689      0.2721
      0.2098      0.05339
0.483870967741936 0.4597      0.4318      0.3362      0.2587
      0.1917      0.05145
0.516129032258065 0.4586      0.4296      0.3362      0.2368
      0.1842      0.04843
0.548387096774194 0.458 0.4291      0.3349      0.2304      0.1721
      0.04725
0.580645161290323 0.4571      0.4285      0.3319      0.2304
      0.1707      0.04327
0.612903225806452 0.457 0.4284      0.3316      0.2297      0.1695
      0.04301
0.645161290322581 0.4554      0.4262      0.3309      0.2291
      0.1689      0.0427
0.67741935483871  0.4553      0.4252      0.3301      0.2282
      0.1685      0.04257
0.709677419354839 0.4546      0.4252      0.3264      0.2282      0.168
      0.04257
0.741935483870968 0.4545      0.4252      0.3256      0.2278      0.168
      0.04251
0.774193548387097 0.4542      0.4248      0.3255      0.2276      0.168
      0.04246
0.806451612903226 0.4538      0.4242      0.3248      0.2258
      0.1676      0.04233
0.838709677419355 0.4531      0.4234      0.3235      0.2236      0.167
      0.04204
0.870967741935484 0.453 0.4232      0.3229      0.2227      0.1638
      0.0413
0.903225806451613 0.4523      0.4224      0.3223      0.2225
      0.1619      0.04085
0.935483870967742 0.4515      0.4213      0.3208      0.2209
      0.1609      0.04061
0.967741935483871 0.4504      0.4199      0.3196      0.2195
      0.1606      0.04061

0.1   0.9953      0.92902     0.7873      0.49137     0.36102
      0.095945
                              Average of yearly averages:   0.059112

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

Data used for this run:
Output File: onion G
Metfile:    w23155.dvf
PRZM scenario:    CAonion_NirrigC.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
```

```
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    14    days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

22) OR Mint, ground application

```
stored as mint G.out
Chemical: oxydemeton-methyl
PRZM environment: ORmintC.txt modified Satday, 12 October 2002 at
16:20:16
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w24232.dvf     modified Wedday, 3 July 2002 at 09:06:10
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  0.4751      0.4482      0.3669      0.2263      0.1643
      0.04191
1962  0.4988      0.4698      0.3979      0.2613      0.1925
      0.04953
1963  0.4409      0.4224      0.3609      0.2628      0.1955
      0.05063
1964  0.42  0.3965      0.3125      0.1905      0.1387      0.03541
1965  0.4575      0.4312      0.3388      0.2085      0.1526
      0.03904
1966  0.42  0.3955      0.3093      0.1872      0.1359      0.03473
1967  0.42  0.3978      0.3164      0.1926      0.1394      0.03544
1968  0.42  0.3968      0.3134      0.1927      0.1405      0.03586
1969  0.42  0.3961      0.3097      0.183 0.133 0.0341
1970  0.42  0.3973      0.3147      0.1908      0.138 0.03514
1971  0.42  0.397 0.3143      0.193 0.1414      0.0362
```

1972 0.42 0.3975 0.3147 0.2106 0.1556 0.03981
1973 0.42 0.3962 0.3108 0.1871 0.1358 0.03471
1974 0.42 0.3964 0.3126 0.1918 0.1396 0.03569
1975 0.42 0.3975 0.3158 0.1928 0.1407 0.03604
1976 0.42 0.3967 0.3132 0.1921 0.1407 0.03606
1977 0.42 0.3955 0.3101 0.1909 0.139 0.03555
1978 0.4738 0.4472 0.3654 0.2335 0.1696 0.04321
1979 0.42 0.3957 0.3107 0.1871 0.1355 0.03453
1980 0.4754 0.4476 0.3503 0.2138 0.1564 0.03999
1981 0.42 0.3956 0.3096 0.1888 0.1382 0.03541
1982 0.42 0.3971 0.3139 0.1897 0.137 0.03494
1983 0.42 0.3959 0.3095 0.1853 0.1345 0.03437
1984 0.4886 0.4589 0.3878 0.2674 0.1982 0.05085
1985 0.42 0.3954 0.309 0.197 0.1492 0.03857
1986 0.42 0.3964 0.3294 0.2053 0.1491 0.03811
1987 0.42 0.3949 0.3065 0.182 0.1315 0.03512
1988 0.6463 0.6154 0.4831 0.2945 0.2146 0.05468
1989 0.42 0.394 0.3045 0.1826 0.1321 0.03375
1990 0.42 0.3947 0.3316 0.2049 0.149 0.03791

Sorted results

Prob. Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	0.6463	0.6154	0.4831	0.2945	0.2146	0.05468
0.0645161290322581	0.4988	0.4698	0.3979	0.2674	0.1982	0.05085
0.0967741935483871	0.4886	0.4589	0.3878	0.2628	0.1955	0.05063
0.129032258064516	0.4754	0.4482	0.3669	0.2613	0.1925	0.04953
0.161290322580645	0.4751	0.4476	0.3654	0.2335	0.1696	0.04321
0.193548387096774	0.4738	0.4472	0.3609	0.2263	0.1643	0.04191
0.225806451612903	0.4575	0.4312	0.3503	0.2138	0.1564	0.03999
0.258064516129032	0.4409	0.4224	0.3388	0.2106	0.1556	0.03981
0.290322580645161	0.42	0.3978	0.3316	0.2085	0.1526	0.03904
0.32258064516129	0.42	0.3975	0.3294	0.2053	0.1492	0.03857
0.354838709677419	0.42	0.3975	0.3164	0.2049	0.1491	0.03811
0.387096774193548	0.42	0.3973	0.3158	0.197	0.149	0.03791
0.419354838709677	0.42	0.3971	0.3147	0.193	0.1414	0.0362
0.451612903225806	0.42	0.397	0.3147	0.1928	0.1407	0.03606
0.483870967741936	0.42	0.3968	0.3143	0.1927	0.1407	0.03604
0.516129032258065	0.42	0.3967	0.3139	0.1926	0.1405	0.03586

```
0.548387096774194 0.42  0.3965      0.3134      0.1921      0.1396
      0.03569
0.580645161290323 0.42  0.3964      0.3132      0.1918      0.1394
      0.03555
0.612903225806452 0.42  0.3964      0.3126      0.1909      0.139
      0.03544
0.645161290322581 0.42  0.3962      0.3125      0.1908      0.1387
      0.03541
0.67741935483871  0.42  0.3961      0.3108      0.1905      0.1382
      0.03541
0.709677419354839 0.42  0.3959      0.3107      0.1897      0.138
      0.03514
0.741935483870968 0.42  0.3957      0.3101      0.1888      0.137
      0.03512
0.774193548387097 0.42  0.3956      0.3097      0.1872      0.1359
      0.03494
0.806451612903226 0.42  0.3955      0.3096      0.1871      0.1358
      0.03473
0.838709677419355 0.42  0.3955      0.3095      0.1871      0.1355
      0.03471
0.870967741935484 0.42  0.3954      0.3093      0.1853      0.1345
      0.03453
0.903225806451613 0.42  0.3949      0.309 0.183 0.133 0.03437
0.935483870967742 0.42  0.3947      0.3065      0.1826      0.1321
      0.0341
0.967741935483871 0.42  0.394 0.3045      0.182 0.1315      0.03375

0.1   0.48728     0.45783     0.38571     0.26265     0.1952
      0.05052
                              Average of yearly averages:
      0.0385763333333333

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

Data used for this run:
Output File: mint G
Metfile:    w24232.dvf
PRZM scenario:    ORmintC.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.84  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
```

```
Application Date  Date  20-04 dd/mm or dd/mmm or dd-mm or dd-mmm
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

23) Lima Beans (row crop) aerial application

```
 stored as lima beans.out
Chemical: oxydemeton-methyl
PRZM environment: CARowCrop no_irrig.txt  modified Monday, 16 April
2007 at 08:57:06
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23234.dvf     modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  3.352 3.15  2.567 1.738 1.313 0.3441
1962  3.275 3.087 2.455 1.631 1.221 0.32
1963  3.125 2.942 2.667 2.028 1.583 0.4228
1964  2.53  2.382 1.868 1.25  0.9375      0.2448
1965  2.529 2.38  1.864 1.341 1.033 0.2748
1966  2.531 2.384 1.871 1.244 0.9281      0.2424
1967  2.528 2.391 2.039 1.389 1.05  0.2759
1968  5.115 4.803 3.87  2.513 1.916 0.5039
1969  2.529 2.379 1.898 1.284 0.9654      0.2525
1970  3.7   3.467 2.762 1.786 1.331 0.3465
1971  5     4.705 3.689 2.419 1.849 0.489
1972  2.519 2.365 1.835 1.218 0.909 0.2367
1973  2.628 2.475 1.978 1.325 0.9906      0.2583
1974  4.513 4.243 3.598 2.477 1.862 0.4882
1975  2.985 2.832 2.552 1.797 1.376 0.3638
1976  3.541 3.337 2.708 1.818 1.36  0.3537
1977  3.22  3.034 2.512 1.734 1.318 0.3475
1978  11.45 10.58 8.103 4.889 3.634 0.9497
1979  2.522 2.369 1.9   1.439 1.098 0.2886
1980  3.241 3.046 2.406 1.587 1.185 0.309
1981  2.8   2.631 2.283 1.557 1.174 0.3071
1982  2.533 2.386 1.915 1.312 0.9874      0.259
1983  3.587 3.399 2.944 2.02  1.516 0.3959
1984  2.508 2.348 1.803 1.188 0.882 0.2283
1985  2.571 2.423 1.927 1.316 0.9856      0.2567
1986  4.989 4.672 3.651 2.303 1.732 0.4531
1987  2.517 2.362 1.829 1.204 0.8917      0.231
1988  2.513 2.356 1.818 1.473 1.301 0.3618
1989  3.088 2.897 2.361 1.532 1.139 0.2958
1990  2.527 2.377 1.858 1.231 0.9143      0.2374

Sorted results
```

Prob. Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	11.45	10.58	8.103	4.889	3.634	0.9497
0.0645161290322581		5.115	4.803	3.87	2.513	1.916 0.5039
0.0967741935483871		5	4.705	3.689	2.477	1.862 0.489
0.129032258064516	4.989	4.672	3.651	2.419	1.849	0.4882
0.161290322580645	4.513	4.243	3.598	2.303	1.732	0.4531
0.193548387096774	3.7	3.467	2.944	2.028	1.583	0.4228
0.225806451612903	3.587	3.399	2.762	2.02	1.516	0.3959
0.258064516129032	3.541	3.337	2.708	1.818	1.376	0.3638
0.290322580645161	3.352	3.15	2.667	1.797	1.36	0.3618
0.32258064516129	3.275	3.087	2.567	1.786	1.331	0.3537
0.354838709677419	3.241	3.046	2.552	1.738	1.318	0.3475
0.387096774193548	3.22	3.034	2.512	1.734	1.313	0.3465
0.419354838709677	3.125	2.942	2.455	1.631	1.301	0.3441
0.451612903225806	3.088	2.897	2.406	1.587	1.221	0.32
0.483870967741936	2.985	2.832	2.361	1.557	1.185	0.309
0.516129032258065	2.8	2.631	2.283	1.532	1.174	0.3071
0.548387096774194	2.628	2.475	2.039	1.473	1.139	0.2958
0.580645161290323	2.571	2.423	1.978	1.439	1.098	0.2886
0.612903225806452	2.533	2.391	1.927	1.389	1.05	0.2759
0.645161290322581	2.531	2.386	1.915	1.341	1.033	0.2748
0.67741935483871	2.53	2.384	1.9	1.325	0.9906	0.259
0.709677419354839	2.529	2.382	1.898	1.316	0.9874	0.2583
0.741935483870968	2.529	2.38	1.871	1.312	0.9856	0.2567
0.774193548387097	2.528	2.379	1.868	1.284	0.9654	0.2525
0.806451612903226	2.527	2.377	1.864	1.25	0.9375	0.2448
0.838709677419355	2.522	2.369	1.858	1.244	0.9281	0.2424
0.870967741935484	2.519	2.365	1.835	1.231	0.9143	0.2374
0.903225806451613	2.517	2.362	1.829	1.218	0.909	0.2367
0.935483870967742	2.513	2.356	1.818	1.204	0.8917	0.231
0.967741935483871	2.508	2.348	1.803	1.188	0.882	0.2283
0.1	4.9989	4.7017	3.6852	2.4712	1.8607	
	0.48892					

Average of yearly averages: 0.34461

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

Data used for this run:
Output File: lima beans
Metfile: w23234.dvf
PRZM scenario: CARowCrop no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name: oxydemeton-methyl

Description	Variable Name		Value	Units	Comments
Molecular weight	mwt		246.29	g/mol	
Henry's Law Const.	henry			atm-m^3/mol	
Vapor Pressure	vapr		2.8E-5	torr	
Solubility	sol		1000000	mg/L	
Kd	Kd	0.01	mg/L		
Koc	Koc		mg/L		
Photolysis half-life	kdp	136	days	Half-life	
Aerobic Aquatic Metabolism	kbacw	19.2	days	Halfife	
Anaerobic Aquatic Metabolism	kbacs	10.5	days	Halfife	
Aerobic Soil Metabolism	asm	9.6	days	Halfife	
Hydrolysis: pH 7	41	days	Half-life		
Method:	CAM	2	integer	See PRZM manual	

```
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

24) Lima beans (row crop) ground application

```
stored as lima beans G.out
Chemical: oxydemeton-methyl
PRZM environment: CARowCrop no_irrig.txt  modified Monday, 16 April
2007 at 08:57:06
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w23234.dvf     modified Wedday, 3 July 2002 at 09:04:22
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  1.733 1.628 1.268 0.7894      0.5998      0.1584
1962  1.277 1.204 0.9999      0.639 0.4794      0.1257
1963  2.055 1.934 1.549 1.113 0.8599      0.2334
1964  0.5061      0.4764      0.3735      0.2499      0.1875
      0.04898
1965  0.5096      0.4788      0.3826      0.3479      0.2885
      0.07938
1966  0.5063      0.4767      0.3742      0.2488      0.1856
      0.04849
1967  0.7134      0.6723      0.557 0.3936      0.3025      0.08008
1968  3.461 3.25  2.669 1.645 1.227 0.3242
1969  0.5058      0.4759      0.4093      0.2894      0.2211
      0.05827
1970  1.741 1.631 1.377 0.851 0.632 0.1645
1971  3.327 3.131 2.456 1.522 1.137 0.3024
1972  0.5039      0.473 0.367 0.2435      0.1818      0.04734
1973  0.6068      0.5715      0.4844      0.3305      0.2487
      0.06504
1974  2.856 2.685 2.247 1.541 1.162 0.3051
1975  1.489 1.403 1.23  0.8275      0.6348      0.1695
1976  1.555 1.466 1.294 0.8301      0.6181      0.1605
1977  1.629 1.535 1.206 0.7614      0.5825      0.155
1978  9.825 9.065 6.939 4.187 3.064 0.798
1979  0.9319      0.8753      0.6779      0.4731      0.3776
      0.1014
1980  1.251 1.176 0.9802      0.6183      0.4612      0.1202
```

1981 1.211 1.138 0.9147 0.5888 0.4526 0.1194
1982 0.5066 0.4771 0.4172 0.3115 0.239 0.06326
1983 1.928 1.842 1.519 1.076 0.8117 0.2124
1984 0.5016 0.4696 0.3606 0.2376 0.1764
0.04567
1985 0.5452 0.5139 0.4241 0.3179 0.2424
0.06361
1986 3.223 3.019 2.325 1.432 1.059 0.278
1987 0.5034 0.4723 0.3657 0.2409 0.1784
0.04621
1988 1.867 1.751 1.346 0.7985 0.6209 0.1838
1989 1.23 1.154 0.9409 0.5871 0.4408 0.115
1990 0.5054 0.4754 0.3717 0.2461 0.1829
0.04749

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	9.825	9.065	6.939	4.187	3.064	0.798	
0.0645161290322581		3.461	3.25	2.669	1.645	1.227	0.3242
0.0967741935483871		3.327	3.131	2.456	1.541	1.162	0.3051
0.129032258064516	3.223	3.019	2.325	1.522	1.137	0.3024	
0.161290322580645	2.856	2.685	2.247	1.432	1.059	0.278	
0.193548387096774	2.055	1.934	1.549	1.113	0.8599	0.2334	
0.225806451612903	1.928	1.842	1.519	1.076	0.8117	0.2124	
0.258064516129032	1.867	1.751	1.377	0.851	0.6348	0.1838	
0.290322580645161	1.741	1.631	1.346	0.8301	0.632	0.1695	
0.32258064516129	1.733	1.628	1.294	0.8275	0.6209	0.1645	
0.354838709677419	1.629	1.535	1.268	0.7985	0.6181	0.1605	
0.387096774193548	1.555	1.466	1.23	0.7894	0.5998	0.1584	
0.419354838709677	1.489	1.403	1.206	0.7614	0.5825	0.155	
0.451612903225806	1.277	1.204	0.9999	0.639	0.4794	0.1257	
0.483870967741936	1.251	1.176	0.9802	0.6183	0.4612		
0.1202							
0.516129032258065	1.23	1.154	0.9409	0.5888	0.4526		
0.1194							
0.548387096774194	1.211	1.138	0.9147	0.5871	0.4408	0.115	
0.580645161290323	0.9319		0.8753	0.6779	0.4731		
0.3776	0.1014						
0.612903225806452	0.7134		0.6723	0.557	0.3936	0.3025	
0.08008							
0.645161290322581	0.6068		0.5715	0.4844	0.3479		
0.2885	0.07938						
0.67741935483871	0.5452		0.5139	0.4241	0.3305		
0.2487	0.06504						
0.709677419354839	0.5096		0.4788	0.4172	0.3179		
0.2424	0.06361						
0.741935483870968	0.5066		0.4771	0.4093	0.3115	0.239	
0.06326							
0.774193548387097	0.5063		0.4767	0.3826	0.2894		
0.2211	0.05827						
0.806451612903226	0.5061		0.4764	0.3742	0.2499		
0.1875	0.04898						
0.838709677419355	0.5058		0.4759	0.3735	0.2488		
0.1856	0.04849						
0.870967741935484	0.5054		0.4754	0.3717	0.2461		
0.1829	0.04749						

```
0.903225806451613 0.5039      0.473 0.367 0.2435      0.1818
      0.04734
0.935483870967742 0.5034      0.4723      0.3657      0.2409
      0.1784      0.04621
0.967741935483871 0.5016      0.4696      0.3606      0.2376
      0.1764      0.04567

0.1   3.3166      3.1198      2.4429      1.5391      1.1595
      0.30483
                              Average of yearly averages:
      0.157357333333333

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

Data used for this run:
Output File: lima beans G
Metfile:    w23234.dvf
PRZM scenario:    CARowCrop no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.99  fraction
Spray Drift DRFT  0.01  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval    7     days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

25) Sugarbeet, aerial application

```
stored as sugar beet .out
Chemical: oxydemeton-methyl
```

PRZM environment: CAsugarbeet_NirrigOP.txt modified Thuday, 17 June 2004 at 08:15:12
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w93193.dvf modified Wedday, 3 July 2002 at 09:04:24
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	1.4	1.315	1.024	0.6183	0.4479	0.1133
1962	1.4	1.318	1.033	0.6239	0.45	0.1138
1963	1.4	1.316	1.089	0.764	0.5692	0.1454
1964	1.4	1.318	1.033	0.632	0.4596	0.1163
1965	3.666	3.437	2.655	1.688	1.253	0.3198
1966	1.4	1.311	1.007	0.5928	0.4233	0.1064
1967	1.433	1.346	1.206	0.8314	0.6178	0.1573
1968	1.4	1.312	1.072	0.6735	0.4885	0.1231
1969	1.4	1.317	1.038	0.6863	0.508	0.1292
1970	9.98	9.412	7.374	4.465	3.232	0.8151
1971	1.4	1.315	1.022	0.6432	0.4839	0.1242
1972	1.4	1.304	0.9829	0.573	0.4113	0.1038
1973	1.4	1.319	1.059	0.6919	0.5019	0.1265
1974	1.464	1.386	1.114	0.6805	0.4929	0.1244
1975	1.4	1.318	1.048	0.6548	0.4787	0.1213
1976	1.4	1.318	1.031	0.6321	0.459	0.1159
1977	1.4	1.317	1.029	0.6214	0.4487	0.1134
1978	2.049	1.91	1.489	0.9111	0.6602	0.1666
1979	2.161	2.022	1.549	0.9194	0.6599	0.166
1980	1.813	1.702	1.438	0.8933	0.6472	0.1634
1981	1.4	1.314	1.033	0.6489	0.4689	0.1179
1982	1.4	1.318	1.142	0.7725	0.5663	0.1437
1983	7.765	7.275	5.614	3.388	2.453	0.6194
1984	1.4	1.307	0.9934	0.5846	0.4183	0.1046
1985	1.4	1.316	1.024	0.6097	0.4354	0.1093
1986	1.606	1.503	1.289	0.8369	0.605	0.1523
1987	1.717	1.646	1.348	0.8243	0.5903	0.1485
1988	1.488	1.392	1.066	0.7184	0.5784	0.15
1989	2.295	2.145	1.647	1.009	0.724	0.1823
1990	1.4	1.31	1.003	0.5944	0.4353	0.115

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	9.98	9.412	7.374	4.465	3.232	0.8151
0.0645161290322581	7.765	7.275	5.614	3.388	2.453	0.6194
0.0967741935483871	3.666	3.437	2.655	1.688	1.253	0.3198
0.129032258064516	2.295	2.145	1.647	1.009	0.724	0.1823
0.161290322580645	2.161	2.022	1.549	0.9194	0.6602	0.1666
0.193548387096774	2.049	1.91	1.489	0.9111	0.6599	0.166
0.225806451612903	1.813	1.702	1.438	0.8933	0.6472	0.1634
0.258064516129032	1.717	1.646	1.348	0.8369	0.6178	0.1573
0.290322580645161	1.606	1.503	1.289	0.8314	0.605	0.1523
0.32258064516129	1.488	1.392	1.206	0.8243	0.5903	0.15
0.354838709677419	1.464	1.386	1.142	0.7725	0.5784	0.1485
0.387096774193548	1.433	1.346	1.114	0.764	0.5692	0.1454
0.419354838709677	1.4	1.319	1.089	0.7184	0.5663	0.1437
0.451612903225806	1.4	1.318	1.072	0.6919	0.508	0.1292
0.483870967741936	1.4	1.318	1.066	0.6863	0.5019	0.1265
0.516129032258065	1.4	1.318	1.059	0.6805	0.4929	0.1244

```
0.548387096774194 1.4   1.318 1.048 0.6735      0.4885      0.1242
0.580645161290323 1.4   1.318 1.038 0.6548      0.4839      0.1231
0.612903225806452 1.4   1.317 1.033 0.6489      0.4787      0.1213
0.645161290322581 1.4   1.317 1.033 0.6432      0.4689      0.1179
0.67741935483871  1.4   1.316 1.033 0.6321      0.4596      0.1163
0.709677419354839 1.4   1.316 1.031 0.632 0.459 0.1159
0.741935483870968 1.4   1.315 1.029 0.6239      0.45  0.115
0.774193548387097 1.4   1.315 1.024 0.6214      0.4487      0.1138
0.806451612903226 1.4   1.314 1.024 0.6183      0.4479      0.1134
0.838709677419355 1.4   1.312 1.022 0.6097      0.4354      0.1133
0.870967741935484 1.4   1.311 1.007 0.5944      0.4353      0.1093
0.903225806451613 1.4   1.31  1.003 0.5928      0.4233      0.1064
0.935483870967742 1.4   1.307 0.9934      0.5846      0.4183
      0.1046
0.967741935483871 1.4   1.304 0.9829      0.573 0.4113      0.1038

0.1   3.5289      3.3078      2.5542      1.6201      1.2001
      0.30605
                              Average of yearly averages:   0.17694

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

Data used for this run:
Output File: sugar beet
Metfile:    w93193.dvf
PRZM scenario:    CAsugarbeet_NirrigOP.txt
EXAMS environment file: pond298.exv
Chemical Name:    oxydemeton-methyl
Description Variable Name     Value Units Comments
Molecular weight  mwt   246.29      g/mol
Henry's Law Const.      henry       atm-m^3/mol
Vapor Pressure    vapr  2.8E-5      torr
Solubility  sol   1000000     mg/L
Kd    Kd    0.01  mg/L
Koc   Koc         mg/L
Photolysis half-life    kdp   136   days  Half-life
Aerobic Aquatic Metabolism    kbacw 19.2  days  Halfife
Anaerobic Aquatic Metabolism  kbacs 10.5  days  Halfife
Aerobic Soil Metabolism asm   9.6   days  Halfife
Hydrolysis: pH 7  41    days  Half-life
Method:     CAM   2     integer     See PRZM manual
Incorporation Depth:    DEPI  0     cm
Application Rate: TAPP  0.56  kg/ha
Application Efficiency: APPEFF      0.95  fraction
Spray Drift DRFT  0.05  fraction of application rate applied to pond
Application Date  Date  01-03 dd/mm or dd/mmm or dd-mm or dd-mmm
Interval 1  interval          days  Set to 0 or delete line for single
app.
Record 17:  FILTRA
      IPSCND      1
      UPTKF
Record 18:  PLVKRT
      PLDKRT
      FEXTRC      0.5
Flag for Index Res. Run IR    Pond
Flag for runoff calc.   RUNOFF      none  none, monthly or
total(average of entire run)
```

26) Sugarbeet, ground application

```
stored as sugar beet G.out
Chemical: oxydemeton-methyl
PRZM environment: CAsugarbeet_NirrigOP.txt      modified Thuday, 17
June 2004 at 08:15:12
EXAMS environment: pond298.exv      modified Thuday, 29 August 2002 at
16:33:30
Metfile: w93193.dvf     modified Wedday, 3 July 2002 at 09:04:24
Water segment concentrations (ppb)

Year  Peak  96 hr 21 Day      60 Day      90 Day      Yearly
1961  0.28  0.2631      0.2048      0.1237      0.08958     0.02266
1962  0.28  0.2636      0.2066      0.1248      0.08999     0.02276
1963  0.4198      0.3947      0.3454      0.2654      0.206 0.05325
1964  0.28  0.2636      0.2066      0.1264      0.09192     0.02325
1965  2.996 2.809 2.17  1.285 0.9359      0.2396
1966  0.28  0.2621      0.2013      0.1186      0.08466     0.02128
1967  0.6632      0.6228      0.4883      0.3385      0.2577
      0.06607
1968  0.3483      0.33  0.2653      0.193 0.1421      0.03597
1969  0.2971      0.2772      0.2156      0.1878      0.1479
      0.03824
1970  9.225 8.707 6.833 4.138 2.996 0.7555
1971  0.28  0.263 0.2043      0.1486      0.1246      0.03305
1972  0.28  0.2608      0.1966      0.1146      0.08227     0.0212
1973  0.3043      0.2876      0.2302      0.1852      0.1368
      0.03463
1974  0.4215      0.395 0.3095      0.1985      0.1449      0.03664
1975  0.28  0.2637      0.22  0.1424      0.1045      0.02652
1976  0.28  0.2638      0.2065      0.1266      0.09194     0.02322
1977  0.28  0.2634      0.2059      0.1278      0.09365     0.02385
1978  1.075 1.002 0.7591      0.4611      0.336 0.08492
1979  1.073 1.004 0.7693      0.4577      0.3287      0.08267
1980  0.8835      0.8296      0.662 0.4137      0.301 0.07607
1981  0.28  0.2628      0.2184      0.1626      0.1197      0.03022
1982  0.4997      0.4756      0.3945      0.2712      0.2029
      0.0518
1983  6.91  6.474 4.998 3.018 2.185 0.5518
1984  0.28  0.2614      0.1987      0.1169      0.08366     0.02093
1985  0.28  0.2631      0.2049      0.1219      0.08709     0.02185
1986  0.8211      0.7718      0.6372      0.3913      0.2866
      0.07238
1987  0.7886      0.7455      0.5871      0.3563      0.257 0.06486
1988  0.5851      0.5475      0.4133      0.2502      0.2419
      0.06542
1989  1.252 1.17  0.8925      0.5619      0.4052      0.1022
1990  0.28  0.2619      0.2006      0.1238      0.09902     0.03065

Sorted results
Prob. Peak  96 hr 21 Day      60 Day      90 Day      Yearly
0.032258064516129 9.225 8.707 6.833 4.138 2.996 0.7555
0.0645161290322581      6.91  6.474 4.998 3.018 2.185 0.5518
0.0967741935483871      2.996 2.809 2.17  1.285 0.9359      0.2396
```

```
0.129032258064516 1.252 1.17  0.8925      0.5619      0.4052
      0.1022
0.161290322580645 1.075 1.004 0.7693      0.4611      0.336 0.08492
0.193548387096774 1.073 1.002 0.7591      0.4577      0.3287
      0.08267
0.225806451612903 0.8835      0.8296      0.662 0.4137      0.301
      0.07607
0.258064516129032 0.8211      0.7718      0.6372      0.3913
      0.2866      0.07238
0.290322580645161 0.7886      0.7455      0.5871      0.3563
      0.2577      0.06607
0.32258064516129  0.6632      0.6228      0.4883      0.3385      0.257
      0.06542
0.354838709677419 0.5851      0.5475      0.4133      0.2712
      0.2419      0.06486
0.387096774193548 0.4997      0.4756      0.3945      0.2654      0.206
      0.05325
0.419354838709677 0.4215      0.395 0.3454      0.2502      0.2029
      0.0518
0.451612903225806 0.4198      0.3947      0.3095      0.1985
      0.1479      0.03824
0.483870967741936 0.3483      0.33  0.2653      0.193 0.1449
      0.03664
0.516129032258065 0.3043      0.2876      0.2302      0.1878
      0.1421      0.03597
0.548387096774194 0.2971      0.2772      0.22  0.1852      0.1368
      0.03463
0.580645161290323 0.28  0.2638      0.2184      0.1626      0.1246
      0.03305
0.612903225806452 0.28  0.2637      0.2156      0.1486      0.1197
      0.03065
0.645161290322581 0.28  0.2636      0.2066      0.1424      0.1045
      0.03022
0.67741935483871  0.28  0.2636      0.2066      0.1278      0.09902
      0.02652
0.709677419354839 0.28  0.2634      0.2065      0.1266      0.09365
      0.02385
0.741935483870968 0.28  0.2631      0.2059      0.1264      0.09194
      0.02325
0.774193548387097 0.28  0.2631      0.2049      0.1248      0.09192
      0.02322
0.806451612903226 0.28  0.263 0.2048      0.1238      0.08999
      0.02276
0.838709677419355 0.28  0.2628      0.2043      0.1237      0.08958
      0.02266
0.870967741935484 0.28  0.2621      0.2013      0.1219      0.08709
      0.02185
0.903225806451613 0.28  0.2619      0.2006      0.1186      0.08466
      0.02128
0.935483870967742 0.28  0.2614      0.1987      0.1169      0.08366
      0.0212
0.967741935483871 0.28  0.2608      0.1966      0.1146      0.08227
      0.02093

0.1   2.8216      2.6451      2.04225     1.21269     0.88283
      0.22586
```

Average of yearly averages:
0.0911153333333333

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

Data used for this run:
Output File: sugar beet G
Metfile: w93193.dvf
PRZM scenario: CAsugarbeet_NirrigOP.txt
EXAMS environment file: pond298.exv
Chemical Name: oxydemeton-methyl

Description	Variable Name		Value	Units	Comments
Molecular weight	mwt		246.29	g/mol	
Henry's Law Const.	henry			atm-m^3/mol	
Vapor Pressure	vapr		2.8E-5	torr	
Solubility	sol		1000000	mg/L	
Kd	Kd		0.01	mg/L	
Koc	Koc			mg/L	
Photolysis half-life	kdp		136	days	Half-life
Aerobic Aquatic Metabolism	kbacw		19.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		10.5	days	Halfife
Aerobic Soil Metabolism	asm		9.6	days	Halfife
Hydrolysis: pH 7			41	days	Half-life
Method:	CAM		2	integer	See PRZM manual
Incorporation Depth:	DEPI		0	cm	
Application Rate:	TAPP		0.56	kg/ha	
Application Efficiency:	APPEFF			0.99	fraction
Spray Drift	DRFT		0.01	fraction of	application rate applied to pond
Application Date	Date		01-03	dd/mm	or dd/mmm or dd-mm or dd-mmm
Interval 1	interval			days	Set to 0 or delete line for single app.

Record 17: FILTRA
IPSCND 1
UPTKF
Record 18: PLVKRT
PLDKRT
FEXTRC 0.5

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