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OFFICE OF  
PESTICIDES AND TOXIC  
SUBSTANCES

MEMORANDUM

SUBJECT: Revised Comparative Drinking Water Assessment for Proposed and Registered Fipronil Uses (PC Code 129121; DP Barcode 319940).

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This memorandum is a revised comparative drinking water assessment for the following proposed and registered fipronil uses: 1.) in-furrow, at plant use on sweet potato/potato; 2.) Section 18 for in-furrow, at plant use on rutabagas and turnips in Oregon; 3.) in-furrow, at plant corn; corn seed treatment at 30 inch and 15 inch row spacings; 4.) onion seed treatment; 5.) in-slit treatment for mole cricket; 6.) broadcast application for fire ants; and 7.) broadcast application of Texas leaf-cutter bait. The original drinking water assessment (7/20/05, D318481, D318373) was modified to account for corrected fipronil use rates for leaf-cutter ants bait (0.00288 lbs ai/A), onion seed treatment (0.125 lbs ai/A @ 5 lb/A dry bulb onion seeding rate), an garlic clove treatment (~ 25 lbs ai/A based on clove seeding rate of 1000 lbs/A). It is important to note there is uncertainty in the garlic clove treatment application rate because it depends on the type of garlic, etc.

The drinking water assessment is based on screening level models because available monitoring data represent cancelled fipronil uses (i.e., rice) or are not targeted to all fipronil use areas. Residues included in the modeling include fipronil (5-amino-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-4-((1R,S)-(trifluoromethyl) sulfinyl)-1-H-pyrazole-3-carbonitrile), MB136 (5-amino-1-(2,6-dichloro-4-trifluoro methylphenyl)-3-cyano-4-trifluoromethyl-sulphonyl-pyrazole), MB513 ((5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethyl-phenyl)-4-trifluoro-methylpyrazole), and MB950 (5-amino-1-(2,6-dichloro-4-trifluoromethylphenyl)-3-cyano-4-trifluoro-methyl-thio-pyrazole).

From the registered and proposed uses for fipronil, the highest concentrations of fipronil and its degradation products in surface source drinking water are expected to be from the proposed use on garlic. Fipronil concentrations in source surface water are not expected to exceed 20.488 µg/L for the 1 in 10 year peak concentration, 2.951 µg/L for 1 in 10 year



annual average concentration, and 1.603 µg/L for the 30 year annual average concentration. A complete accounting of residue concentrations can be found in Table 5. Reasons for the high fipronil residue concentrations for the proposed garlic use are associated with the extremely high seeding rate required for garlic (750 to 1000 lbs cloves/A). These high application rates are recommended for elephant garlic.

As expected, the highest ground water concentrations for fipronil and its degradation products are for the garlic use because of the high seeding rates. Peak and chronic concentrations in shallow, source ground water are not expected to exceed 4.02 µg/L for fipronil, 0.154 µg/L for MB136, 0.046 µg/L for MB513, and 0.067 µg/L for MB950. A complete accounting of estimated fipronil residue concentrations in shallow, ground water are shown in Table 6.

Major uncertainties in the assessment are the inability to account for fipronil release rates from seed treatment uses as well as the typical range of use rates for garlic production. Because these effects were not considered in the modeling, conservative assumptions were used to ensure conservative estimation of fipronil residue concentrations in drinking water.

### Surface Water Modeling

PRZM (3.12 beta) and EXAM (2.97.5) using PE4V01.pl (August 13, 2003) modeling was conducted using standard scenarios which are representative of high runoff areas or specific use areas. Table 1 provides a summary of the rationale for selection of standard scenarios in the drinking water exposure assessment.

Table 1: Rational for Selection of Standard Scenarios		
Use Scenario	Selected Scenario	Rationale for Selection of Scenario
Potato/Sweet Potato	NC sweetpotato	High runoff scenario
Rutabagas/Turnips	Oregon sweet corn	Scenario developed in Section 18 Use Area ( Marion County, OR)
In-Furrow Corn	MS corn	High runoff scenario
Seed Corn Treatment	MS corn	High runoff scenario
Onion Seed Treatment	GA onion	High runoff scenario
Garlic Clove Treatment	GA onion	High runoff scenario
Broadcast Bait Texas Leafcutter Ants	TX alfalfa	High runoff scenario
In-slit mole cricket	FL turf	High runoff scenario
Broadcast Fire Ant	FL turf	High runoff scenario

Data used as input for the PRZM/EXAMS modeling of fipronil are shown in Table 2.

Table 2: Environmental Fate Data for Fipronil		
Parameter	Value	Source
Soil $K_{oc}$	727 mL/g <sup>1</sup>	MRID 44039003
Aerobic soil half-life	128 days	MRID 42918663
Photolysis Half-life	0.16 days	MRID 42918661
Hydrolysis pH 7	Stable	MRID 42194701
Aerobic Aquatic Half-life	33.7 days <sup>2</sup>	MRID 44661301, 44261909
Anaerobic Aquatic Half-life	33.7 days <sup>2</sup>	MRID 44661301, 44261909
Water solubility	2.4 mg/L	EFGWB one-liner

1- Mean Koc value

2-Represents the 90<sup>th</sup> percentile of the mean

The simulated application parameters in PRZM for the various fipronil uses are shown in Table 3. With the exception of in-slit applications for mole crickets, the fipronil uses were single applications. Application depths for in-furrow treatments were assumed to be equivalent to the seeding depth. Seed treatments application rates were estimated according to the label recommended seed treatment rate and the field seeding rates (lbs of seeds/A).

**Table 3: Fipronil Application Parameters for PRZM: Rate, Application Frequency, PRZM Application Method (CAM), and Depth of Application**

Use Scenario	Label Reference	AppRate (kg/ha)	Number of Apps	CAM	App Depth (cm)
Potato/Sweet Potato	Regent® 4 SC EPA Reg. No. 7969-207	0.112	1	7	10.16
Rutabagas/Turnips	Regent® 4 SC EPA Reg. No. 7969-207 Amended for Section 18	0.1456	1	5	1.27
In-Furrow Corn Regular (30 inch) Row Spacing	REGENT® 4SC EPA Reg No. 7969-207	0.1456	1	5	4
In-Furrow Corn-Narrow (15 inch) Row Spacing <sup>3</sup>	REGENT® 4SC EPA Reg No. 7969-207 Pending Registration	0.2912	NA	NA	NA
Seed Corn Treatment	REGENT® TS EPA Reg No. 7969-223	0.02 <sup>1</sup>	1	5	4
Onion Seed Treatment	ICON® 6.2 FS EPA Reg pending	0.14 <sup>2</sup>	1	5	0.635
Garlic Clove Treatment	ICON® 6.2 FS EPA Reg pending	28 <sup>4</sup>	1	5	7.62 <sup>4</sup>
Broadcast Bait Texas Leafcutter Ants	Proposed Label for BES 100 Insecticide	0.0032	1	8	0.1
In-slit mole cricket	Chipco®Choice EPA Reg. No. 432-896	0.028	2	8	2
Broadcast Fire Ant	Chipco®Choice EPA Reg. No. 432-896	0.0140	1	8	0.1

1- Application rate for the corn seed treatment was determined assuming 0.101 lbs ai/100 lbs of seed and seeding rate of 18.3 lbs of seed/A.

2- Application rate for the dry bulb onion seed treatment was determined assuming 0.025 lbs ai/lb of seed and seeding rate of 5 lbs of seed/A.

3. Narrow row spacing from 30 inch rows to 15 inch rows will double the application rate. No PRZM-EXAMS simulation were conducted because estimated concentration are proportional (2X) from the 30 inch row spacing for in-furrow corn.

4. Garlic clove treatment use rate was determined assuming 0.025 lbs ai/ lb of seed and a maximum seeding rate of 1,000 lbs of clove/A (<http://aggie-horticulture.tamu.edu/extension/vegetable/cropguides/garlic.html>). The recommended planting depth for garlic cloves is 7.62 cm (<http://pestdata.ncsu.edu/cropprofiles/docs/WAGarlic.html>).

EFED also conducted surface water modeling for the individual degradation products including MB 46513, MB 46136 and MB45950. Environmental fate properties of the fipronil degradates are shown in Table 4. The modeling was conducted assuming the maximum daily conversion efficiency for the compound was represented by the maximum percentage formed in the environmental fate laboratory studies. Because the fipronil degradation products are formed through abiotic or biotic degradation pathways in soil and water, the degradation products were assumed to have a 100% application efficiency on the

soil surface. There was no correction for molecular weight because the molecular weights of fipronil and degradation products are similar. Application rates are based on a fipronil equivalence basis. Estimation of summed residue concentrations (fipronil+degradation products) is conservative because maximum degradation concentrations of fipronil degradation products is unlikely to occur in the environment.

<b>Table 4: Environmental Fate Data for Fipronil Degradation Products</b>			
<b>Fate Parameter</b>	<b>MB 46136</b>	<b>MB 46513</b>	<b>MB 45950</b>
Mean Koc	4208 mL/g	1290 mL/g	2719 mL/g
Aerobic Soil Metabolism Half-life	700 days	660 days	700 days
Aqueous Photolysis Half-life	7 days	Stable	Stable
Hydrolysis Half-life	Stable	Stable	Stable
Aquatic Metabolism Half-lives	1400 days	1320 days	1400 days
Water Solubility	0.16 mg/L	0.95 mg/L	0.1 mg/L
% of Fipronil Application Rate	23.9	0.96	4.9
References	<b>RP# 201555</b> <b>ACD/EAS/Im/255</b> <b>Theissen 10/97</b>	<b>MRID</b> 44262831 44262830 <b>Theissen 10/97</b>	<b>RP 201578</b> <b>Theissen 10/97</b>

### PRZM/EXAMS Simulations

PRZM/EXAMS simulations of the various registered and proposed uses of fipronil show a range of estimated concentrations in drinking water (Table 5; Appendix A). The highest concentration of fipronil and its degradation products are associated with the proposed use on garlic. One uncertainty is the dissipation rate of fipronil from the treated garlic clove. The proposed use on garlic cloves is expected to yield high concentrations in drinking water due to the high application rate (28 kg ai/ha). These estimated concentrations are expected to be conservative because it assumes that fipronil on the seed coat is available for runoff, leaching, and degradation.

Table 5. Estimated Fipronil and Degradation Product PCA<sup>1</sup> Corrected Concentrations (ng fipronil equivalence/L) in the PRZM-EXAMS Standard Index Reservoir

Fipronil Uses	1 in 10 year Peak Concentration				1 in 10 year Annual Average Concentration				30 year Annual Average Concentration			
	Fipronil	MB136	MB513	MB950	Fipronil	MB136	MB513	MB950	Fipronil	MB136	MB513	MB950
Potato/Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0
Rutabagas/Turnips	869	520.7	277.0	126.6	170.1	266.9	12.2	62.4	123.9	209.1	10.1	50.0
In-Furrow Corn	667.8	255.5	25.1	87.5	666.9	214.4	23.5	78.2	32.9	145.7	15.8	51.6
In-Furrow Corn <sup>2</sup> Narrow Row	1335.6	511	50.2	175	1339.8	428.8	47	156.4	65.8	291.4	31.6	103.2
Seed Corn Treatment	91.7	13.9	1.1	3.1	9.1	6.3	3.3	1.4	4.5	4.6	2.4	0.9
Onion Seed Treatment	4125.7	1946.1	162.5	674.8	656.9	1668.8	149.7	587.6	346.7	1348.1	120.0	460.7
Garlic Clove Treatment <sup>3</sup>	20488	8547	710	2720	2951	7205	644	2445	1603	5862	527	1926
Broadcast Bait Texas Leafcutter Ants	289.6	122.5	12.4	51.2	29.4	90.7	11.0	42.5	19.2	70.4	8.3	32.3
In-slit mole cricket	17.8	9.3	0.6	2.5	1.5	6.4	0.4	1.8	0.6	5.2	0.3	1.5
Broadcast Fire Ant	274.6	84.6	3.0	19.9	22.8	46.2	1.9	12.1	11.8	34.31	1.3	8.7

1- PCA correction was 0.86 for multiple crops.

2- Concentrations for narrow row spaced corn was estimated from In-Furrow corn scenario. Because the narrow row spacing will double the application rate of fipronil, estimate concentration will be 2X of the estimated concentrations for In-Furrow corn.

3- There is high uncertainty for the garlic clove treatment assessment due to the high application rate of cloves per acre. This rate is dependent on type of garlic, etc.

## SCI-GROW Simulations

Ground water concentrations were estimated using SC2.3 (July 29,2003). Aerobic soil metabolism rate, Koc, and application rate (lbs/A) for fipronil and its degradation products were derived from PRZM/EXAMS inputs. The proposed use on garlic clove treatment had the highest predicted concentration (4,020 ng/L) in ground water. Low concentrations of degradation products were estimated because of their high soil carbon sorption coefficients and low formation efficiencies. There is some uncertainty in the accuracy in degradation product concentrations due their high persistence in soils ( $t_{1/2}$ ~700 days).

Fipronil Use Patterns	Fipronil	MB136	MB513	MB950
Potato/Sweet Potato	16.1	0.642	0.192	0.219
Rutabagas/Turnips	21.1	0.796	0.385	0.274
In-Furrow Corn	21.1	0.796	0.385	0.274
In-Furrow Corn <sup>1</sup> Narrow Row	42.2	1.592	0.77	0.548
Seed Corn Treatment	2.86	0.103	0.0385	0.0547
Onion Seed Treatment	20.1	0.767	0.231	0.335
Garlic Clove Treatment	4020	154	46.2	67
Broadcast Bait Texas Leafcutter Ants	0.459	0.0175	0.005	0.007
In-slit mole cricket	8.05	0.308	0.077	0.109
Broadcast Fire Ant	2.01	0.0771	0.0192	0.0335

1- Because the narrow row spacing will double the application rate of fipronil of In-Furrow corn, the estimated concentration will be 2X the estimated concentration for In-Furrow corn.

## MONITORING DATA

Available monitoring data were taken from the several sources including a USGS presentation, registrant sponsored runoff studies, and rice monitoring studies.

The USGS found that most frequent detections (14 to 34%) of fipronil residues are associated with urban and integrated watersheds (Sandstrom and Madison, 2003). A maximum fipronil water concentration of 0.117  $\mu\text{g/L}$  was detected in the integrated (mixed land use) watersheds. These detections may be associated with the above-ground uses of fipronil in turf for fire ant control in urban environment.

Preliminary results from registrant sponsored monitoring data in NC, FL, and TX show fipronil (applied as Chipco Topchoice®) concentrations in runoff from turf areas immediately post-application during high rainfall events. The maximum total fipronil water concentrations was 0.47  $\mu\text{g/L}$  in an estuary at Gulf Breeze, FL. Fipronil residue concentrations in sediment were  $\leq 0.1 \mu\text{g/kg}$ .



USGS monitoring studies in the southwestern LA rice growing region indicate that fipronil residues accumulated in bed sediment as fipronil sulfide (0.636 to 24.8  $\mu\text{g}/\text{kg}$ ), desulfiny fipronil (0.55 to 7.01  $\mu\text{g}/\text{kg}$ ), fipronil sulfone (ND to 10.5  $\mu\text{g}/\text{kg}$ ). Water concentrations of fipronil residues ranged from 0.829 to 5.29  $\mu\text{g}/\text{kg}$ , which corresponded with the release of rice field water (USGS, 2003).

Based on preliminary data from the Louisiana Department of Agriculture and Forestry from 23 monitoring sites in Calcasieu, Jefferson-Davis, Allen, Evangeline, Acadia, and Vermilion Parishes, the maximum water concentration of fipronil residues was 8.41  $\mu\text{g}/\text{l}$  for fipronil, 1.96  $\mu\text{g}/\text{L}$  for MB46513, 0.50  $\mu\text{g}/\text{L}$  for MB46136, and 0.32  $\mu\text{g}/\text{L}$  for MB45950 from March 6, 2000 to May 15, 2000. The detections frequencies (number of detection/total number of samples) were 85% for fipronil, 32% for MB46513, 11.7% for MB46136, and 6.9% for MB45950. Because the monitoring data were derived from presentation materials, the level of detail is insufficient to assess data quality.

The registrant (Aventis) has submitted surface water monitoring data for the Mermentau River and Lake Arthur (MRID 453499-01). The Mermentau River drains a large portion of the rice acreage in southern Louisiana from the mouths of Bayou Plaquemine and Bayou Nezpique. It should be noted this area does not have any community water systems using surface source water. The monitoring program was designed to provide a snapshot of concentrations on May 11, 1999 from 0-to-1 feet and 4 to 6 feet depth. Low rainfall was observed (0.5 inches) from March 14 to May 9, 1999. Point samples were taken using a 1 L beaker for surface samples at depth of 1 feet and PVC tube sample at 5.5 feet depth. Samples were taken from 14 sampling points from the north to south including the mouth of the Bayou Plaquemine, mouth of the Bayou Nezpique, 10,8,6,4,2,1 miles north of Lake Arthur Bridge; Lake Arthur Bridge, and 1,2,3,4, and 5 miles south of Lake Arthur Bridge. The reviewer notes that sample preparation (e.g. filtering) is not described in the submission. Concentrations of Fipronil, MB46513, MB45950, and MB46136 in water were determined by LC/MS/MS method. The limit of detection (LOD) and limit of quantification (LOQ) were 0.004  $\mu\text{g}/\text{L}$  and 0.010  $\mu\text{g}/\text{L}$ , respectively. Recoveries from spiked water samples at 0.10  $\mu\text{g}/\text{L}$  ranged from 86.4 to 105.4%.

The maximum water concentration of fipronil residues at the mouth of the Bayou Plaquemine were 2.118  $\mu\text{g}/\text{L}$  for fipronil in the 4 to 6 feet sample, 1.004  $\mu\text{g}/\text{L}$  for MB46513 in the 0 to 1 feet sample, 0.269  $\mu\text{g}/\text{L}$  for MB45950 in the 0 to 1 feet sample, and 0.270  $\mu\text{g}/\text{L}$  for MB46136 in the 0 to 1 feet sample. The maximum total fipronil residue (summation of fipronil, MB46513, MB45950, and MB46136) concentration was 3.509  $\mu\text{g}/\text{L}$ . There was a slight decrease in concentration downstream from the mouth of Plaquemine river to 5 miles south of Lake Arthur (18 miles downstream); concentrations were 1.027  $\mu\text{g}/\text{L}$  for fipronil, 0.343  $\mu\text{g}/\text{L}$  for MB46513, 0.034  $\mu\text{g}/\text{L}$  for MB45950, and 0.130  $\mu\text{g}/\text{L}$  for MB46136.

### **Uncertainties, Assumptions, and Limitations in Modeling**

Major uncertainties in the modeling are associated with the adequate representation of field dissipation processes for some of the proposed fipronil uses. The modeling of a broadcast bait for control of Texas leaf cutter ants has uncertainties with the dissipation rate of fipronil from surface soil because the ants are expected to actively remove the bait from the soil surface. This dissipation process is not considered in the modeling. The proposed onion and corn seed uses of fipronil have uncertainties associated with the environmental availability

of fipronil seed surfaces. Because no seed release rate data are available, it was assumed 100% of the fipronil and its degradation products are available for degradation, runoff, and leaching.

Other uncertainties in the surface water modeling are predominately associated with persistence and formation efficiency of fipronil degradation products in terrestrial and aquatic environments. Formation efficiencies were modeled according to the maximum percent formation observed in aerobic soil metabolism studies. Although higher degradate formation efficiencies were observed for MB46513 and MB45950 in other laboratory studies (photodegradation in water and anaerobic aquatic), these degradation pathways are not expected to be important for below ground uses of fipronil such as in-furrow and in-slit applications.

The aerobic aquatic metabolism data (MRID 44261909) indicate that fipronil has a half-life of 14.5 days in aerobic aquatic environments. These data appear to contradict the persistence of fipronil ( $t_{1/2}$ =128 to 308 days) in aerobic soil metabolism studies. The registrant has submitted additional aerobic aquatic data showing first-order half-life for fipronil was 16 days for Ongar and 35.62 days for Manningtree sediment/water systems (RPA Document 201604). Based on the available aerobic aquatic metabolism data, the 90<sup>th</sup> percentile aerobic aquatic half-life for fipronil is 33.7 days. It's important to note that the aerobic aquatic metabolism studies were conducted under stratified redox conditions which lead to the formation of MB45950, a toxic degradation product. This compound was predominately associated with the sediment phase. Similar formation patterns were not observed in the aerobic soil metabolism studies (MRID 42928663).

Tier II modeling indicates the individual residues contribute substantially to the summed residue concentration of fipronil. The concentration of MB 46513 is expected to be conservative because its application rate is based on a maximum degradate formation efficiency (1%) from aerobic soil metabolism study (MRID 42918663). Lower concentrations of MB 46513 have been detected in other environmental fate studies. MB 45950 had low concentrations in all environmental fate studies except for the aquatic metabolism studies. The highest conversion efficiency of MB45950 was not considered because it is associated with anoxic (anaerobic environments). Therefore, the summation of degradation products is not expected to be conservative because the maximum degradate conversion efficiency was not assumed to occur under the same environmental conditions.

## Non-MRID References

- 1.) BASF/ Bayer CropScience Presentation at USEPA, December 7<sup>th</sup>, 2004.
- 2.) Sandstrom, M. and J. Madison. 2003. Determination of Fipronil and Degradates in Environmental-Water Samples by Solid Phase Extraction and Gas Chromatography/Mass Spectrometry (GC/MS). SECTAC Conference.)
- 3.) USGS Fact Sheet FS-010-03, March 2003

APPENDIX A-MODEL OUTPUT (Original Modeling)

PRZM-EXAMS SIMULATIONS

CORN SEED\_FIPRONIL

stored as MSCORSEEDFIP.out

Chemical: Fipronil

PRZM environment: MScomC.txt

modified Satday, 12 October 2002 at 17:06:02

EXAMS environment: ir298.exv

modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.05766	0.05231	0.03957	0.02362	0.01725	0.006084
1962	0.01392	0.01281	0.009925	0.006469	0.005023	0.002331
1963	0.02254	0.02087	0.01523	0.008468	0.006003	0.002685
1964	0.06851	0.0637	0.05001	0.02847	0.0208	0.006238
1965	0.03798	0.03485	0.02634	0.01545	0.01139	0.00379
1966	0.04179	0.03862	0.02892	0.01694	0.01216	0.004483
1967	0.01337	0.01235	0.009503	0.006337	0.004793	0.002633
1968	0.03931	0.03605	0.02664	0.01767	0.0142	0.004653
1969	0.03875	0.03595	0.03004	0.01711	0.01219	0.00427
1970	0.04122	0.03826	0.02873	0.01774	0.01279	0.004776
1971	0.007169	0.006755	0.005538	0.002494	0.002078	0.001055
1972	0.02402	0.02211	0.0167	0.01388	0.01185	0.004358
1973	0.1283	0.1214	0.09997	0.05847	0.04179	0.01205
1974	0.06447	0.05981	0.04422	0.03053	0.02623	0.007316
1975	0.01002	0.009218	0.007147	0.005557	0.005348	0.002359
1976	0.05717	0.05252	0.03775	0.02318	0.01884	0.005453
1977	0.02163	0.02058	0.01684	0.01064	0.008966	0.004032
1978	0.06358	0.0596	0.0434	0.02361	0.01658	0.005286
1979	0.1091	0.1014	0.08429	0.05485	0.03973	0.01093
1980	0.08491	0.07887	0.05899	0.03439	0.02449	0.008158
1981	0.02185	0.02031	0.01658	0.01057	0.007752	0.00256
1982	0.04013	0.03774	0.03012	0.01725	0.01231	0.005575
1983	0.05848	0.05413	0.04149	0.02866	0.02349	0.007284
1984	0.0783	0.0721	0.0586	0.03311	0.02349	0.006955
1985	0.06882	0.06363	0.04644	0.02577	0.01826	0.005918
1986	0.03922	0.03789	0.03125	0.02326	0.01705	0.004645
1987	0.1139	0.1054	0.07785	0.04311	0.03057	0.01127
1988	0.01181	0.01095	0.008966	0.006083	0.0057	0.003405
1989	0.02057	0.01895	0.01519	0.01124	0.009163	0.002946
1990	0.02256	0.02057	0.01607	0.01128	0.008696	0.004571

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.1283	0.1214	0.09997	0.05847	0.04179	0.01205
0.0645161290322581		0.1139	0.1054	0.08429	0.05485	0.03973 0.01127
0.0967741935483871		0.1091	0.1014	0.07785	0.04311	0.03057 0.01093
0.129032258064516	0.08491	0.07887	0.05899	0.03439	0.02623	0.008158
0.161290322580645	0.0783	0.0721	0.0586	0.03311	0.02449	0.007316
0.193548387096774	0.06882	0.0637	0.05001	0.03053	0.02349	0.007284
0.225806451612903	0.06851	0.06363	0.04644	0.02866	0.02349	0.006955
0.258064516129032	0.06447	0.05981	0.04422	0.02847	0.0208	0.006238
0.290322580645161	0.06358	0.0596	0.0434	0.02577	0.01884	0.006084
0.32258064516129	0.05848	0.05413	0.04149	0.02362	0.01826	0.005918
0.354838709677419	0.05766	0.05252	0.03957	0.02361	0.01725	0.005575
0.387096774193548	0.05717	0.05231	0.03775	0.02326	0.01705	0.005453
0.419354838709677	0.04179	0.03862	0.03125	0.02318	0.01658	0.005286
0.451612903225806	0.04122	0.03826	0.03012	0.01774	0.0142	0.004776
0.483870967741936	0.04013	0.03789	0.03004	0.01767	0.01279	0.004653
0.516129032258065	0.03931	0.03774	0.02892	0.01725	0.01231	0.004645
0.548387096774194	0.03922	0.03605	0.02873	0.01711	0.01219	0.004571
0.580645161290323	0.03875	0.03595	0.02664	0.01694	0.01216	0.004483
0.612903225806452	0.03798	0.03485	0.02634	0.01545	0.01185	0.004358
0.645161290322581	0.02402	0.02211	0.01684	0.01388	0.01139	0.00427

US EPA ARCHIVE DOCUMENT

0.67741935483871	0.02256	0.02087	0.0167	0.01128	0.009163	0.004032
0.709677419354839	0.02254	0.02058	0.01658	0.01124	0.008966	0.00379
0.741935483870968	0.02185	0.02057	0.01607	0.01064	0.008696	0.003405
0.774193548387097	0.02163	0.02031	0.01523	0.01057	0.007752	0.002946
0.806451612903226	0.02057	0.01895	0.01519	0.008468	0.006003	0.002685
0.838709677419355	0.01392	0.01281	0.009925	0.006469	0.0057	0.002633
0.870967741935484	0.01337	0.01235	0.009503	0.006337	0.005348	0.00256
0.903225806451613	0.01181	0.01095	0.008966	0.006083	0.005023	0.002359
0.935483870967742	0.01002	0.009218	0.007147	0.005557	0.004793	0.002331
0.967741935483871	0.007169	0.006755	0.005538	0.002494	0.002078	0.001055

0.1	0.106681	0.099147	0.075964	0.042238	0.030136	0.0106528		
							Average of yearly averages:	0.00526896666666667

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

Data used for this run:

Output File: MSCORSEEDFIP

Metfile: w13893.dvf

PRZM scenario: MScomC.txt

EXAMS environment file: ir298.exv

Chemical Name:	Fipronil				
Description	Variable Name	Value	Units	Comments	
Molecular weight	mwt	437	g/mol		
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol		
Vapor Pressure	vapr		torr		
Solubility	sol	2.4	mg/L		
Kd	Kd		mg/L		
Koc	Koc	727	mg/L		
Photolysis half-life	kdp	0.16	days	Half-life	
Aerobic Aquatic Metabolism	kbacw	33.7	days	Halfife	
Anaerobic Aquatic Metabolism	kbacs	33.7	days	Halfife	
Aerobic Soil Metabolism	asm	128	days	Halfife	
Hydrolysis:	pH 7		days	Half-life	
Method:	CAM	5	integer	See PRZM manual	
Incorporation Depth:	DEPI	4	cm		
Application Rate:	TAPP	0.02	kg/ha		
Application Efficiency:	APPEFF	1.0	fraction		
Spray Drift	DRFT		fraction of application rate applied to pond		
Application Date	Date	11-4	dd/mm or dd/mm or dd-mm or dd-mmm		
Record 17:	FILTRA				
	IPSCND				
	UPTKF				
Record 18:	PLVKRT				
	PLDKRT				
	FEXTRC	0.5			
Flag for Index Res. Run	IR		IR		
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)		

US EPA ARCHIVE DOCUMENT

# CORN SEED\_MB136

stored as MSEEDCORN136.out

Chemical: MB46136

PRZM environment: MScornC.txt

modified Satday, 12 October 2002 at 17:06:02

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.007226	0.006693	0.005504	0.004175	0.002974	0.001109
1962	0.00505	0.004747	0.003985	0.003526	0.00333	0.002728
1963	0.004549	0.004307	0.003752	0.003335	0.003184	0.002577
1964	0.01031	0.009627	0.008193	0.006075	0.005664	0.004404
1965	0.01154	0.01078	0.008928	0.006723	0.006291	0.005234
1966	0.009195	0.008697	0.007372	0.006022	0.005838	0.00473
1967	0.008616	0.008078	0.006974	0.004948	0.00462	0.00416
1968	0.01142	0.01063	0.00856	0.006891	0.006688	0.005051
1969	0.009125	0.008683	0.00765	0.006345	0.005886	0.005036
1970	0.007969	0.007583	0.006528	0.005654	0.005626	0.005015
1971	0.007581	0.007215	0.00613	0.005153	0.004871	0.003887
1972	0.01239	0.01182	0.01013	0.008806	0.007796	0.004484
1973	0.01531	0.01455	0.01253	0.009466	0.008382	0.0069
1974	0.01123	0.01069	0.009206	0.007965	0.007773	0.006652
1975	0.00844	0.008194	0.007236	0.006223	0.00612	0.005257
1976	0.01264	0.01175	0.009139	0.007176	0.006755	0.004991
1977	0.008482	0.008183	0.00712	0.005797	0.006019	0.004786
1978	0.01624	0.01511	0.01276	0.008362	0.00699	0.005815
1979	0.01474	0.0139	0.0121	0.009983	0.009145	0.007389
1980	0.01222	0.01156	0.009708	0.008075	0.007453	0.006265
1981	0.009741	0.00912	0.007759	0.005977	0.005331	0.004733
1982	0.01387	0.01334	0.01103	0.008517	0.007644	0.005585
1983	0.01396	0.01315	0.01195	0.009278	0.008033	0.007251
1984	0.01275	0.0121	0.01072	0.0086	0.007906	0.006977
1985	0.01055	0.01002	0.008418	0.006816	0.006437	0.005602
1986	0.01595	0.01523	0.01205	0.009556	0.007814	0.004971
1987	0.01781	0.01701	0.01182	0.01036	0.008591	0.006834
1988	0.01695	0.01587	0.01403	0.01075	0.009792	0.007823
1989	0.01336	0.01274	0.01122	0.01058	0.01012	0.007791
1990	0.01138	0.01079	0.009361	0.008141	0.007697	0.006688

## Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.01781	0.01701	0.01403	0.01075	0.01012	0.007823
0.0645161290322581		0.01695	0.01587	0.01276	0.01058	0.009792
0.0967741935483871		0.01624	0.01523	0.01253	0.01036	0.009145
0.129032258064516	0.01595	0.01511	0.0121	0.009983	0.008591	0.007251
0.161290322580645	0.01531	0.01455	0.01205	0.009556	0.008382	0.006977
0.193548387096774	0.01474	0.0139	0.01195	0.009466	0.008033	0.0069
0.225806451612903	0.01396	0.01334	0.01182	0.009278	0.007906	0.006834
0.258064516129032	0.01387	0.01315	0.01122	0.008806	0.007814	0.006688
0.290322580645161	0.01336	0.01274	0.01103	0.0086	0.007796	0.006652
0.32258064516129	0.01275	0.0121	0.01072	0.008517	0.007773	0.006265
0.354838709677419	0.01264	0.01182	0.01013	0.008362	0.007697	0.005815
0.387096774193548	0.01239	0.01175	0.009708	0.008141	0.007644	0.005602
0.419354838709677	0.01222	0.01156	0.009361	0.008075	0.007453	0.005585
0.451612903225806	0.01154	0.01079	0.009206	0.007965	0.00699	0.005257
0.483870967741936	0.01142	0.01078	0.009139	0.007176	0.006755	0.005234
0.516129032258065	0.01138	0.01069	0.008928	0.006891	0.006688	0.005051
0.548387096774194	0.01123	0.01063	0.00856	0.006816	0.006437	0.005036
0.580645161290323	0.01055	0.01002	0.008418	0.006723	0.006291	0.005015
0.612903225806452	0.01031	0.009627	0.008193	0.006345	0.00612	0.004991
0.645161290322581	0.009741	0.00912	0.007759	0.006223	0.006019	0.004971
0.67741935483871	0.009125	0.008697	0.00765	0.006075	0.005886	0.004786
0.709677419354839	0.009125	0.008683	0.007372	0.006022	0.005838	0.004733
0.741935483870968	0.008616	0.008194	0.007236	0.005977	0.005664	0.00473

0.774193548387097	0.008482	0.008183	0.00712	0.005797	0.005626	0.004484
0.806451612903226	0.00844	0.008078	0.006974	0.005654	0.005331	0.004404
0.838709677419355	0.007969	0.007583	0.006528	0.005153	0.004871	0.00416
0.870967741935484	0.007581	0.007215	0.00613	0.004948	0.00462	0.003887
0.903225806451613	0.007226	0.006693	0.005504	0.004175	0.00333	0.002728
0.935483870967742	0.00505	0.004747	0.003985	0.003526	0.003184	0.002577
0.967741935483871	0.004549	0.004307	0.003752	0.003335	0.002974	0.001109
0.1	0.016211	0.015218	0.012487	0.0103223	0.0090896	0.0073752
					Average of yearly averages:	0.0053575

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

Data used for this run:

Output File: MSEEDCORN136

Metfile: w13893.dvf

PRZM scenario: MScornC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46136

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	453	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.16	mg/L	
Kd	Kd		mg/L	
Koc	Koc	4208	mg/L	
Photolysis half-life	kdp	7	days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	0.0048	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mm/yy or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

# CORN SEED\_MB513

stored as MSEEDCORN513.out

Chemical: MB46513

PRZM environment: MScomC.txt modified Satday, 12 October 2002 at 17:06:02

EXAMS environment: ir298.exv modified Thnday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
1961	0.0005639		0.0005451		0.0004959	0.000403	0.0002966	0.0001407
1962	0.0004478		0.0004346		0.0003949	0.0003408	0.0003072	0.0002164
1963	0.0002778		0.0002697		0.0002406	0.0001975	0.0001768	0.0001562
1964	0.0007226		0.0006966		0.0006162	0.0004815	0.0004148	0.0002704
1965	0.0007189		0.0006919		0.0006201	0.0004879	0.0004204	0.0002515
1966	0.0005202		0.0005043		0.0004518	0.0003679	0.0003276	0.0002622
1967	0.0003827		0.0003706		0.0003465	0.0002529	0.0002318	0.0001991
1968	0.0007193		0.0006915		0.0006103	0.0005288	0.0004962	0.0002633
1969	0.0004898		0.0004766		0.0004445	0.0003689	0.0003305	0.0002662
1970	0.000483	0.0004681		0.0004235		0.0003487	0.0003108	0.0002614
1971	0.0003381		0.0003263		0.0002942	0.0001911	0.0001834	0.0001426
1972	0.0006527		0.0006302		0.0005834	0.0005317	0.0004922	0.0002355
1973	0.0012	0.001157	0.001035	0.0008222		0.000709	0.0004381	
1974	0.0007005		0.0006783		0.0006037		0.0005432	0.0005237
1975	0.0003888		0.000379	0.0003448		0.0003185	0.0002806	0.0001979
1976	0.0008706		0.0008362		0.0007147	0.0005818	0.0005476	0.0002699
1977	0.0005574		0.0005391		0.0004927	0.0004098	0.0004042	0.0002771
1978	0.0006525		0.0006388		0.0005626	0.0004456	0.0003893	0.0002982
1979	0.000925	0.0008924		0.0008428		0.0007281	0.0006358	0.0003841
1980	0.0007453		0.0007195		0.0006281	0.0004949	0.0004308	0.000325
1981	0.0005422		0.0005227		0.0004867	0.0003923	0.0003269	0.0002319
1982	0.0006162		0.0006019		0.0005498	0.0004438	0.0004183	0.0002924
1983	0.0007954		0.0007697		0.0006781	0.0005545	0.0004945	0.0003779
1984	0.0008595		0.0008302		0.0007402	0.000596	0.0005188	0.0003566
1985	0.0006599		0.0006376		0.0005583	0.0004402	0.0003838	0.0002785
1986	0.001052	0.001024	0.0009057		0.0007375	0.0005699	0.0002602	
1987	0.001051	0.001016	0.0008892		0.0007002	0.0006101	0.0004668	
1988	0.0007605		0.0007357		0.0006748	0.0005748	0.0005195	0.0003874
1989	0.0005318		0.000519	0.0004967		0.000437	0.000411	0.0003119
1990	0.0005567		0.0005418		0.0004906	0.0004608	0.000423	0.0002985

## Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129	0.0012	0.001157	0.001035	0.0008222		0.000709	0.0004668	
0.0645161290322581		0.001052	0.001024	0.0009057		0.0007375	0.0006358	0.0004381
0.0967741935483871		0.001051	0.001016	0.0008892		0.0007281	0.0006101	0.0003874
0.129032258064516	0.000925	0.0008924		0.0008428		0.0007002	0.0005699	0.0003841
0.161290322580645	0.0008706		0.0008362		0.0007402	0.000596	0.0005476	0.0003779
0.193548387096774	0.0008595		0.0008302		0.0007147	0.0005818	0.0005237	0.0003566
0.225806451612903	0.0007954		0.0007697		0.0006781	0.0005748	0.0005195	0.0003473
0.258064516129032	0.0007605		0.0007357		0.0006748	0.0005545	0.0005188	0.000325
0.290322580645161	0.0007453		0.0007195		0.0006281	0.0005432	0.0004962	0.0003119
0.32258064516129	0.0007226		0.0006966		0.0006201	0.0005317	0.0004945	0.0002985
0.354838709677419	0.0007193		0.0006919		0.0006162	0.0005288	0.0004922	0.0002982
0.387096774193548	0.0007189		0.0006915		0.0006103	0.0004949	0.0004308	0.0002924
0.419354838709677	0.0007005		0.0006783		0.0006037	0.0004879	0.000423	0.0002785
0.451612903225806	0.0006599		0.0006388		0.0005834	0.0004815	0.0004204	0.0002771
0.483870967741936	0.0006527		0.0006376		0.0005626	0.0004608	0.0004183	0.0002704
0.516129032258065	0.0006525		0.0006302		0.0005583	0.0004456	0.0004148	0.0002699
0.548387096774194	0.0006162		0.0006019		0.0005498	0.0004438	0.000411	0.0002662
0.580645161290323	0.0005639		0.0005451		0.0004967	0.0004402	0.0004042	0.0002633
0.612903225806452	0.0005574		0.0005418		0.0004959	0.000437	0.0003893	0.0002622
0.645161290322581	0.0005567		0.0005391		0.0004927	0.0004098	0.0003838	0.0002614



0.67741935483871	0.0005422	0.0005227	0.0004906	0.000403	0.0003305	0.0002602
0.709677419354839	0.0005318	0.000519	0.0004867	0.0003923	0.0003276	0.0002515
0.741935483870968	0.0005202	0.0005043	0.0004518	0.0003689	0.0003269	0.0002355
0.774193548387097	0.0004898	0.0004766	0.0004445	0.0003679	0.0003108	0.0002319
0.806451612903226	0.000483	0.0004681	0.0004235	0.0003487	0.0003072	0.0002164
0.838709677419355	0.0004478	0.0004346	0.0003949	0.0003408	0.0002966	0.0001991
0.870967741935484	0.0003888	0.000379	0.0003465	0.0003185	0.0002806	0.0001979
0.903225806451613	0.0003827	0.0003706	0.0003448	0.0002529	0.0002318	0.0001562
0.935483870967742	0.0003381	0.0003263	0.0002942	0.0001975	0.0001834	0.0001426
0.967741935483871	0.0002778	0.0002697	0.0002406	0.0001911	0.0001768	0.0001407

0.1	0.0010384	0.00100364	0.00088456	0.00072531	0.00060608
0.00038707					

Average of yearly averages: 0.000282173333333333

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

Data used for this run:

Output File: MSEEDCORN513

Metfile: w13893.dvf

PRZM scenario: MScornC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46513

Description	Variable Name	Value	Units	Comments
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Molecular weight	mwt	389	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.95	mg/L	
Kd	Kd		mg/L	
Koc	Koc	1290	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1320	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1320	days	Halfife
Aerobic Soil Metabolism	asm	660	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	0.0002	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mmm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

## CORN SEED\_MB950

stored as MSSEEDCORN950.out

Chemical: MB45950

PRZM environment: MScomC.txt modified Satday, 12 October 2002 at 17:06:02

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
1961	0.001944	0.00184	0.001578	0.001205	0.0008646		0.0003408
1962	0.001375	0.001315	0.001176	0.00106	0.0009822		0.0007512
1963	0.00102	0.0009838		0.0008698		0.000784	0.0007642
1964	0.002455	0.002332	0.002007	0.00152	0.001359	0.001042	
1965	0.002551	0.002421	0.002083	0.001603	0.001402	0.001143	
1966	0.001867	0.001793	0.001575	0.001318	0.001293	0.001049	
1967	0.001777	0.001694	0.001526	0.001089	0.001005	0.000898	
1968	0.002506	0.002372	0.001999	0.001659	0.001592	0.001105	
1969	0.00191	0.001841	0.001675	0.001398	0.00129	0.001093	
1970	0.001749	0.001685	0.0015	0.001271	0.001225	0.001093	
1971	0.001533	0.001459	0.001261	0.001021	0.000985	0.0007725	
1972	0.002653	0.002566	0.002282	0.002059	0.001828	0.0009798	
1973	0.003643	0.003488	0.003067	0.002366	0.00207	0.001587	
1974	0.002395	0.002306	0.002016	0.001839	0.001789	0.00144	
1975	0.00157	0.001518	0.001351	0.001276	0.001176	0.001027	
1976	0.002852	0.002695	0.00219	0.001738	0.001639	0.001071	
1977	0.001949	0.001882	0.001676	0.001365	0.001413	0.001062	
1978	0.003193	0.003031	0.002645	0.001767	0.001478	0.001268	
1979	0.003196	0.003053	0.002761	0.002314	0.002054	0.001583	
1980	0.002629	0.002515	0.002144	0.001711	0.001562	0.001318	
1981	0.002094	0.001989	0.001766	0.00138	0.00119	0.0009921	
1982	0.002905	0.002822	0.002445	0.001888	0.001705	0.001217	
1983	0.002898	0.002771	0.00254	0.002002	0.001786	0.001596	
1984	0.00291	0.002788	0.002487	0.001999	0.001789	0.001512	
1985	0.002316	0.00222	0.001906	0.001523	0.00138	0.001175	
1986	0.003686	0.003553	0.002964	0.002367	0.001894	0.001074	
1987	0.003752	0.003615	0.002786	0.002423	0.001996	0.001609	
1988	0.003592	0.003419	0.003067	0.002477	0.002247	0.001731	
1989	0.002752	0.002658	0.002392	0.002252	0.002138	0.00161	
1990	0.002244	0.002159	0.001877	0.001706	0.001589	0.00139	

### Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	0.003752	0.003615	0.003067	0.002477	0.002247	0.001731	
0.0645161290322581		0.003686	0.003553	0.003067	0.002423	0.002138	0.00161
0.0967741935483871		0.003643	0.003488	0.002964	0.002367	0.00207	0.001609
0.129032258064516	0.003592	0.003419	0.002786	0.002366	0.002054	0.001596	
0.161290322580645	0.003196	0.003053	0.002761	0.002314	0.001996	0.001587	
0.193548387096774	0.003193	0.003031	0.002645	0.002252	0.001894	0.001583	
0.225806451612903	0.00291	0.002822	0.00254	0.002059	0.001828	0.001512	
0.258064516129032	0.002905	0.002788	0.002487	0.002002	0.001789	0.00144	
0.290322580645161	0.002898	0.002771	0.002445	0.001999	0.001789	0.00139	
0.32258064516129	0.002852	0.002695	0.002392	0.001888	0.001786	0.001318	
0.354838709677419	0.002752	0.002658	0.002282	0.001839	0.001705	0.001268	
0.387096774193548	0.002653	0.002566	0.00219	0.001767	0.001639	0.001217	
0.419354838709677	0.002629	0.002515	0.002144	0.001738	0.001592	0.001175	
0.451612903225806	0.002551	0.002421	0.002083	0.001711	0.001589	0.001143	
0.483870967741936	0.002506	0.002372	0.002016	0.001706	0.001562	0.001105	
0.516129032258065	0.002455	0.002332	0.002007	0.001659	0.001478	0.001093	
0.548387096774194	0.002395	0.002306	0.001999	0.001603	0.001413	0.001093	

0.580645161290323	0.002316	0.00222	0.001906	0.001523	0.001402	0.001074		
0.612903225806452	0.002244	0.002159	0.001877	0.00152	0.00138	0.001071		
0.645161290322581	0.002094	0.001989	0.001766	0.001398	0.001359	0.001062		
0.67741935483871	0.001949	0.001882	0.001676	0.00138	0.001293	0.001049		
0.709677419354839	0.001944	0.001841	0.001675	0.001365	0.00129	0.001042		
0.741935483870968	0.00191	0.00184	0.001578	0.001318	0.001225	0.001027		
0.774193548387097	0.001867	0.001793	0.001575	0.001276	0.00119	0.0009921		
0.806451612903226	0.001777	0.001694	0.001526	0.001271	0.001176	0.0009798		
0.838709677419355	0.001749	0.001685	0.0015	0.001205	0.001005	0.000898		
0.870967741935484	0.00157	0.001518	0.001351	0.001089	0.000985	0.0007725		
0.903225806451613	0.001533	0.001459	0.001261	0.00106	0.0009822	0.0007512		
0.935483870967742	0.001375	0.001315	0.001176	0.001021	0.0008646	0.0006239		
0.967741935483871	0.00102	0.0009838		0.0008698	0.000784	0.0007642	0.0003408	
0.1	0.0036379	0.0034811		0.0029462	0.0023669	0.0020684	0.0016077	
				Average of yearly averages:	0.001171776666666667			

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

Data used for this run:

Output File: MSSEEDCORN950

Metfile: w13893.dvf

PRZM scenario: MScomC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB45950

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	421	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.1	mg/L	
Kd	Kd		mg/L	
Koc	Koc	2719	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	0.0009	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

**Fireant\_Fipronil**

stored as FLTURFFIP.out

Chemical: Fipronil

PRZM environment: FLturFC.txt modified Monday, 16 June 2003 at 14:48:06

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

Metfile: w12834.dvf modified Wedday, 3 July 2002 at 09:04:28

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.1112	0.1012	0.07535	0.04425	0.03707	0.01081
1962	0.1383	0.1251	0.08696	0.06923	0.05288	0.01423
1963	0.2361	0.2131	0.1508	0.09055	0.07503	0.021
1964	0.3392	0.3079	0.2449	0.1297	0.1084	0.03197
1965	0.2021	0.1836	0.1319	0.07575	0.05398	0.01411
1966	0.2722	0.2469	0.1899	0.1339	0.1218	0.0337
1967	0.1035	0.09404	0.06947	0.04825	0.04278	0.01278
1968	0.3393	0.3085	0.2301	0.1419	0.1033	0.02684
1969	0.09622	0.08694	0.07564	0.05253	0.03791	0.0156
1970	0.0109	0.009858	0.006685	0.004731	0.003514	0.001378
1971	0.129	0.117	0.07996	0.04657	0.04129	0.01469
1972	0.1623	0.1489	0.1045	0.05865	0.04715	0.01652
1973	0.03311	0.02996	0.02191	0.01749	0.01355	0.00384
1974	0.06356	0.05772	0.04702	0.03349	0.029	0.008294
1975	0.07795	0.07109	0.05107	0.02729	0.02521	0.007793
1976	0.2019	0.1838	0.1313	0.09857	0.07386	0.01939
1977	0.06682	0.06018	0.04591	0.03688	0.0274	0.01033
1978	0.275	0.2493	0.1703	0.1041	0.08486	0.02415
1979	0.2725	0.249	0.1707	0.08854	0.07687	0.02182
1980	0.04476	0.04057	0.02923	0.02143	0.01861	0.005438
1981	0.07646	0.06915	0.05905	0.03527	0.02827	0.009341
1982	0.186	0.1681	0.1163	0.06799	0.05461	0.01597
1983	0.1692	0.1533	0.1132	0.06689	0.05107	0.01522
1984	0.3243	0.2948	0.2028	0.1079	0.07865	0.02117
1985	0.06761	0.06092	0.04092	0.02232	0.025	0.00777
1986	0.127	0.1143	0.08616	0.06094	0.04417	0.01141
1987	0.0188	0.01695	0.01128	0.00654	0.006337	0.002743
1988	0.03103	0.028	0.01889	0.00978	0.00749	0.003997
1989	0.07237	0.06712	0.04884	0.02642	0.01887	0.009058
1990	0.02327	0.02091	0.01391	0.009053	0.007438	0.002603

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.3393	0.3085	0.2449	0.1419	0.1218	0.0337
0.0645161290322581		0.3392	0.3079	0.2301	0.1339	0.1084
0.0967741935483871		0.3243	0.2948	0.2028	0.1297	0.1033
0.129032258064516	0.275	0.2493	0.1899	0.1079	0.08486	0.02415
0.161290322580645	0.2725	0.249	0.1707	0.1041	0.07865	0.02182
0.193548387096774	0.2722	0.2469	0.1703	0.09857	0.07687	0.02117
0.225806451612903	0.2361	0.2131	0.1508	0.09055	0.07503	0.021
0.258064516129032	0.2021	0.1838	0.1319	0.08854	0.07386	0.01939
0.290322580645161	0.2019	0.1836	0.1313	0.07575	0.05461	0.01652
0.32258064516129	0.186	0.1681	0.1163	0.06923	0.05398	0.01597
0.354838709677419	0.1692	0.1533	0.1132	0.06799	0.05288	0.0156
0.387096774193548	0.1623	0.1489	0.1045	0.06689	0.05107	0.01522
0.419354838709677	0.1383	0.1251	0.08696	0.06094	0.04715	0.01469
0.451612903225806	0.129	0.117	0.08616	0.05865	0.04417	0.01423

0.483870967741936	0.127	0.1143	0.07996	0.05253	0.04278	0.01411
0.516129032258065	0.1112	0.1012	0.07564	0.04825	0.04129	0.01278
0.548387096774194	0.1035	0.09404	0.07535	0.04657	0.03791	0.01141
0.580645161290323	0.09622	0.08694	0.06947	0.04425	0.03707	0.01081
0.612903225806452	0.07795	0.07109	0.05905	0.03688	0.029	0.01033
0.645161290322581	0.07646	0.06915	0.05107	0.03527	0.02827	0.009341
0.67741935483871	0.07237	0.06712	0.04884	0.03349	0.0274	0.009058
0.709677419354839	0.06761	0.06092	0.04702	0.02729	0.02521	0.008294
0.741935483870968	0.06682	0.06018	0.04591	0.02642	0.025	0.007793
0.774193548387097	0.06356	0.05772	0.04092	0.02232	0.01887	0.00777
0.806451612903226	0.04476	0.04057	0.02923	0.02143	0.01861	0.005438
0.838709677419355	0.03311	0.02996	0.02191	0.01749	0.01355	0.003997
0.870967741935484	0.03103	0.028	0.01889	0.00978	0.00749	0.00384
0.903225806451613	0.02327	0.02091	0.01391	0.009053	0.007438	0.002743
0.935483870967742	0.0188	0.01695	0.01128	0.00654	0.006337	0.002603
0.967741935483871	0.0109	0.009858	0.006685	0.004731	0.003514	0.001378
0.1	0.31937	0.29025	0.20151	0.12752	0.101456	0.026571
Average of yearly averages:						0.0137988333333333

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

Data used for this run:

Output File: FLTURFFIP

Metfile: w12834.dvf

PRZM scenario: FLturfC.txt

EXAMS environment file: ir298.exv

Chemical Name: Fipronil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	437	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	2.4	mg/L	
Kd	Kd		mg/L	
Koc	Koc	727	mg/L	
Photolysis half-life	kdp	0.16	days	Half-life
Aerobic Aquatic Metabolism	kbacw	33.7	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	33.7	days	Halfife
Aerobic Soil Metabolism	asm	128	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	8	integer	Sec PRZM manual
Incorporation Depth:	DEPI	0.1	cm	
Application Rate:	TAPP	0.014	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mm or dd- <del>mm</del> or dd- <del>mmm</del>	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

Description Variable Name Value Units Comments

Molecular weight mwt 437 g/mol

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

Vapor Pressure vapr torr

Solubility sol 2.4 mg/L

Kd Kd mg/L

Koc Koc 727 mg/L

Photolysis half-life kdp 0.16 days Half-life

Aerobic Aquatic Metabolism kbacw 33.7 days Halfife

Anaerobic Aquatic Metabolism kbacs 33.7 days Halfife

Aerobic Soil Metabolism asm 128 days Halfife

Hydrolysis: pH 7 days Half-life

Method: CAM 8 integer Sec PRZM manual

Incorporation Depth: DEPI 0.1 cm

Application Rate: TAPP 0.014 kg/ha

Application Efficiency: APPEFF 1.0 fraction

Spray Drift DRFT fraction of application rate applied to pond

Application Date Date 11-4 dd/mm or dd/mm or dd-~~mm~~ or dd-~~mmm~~

Record 17: FILTRA

IPSCND

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR IR

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

US EPA ARCHIVE DOCUMENT

**FIREANT\_MB136**

stored as FLTURF136.out

Chemical: MB46136

PRZM environment: FLturfC.txt modified Monday, 16 June 2003 at 14:48:06

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

Metfile: w12834.dvf modified Wedday, 3 July 2002 at 09:04:28

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.0229	0.0214	0.01699	0.01304	0.0127	0.005582
1962	0.0419	0.03964	0.03314	0.02617	0.02601	0.01567
1963	0.07573	0.07098	0.0576	0.04571	0.04073	0.02869
1964	0.09689	0.09213	0.07884	0.06502	0.0614	0.04572
1965	0.07363	0.07076	0.06243	0.05374	0.05046	0.04366
1966	0.133	0.1254	0.1024	0.08681	0.07952	0.05428
1967	0.07233	0.06985	0.06399	0.05619	0.0553	0.04945
1968	0.1055	0.09993	0.08696	0.07913	0.07334	0.05607
1969	0.08885	0.08536	0.07795	0.06927	0.06688	0.05606
1970	0.05903	0.0585	0.05689	0.05549	0.05438	0.04613
1971	0.06756	0.0651	0.05888	0.05252	0.05067	0.04312
1972	0.08069	0.07727	0.06814	0.05921	0.05731	0.04842
1973	0.0507	0.05039	0.04937	0.04803	0.04709	0.04309
1974	0.0731	0.07	0.06051	0.05236	0.05021	0.03994
1975	0.04266	0.04164	0.03877	0.03748	0.03686	0.03526
1976	0.09391	0.08855	0.07244	0.05648	0.05166	0.03922
1977	0.05646	0.05456	0.05082	0.04659	0.04421	0.03881
1978	0.05639	0.05431	0.04984	0.04448	0.04482	0.04025
1979	0.07766	0.07443	0.06364	0.05652	0.05593	0.04874
1980	0.0477	0.04754	0.04691	0.0462	0.04541	0.04094
1981	0.06413	0.06124	0.05379	0.04659	0.04283	0.03522
1982	0.07428	0.07072	0.06071	0.05294	0.04952	0.03971
1983	0.06511	0.06274	0.05585	0.04896	0.04871	0.04216
1984	0.08442	0.08065	0.06921	0.05792	0.05482	0.04802
1985	0.05618	0.05448	0.04967	0.04591	0.04382	0.04139
1986	0.07234	0.06921	0.06354	0.05357	0.05017	0.0415
1987	0.04181	0.0412	0.03946	0.03781	0.03736	0.03367
1988	0.05061	0.04824	0.04108	0.03223	0.02985	0.02793
1989	0.09858	0.09396	0.07769	0.05767	0.05044	0.03724
1990	0.04479	0.04387	0.0412	0.03794	0.03751	0.03352

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.133	0.1254	0.1024	0.08681	0.07952	0.05607
0.0645161290322581	0.1055	0.09993	0.08696	0.07913	0.07334	0.05606
0.0967741935483871	0.09858	0.09396	0.07884	0.06927	0.06688	0.05428
0.129032258064516	0.09689	0.09213	0.07795	0.06502	0.0614	0.04945
0.161290322580645	0.09391	0.08855	0.07769	0.05921	0.05731	0.04874
0.193548387096774	0.08885	0.08536	0.07244	0.05792	0.05593	0.04842
0.225806451612903	0.08442	0.08065	0.06921	0.05767	0.0553	0.04802
0.258064516129032	0.08069	0.07727	0.06814	0.05652	0.05482	0.04613
0.290322580645161	0.07766	0.07443	0.06399	0.05648	0.05438	0.04572
0.32258064516129	0.07573	0.07098	0.06364	0.05619	0.05166	0.04366

0.354838709677419	0.07428	0.07076	0.06354	0.05549	0.05067	0.04312
0.387096774193548	0.07363	0.07072	0.06243	0.05374	0.05046	0.04309
0.419354838709677	0.0731	0.07	0.06071	0.05357	0.05044	0.04216
0.451612903225806	0.07234	0.06985	0.06051	0.05294	0.05021	0.0415
0.483870967741936	0.07233	0.06921	0.05888	0.05252	0.05017	0.04139
0.516129032258065	0.06756	0.0651	0.0576	0.05236	0.04952	0.04094
0.548387096774194	0.06511	0.06274	0.05689	0.04896	0.04871	0.04025
0.580645161290323	0.06413	0.06124	0.05585	0.04803	0.04709	0.03994
0.612903225806452	0.05903	0.0585	0.05379	0.04659	0.04541	0.03971
0.645161290322581	0.05646	0.05456	0.05082	0.04659	0.04482	0.03922
0.67741935483871	0.05639	0.05448	0.04984	0.0462	0.04421	0.03881
0.709677419354839	0.05618	0.05431	0.04967	0.04591	0.04382	0.03724
0.741935483870968	0.0507	0.05039	0.04937	0.04571	0.04283	0.03526
0.774193548387097	0.05061	0.04824	0.04691	0.04448	0.04073	0.03522
0.806451612903226	0.0477	0.04754	0.0412	0.03794	0.03751	0.03367
0.838709677419355	0.04479	0.04387	0.04108	0.03781	0.03736	0.03352
0.870967741935484	0.04266	0.04164	0.03946	0.03748	0.03686	0.02869
0.903225806451613	0.0419	0.0412	0.03877	0.03223	0.02985	0.02793
0.935483870967742	0.04181	0.03964	0.03314	0.02617	0.02601	0.01567
0.967741935483871	0.0229	0.0214	0.01699	0.01304	0.0127	0.005582

0.1                    0.098411   0.093777   0.078751   0.068845   0.066332   0.053797                    Average of yearly averages:                    0.0399820666666667

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

Data used for this run:

Output File: FLTURF136

Metfile: w12834.dvf  
 PRZM scenario: FLturfC.txt  
 EXAMS environment file: ir298.exv  
 Chemical Name: MB46136

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	453	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.16	mg/L	
Kd	Kd		mg/L	
Koc	Koc	4208	mg/L	
Photolysis half-life	kdp	7	days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	8	integer	See PRZM manual
Incorporation Depth:	DEPI	0.1	cm	
Application Rate:	TAPP	0.0033	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

US EPA ARCHIVE DOCUMENT

**FIREANT\_MB513**

stored as FLTURF513.out

Chemical: MB46513

PRZM environment: FLturfC.txt modified Monday, 16 June 2003 at 14:48:06

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

Metfile: w12834.dvf modified Wedday, 3 July 2002 at 09:04:28

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
1961	0.001303	0.00127	0.001152	0.000996	0.0009431		0.0004396
1962	0.00206	0.002007	0.001841	0.001672	0.001631	0.001005	
1963	0.003335	0.003251	0.002979	0.00262	0.002398	0.00157	
1964	0.003548	0.00349	0.003291	0.003052	0.002945	0.002307	
1965	0.003217	0.003158	0.002939	0.002611	0.002441	0.001968	
1966	0.005261	0.005134	0.004674	0.004162	0.003897	0.002471	
1967	0.002876	0.00283	0.002728	0.002474	0.002416	0.002078	
1968	0.004225	0.004125	0.003892	0.003757	0.00351	0.00235	
1969	0.0032	0.003144	0.00303	0.002768	0.00268	0.002184	
1970	0.002189	0.002177	0.002131	0.002033	0.001967	0.00154	
1971	0.002296	0.002251	0.002112	0.001956	0.001914	0.001529	
1972	0.002771	0.00272	0.002534	0.002241	0.002215	0.001788	
1973	0.00194	0.001926	0.001871	0.001773	0.00171	0.001477	
1974	0.001988	0.001956	0.001839	0.001742	0.00169	0.001303	
1975	0.001383	0.001367	0.001316	0.00125	0.00123	0.001132	
1976	0.003237	0.003155	0.002857	0.002398	0.002183	0.001428	
1977	0.002162	0.002122	0.001986	0.001841	0.001756	0.001368	
1978	0.00251	0.002464	0.002367	0.002132	0.00211	0.001692	
1979	0.003043	0.002993	0.002755	0.002522	0.002478	0.001933	
1980	0.001719	0.001711	0.001679	0.001616	0.001571	0.001398	
1981	0.002286	0.002236	0.002075	0.00185	0.001711	0.001196	
1982	0.002725	0.002664	0.002471	0.002273	0.002139	0.001519	
1983	0.002507	0.002455	0.002273	0.001998	0.001959	0.001584	
1984	0.003306	0.003233	0.002964	0.002574	0.002421	0.001827	
1985	0.001922	0.001895	0.001794	0.001628	0.001576	0.001491	
1986	0.002647	0.002588	0.002454	0.002127	0.001973	0.001393	
1987	0.001274	0.001268	0.001244	0.001215	0.001186	0.00103	
1988	0.001334	0.001308	0.001215	0.0009868		0.0009149	0.0008064
1989	0.002753	0.002685	0.002502	0.002113	0.001871	0.00126	
1990	0.001481	0.001468	0.00142	0.001349	0.001322	0.001114	

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	0.005261	0.005134	0.004674	0.004162	0.003897	0.002471	
0.0645161290322581		0.004225	0.004125	0.003892	0.003757	0.00351	0.00235
0.0967741935483871		0.003548	0.00349	0.003291	0.003052	0.002945	0.002307
0.129032258064516	0.003335	0.003251	0.00303	0.002768	0.00268	0.002184	
0.161290322580645	0.003306	0.003233	0.002979	0.00262	0.002478	0.002078	



0.193548387096774	0.003237	0.003158	0.002964	0.002611	0.002441	0.001968
0.225806451612903	0.003217	0.003155	0.002939	0.002574	0.002421	0.001933
0.258064516129032	0.0032	0.003144	0.002857	0.002522	0.002416	0.001827
0.290322580645161	0.003043	0.002993	0.002755	0.002474	0.002398	0.001788
0.32258064516129	0.002876	0.00283	0.002728	0.002398	0.002215	0.001692
0.354838709677419	0.002771	0.00272	0.002534	0.002273	0.002183	0.001584
0.387096774193548	0.002753	0.002685	0.002502	0.002241	0.002139	0.00157
0.419354838709677	0.002725	0.002664	0.002471	0.002132	0.00211	0.00154
0.451612903225806	0.002647	0.002588	0.002454	0.002127	0.001973	0.001529
0.483870967741936	0.00251	0.002464	0.002367	0.002113	0.001967	0.001519
0.516129032258065	0.002507	0.002455	0.002273	0.002033	0.001959	0.001491
0.548387096774194	0.002296	0.002251	0.002131	0.001998	0.001914	0.001477
0.580645161290323	0.002286	0.002236	0.002112	0.001956	0.001871	0.001428
0.612903225806452	0.002189	0.002177	0.002075	0.00185	0.001756	0.001398
0.645161290322581	0.002162	0.002122	0.001986	0.001841	0.001711	0.001393
0.67741935483871	0.00206	0.002007	0.001871	0.001773	0.00171	0.001368
0.709677419354839	0.001988	0.001956	0.001841	0.001742	0.00169	0.001303
0.741935483870968	0.00194	0.001926	0.001839	0.001672	0.001631	0.00126
0.774193548387097	0.001922	0.001895	0.001794	0.001628	0.001576	0.001196
0.806451612903226	0.001719	0.001711	0.001679	0.001616	0.001571	0.001132
0.838709677419355	0.001481	0.001468	0.00142	0.001349	0.001322	0.001114
0.870967741935484	0.001383	0.001367	0.001316	0.00125	0.00123	0.00103
0.903225806451613	0.001334	0.001308	0.001244	0.001215	0.001186	0.001005
0.935483870967742	0.001303	0.00127	0.001215	0.000996	0.0009431	0.0008064
0.967741935483871	0.001274	0.001268	0.001152	0.0009868	0.0009149	0.0004396
0.1	0.0035267	0.0034661	0.0032649	0.0030236	0.0029185	0.0022947
				Average of yearly averages: 0.00153936666666667		

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

Data used for this run:

Output File: FLTURF513

Metfile: w12834.dvf  
 PRZM scenario: FLturfC.txt  
 EXAMS environment file: ir298.exv  
 Chemical Name: MB46513

Description	Variable Name	Value	Units	Comments
Molecular weight	mw	389	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vap		torr	
Solubility	sol	0.95	mg/L	
Kd	Kd		mg/L	
Koc	Koc	1290	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1320	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1320	days	Halfife
Aerobic Soil Metabolism	asm	660	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	8	integer	Sec PRZM manual
Incorporation Depth:	DEPI	0.1	cm	
Application Rate:	TAPP	0.0001	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mm or dd-mm or dd- <i>mmm</i>	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXIRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

## FIREANT\_MB950

stored as FLTURF950.out

Chemical: MB45950

PRZM environment: FLturfc.txt modified Monday, 16 June 2003 at 14:48:06

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

Metfile: w12834.dvf modified Wedday, 3 July 2002 at 09:04:28

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.006366	0.006078	0.005152	0.004156	0.003942	0.001778
1962	0.01096	0.01058	0.009356	0.007787	0.007833	0.004775
1963	0.01888	0.01808	0.01563	0.01303	0.01173	0.00818
1964	0.02329	0.02255	0.02028	0.01739	0.01661	0.01259
1965	0.01868	0.01817	0.0165	0.01447	0.0136	0.01162
1966	0.03294	0.03161	0.02724	0.02356	0.02176	0.01448
1967	0.01797	0.01754	0.01653	0.01476	0.0145	0.01288
1968	0.02577	0.0248	0.0225	0.02117	0.0197	0.01462
1969	0.02129	0.02072	0.0195	0.01749	0.01703	0.01431
1970	0.01481	0.0147	0.01436	0.01393	0.01361	0.01132
1971	0.01645	0.01603	0.01478	0.01324	0.0129	0.01072
1972	0.01905	0.0185	0.01667	0.01486	0.0145	0.01221
1973	0.01301	0.01292	0.0126	0.01214	0.01184	0.01065
1974	0.0168	0.01632	0.0147	0.01295	0.01254	0.009795
1975	0.009993	0.009878	0.009511	0.009175	0.009024	0.00862
1976	0.02209	0.0212	0.01826	0.01468	0.0134	0.009788
1977	0.01405	0.01369	0.01281	0.01178	0.01125	0.009632
1978	0.01423	0.01384	0.01306	0.01169	0.01177	0.01034
1979	0.01873	0.01821	0.01622	0.01454	0.01441	0.01238
1980	0.01202	0.01197	0.01177	0.0115	0.01126	0.01006
1981	0.01568	0.01516	0.01364	0.01197	0.01101	0.008644
1982	0.01785	0.01724	0.01542	0.01378	0.01292	0.01005
1983	0.01557	0.01512	0.01364	0.01221	0.01209	0.01056
1984	0.02034	0.01969	0.01755	0.01499	0.01416	0.01206
1985	0.01337	0.01309	0.01219	0.01137	0.01089	0.01028
1986	0.01768	0.01712	0.01598	0.01357	0.01278	0.01025
1987	0.009769	0.009681	0.009404	0.009078	0.008988	0.00807
1988	0.0113	0.01094	0.009739	0.00776	0.007177	0.006599
1989	0.02213	0.02151	0.01897	0.01491	0.01308	0.009362
1990	0.01078	0.01064	0.01019	0.009553	0.009544	0.008429

### Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.03294	0.03161	0.02724	0.02356	0.02176	0.01462
0.0645161290322581	0.02577	0.0248	0.0225	0.02117	0.0197	0.01448

0.0967741935483871	0.02329	0.02255	0.02028	0.01749	0.01703	0.01431
0.129032258064516	0.02213	0.02151	0.0195	0.01739	0.01661	0.01288
0.161290322580645	0.02209	0.0212	0.01897	0.01499	0.0145	0.01259
0.193548387096774	0.02129	0.02072	0.01826	0.01491	0.0145	0.01238
0.225806451612903	0.02034	0.01969	0.01755	0.01486	0.01441	0.01221
0.258064516129032	0.01905	0.0185	0.01667	0.01476	0.01416	0.01206
0.290322580645161	0.01888	0.01821	0.01653	0.01468	0.01361	0.01162
0.32258064516129	0.01873	0.01817	0.0165	0.01454	0.0136	0.01132
0.354838709677419	0.01868	0.01808	0.01622	0.01447	0.0134	0.01072
0.387096774193548	0.01797	0.01754	0.01598	0.01393	0.01308	0.01065
0.419354838709677	0.01785	0.01724	0.01563	0.01378	0.01292	0.01056
0.451612903225806	0.01768	0.01712	0.01542	0.01357	0.0129	0.01034
0.483870967741936	0.0168	0.01632	0.01478	0.01324	0.01278	0.01028
0.516129032258065	0.01645	0.01603	0.0147	0.01303	0.01254	0.01025
0.548387096774194	0.01568	0.01516	0.01436	0.01295	0.01209	0.01006
0.580645161290323	0.01557	0.01512	0.01364	0.01221	0.01184	0.01005
0.612903225806452	0.01481	0.0147	0.01364	0.01214	0.01177	0.009795
0.645161290322581	0.01423	0.01384	0.01306	0.01197	0.01173	0.009788
0.67741935483871	0.01405	0.01369	0.01281	0.01178	0.01126	0.009632
0.709677419354839	0.01337	0.01309	0.0126	0.01169	0.01125	0.009362
0.741935483870968	0.01301	0.01292	0.01219	0.0115	0.01101	0.008644
0.774193548387097	0.01202	0.01197	0.01177	0.01137	0.01089	0.00862
0.806451612903226	0.0113	0.01094	0.01019	0.009553	0.009544	0.008429
0.838709677419355	0.01096	0.01064	0.009739	0.009175	0.009024	0.00818
0.870967741935484	0.01078	0.01058	0.009511	0.009078	0.008988	0.00807
0.903225806451613	0.009993	0.009878	0.009404	0.007787	0.007833	0.006599
0.935483870967742	0.009769	0.009681	0.009356	0.00776	0.007177	0.004775
0.967741935483871	0.006366	0.006078	0.005152	0.004156	0.003942	0.001778
0.1	0.023174	0.022446	0.020202	0.01748	0.016988	0.014167
					Average of yearly averages:	0.0101684

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

Data used for this run:

Output File: FLTURF950

Metfile: w12834.dvf

PRZM scenario: FLTurfC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB45950

Description	Variable Name	Value	Units	Comments
Molecular weight	mw	421	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.1	mg/L	
Kd	Kd		mg/L	
Koc	Koc	2719	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	8	integer	See PRZM manual
Incorporation Depth:	DEPI	0.1	cm	
Application Rate:	TAPP	0.0007	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	HEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

## IN-FURROW CORN\_FIPRONIL

stored as MSCORNFIP.out

Chemical: Fipronil

PRZM environment: MScomC.txt modified Satday, 12 October 2002 at 17:06:02

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.4178	0.3896	0.2955	0.176	0.1286	0.04505
1962	0.1013	0.0933	0.07226	0.04709	0.03657	0.01697
1963	0.1641	0.1519	0.1109	0.06165	0.04371	0.01954
1964	0.4987	0.4637	0.364	0.2072	0.1514	0.04541
1965	0.2765	0.2538	0.1918	0.1125	0.08292	0.02759
1966	0.3043	0.2811	0.2106	0.1233	0.08852	0.03264
1967	0.09729	0.0899	0.06918	0.04613	0.03489	0.01917
1968	0.2862	0.2624	0.1939	0.1287	0.1034	0.03387
1969	0.2821	0.2618	0.2187	0.1246	0.08878	0.03108
1970	0.3001	0.2786	0.2092	0.1292	0.09314	0.03478
1971	0.0522	0.04918	0.04032	0.01816	0.01513	0.007681
1972	0.1749	0.161	0.1216	0.1011	0.08624	0.03173
1973	0.9342	0.884	0.7278	0.4257	0.3042	0.08769
1974	0.4694	0.4354	0.3219	0.2223	0.191	0.05326
1975	0.07294	0.06711	0.05203	0.04045	0.03893	0.01718
1976	0.4161	0.3823	0.2748	0.1687	0.1371	0.03969
1977	0.1575	0.1498	0.1226	0.07749	0.06528	0.02935
1978	0.4629	0.4339	0.316	0.1719	0.1207	0.03848
1979	0.7941	0.7384	0.6136	0.3993	0.2892	0.07957
1980	0.6182	0.5742	0.4295	0.2503	0.1783	0.05939
1981	0.1591	0.1479	0.1207	0.07696	0.05644	0.01864
1982	0.2921	0.2747	0.2193	0.1256	0.0896	0.04058
1983	0.4257	0.3941	0.302	0.2087	0.1711	0.05303
1984	0.57	0.5249	0.4266	0.241	0.171	0.05063
1985	0.5011	0.4633	0.3381	0.1876	0.1329	0.04308
1986	0.2856	0.2759	0.2275	0.1694	0.1241	0.03382
1987	0.8293	0.7675	0.5667	0.3138	0.2225	0.08205
1988	0.086	0.07972	0.06527	0.04428	0.0415	0.02479
1989	0.1497	0.1379	0.1106	0.08182	0.0667	0.02145
1990	0.1643	0.1498	0.117	0.08217	0.06332	0.03328

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	0.9342	0.884	0.7278	0.4257	0.3042	0.08769	
0.0645161290322581		0.8293	0.7675	0.6136	0.3993	0.2892	0.08205
0.0967741935483871		0.7941	0.7384	0.5667	0.3138	0.2225	0.07957
0.129032258064516	0.6182	0.5742	0.4295	0.2503	0.191	0.05939	
0.161290322580645	0.57	0.5249	0.4266	0.241	0.1783	0.05326	
0.193548387096774	0.5011	0.4637	0.364	0.2223	0.1711	0.05303	
0.225806451612903	0.4987	0.4633	0.3381	0.2087	0.171	0.05063	
0.258064516129032	0.4694	0.4354	0.3219	0.2072	0.1514	0.04541	
0.290322580645161	0.4629	0.4339	0.316	0.1876	0.1371	0.04505	
0.32258064516129	0.4257	0.3941	0.302	0.176	0.1329	0.04308	
0.354838709677419	0.4178	0.3896	0.2955	0.1719	0.1286	0.04058	
0.387096774193548	0.4161	0.3823	0.2748	0.1694	0.1241	0.03969	
0.419354838709677	0.3043	0.2811	0.2275	0.1687	0.1207	0.03848	
0.451612903225806	0.3001	0.2786	0.2193	0.1292	0.1034	0.03478	
0.483870967741936	0.2921	0.2759	0.2187	0.1287	0.09314	0.03387	
0.516129032258065	0.2862	0.2747	0.2106	0.1256	0.0896	0.03382	
0.548387096774194	0.2856	0.2624	0.2092	0.1246	0.08878	0.03328	
0.580645161290323	0.2821	0.2618	0.1939	0.1233	0.08852	0.03264	
0.612903225806452	0.2765	0.2538	0.1918	0.1125	0.08624	0.03173	
0.645161290322581	0.1749	0.161	0.1226	0.1011	0.08292	0.03108	
0.67741935483871	0.1643	0.1519	0.1216	0.08217	0.0667	0.02935	
0.709677419354839	0.1641	0.1498	0.1207	0.08182	0.06528	0.02759	
0.741935483870968	0.1591	0.1498	0.117	0.07749	0.06332	0.02479	
0.774193548387097	0.1575	0.1479	0.1109	0.07696	0.05644	0.02145	
0.806451612903226	0.1497	0.1379	0.1106	0.06165	0.04371	0.01954	
0.838709677419355	0.1013	0.0933	0.07226	0.04709	0.0415	0.01917	
0.870967741935484	0.09729	0.0899	0.06918	0.04613	0.03893	0.01864	
0.903225806451613	0.086	0.07972	0.06527	0.04428	0.03657	0.01718	
0.935483870967742	0.07294	0.06711	0.05203	0.04045	0.03489	0.01697	
0.967741935483871	0.0522	0.04918	0.04032	0.01816	0.01513	0.007681	
0.1	0.77651	0.72198	0.55298	0.30745	0.21935	0.077552	
						Average of yearly averages:	0.0383823666666667

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

Data used for this run:

Output File: MSCORNFIP

Metfile: w13893.dvf

PRZM scenario: MScornC.txt

EXAMS environment file: ir298.exv

Chemical Name: Fipronil

Description	Variable Name	Value	Units	Comments
Molecular weight	mw	437	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	2.4	mg/L	
Kd	Kd		mg/L	
Koc	Koc	727	mg/L	
Photolysis half-life	kdp	0.16	days	Half-life
Aerobic Aquatic Metabolism	kbacw	33.7	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	33.7	days	Halfife
Aerobic Soil Metabolism	asm	128	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	0.1456	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mmnn or dd-mm or dd-mmnn	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

## IN-FURROW CORN\_MB136

stored as MSCORN136.out

Chemical: MB46136

PRZM environment: MSComC.txt

modified Satday, 12 October 2002 at 17:06:02

EXAMS environment: ir298.exv

modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.0604	0.057	0.04857	0.03651	0.02651	0.01017
1962	0.052	0.05016	0.04505	0.04103	0.03965	0.03399
1963	0.05428	0.05323	0.05025	0.04685	0.04608	0.04254
1964	0.115	0.1126	0.1053	0.08525	0.07954	0.06966
1965	0.1406	0.136	0.1246	0.11	0.1048	0.09452
1966	0.1324	0.1294	0.1209	0.1123	0.1115	0.1053
1967	0.1449	0.1417	0.1354	0.1196	0.116	0.1111
1968	0.1723	0.1675	0.1546	0.1442	0.1435	0.1283
1969	0.1695	0.1667	0.16	0.1509	0.1472	0.1399
1970	0.169	0.1668	0.1608	0.1541	0.1533	0.1485
1971	0.1714	0.1692	0.1623	0.1553	0.1529	0.1442
1972	0.2123	0.2089	0.1983	0.1861	0.1766	0.1499
1973	0.2426	0.2375	0.2242	0.2033	0.1951	0.1821
1974	0.221	0.2181	0.2102	0.2043	0.2029	0.1935
1975	0.2128	0.2112	0.2053	0.1984	0.196	0.1888
1976	0.2396	0.2341	0.2174	0.2039	0.2014	0.1886
1977	0.211	0.2088	0.2026	0.1946	0.195	0.188
1978	0.2747	0.2676	0.2516	0.217	0.2057	0.1983
1979	0.274	0.2688	0.2579	0.2434	0.2364	0.2215
1980	0.2643	0.2602	0.2478	0.2352	0.2306	0.2182
1981	0.235	0.2312	0.2231	0.2128	0.2124	0.2047
1982	0.2748	0.2713	0.2533	0.2311	0.2235	0.2098
1983	0.2806	0.2755	0.2662	0.2464	0.2369	0.2302
1984	0.2802	0.2761	0.2665	0.2513	0.2453	0.2363
1985	0.2662	0.2628	0.2523	0.2402	0.2372	0.2279
1986	0.2928	0.2883	0.2683	0.2508	0.2361	0.2177
1987	0.3192	0.3134	0.2717	0.2613	0.2464	0.2342
1988	0.317	0.3101	0.297	0.2737	0.267	0.2508

1989	0.2976	0.2936	0.2866	0.2806	0.2773	0.2603
1990	0.2869	0.2832	0.2756	0.2678	0.2649	0.2542

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.3192	0.3134	0.297	0.2806	0.2773	0.2603
0.0645161290322581		0.317	0.3101	0.2866	0.2737	0.267
0.0967741935483871		0.2976	0.2936	0.2756	0.2678	0.2649
0.129032258064516	0.2928	0.2883	0.2717	0.2613	0.2464	0.2363
0.161290322580645	0.2869	0.2832	0.2683	0.2513	0.2453	0.2342
0.193548387096774	0.2806	0.2761	0.2665	0.2508	0.2372	0.2302
0.225806451612903	0.2802	0.2755	0.2662	0.2464	0.2369	0.2279
0.258064516129032	0.2748	0.2713	0.2579	0.2434	0.2364	0.2215
0.290322580645161	0.2747	0.2688	0.2533	0.2402	0.2361	0.2182
0.32258064516129	0.274	0.2676	0.2523	0.2352	0.2306	0.2177
0.354838709677419	0.2662	0.2628	0.2516	0.2311	0.2235	0.2098
0.387096774193548	0.2643	0.2602	0.2478	0.217	0.2124	0.2047
0.419354838709677	0.2426	0.2375	0.2242	0.2128	0.2057	0.1983
0.451612903225806	0.2396	0.2341	0.2231	0.2043	0.2029	0.1935
0.483870967741936	0.235	0.2312	0.2174	0.2039	0.2014	0.1888
0.516129032258065	0.221	0.2181	0.2102	0.2033	0.196	0.1886
0.548387096774194	0.2128	0.2112	0.2053	0.1984	0.1951	0.188
0.580645161290323	0.2123	0.2089	0.2026	0.1946	0.195	0.1821
0.612903225806452	0.211	0.2088	0.1983	0.1861	0.1766	0.1499
0.645161290322581	0.1723	0.1692	0.1623	0.1553	0.1533	0.1485
0.67741935483871	0.1714	0.1675	0.1608	0.1541	0.1529	0.1442
0.709677419354839	0.1695	0.1668	0.16	0.1509	0.1472	0.1399
0.741935483870968	0.169	0.1667	0.1546	0.1442	0.1435	0.1283
0.774193548387097	0.1449	0.1417	0.1354	0.1196	0.116	0.1111
0.806451612903226	0.1406	0.136	0.1246	0.1123	0.1115	0.1053
0.838709677419355	0.1324	0.1294	0.1209	0.11	0.1048	0.09452
0.870967741935484	0.115	0.1126	0.1053	0.08525	0.07954	0.06966
0.903225806451613	0.0604	0.057	0.05025	0.04685	0.04608	0.04254
0.935483870967742	0.05428	0.05323	0.04857	0.04103	0.03965	0.03399
0.967741935483871	0.052	0.05016	0.04505	0.03651	0.02651	0.01017

0.1                    0.29712   0.29307   0.27521   0.26715   0.26305   0.24935  
 Average of yearly averages:                    0.169439333333333

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

Data used for this run:

Output File: MSCORN136

Metfile: w13893.dvf

PRZM scenario: MScornC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46136

Description	Variable Name	Value	Units	Comments
Molecular weight	mw	453	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.16	mg/L	
Kd	Kd		mg/L	
Koc	Koc	4208	mg/L	
Photolysis half-life	kdp	7	days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	0.0349	kg/ha	
Application Efficiency:	APPEFT	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mm or dd-mm or dd-mm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	

### IN-FURROW CORN\_MB513

stored as MSCORN513.out

Chemical: MB46513

PRZM environment: MScomC.txt modified Satday, 12 October 2002 at 17:06:02

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.005534	0.005451	0.005167	0.004152	0.003234	0.001562
1962	0.0054	0.005351	0.005197	0.005041	0.004967	0.004321
1963	0.00606	0.006036	0.005953	0.005608	0.005546	0.005176
1964	0.0104	0.01028	0.00987	0.009237	0.008881	0.007743
1965	0.01241	0.01229	0.01203	0.01143	0.0111	0.009363
1966	0.01285	0.01278	0.01252	0.01208	0.01182	0.01125
1967	0.01328	0.01323	0.01317	0.01245	0.01223	0.01186
1968	0.01615	0.01604	0.01563	0.01533	0.01529	0.01326
1969	0.01651	0.01645	0.01628	0.01588	0.01562	0.01496
1970	0.01733	0.01726	0.01705	0.0166	0.01634	0.01586
1971	0.01614	0.01608	0.01596	0.01582	0.0158	0.01522
1972	0.01892	0.01886	0.01866	0.01843	0.01788	0.01583
1973	0.02418	0.02399	0.02338	0.02234	0.0217	0.01957
1974	0.02318	0.02308	0.02276	0.02209	0.02208	0.02069
1975	0.02082	0.02077	0.02061	0.02048	0.02017	0.01982
1976	0.02374	0.02358	0.02299	0.02239	0.02237	0.02034
1977	0.02245	0.02235	0.02209	0.02173	0.02179	0.02108
1978	0.02424	0.02416	0.02378	0.02308	0.02266	0.02175
1979	0.02711	0.027	0.02675	0.0262	0.02568	0.02357
1980	0.0266	0.02648	0.02605	0.02528	0.02483	0.02369
1981	0.02424	0.02416	0.02403	0.02382	0.02374	0.02292
1982	0.02549	0.02544	0.02518	0.02429	0.02397	0.02329
1983	0.02786	0.02773	0.02726	0.02647	0.02599	0.02486
1984	0.02907	0.02893	0.02841	0.02762	0.02709	0.02564
1985	0.02797	0.02787	0.02746	0.02675	0.02631	0.02525
1986	0.02918	0.02909	0.02858	0.02778	0.02625	0.02444
1987	0.031	0.03084	0.03024	0.0292	0.0286	0.02724



1988	0.03023	0.03014	0.02985	0.02945	0.02916	0.02796
1989	0.0293	0.02924	0.02915	0.02888	0.02869	0.02767
1990	0.02862	0.02855	0.02826	0.02801	0.02785	0.02735

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.031	0.03084	0.03024	0.02945	0.02916	0.02796
0.0645161290322581		0.03023	0.03014	0.02985	0.0292	0.02869
0.0967741935483871		0.0293	0.02924	0.02915	0.02888	0.0286
0.129032258064516	0.02918	0.02909	0.02858	0.02801	0.02785	0.02724
0.161290322580645	0.02907	0.02893	0.02841	0.02778	0.02709	0.02564
0.193548387096774	0.02862	0.02855	0.02826	0.02762	0.02631	0.02525
0.225806451612903	0.02797	0.02787	0.02746	0.02675	0.02625	0.02486
0.258064516129032	0.02786	0.02773	0.02726	0.02647	0.02599	0.02444
0.290322580645161	0.02711	0.027	0.02675	0.0262	0.02568	0.02369
0.32258064516129	0.0266	0.02648	0.02605	0.02528	0.02483	0.02357
0.354838709677419	0.02549	0.02544	0.02518	0.02429	0.02397	0.02329
0.387096774193548	0.02424	0.02416	0.02403	0.02382	0.02374	0.02292
0.419354838709677	0.02424	0.02416	0.02378	0.02308	0.02266	0.02175
0.451612903225806	0.02418	0.02399	0.02338	0.02239	0.02237	0.02108
0.483870967741936	0.02374	0.02358	0.02299	0.02234	0.02208	0.02069
0.516129032258065	0.02318	0.02308	0.02276	0.02209	0.02179	0.02034
0.548387096774194	0.02245	0.02235	0.02209	0.02173	0.0217	0.01982
0.580645161290323	0.02082	0.02077	0.02061	0.02048	0.02017	0.01957
0.612903225806452	0.01892	0.01886	0.01866	0.01843	0.01788	0.01586
0.645161290322581	0.01733	0.01726	0.01705	0.0166	0.01634	0.01583
0.67741935483871	0.01651	0.01645	0.01628	0.01588	0.0158	0.01522
0.709677419354839	0.01615	0.01608	0.01596	0.01582	0.01562	0.01496
0.741935483870968	0.01614	0.01604	0.01563	0.01533	0.01529	0.01326
0.774193548387097	0.01328	0.01323	0.01317	0.01245	0.01223	0.01186
0.806451612903226	0.01285	0.01278	0.01252	0.01208	0.01182	0.01125
0.838709677419355	0.01241	0.01229	0.01203	0.01143	0.0111	0.009363
0.870967741935484	0.0104	0.01028	0.00987	0.009237	0.008881	0.007743
0.903225806451613	0.00606	0.006036	0.005953	0.005608	0.005546	0.005176
0.935483870967742	0.005534	0.005451	0.005197	0.005041	0.004967	0.004321
0.967741935483871	0.0054	0.005351	0.005167	0.004152	0.003234	0.001562

0.1                    0.029288   0.029225   0.029093   0.028793   0.028525   0.027339  
Average of yearly averages:                    0.0184511666666667

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

Data used for this run:

Output File: MSCORN513

Metfile: w13893.dvf

PRZM scenario: MScomC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46513

Description	Variable Name	Value	Units	Comments
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Molecular weight	mwt	389	g/mol	
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Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
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Vapor Pressure	vapr		torr	
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Solubility	sol	0.95	mg/L	
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Kd	Kd		mg/L	
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Koc	Koc	1290	mg/L	
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Photolysis half-life	kdp		days	Half-life
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Aerobic Aquatic Metabolism	kbacw	1320	days	Halfife
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Anaerobic Aquatic Metabolism	kbacs	1320	days	Halfife
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Aerobic Soil Metabolism	asm	660	days	Halfife
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Hydrolysis:	pH 7		days	Half-life
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Method:	CAM	5	integer	See PRZM manual
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Incorporation Depth:	DEPI	4	cm	
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Application Rate:	TAPP	0.0014	kg/ha	
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Application Efficiency:	APPEFF	1.0	fraction	
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Spray Drift	DRFT		fraction of application rate applied to pond	
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Application Date	Date	11-4	dd/mm or dd/mm or dd-mm or dd-mmm	
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Record 17:	FILTRA			
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	IPSCND			
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	UPTKF			
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Record 18:	PLVKRT			
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	PLDKRT			
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	FEXTRC	0.5		
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Flag for Index Res. Run      IR      IR  
 Flag for runoff calc.    RUNOFF total      none, monthly or total(average of entire run)

## IN-FURROW CORN\_MB950

stored as MSCORN950.out

Chemical: MB45950

PRZM environment: MScornC.txt      modified Satday, 12 October 2002 at 17:06:02

EXAMS environment: ir298.exv    modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.01884	0.01817	0.01625	0.01225	0.009045	0.003695
1962	0.01662	0.01629	0.01528	0.01436	0.01404	0.01224
1963	0.01813	0.01795	0.01739	0.01596	0.01574	0.01499
1964	0.03393	0.03332	0.03194	0.02754	0.02615	0.02348
1965	0.04196	0.04117	0.03917	0.036	0.03462	0.03077
1966	0.04097	0.04055	0.03924	0.03735	0.0365	0.0353
1967	0.0454	0.0449	0.04404	0.04027	0.03926	0.03775
1968	0.05357	0.05274	0.05045	0.04855	0.04835	0.04325
1969	0.05444	0.05362	0.05267	0.05063	0.04968	0.0477
1970	0.05628	0.05587	0.05465	0.05286	0.05211	0.05102
1971	0.05528	0.05482	0.05369	0.05255	0.05213	0.04999
1972	0.06763	0.06712	0.06534	0.06266	0.06005	0.05232
1973	0.07871	0.07763	0.07476	0.07003	0.06772	0.06307
1974	0.07426	0.07385	0.07226	0.07046	0.07009	0.0669
1975	0.06932	0.06895	0.06791	0.06729	0.06685	0.06536
1976	0.07904	0.07805	0.07473	0.07165	0.0712	0.06651
1977	0.07308	0.07263	0.07157	0.06963	0.06973	0.06746
1978	0.08609	0.08508	0.08232	0.07465	0.07198	0.07069
1979	0.08955	0.08865	0.08705	0.08421	0.08217	0.0773
1980	0.08811	0.08739	0.08495	0.08167	0.08018	0.07702
1981	0.0806	0.07994	0.0787	0.07625	0.07625	0.07398
1982	0.09078	0.0902	0.08677	0.08114	0.07924	0.0758
1983	0.09292	0.09212	0.09013	0.0858	0.08446	0.08214
1984	0.09629	0.0955	0.0933	0.08972	0.08783	0.08472
1985	0.09245	0.09183	0.08971	0.0867	0.08538	0.08263

1986	0.09912	0.09824	0.09461	0.0906	0.08584	0.08015
1987	0.1058	0.1048	0.09638	0.09369	0.0896	0.08652
1988	0.106	0.1049	0.1022	0.09768	0.09609	0.09148
1989	0.102	0.1014	0.09954	0.09871	0.09811	0.09365
1990	0.09919	0.09859	0.09694	0.09553	0.09497	0.09244

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.106	0.1049	0.1022	0.09871	0.09811	0.09365
0.0645161290322581		0.1058	0.1048	0.09954	0.09768	0.09609
0.0967741935483871		0.102	0.1014	0.09694	0.09553	0.09497
0.129032258064516	0.09919	0.09859	0.09638	0.09369	0.0896	0.08652
0.161290322580645	0.09912	0.09824	0.09461	0.0906	0.08783	0.08472
0.193548387096774	0.09629	0.0955	0.0933	0.08972	0.08584	0.08263
0.225806451612903	0.09292	0.09212	0.09013	0.0867	0.08538	0.08214
0.258064516129032	0.09245	0.09183	0.08971	0.0858	0.08446	0.08015
0.290322580645161	0.09078	0.0902	0.08705	0.08421	0.08217	0.0773
0.32258064516129	0.08955	0.08865	0.08677	0.08167	0.08018	0.07702
0.354838709677419	0.08811	0.08739	0.08495	0.08114	0.07924	0.0758
0.387096774193548	0.08609	0.08508	0.08232	0.07625	0.07625	0.07398
0.419354838709677	0.0806	0.07994	0.0787	0.07465	0.07198	0.07069
0.451612903225806	0.07904	0.07805	0.07476	0.07165	0.0712	0.06746
0.483870967741936	0.07871	0.07763	0.07473	0.07046	0.07009	0.0669
0.516129032258065	0.07426	0.07385	0.07226	0.07003	0.06973	0.06651
0.548387096774194	0.07308	0.07263	0.07157	0.06963	0.06772	0.06536
0.580645161290323	0.06932	0.06895	0.06791	0.06729	0.06685	0.06307
0.612903225806452	0.06763	0.06712	0.06534	0.06266	0.06005	0.05232
0.645161290322581	0.05628	0.05587	0.05465	0.05286	0.05213	0.05102
0.67741935483871	0.05528	0.05482	0.05369	0.05255	0.05211	0.04999
0.709677419354839	0.05444	0.05362	0.05267	0.05063	0.04968	0.0477
0.741935483870968	0.05357	0.05274	0.05045	0.04855	0.04835	0.04325
0.774193548387097	0.0454	0.0449	0.04404	0.04027	0.03926	0.03775
0.806451612903226	0.04196	0.04117	0.03924	0.03735	0.0365	0.0353
0.838709677419355	0.04097	0.04055	0.03917	0.036	0.03462	0.03077
0.870967741935484	0.03393	0.03332	0.03194	0.02754	0.02615	0.02348
0.903225806451613	0.01884	0.01817	0.01739	0.01596	0.01574	0.01499
0.935483870967742	0.01813	0.01795	0.01625	0.01436	0.01404	0.01224
0.967741935483871	0.01662	0.01629	0.01528	0.01225	0.009045	0.003695

0.1                    0.101719   0.101119   0.096884   0.095346   0.094433   0.090984  
Average of yearly averages:                    0.0600108333333333

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

Data used for this run:

Output File: MSCORN950

Metfile: w13893.dvf

PRZM scenario: MScomC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB45950

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	421	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.1	mg/L	
Kd	Kd		mg/L	
Koc	Koc	2719	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	4	cm	
Application Rate:	TAPP	0.0072	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mmm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			

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

## TEXAS LEAFCUTTER ANT\_FIPRONIL

stored as TXALFFIP.out

Chemical: Fipronil

PRZM environment: TXAlfalfaC.txt modified Satday, 12 October 2002 at 17:27:40

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	29.47	26.88	19.64	13.48	9.899	2.667
1962	15.76	14.37	12.08	7.602	6.534	2.15
1963	1.554	1.407	1.093	0.6539	0.5155	0.2303
1964	30.18	27.32	18.68	9.525	6.77	2.361
1965	34.26	31.7	25.41	15.16	11.09	3.305
1966	17.59	16.28	13.61	8.054	5.88	1.975
1967	11.41	10.5	8.763	7.139	5.469	1.745
1968	20.81	19.13	16.25	10.16	7.91	2.249
1969	25.7	23.71	18.14	12.59	9.467	2.788
1970	30.54	28.14	23.47	13.54	9.554	2.643
1971	8.005	7.511	5.395	3.002	2.568	1.049
1972	28.99	26.52	22.53	13.17	9.588	2.58
1973	9.968	9.271	6.944	4.269	4.372	1.95
1974	23.27	21.22	14.91	8.157	5.986	2.193
1975	28.89	27.35	20.33	16.14	12.87	3.477
1976	40.29	38.31	30.29	20.25	15.3	4.117
1977	27.57	26.02	21.4	12.4	8.878	2.42
1978	14.43	13.19	11.1	9.32	6.873	2.05
1979	30.51	28.11	20.19	11.75	10	3.21
1980	14.53	13.4	10.61	7.017	5.007	1.478
1981	36.01	33.65	25.72	19.2	14.21	3.787

1982	27.94	25.65	18.88	14.84	11.08	2.891
1983	15.47	14.59	11.5	8.214	6.24	1.742
1984	5.001	4.652	4.023	2.699	2.084	0.6827
1985	8.924	8.095	5.742	4.042	2.971	1.21
1986	26.07	24.14	20.93	13.6	9.714	2.808
1987	26.77	24.34	21.74	13.2	9.484	2.543
1988	8.89	8.133	6.528	4.325	3.436	0.9774
1989	19.55	17.85	13.87	9.504	7.511	2.082
1990	26.12	23.89	17.86	11.44	8.428	2.441

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	40.29	38.31	30.29	20.25	15.3	4.117	
0.0645161290322581		36.01	33.65	25.72	19.2	14.21	3.787
0.0967741935483871		34.26	31.7	25.41	16.14	12.87	3.477
0.129032258064516	30.54	28.14	23.47	15.16	11.09	3.305	
0.161290322580645	30.51	28.11	22.53	14.84	11.08	3.21	
0.193548387096774	30.18	27.35	21.74	13.6	10	2.891	
0.225806451612903	29.47	27.32	21.4	13.54	9.899	2.808	
0.258064516129032	28.99	26.88	20.93	13.48	9.714	2.788	
0.290322580645161	28.89	26.52	20.33	13.2	9.588	2.667	
0.32258064516129	27.94	26.02	20.19	13.17	9.554	2.643	
0.354838709677419	27.57	25.65	19.64	12.59	9.484	2.58	
0.387096774193548	26.77	24.34	18.88	12.4	9.467	2.543	
0.419354838709677	26.12	24.14	18.68	11.75	8.878	2.441	
0.451612903225806	26.07	23.89	18.14	11.44	8.428	2.42	
0.483870967741936	25.7	23.71	17.86	10.16	7.91	2.361	
0.516129032258065	23.27	21.22	16.25	9.525	7.511	2.249	
0.548387096774194	20.81	19.13	14.91	9.504	6.873	2.193	
0.580645161290323	19.55	17.85	13.87	9.32	6.77	2.15	
0.612903225806452	17.59	16.28	13.61	8.214	6.534	2.082	
0.645161290322581	15.76	14.59	12.08	8.157	6.24	2.05	
0.67741935483871	15.47	14.37	11.5	8.054	5.986	1.975	
0.709677419354839	14.53	13.4	11.1	7.602	5.88	1.95	
0.741935483870968	14.43	13.19	10.61	7.139	5.469	1.745	
0.774193548387097	11.41	10.5	8.763	7.017	5.007	1.742	
0.806451612903226	9.968	9.271	6.944	4.325	4.372	1.478	
0.838709677419355	8.924	8.133	6.528	4.269	3.436	1.21	
0.870967741935484	8.89	8.095	5.742	4.042	2.971	1.049	
0.903225806451613	8.005	7.511	5.395	3.002	2.568	0.9774	
0.935483870967742	5.001	4.652	4.023	2.699	2.084	0.6827	
0.967741935483871	1.554	1.407	1.093	0.6539	0.5155	0.2303	
0.1	33.888	31.344	25.216	16.042	12.692	3.4598	
						Average of yearly averages:	2.26004666666667

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

Data used for this run:

Output File: TXALFFIP

Metfile: w13958.dvf  
 PRZM scenario: TXalfalfaC.txt  
 EXAMS environment file: ir298.exv

Chemical Name:	Fipronil				
Description	Variable Name	Value	Units	Comments	
Molecular weight	mwt	437	g/mol		
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol		
Vapor Pressure	vapr		torr		
Solubility	sol	2.4	mg/L		
Kd	Kd		mg/L		
Koc	Koc	727	mg/L		
Photolysis half-life	kdp	0.16	days	Half-life	
Aerobic Aquatic Metabolism	kbacw	33.7	days	Halfife	
Anaerobic Aquatic Metabolism	kbacs	33.7	days	Halfife	
Aerobic Soil Metabolism	asm	128	days	Halfife	
Hydrolysis:	pH 7		days	Half-life	
Method:	CAM	8	integer	See PRZM manual	
Incorporation Depth:	DEPI	0.1	cm		
Application Rate:	TAPP	0.322	kg/ha		
Application Efficiency:	APPEFF	1.0	fraction		
Spray Drift	DRFT		fraction of application rate applied to pond		
Application Date	Date	11-4	dd/mm or dd/mm or dd-mm or dd-mmm		

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

## TEXAS LEAFCUTTER ANT\_MB136

stored as TXALF136.out

Chemical: MB46136

PRZM environment: TXalfalfaC.txt modified Satday, 12 October 2002 at 17:27:40

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	4.257	3.932	3.24	2.832	2.449	1.106
1962	4.365	4.18	3.737	3.38	3.198	2.369
1963	3.445	3.387	3.207	3.013	2.997	2.79
1964	8.665	8.191	6.746	5.247	4.993	3.889
1965	9.363	9.007	8.234	7.063	6.635	5.908
1966	8.044	7.935	7.411	6.986	6.774	6.369
1967	7.901	7.796	7.402	7.126	7.024	6.481
1968	9.39	9.179	8.789	8.194	8.101	7.372
1969	9.211	9.035	8.578	8.313	8.133	7.657
1970	10.78	10.51	10.13	9.231	8.819	8.001
1971	9.133	9.036	8.52	7.921	7.717	7.509
1972	10.16	9.97	9.745	8.934	8.614	7.714
1973	11.75	11.55	10.76	9.886	9.41	8.002
1974	10.93	10.69	9.946	9.177	8.949	8.676
1975	12.74	12.5	11.64	11.09	10.69	9.556
1976	12.5	12.31	11.63	11.15	10.98	10.01

1977	11.76	11.62	11.24	10.54	10.25	9.578
1978	10.79	10.62	10.24	9.842	9.608	9.115
1979	13.77	13.42	12.6	11.49	11.32	10.01
1980	11.36	11.23	10.85	10.41	10.25	9.714
1981	18.41	17.98	16.29	14.08	13.3	10.88
1982	13.87	13.6	12.85	12.15	11.86	10.81
1983	11.48	11.38	11.12	10.81	10.67	10.18
1984	10.64	10.48	10.08	9.588	9.52	9.185
1985	10.33	10.17	9.752	9.332	9.135	8.926
1986	11.3	11.15	10.75	10	9.634	9.081
1987	13.3	12.95	12.37	11.51	11.01	9.703
1988	10.07	9.992	9.712	9.481	9.38	9.011
1989	11.17	10.93	10.29	9.735	9.431	8.647
1990	10.58	10.36	9.726	9.284	9.059	8.474

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	18.41	17.98	16.29	14.08	13.3	10.88
0.0645161290322581		13.87	13.6	12.85	12.15	11.86
0.0967741935483871		13.77	13.42	12.6	11.51	11.32
0.129032258064516	13.3	12.95	12.37	11.49	11.01	10.01
0.161290322580645	12.74	12.5	11.64	11.15	10.98	10.01
0.193548387096774	12.5	12.31	11.63	11.09	10.69	9.714
0.225806451612903	11.76	11.62	11.24	10.81	10.67	9.703
0.258064516129032	11.75	11.55	11.12	10.54	10.25	9.578
0.290322580645161	11.48	11.38	10.85	10.41	10.25	9.556
0.32258064516129	11.36	11.23	10.76	10	9.634	9.185
0.354838709677419	11.3	11.15	10.75	9.886	9.608	9.115
0.387096774193548	11.17	10.93	10.29	9.842	9.52	9.081
0.419354838709677	10.93	10.69	10.24	9.735	9.431	9.011
0.451612903225806	10.79	10.62	10.13	9.588	9.41	8.926
0.483870967741936	10.78	10.51	10.08	9.481	9.38	8.676
0.516129032258065	10.64	10.48	9.946	9.332	9.135	8.647
0.548387096774194	10.58	10.36	9.752	9.284	9.059	8.474
0.580645161290323	10.33	10.17	9.745	9.231	8.949	8.002
0.612903225806452	10.16	9.992	9.726	9.177	8.819	8.001
0.645161290322581	10.07	9.97	9.712	8.934	8.614	7.714
0.67741935483871	9.39	9.179	8.789	8.313	8.133	7.657
0.709677419354839	9.363	9.036	8.578	8.194	8.101	7.509
0.741935483870968	9.211	9.035	8.52	7.921	7.717	7.372
0.774193548387097	9.133	9.007	8.234	7.126	7.024	6.481
0.806451612903226	8.665	8.191	7.411	7.063	6.774	6.369
0.838709677419355	8.044	7.935	7.402	6.986	6.635	5.908
0.870967741935484	7.901	7.796	6.746	5.247	4.993	3.889
0.903225806451613	4.365	4.18	3.737	3.38	3.198	2.79
0.935483870967742	4.257	3.932	3.24	3.013	2.997	2.369
0.967741935483871	3.445	3.387	3.207	2.832	2.449	1.106

10.81  
10.18

0.1      13.723    13.373    12.577    11.508    11.289    10.163  
Average of yearly averages:      7.89076666666667

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

Data used for this run:

Output File: TXALF136  
 Metfile: w13958.dvf  
 PRZM scenario: TXalfalfaC.txt  
 EXAMS environment file: ir298.exv  
 Chemical Name: MB46136

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	453	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.16	mg/L	
Kd	Kd		mg/L	
Koc	Koc	4208	mg/L	
Photolysis half-life	kdp	7	days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	8	integer	See PRZM manual

Incorporation Depth: DEPI 0.1 cm  
 Application Rate: TAPP 0.0770 kg/ha  
 Application Efficiency: APPEFF 1.0 fraction  
 Spray Drift: DRFT fraction of application rate applied to pond  
 Application Date: Date 11-4 dd/mm or dd/mm or dd-mm or dd-mmm  
 Record 17: FILTRA  
 IPSCND  
 UPTKF  
 Record 18: PLVKRT  
 PLDKRT  
 FEXTRC 0.5  
 Flag for Index Res. Run: IR IR  
 Flag for runoff calc.: RUNOFF total none, monthly or total(average of entire run)

## TEXAS LEAFCUTTER\_MB513

stored as TXALF513.out

Chemical: MB46513

PRZM environment: TXalfalfaC.txt modified Satday, 12 October 2002 at 17:27:40

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.3995	0.3929	0.3781	0.3398	0.3213	0.1566
1962	0.4571	0.4528	0.4427	0.432	0.4233	0.3381
1963	0.3948	0.3943	0.392	0.3898	0.3891	0.3758
1964	0.7534	0.7425	0.7028	0.6395	0.6098	0.498
1965	0.9182	0.909	0.8887	0.8408	0.8112	0.7131
1966	0.8628	0.8599	0.8518	0.8293	0.8163	0.7832
1967	0.8636	0.8601	0.853	0.8394	0.8305	0.8027
1968	0.9996	0.9935	0.9841	0.9581	0.9502	0.8706
1969	1.03	1.025	1.014	1.002	0.9922	0.9284
1970	1.187	1.179	1.154	1.119	1.09	0.9864
1971	1.042	1.039	1.023	0.9935	0.9788	0.9539



1972	1.175	1.168	1.152	1.121	1.1	0.9974
1973	1.162	1.158	1.142	1.111	1.095	1.013
1974	1.21	1.204	1.179	1.138	1.115	1.08
1975	1.378	1.369	1.345	1.327	1.304	1.18
1976	1.422	1.414	1.403	1.39	1.378	1.263
1977	1.416	1.409	1.392	1.354	1.33	1.243
1978	1.354	1.347	1.324	1.293	1.278	1.211
1979	1.501	1.493	1.461	1.419	1.401	1.292
1980	1.4	1.396	1.378	1.347	1.329	1.269
1981	1.76	1.745	1.702	1.62	1.569	1.364
1982	1.605	1.596	1.571	1.527	1.505	1.39
1983	1.432	1.429	1.419	1.4	1.389	1.328
1984	1.272	1.272	1.271	1.265	1.261	1.215
1985	1.255	1.25	1.236	1.211	1.195	1.171
1986	1.366	1.359	1.337	1.298	1.271	1.188
1987	1.467	1.458	1.432	1.395	1.367	1.239
1988	1.266	1.263	1.248	1.231	1.219	1.178
1989	1.316	1.309	1.283	1.257	1.235	1.147
1990	1.292	1.285	1.261	1.235	1.219	1.142

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	1.76	1.745	1.702	1.62	1.569	1.39	
0.0645161290322581		1.605	1.596	1.571	1.527	1.505	1.364
0.0967741935483871		1.501	1.493	1.461	1.419	1.401	1.328
0.129032258064516	1.467	1.458	1.432	1.4	1.389	1.292	
0.161290322580645	1.432	1.429	1.419	1.395	1.378	1.269	
0.193548387096774	1.422	1.414	1.403	1.39	1.367	1.263	
0.225806451612903	1.416	1.409	1.392	1.354	1.33	1.243	
0.258064516129032	1.4	1.396	1.378	1.347	1.329	1.239	
0.290322580645161	1.378	1.369	1.345	1.327	1.304	1.215	
0.32258064516129	1.366	1.359	1.337	1.298	1.278	1.211	
0.354838709677419	1.354	1.347	1.324	1.293	1.271	1.188	
0.387096774193548	1.316	1.309	1.283	1.265	1.261	1.18	
0.419354838709677	1.292	1.285	1.271	1.257	1.235	1.178	
0.451612903225806	1.272	1.272	1.261	1.235	1.219	1.171	
0.483870967741936	1.266	1.263	1.248	1.231	1.219	1.147	
0.516129032258065	1.255	1.25	1.236	1.211	1.195	1.142	
0.548387096774194	1.21	1.204	1.179	1.138	1.115	1.08	
0.580645161290323	1.187	1.179	1.154	1.121	1.1	1.013	
0.612903225806452	1.175	1.168	1.152	1.119	1.095	0.9974	
0.645161290322581	1.162	1.158	1.142	1.111	1.09	0.9864	
0.67741935483871	1.042	1.039	1.023	1.002	0.9922	0.9539	
0.709677419354839	1.03	1.025	1.014	0.9935	0.9788	0.9284	
0.741935483870968	0.9996	0.9935	0.9841	0.9581	0.9502	0.8706	
0.774193548387097	0.9182	0.909	0.8887	0.8408	0.8305	0.8027	
0.806451612903226	0.8636	0.8601	0.853	0.8394	0.8163	0.7832	
0.838709677419355	0.8628	0.8599	0.8518	0.8293	0.8112	0.7131	
0.870967741935484	0.7534	0.7425	0.7028	0.6395	0.6098	0.498	
0.903225806451613	0.4571	0.4528	0.4427	0.432	0.4233	0.3758	
0.935483870967742	0.3995	0.3943	0.392	0.3898	0.3891	0.3381	
0.967741935483871	0.3948	0.3929	0.3781	0.3398	0.3213	0.1566	
0.1	1.4976	1.4895	1.4581	1.4171	1.3998	1.3244	

Average of yearly averages: 1.01057333333333

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

Data used for this run:

Output File: TXALF513

Metfile: w13958.dvf

PRZM scenario: TXalfalfaC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46513

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	389	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.95	mg/L	
Kd	Kd		mg/L	
Koc	Koc	1290	mg/L	
Photolysis half-life	kdp		days	Half-life

Aerobic Aquatic Metabolism	kbacw	1320	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1320	days	Halfife
Aerobic Soil Metabolism	asm	660	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	8	integer	See PRZM manual
Incorporation Depth:	DEPI	0.1	cm	
Application Rate:	TAPP	0.0031	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT			fraction of application rate applied to pond
Application Date	Date	11-4		dd/mm or dd/mm or dd-mm or dd-mmm
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total		none, monthly or total(average of entire run)

## TEXAS LEAFCUTTER ANT\_MB950

stored as TXALF950.out

Chemical: MB45950

PRZM environment: TXalfalfaC.txt modified Satday, 12 October 2002 at 17:27:40

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	1.235	1.199	1.089	0.9576	0.8594	0.3979
1962	1.364	1.332	1.254	1.184	1.14	0.8649
1963	1.15	1.142	1.113	1.074	1.07	1.018
1964	2.517	2.436	2.165	1.822	1.742	1.391
1965	2.908	2.844	2.698	2.435	2.311	2.064
1966	2.638	2.619	2.524	2.429	2.379	2.258

1967	2.643	2.625	2.558	2.498	2.474	2.323
1968	3.109	3.071	2.993	2.863	2.836	2.607
1969	3.104	3.071	2.987	2.945	2.9	2.74
1970	3.599	3.558	3.475	3.283	3.17	2.894
1971	3.166	3.152	3.051	2.911	2.854	2.781
1972	3.535	3.506	3.442	3.268	3.183	2.89
1973	3.816	3.784	3.656	3.463	3.362	2.983
1974	3.742	3.699	3.556	3.362	3.299	3.21
1975	4.299	4.251	4.091	3.98	3.88	3.517
1976	4.298	4.269	4.151	4.068	4.022	3.712
1977	4.21	4.18	4.096	3.928	3.844	3.617
1978	3.971	3.936	3.836	3.725	3.669	3.5
1979	4.712	4.652	4.473	4.239	4.174	3.796
1980	4.18	4.154	4.067	3.953	3.891	3.727
1981	5.921	5.814	5.509	5.02	4.81	4.09
1982	4.911	4.86	4.711	4.518	4.451	4.115
1983	4.283	4.262	4.212	4.135	4.095	3.93
1984	3.928	3.9	3.811	3.743	3.735	3.62
1985	3.875	3.846	3.762	3.654	3.587	3.527
1986	4.189	4.151	4.059	3.876	3.776	3.574
1987	4.678	4.614	4.477	4.288	4.16	3.758
1988	3.853	3.837	3.771	3.706	3.675	3.554
1989	4.096	4.051	3.911	3.783	3.698	3.442
1990	3.942	3.902	3.769	3.656	3.594	3.393

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	5.921	5.814	5.509	5.02	4.81	4.115	
0.0645161290322581		4.911	4.86	4.711	4.518	4.451	4.09
0.0967741935483871		4.712	4.652	4.477	4.288	4.174	3.93
0.129032258064516	4.678	4.614	4.473	4.239	4.16	3.796	
0.161290322580645	4.299	4.269	4.212	4.135	4.095	3.758	
0.193548387096774	4.298	4.262	4.151	4.068	4.022	3.727	
0.225806451612903	4.283	4.251	4.096	3.98	3.891	3.712	
0.258064516129032	4.21	4.18	4.091	3.953	3.88	3.62	
0.290322580645161	4.189	4.154	4.067	3.928	3.844	3.617	
0.32258064516129	4.18	4.151	4.059	3.876	3.776	3.574	
0.354838709677419	4.096	4.051	3.911	3.783	3.735	3.554	
0.387096774193548	3.971	3.936	3.836	3.743	3.698	3.527	
0.419354838709677	3.942	3.902	3.811	3.725	3.675	3.517	
0.451612903225806	3.928	3.9	3.771	3.706	3.669	3.5	
0.483870967741936	3.875	3.846	3.769	3.656	3.594	3.442	
0.516129032258065	3.853	3.837	3.762	3.654	3.587	3.393	
0.548387096774194	3.816	3.784	3.656	3.463	3.362	3.21	
0.580645161290323	3.742	3.699	3.556	3.362	3.299	2.983	
0.612903225806452	3.599	3.558	3.475	3.283	3.183	2.894	
0.645161290322581	3.535	3.506	3.442	3.268	3.17	2.89	
0.67741935483871	3.166	3.152	3.051	2.945	2.9	2.781	
0.709677419354839	3.109	3.071	2.993	2.911	2.854	2.74	
0.741935483870968	3.104	3.071	2.987	2.863	2.836	2.607	
0.774193548387097	2.908	2.844	2.698	2.498	2.474	2.323	
0.806451612903226	2.643	2.625	2.558	2.435	2.379	2.258	
0.838709677419355	2.638	2.619	2.524	2.429	2.311	2.064	
0.870967741935484	2.517	2.436	2.165	1.822	1.742	1.391	
0.903225806451613	1.364	1.332	1.254	1.184	1.14	1.018	
0.935483870967742	1.235	1.199	1.113	1.074	1.07	0.8649	
0.967741935483871	1.15	1.142	1.089	0.9576	0.8594	0.3979	
0.1	4.7086	4.6482	4.4766	4.2831	4.1726	3.9166	
						Average of yearly averages:	2.97646

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

Data used for this run:

Output File: TXALF950

Metfile: w13958.dvf

PRZM scenario: TXalfalfaC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB45950

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	421	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	

Vapor Pressure	vapr		torr	
Solubility	sol	0.1	mg/L	
Kd	Kd		mg/L	
Koc	Koc	2719	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	8	integer	See PRZM manual
Incorporation Depth:	DEPI	0.1	cm	
Application Rate:	TAPP	0.0158	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mm/yy or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

## MOLECRICKET\_FIPRONIL

stored as FLMOLEFIP.out

Chemical: Fipronil

PRZM environment: FLturfC.txt modified Monday, 16 June 2003 at 14:48:06

EXAMS environment: ir298.exv modified Thursday, 29 August 2002 at 15:34:12

Metfile: w12834.dvf modified Wednesday, 3 July 2002 at 09:04:28

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.008414	0.007641	0.005279	0.003151	0.002321	0.0006998

1962	0.005181	0.004791	0.003431	0.002436	0.001896	0.0005053		
1963	0.00815	0.007413	0.005911	0.003328	0.003083	0.0009535		
1964	0.02076	0.01907	0.01413	0.007614	0.005605	0.001763		
1965	0.004844	0.004655	0.003832	0.00229	0.001693	0.0004466		
1966	0.01301	0.01217	0.009527	0.00521	0.004543	0.001642		
1967	0.02274	0.02078	0.01508	0.008324	0.006552	0.001892		
1968	0.004764	0.004439	0.003232	0.002073	0.001652	0.0005088		
1969	0.004655	0.004263	0.003562	0.002031	0.001527	0.0004785		
1970	0.001345	0.001224	0.0008475		0.0005054		0.0003705	9.818e-005
1971	0.004853	0.004433	0.003123	0.00194	0.001496	0.0004062		
1972	0.00246	0.002243	0.001554	0.0009231		0.0006798	0.0003199	
1973	0.004192	0.00383	0.002783	0.001595	0.001145	0.0003018		
1974	0.004729	0.0044	0.00372	0.002202	0.001634	0.0005013		
1975	0.008449	0.007758	0.005653	0.003082	0.002195	0.0006775		
1976	0.004687	0.004398	0.00372	0.00219	0.001583	0.0004935		
1977	0.01257	0.0114	0.007907	0.004626	0.003325	0.001045		
1978	0.02564	0.02339	0.01636	0.00886	0.006408	0.001719		
1979	0.0169	0.01529	0.01119	0.006036	0.004272	0.00126		
1980	0.004882	0.004454	0.003212	0.001778	0.001644	0.0004745		
1981	0.009872	0.008911	0.006048	0.003321	0.002553	0.000775		
1982	0.01117	0.01014	0.007587	0.004117	0.002977	0.001062		
1983	0.004609	0.004176	0.003097	0.001693	0.001317	0.0005711		
1984	0.009255	0.00847	0.00597	0.003283	0.003172	0.0008902		
1985	0.006556	0.006019	0.004314	0.002335	0.001662	0.0004365		
1986	0.02043	0.0185	0.01318	0.006919	0.004869	0.00125		
1987	0.001496	0.001365	0.0009572		0.0005384		0.0004125	0.0001327
1988	0.000761	0.0006898		0.0005146		0.0003343	0.0002992	0.0001284
1989	0.006186	0.005714	0.00403	0.002115	0.001486	0.0003839		
1990	0.001216	0.001101	0.0007508		0.0005753		0.0004249	0.0001129

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129	0.02564	0.02339	0.01636	0.00886	0.006552	0.001892		
0.0645161290322581		0.02274	0.02078	0.01508	0.008324	0.006408	0.001763	
0.0967741935483871		0.02076	0.01907	0.01413	0.007614	0.005605	0.001719	
0.129032258064516	0.02043	0.0185	0.01318	0.006919	0.004869	0.001642		
0.161290322580645	0.0169	0.01529	0.01119	0.006036	0.004543	0.00126		
0.193548387096774	0.01301	0.01217	0.009527	0.00521	0.004272	0.00125		
0.225806451612903	0.01257	0.0114	0.007907	0.004626	0.003325	0.001062		
0.258064516129032	0.01117	0.01014	0.007587	0.004117	0.003172	0.001045		
0.290322580645161	0.009872	0.008911	0.006048	0.003328	0.003083	0.0009535		
0.32258064516129	0.009255	0.00847	0.00597	0.003321	0.002977	0.0008902		
0.354838709677419	0.008449	0.007758	0.005911	0.003283	0.002553	0.000775		
0.387096774193548	0.008414	0.007641	0.005653	0.003151	0.002321	0.0006998		
0.419354838709677	0.00815	0.007413	0.005279	0.003082	0.002195	0.0006775		
0.451612903225806	0.006556	0.006019	0.004314	0.002436	0.001896	0.0005711		
0.483870967741936	0.006186	0.005714	0.00403	0.002335	0.001693	0.0005088		
0.516129032258065	0.005181	0.004791	0.003832	0.00229	0.001662	0.0005053		
0.548387096774194	0.004882	0.004655	0.00372	0.002202	0.001652	0.0005013		
0.580645161290323	0.004853	0.004454	0.00372	0.00219	0.001644	0.0004935		
0.612903225806452	0.004844	0.004439	0.003562	0.002115	0.001634	0.0004785		
0.645161290322581	0.004764	0.004433	0.003431	0.002073	0.001583	0.0004745		
0.67741935483871	0.004729	0.0044	0.003232	0.002031	0.001527	0.0004466		
0.709677419354839	0.004687	0.004398	0.003212	0.00194	0.001496	0.0004365		
0.741935483870968	0.004655	0.004263	0.003123	0.001778	0.001486	0.0004062		
0.774193548387097	0.004609	0.004176	0.003097	0.001693	0.001317	0.0003839		
0.806451612903226	0.004192	0.00383	0.002783	0.001595	0.001145	0.0003199		
0.838709677419355	0.00246	0.002243	0.001554	0.0009231		0.0006798	0.0003018	
0.870967741935484	0.001496	0.001365	0.0009572		0.0005753		0.0004249	0.0001327
0.903225806451613	0.001345	0.001224	0.0008475		0.0005384		0.0004125	0.0001284
0.935483870967742	0.001216	0.001101	0.0007508		0.0005054		0.0003705	0.0001129
0.967741935483871	0.000761	0.0006898		0.0005146		0.0003343	0.0002992	9.818e-005

0.1            0.020727   0.019013   0.014035   0.0075445            0.0055314            0.0017113  
Average of yearly averages:            0.000730969333333333

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

Data used for this run:  
Output File: FLMOLEFIP  
Metfile:            w12834.dvf  
PRZM scenario:     FLturfC.txt

EXAMS environment file: ir298.exv

Description	Variable Name	Value	Units	Comments
Chemical Name:	Fipronil			
Molecular weight	mwt	437	g/mol	
Henry's Law Const.	heny		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	2.4	mg/L	
Kd	Kd		mg/L	
Koc	Koc	727	mg/L	
Photolysis half-life	kdp	0.16	days	Half-life
Aerobic Aquatic Metabolism	kbacw	33.7	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	33.7	days	Halfife
Aerobic Soil Metabolism	asm	128	days	Halfife
Hydrolysis:	pH7		days	Half-life
Method:	CAM	8	integer	See PRZM manual
Incorporation Depth:	DEPI	2	cm	
Application Rate:	TAPP	0.028	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mmm or dd-mm or dd-mmm	
Interval 1	interval	90	days	Set to 0 or delete line for single app.
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR	IR		
Flag for runoff calc.	RUNOFF	total		none, monthly or total(average of entire run)

## MOLECRICKET\_MB136

stored as FLMOL136.out

Chemical: MB46136

PRZM environment: FLturC.txt modified Monday, 16 June 2003 at 14:48:06

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

Metfile: w12834.dvf modified Wedday, 3 July 2002 at 09:04:28

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.003387	0.003168	0.002509	0.001897	0.001675	0.0007384
1962	0.003094	0.002949	0.002674	0.002543	0.002486	0.001724
1963	0.004703	0.004493	0.004085	0.00383	0.00356	0.002718
1964	0.007296	0.007015	0.00629	0.006034	0.005688	0.004335
1965	0.00694	0.006736	0.00616	0.005551	0.005319	0.004755
1966	0.008421	0.008182	0.007832	0.007208	0.006978	0.005634
1967	0.01089	0.01046	0.009401	0.008009	0.007694	0.006305
1968	0.01046	0.0101	0.009214	0.008265	0.007978	0.007123
1969	0.0103	0.01002	0.009378	0.00898	0.008666	0.007543
1970	0.007616	0.007607	0.007579	0.007524	0.007482	0.007008
1971	0.008248	0.008093	0.007615	0.007381	0.007213	0.006784
1972	0.01143	0.01103	0.009796	0.008503	0.008311	0.00715
1973	0.008506	0.00836	0.007948	0.007757	0.007575	0.007133
1974	0.00894	0.008742	0.008174	0.007897	0.007723	0.006949
1975	0.007369	0.007274	0.007045	0.00679	0.006751	0.006594
1976	0.00846	0.008265	0.007663	0.00703	0.006816	0.006463
1977	0.009808	0.009527	0.009017	0.008486	0.008089	0.006854
1978	0.009325	0.009103	0.008419	0.007897	0.00778	0.007285
1979	0.01022	0.009968	0.009503	0.008717	0.008477	0.007556
1980	0.007498	0.007451	0.007321	0.007277	0.00724	0.007012
1981	0.009271	0.009035	0.008656	0.007867	0.007516	0.006704
1982	0.009368	0.00914	0.008483	0.00789	0.007741	0.006932
1983	0.009137	0.008931	0.008465	0.008027	0.007835	0.007078
1984	0.0104	0.0101	0.009174	0.008232	0.008114	0.007412
1985	0.007493	0.007429	0.007264	0.007103	0.007093	0.006939
1986	0.01226	0.01178	0.01089	0.009163	0.008593	0.007058
1987	0.006978	0.006972	0.00695	0.006915	0.006881	0.006585
1988	0.006597	0.006509	0.006243	0.006099	0.006066	0.005923
1989	0.009248	0.008995	0.008114	0.007024	0.006616	0.005886
1990	0.006511	0.006411	0.006099	0.005842	0.005782	0.005606

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.01226	0.01178	0.01089	0.009163	0.008666	0.007556
0.0645161290322581		0.01143	0.01103	0.009796	0.00898	0.008593
0.0967741935483871		0.01089	0.01046	0.009503	0.008717	0.008477
0.129032258064516	0.01046	0.0101	0.009401	0.008503	0.008311	0.007285
0.161290322580645	0.0104	0.0101	0.009378	0.008486	0.008114	0.00715
0.193548387096774	0.0103	0.01002	0.009214	0.008265	0.008089	0.007133
0.225806451612903	0.01022	0.009968	0.009174	0.008232	0.007978	0.007123
0.258064516129032	0.009808	0.009527	0.009017	0.008027	0.007835	0.007078
0.290322580645161	0.009368	0.00914	0.008656	0.008009	0.00778	0.007058
0.32258064516129	0.009325	0.009103	0.008483	0.007897	0.007741	0.007012
0.354838709677419	0.009271	0.009035	0.008465	0.007897	0.007723	0.007008
0.387096774193548	0.009248	0.008995	0.008419	0.00789	0.007694	0.006949
0.419354838709677	0.009137	0.008931	0.008174	0.007867	0.007575	0.006939
0.451612903225806	0.00894	0.008742	0.008114	0.007757	0.007516	0.006932
0.483870967741936	0.008506	0.00836	0.007948	0.007524	0.007482	0.006854
0.516129032258065	0.00846	0.008265	0.007832	0.007381	0.00724	0.006784
0.548387096774194	0.008421	0.008182	0.007663	0.007277	0.007213	0.006704
0.580645161290323	0.008248	0.008093	0.007615	0.007208	0.007093	0.006594
0.612903225806452	0.007616	0.007607	0.007579	0.007103	0.006978	0.006585
0.645161290322581	0.007498	0.007451	0.007321	0.00703	0.006881	0.006463
0.67741935483871	0.007493	0.007429	0.007264	0.007024	0.006816	0.006305
0.709677419354839	0.007369	0.007274	0.007045	0.006915	0.006751	0.005923
0.741935483870968	0.007296	0.007015	0.00695	0.00679	0.006616	0.005886
0.774193548387097	0.006978	0.006972	0.00629	0.006099	0.006066	0.005634
0.806451612903226	0.00694	0.006736	0.006243	0.006034	0.005782	0.005606
0.838709677419355	0.006597	0.006509	0.00616	0.005842	0.005688	0.004755
0.870967741935484	0.006511	0.006411	0.006099	0.005551	0.005319	0.004335
0.903225806451613	0.004703	0.004493	0.004085	0.00383	0.00356	0.002718
0.935483870967742	0.003387	0.003168	0.002674	0.002543	0.002486	0.001724
0.967741935483871	0.003094	0.002949	0.002509	0.001897	0.001675	0.0007384

0.1                    0.010847   0.010424   0.0094928                    0.0086956                    0.0084604                    0.0073993  
 Average of yearly averages:                    0.00612621333333333

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

Data used for this run:

Output File: FLMOL136

Metfile: w12834.dvf

PRZM scenario: FLturFC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46136

Description	Variable Name	Value	Units	Comments
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Molecular weight	mwt	453	g/mol	
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Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
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Vapor Pressure	vapr		torr	
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Solubility	sol	0.16	mg/L	
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Kd	Kd		mg/L	
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Koc	Koc	4208	mg/L	
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Photolysis half-life	kdp	7	days	Half-life
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Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
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Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
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Aerobic Soil Metabolism	asm	700	days	Halfife
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Hydrolysis:	pH 7		days	Half-life
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Method:	CAM	8	integer	See PRZM manual
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Incorporation Depth:	DEPI	2	cm	
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Application Rate:	TAPP	0.0067	kg/ha	
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Application Efficiency:	APPEFF	1.0	fraction	
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Spray Drift	DRFT		fraction of application rate applied to pond	
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Application Date	Date	11-4	dd/mm or dd/mmm or dd-mm or dd-mmm	
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Interval 1	interval	90	days	Set to 0 or delete line for single app.
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Record 17: FILTRA

IPSCND

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run	IR		IR	
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Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	
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MOLECRICKET\_MB513



stored as FLMOL513.out

Chemical: MB46513

PRZM environment: FLturfC.txt modified Monday, 16 June 2003 at 14:48:06

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

Metfile: w12834.dvf modified Wedday, 3 July 2002 at 09:04:28

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
1961	0.0001237		0.0001214		0.0001131		0.0001015	9.868e-005
4.446e-005								
1962	0.0001693		0.0001682		0.0001622		0.0001542	0.0001513 0.0001093
1963	0.0002645		0.0002614		0.0002501		0.0002379	0.0002296 0.0001751
1964	0.0004431		0.0004364		0.0004189		0.0003801	0.0003658 0.0003024
1965	0.0004181		0.0004149		0.0004044		0.0003888	0.0003807 0.0003407
1966	0.0005594		0.000554	0.0005451		0.000517	0.0005002	0.000413
1967	0.0007252		0.0007168		0.0006955		0.0006483	0.000625 0.0005043
1968	0.0006349		0.000631	0.0006183		0.0005972	0.000588	0.0005494
1969	0.0005865		0.0005842		0.0005805		0.00057	0.000562 0.0005429
1970	0.0005244		0.0005241		0.0005229		0.0005201	0.0005178 0.0004912
1971	0.0005129		0.0005106		0.0005019		0.0004872	0.000486 0.0004606
1972	0.0005252		0.0005221		0.0005103		0.0004911	0.0004818 0.0004511
1973	0.0004802		0.000478	0.0004709		0.0004636	0.0004557	0.0004361
1974	0.0004858		0.0004834		0.0004796		0.0004666	0.0004587 0.000425
1975	0.0004753		0.0004731		0.0004661		0.000452	0.0004447 0.000421
1976	0.000459	0.0004567		0.0004513		0.00044	0.0004321	0.0004117
1977	0.0005763		0.0005715		0.0005565		0.0005437	0.0005293 0.000446
1978	0.0006835		0.000677	0.0006532		0.0006228	0.0006116	0.0005369
1979	0.0007102		0.0007044		0.0006898		0.0006584	0.0006399 0.0005625
1980	0.0005866		0.0005848		0.0005794		0.0005698	0.0005685 0.000549
1981	0.0005973		0.0005938		0.0005813		0.0005718	0.0005659 0.0005272
1982	0.0006661		0.0006612		0.0006434		0.0006183	0.000604 0.0005457
1983	0.0006289		0.0006255		0.0006168		0.0006004	0.0005893 0.0005543
1984	0.0006881		0.0006833		0.0006654		0.0006375	0.0006396 0.0005811
1985	0.000606	0.0006042		0.0005971		0.0005848	0.0005782	0.0005514
1986	0.0007695		0.0007615		0.0007427		0.0006948	0.0006696 0.0005578
1987	0.0005718		0.0005714		0.0005697		0.0005661	0.0005634 0.0005398
1988	0.0005023		0.000502	0.000501	0.0004987		0.0004967	0.0004795
1989	0.000497	0.0004949		0.0004875		0.0004739	0.0004657	0.000442
1990	0.0004169		0.0004166		0.0004154		0.0004125	0.0004103 0.000395

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129	0.0007695		0.0007615		0.0007427		0.0006948	0.0006696 0.0005811
0.0645161290322581		0.0007252		0.0007168		0.0006955	0.0006584	0.0006399
	0.0005625							
0.0967741935483871		0.0007102		0.0007044		0.0006898	0.0006483	0.0006396
	0.0005578							
0.129032258064516	0.0006881		0.0006833		0.0006654		0.0006375	0.000625 0.0005543
0.161290322580645	0.0006835		0.000677	0.0006532		0.0006228	0.0006116	0.0005514
0.193548387096774	0.0006661		0.0006612		0.0006434		0.0006183	0.000604 0.0005494
0.225806451612903	0.0006349		0.000631	0.0006183		0.0006004	0.0005893	0.000549
0.258064516129032	0.0006289		0.0006255		0.0006168		0.0005972	0.000588 0.0005457
0.290322580645161	0.000606	0.0006042		0.0005971		0.0005848	0.0005782	0.0005429
0.32258064516129	0.0005973		0.0005938		0.0005813		0.0005718	0.0005685 0.0005398
0.354838709677419	0.0005866		0.0005848		0.0005805		0.00057	0.0005659 0.0005369
0.387096774193548	0.0005865		0.0005842		0.0005794		0.0005698	0.0005634 0.0005272
0.419354838709677	0.0005763		0.0005715		0.0005697		0.0005661	0.000562 0.0005043
0.451612903225806	0.0005718		0.0005714		0.0005565		0.0005437	0.0005293 0.0004912
0.483870967741936	0.0005594		0.000554	0.0005451		0.0005201	0.0005178	0.0004795
0.516129032258065	0.0005252		0.0005241		0.0005229		0.000517	0.0005002 0.0004606
0.548387096774194	0.0005244		0.0005221		0.0005103		0.0004987	0.0004967 0.0004511
0.580645161290323	0.0005129		0.0005106		0.0005019		0.0004911	0.000486 0.000446
0.612903225806452	0.0005023		0.000502	0.000501	0.0004872		0.0004818	0.000442
0.645161290322581	0.000497	0.0004949		0.0004875		0.0004739	0.0004657	0.0004361
0.67741935483871	0.0004858		0.0004834		0.0004796		0.0004666	0.0004587 0.000425
0.709677419354839	0.0004802		0.000478	0.0004709		0.0004636	0.0004557	0.000421
0.741935483870968	0.0004753		0.0004731		0.0004661		0.000452	0.0004447 0.000413
0.774193548387097	0.000459	0.0004567		0.0004513		0.00044	0.0004321	0.0004117
0.806451612903226	0.0004431		0.0004364		0.0004189		0.0004125	0.0004103 0.000395
0.838709677419355	0.0004181		0.0004166		0.0004154		0.0003888	0.0003807 0.0003407
0.870967741935484	0.0004169		0.0004149		0.0004044		0.0003801	0.0003658 0.0003024

0.903225806451613	0.0002645	0.0002614	0.0002501	0.0002379	0.0002296	0.0001751
0.935483870967742	0.0001693	0.0001682	0.0001622	0.0001542	0.0001513	0.0001093
0.967741935483871	0.0001237	0.0001214	0.0001131	0.0001015	9.868e-005	
4.446e-005						
0.1	0.00070799	0.00070229	0.00068736	0.00064722	0.00063814	
0.00055745						

Average of yearly averages: 0.000444882

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

Data used for this run:

Output File: FLMOL513

Metfile: w12834.dvf

PRZM scenario: FLturfC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46513

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	389	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.95	mg/L	
Kd	Kd		mg/L	
Koc	Koc	1290	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1320	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1320	days	Halfife
Aerobic Soil Metabolism	asm	660	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	8	integer	See PRZM manual
Incorporation Depth:	DEPI	2	cm	
Application Rate:	TAPP	0.0003	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT			fraction of application rate applied to pond
Application Date	Date	11-4		dd/mm or dd/mm or dd-mm or dd-mmm
Interval 1	interval	90	days	Set to 0 or delete line for single app.
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total		none, monthly or total(average of entire run)

# MOLECRICKET\_MB950

stored as FLMOL950.out

Chemical: MB45950

PRZM environment: FLturfC.txt modified Monday, 16 June 2003 at 14:48:06

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

Metfile: w12834.dvf modified Wedday, 3 July 2002 at 09:04:28

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly			
1961	0.0007004		0.0006719		0.0005783		0.0004727	0.0004311	0.0001921
1962	0.0007561		0.0007433		0.0006985		0.000663	0.0006394	0.0004546
1963	0.001156	0.001128	0.001043	0.0009823		0.0009357	0.0007166		
1964	0.001763	0.001725	0.001615	0.00153	0.001465	0.001164			
1965	0.001779	0.001747	0.00165	0.001529	0.001477	0.001312			
1966	0.002238	0.002198	0.002131	0.001972	0.00189	0.001575			
1967	0.002864	0.002795	0.002623	0.002333	0.002239	0.001831			
1968	0.002691	0.002643	0.002509	0.00233	0.002268	0.002062			
1969	0.002579	0.002546	0.002438	0.002398	0.002345	0.002153			
1970	0.002148	0.002146	0.002141	0.002129	0.00212	0.00201			
1971	0.002231	0.002208	0.002131	0.002026	0.002026	0.001936			
1972	0.002757	0.002708	0.002541	0.002328	0.002269	0.00201			
1973	0.002299	0.002276	0.002207	0.002161	0.002118	0.00201			
1974	0.002357	0.00233	0.002245	0.002185	0.002142	0.001972			
1975	0.002096	0.002083	0.002043	0.00198	0.001962	0.001905			
1976	0.002247	0.00222	0.002131	0.002018	0.001972	0.001877			
1977	0.002672	0.002628	0.00253	0.002426	0.002341	0.002004			
1978	0.002728	0.002687	0.00255	0.002419	0.002386	0.0022			
1979	0.002927	0.002884	0.002793	0.002622	0.002546	0.002285			
1980	0.002306	0.002296	0.002268	0.002235	0.002231	0.002175			
1981	0.002508	0.002479	0.002439	0.002316	0.002258	0.002093			
1982	0.002737	0.002699	0.002571	0.002431	0.002369	0.002162			
1983	0.002662	0.00263	0.00255	0.002456	0.002399	0.002212			
1984	0.002967	0.00292	0.002763	0.002567	0.002546	0.00232			
1985	0.002363	0.002352	0.002317	0.002268	0.00226	0.002194			
1986	0.003378	0.003304	0.00315	0.002808	0.002668	0.00223			
1987	0.002233	0.002232	0.002227	0.002217	0.002208	0.002128			
1988	0.002028	0.002016	0.001993	0.001986	0.001978	0.00193			
1989	0.002133	0.002115	0.002046	0.001936	0.001886	0.001832			
1990	0.001862	0.001849	0.001803	0.001771	0.001762	0.001713			

## Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly			
0.032258064516129	0.003378	0.003304	0.00315	0.002808	0.002668	0.00232			
0.0645161290322581		0.002967	0.00292	0.002793	0.002622	0.002546	0.002285		
0.0967741935483871		0.002927	0.002884	0.002763	0.002567	0.002546	0.00223		
0.129032258064516	0.002864	0.002795	0.002623	0.002456	0.002399	0.002212			
0.161290322580645	0.002757	0.002708	0.002571	0.002431	0.002386	0.0022			
0.193548387096774	0.002737	0.002699	0.00255	0.002426	0.002369	0.002194			
0.225806451612903	0.002728	0.002687	0.00255	0.002419	0.002345	0.002175			
0.258064516129032	0.002691	0.002643	0.002541	0.002398	0.002341	0.002162			
0.290322580645161	0.002672	0.00263	0.00253	0.002333	0.002269	0.002153			
0.32258064516129	0.002662	0.002628	0.002509	0.00233	0.002268	0.002128			
0.354838709677419	0.002579	0.002546	0.002439	0.002328	0.00226	0.002093			
0.387096774193548	0.002508	0.002479	0.002438	0.002316	0.002258	0.002062			
0.419354838709677	0.002363	0.002352	0.002317	0.002268	0.002239	0.00201			
0.451612903225806	0.002357	0.00233	0.002268	0.002235	0.002231	0.00201			
0.483870967741936	0.002306	0.002296	0.002245	0.002217	0.002208	0.00201			
0.516129032258065	0.002299	0.002276	0.002227	0.002185	0.002142	0.002004			
0.548387096774194	0.002247	0.002232	0.002207	0.002161	0.00212	0.001972			
0.580645161290323	0.002238	0.00222	0.002141	0.002129	0.002118	0.001936			
0.612903225806452	0.002233	0.002208	0.002131	0.002026	0.002026	0.00193			
0.645161290322581	0.002231	0.002198	0.002131	0.002018	0.001978	0.001905			
0.67741935483871	0.002148	0.002146	0.002131	0.001986	0.001972	0.001877			
0.709677419354839	0.002133	0.002115	0.002046	0.00198	0.001962	0.001832			
0.741935483870968	0.002096	0.002083	0.002043	0.001972	0.00189	0.001831			
0.774193548387097	0.002028	0.002016	0.001993	0.001936	0.001886	0.001713			
0.806451612903226	0.001862	0.001849	0.001803	0.001771	0.001762	0.001575			
0.838709677419355	0.001779	0.001747	0.00165	0.00153	0.001477	0.001312			
0.870967741935484	0.001763	0.001725	0.001615	0.001529	0.001465	0.001164			

0.903225806451613	0.001156	0.001128	0.001043	0.0009823	0.0009357	0.0007166	
0.935483870967742	0.0007561		0.0007433		0.0006985	0.000663	0.0006394
0.967741935483871	0.0007004		0.0006719		0.0005783	0.0004727	0.0004311
0.1	0.0029207		0.0028751		0.002749	0.0025559	0.0025313
					Average of yearly averages:		0.0022282
							0.0018219433333333

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

Data used for this run:

Output File: FLMOL950

Metfile: w12834.dvf

PRZM scenario: FLturfC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB45950

Description	Variable Name	Value	Units	Comments
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Molecular weight	mwt	421	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.1	mg/L	
Kd	Kd		mg/L	
Koc	Koc	2719	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	8	integer	See PRZM manual
Incorporation Depth:	DEPI	2	cm	
Application Rate:	TAPP	0.0014	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mmnn or dd-mm or dd-mmnn	
Interval 1	interval	90	days	Set to 0 or delete line for single app.
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

# ONION SEED\_FIPRONIL

stored as GAONIONFIP.out

Chemical: Fipronil

PRZM environment: GAOnionsC.txt modified Tuesday, 4 May 2004 at 13:18:36

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

Metfile: w03822.dvf modified Wedday, 3 July 2002 at 10:04:32

Water segmeat concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	5.506	5.1	3.86	3.05	2.51	0.639
1962	5.638	5.189	3.804	3.27	2.563	1.193
1963	10.32	9.485	8	5.739	4.427	1.417
1964	17.14	15.89	13.38	9.658	8.872	2.818
1965	5.455	5.03	3.754	3.142	2.845	1.397
1966	4.285	3.969	2.923	2.201	1.825	0.8417
1967	6.568	6.301	5.424	3.562	2.737	1.421
1968	5.844	5.402	4.383	3.412	3.047	1.006
1969	17.12	15.98	12.18	8.052	6.423	1.919
1970	8.451	7.709	5.626	3.773	3.086	1.492
1971	10.91	10.07	8.54	5.806	4.926	1.58
1972	6.663	6.254	5.226	3.362	3.05	1.132
1973	3.265	3.027	2.346	1.846	1.535	0.8389
1974	5.415	4.995	3.738	3.299	2.679	0.9711
1975	9.294	8.531	6.808	4.665	3.56	1.213
1976	8.848	8.198	6.099	5.267	4.195	1.288
1977	4.719	4.373	3.535	3.053	2.45	0.9952
1978	4.631	4.33	3.602	2.966	2.531	1.084
1979	11.97	11.05	8.601	5.639	4.55	1.535
1980	5.6	5.188	4.106	2.98	2.44	0.9194
1981	6.914	6.327	4.762	3.303	2.509	0.9099
1982	3.424	3.215	2.617	1.973	1.608	0.824
1983	5.943	5.503	4.074	2.883	2.503	1.305
1984	12.95	11.87	9.334	6.128	4.685	1.672
1985	5.758	5.249	3.774	2.477	2.479	0.95
1986	7.698	7.11	5.353	4.035	3.912	1.452
1987	4.489	4.145	3.434	2.382	1.958	1.005
1988	4.778	4.46	3.571	2.415	1.866	0.8097
1989	33.62	31.08	25.58	16.86	13.05	3.544
1990	58.34	55.28	40.79	24.41	18.34	5.035

## Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	58.34	55.28	40.79	24.41	18.34	5.035
0.0645161290322581		33.62	31.08	25.58	16.86	13.05
0.0967741935483871		17.14	15.98	13.38	9.658	8.872
0.129032258064516	17.12	15.89	12.18	8.052	6.423	1.919
0.161290322580645	12.95	11.87	9.334	6.128	4.926	1.672
0.193548387096774	11.97	11.05	8.601	5.806	4.685	1.58
0.225806451612903	10.91	10.07	8.54	5.739	4.55	1.535
0.258064516129032	10.32	9.485	8	5.639	4.427	1.492
0.290322580645161	9.294	8.531	6.808	5.267	4.195	1.452
0.32258064516129	8.848	8.198	6.099	4.665	3.912	1.421
0.354838709677419	8.451	7.709	5.626	4.035	3.56	1.417
0.387096774193548	7.698	7.11	5.424	3.773	3.086	1.397
0.419354838709677	6.914	6.327	5.353	3.562	3.05	1.305
0.451612903225806	6.663	6.301	5.226	3.412	3.047	1.288
0.483870967741936	6.568	6.254	4.762	3.362	2.845	1.213
0.516129032258065	5.943	5.503	4.383	3.303	2.737	1.193
0.548387096774194	5.844	5.402	4.106	3.299	2.679	1.132
0.580645161290323	5.758	5.249	4.074	3.27	2.563	1.084
0.612903225806452	5.638	5.189	3.86	3.142	2.531	1.006
0.645161290322581	5.6	5.188	3.804	3.053	2.51	1.005
0.67741935483871	5.506	5.1	3.774	3.05	2.509	0.9952
0.709677419354839	5.455	5.03	3.754	2.98	2.503	0.9711
0.741935483870968	5.415	4.995	3.738	2.966	2.479	0.95

0.774193548387097	4.778	4.46	3.602	2.883	2.45	0.9194
0.806451612903226	4.719	4.373	3.571	2.477	2.44	0.9099
0.838709677419355	4.631	4.33	3.535	2.415	1.958	0.8417
0.870967741935484	4.489	4.145	3.434	2.382	1.866	0.8389
0.903225806451613	4.285	3.969	2.923	2.201	1.825	0.824
0.935483870967742	3.424	3.215	2.617	1.973	1.608	0.8097
0.967741935483871	3.265	3.027	2.346	1.846	1.535	0.639
0.1	17.138	15.971	13.26	9.4974	8.6271	2.7281
						Average of yearly averages: 1.44023

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

Data used for this run:

Output File: GAONIONFIP

Metfile: w03822.dvf

PRZM scenario: GAOnionsC.txt

EXAMS environment file: ir298.exv

Chemical Name: Fipronil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	437	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	2.4	mg/L	
Kd	Kd		mg/L	
Koc	Koc	727	mg/L	
Photolysis half-life	kdp	0.16	days	Half-life
Aerobic Aquatic Metabolism	kbacw	33.7	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	33.7	days	Halfife
Aerobic Soil Metabolism	asm	128	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	0.635	cm	
Application Rate:	TAPP	0.5	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-9	dd/mm or dd/mmm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

# ONIONSEED\_MB136

stored as GAONION136.out

Chemical: MB46136

PRZM environment: GAOnionsC.txt modified Tuesday, 4 May 2004 at 13:18:36

EXAMS environment: ir298.exv modified Thursday, 29 August 2002 at 15:34:12

Metfile: w03822.dvf modified Wednesday, 3 July 2002 at 10:04:32

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.5117	0.4769	0.3711	0.2955	0.2636	0.06621
1962	1.6	1.553	1.412	1.349	1.296	0.9551
1963	3.309	3.193	2.838	2.501	2.411	1.965
1964	5.601	5.465	5.05	4.643	4.675	3.591
1965	4.918	4.864	4.708	4.581	4.552	4.456
1966	5.697	5.61	5.472	5.286	5.188	4.94
1967	6.124	6.055	5.881	5.521	5.406	5.36
1968	6.098	6.018	5.776	5.525	5.475	5.304
1969	7.908	7.732	7.192	6.738	6.478	5.932
1970	7.274	7.212	6.979	6.875	6.809	6.539
1971	8.137	7.99	7.638	7.37	7.32	6.851
1972	7.929	7.84	7.616	7.254	7.196	7.135
1973	8.094	8.002	7.769	7.51	7.473	7.206
1974	7.631	7.55	7.334	7.177	7.112	6.963
1975	8.839	7.748	7.538	7.329	7.301	7.05
1976	8.508	8.384	8.101	7.972	7.879	7.491
1977	8	7.958	7.839	7.688	7.626	7.441
1978	7.628	7.585	7.484	7.43	7.373	7.175
1979	8.64	8.526	8.236	8.04	7.892	7.501
1980	8.169	8.099	7.938	7.75	7.685	7.405
1981	8.326	8.261	7.904	7.594	7.518	7.177
1982	8.259	8.152	7.916	7.806	7.73	7.367
1983	8.47	8.37	8.069	7.891	7.827	7.604
1984	9.081	8.936	8.496	8.262	8.126	7.838
1985	8.133	8.057	7.863	7.646	7.607	7.511
1986	8.127	8.054	7.833	7.724	7.682	7.546
1987	8.525	8.43	8.196	7.993	7.882	7.756
1988	8.288	8.193	7.994	7.814	7.727	7.561
1989	10.18	9.952	9.556	8.942	8.707	7.698
1990	13.59	13.27	11.87	10.48	9.913	8.451

## Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	13.59	13.27	11.87	10.48	9.913	8.451
0.0645161290322581		10.18	9.952	9.556	8.942	8.707
0.0967741935483871		9.081	8.936	8.496	8.262	8.126
0.129032258064516	8.64	8.526	8.236	8.04	7.892	7.698
0.161290322580645	8.525	8.43	8.196	7.993	7.882	7.604
0.193548387096774	8.508	8.384	8.101	7.972	7.879	7.561
0.225806451612903	8.47	8.37	8.069	7.891	7.827	7.546
0.258064516129032	8.326	8.261	7.994	7.814	7.73	7.511
0.290322580645161	8.288	8.193	7.938	7.806	7.727	7.501
0.32258064516129	8.259	8.152	7.916	7.75	7.685	7.491
0.354838709677419	8.169	8.099	7.904	7.724	7.682	7.441
0.387096774193548	8.137	8.057	7.863	7.688	7.626	7.405
0.419354838709677	8.133	8.054	7.839	7.646	7.607	7.367
0.451612903225806	8.127	8.002	7.833	7.594	7.518	7.206
0.483870967741936	8.094	7.99	7.769	7.51	7.473	7.177
0.516129032258065	8	7.958	7.638	7.43	7.373	7.175
0.548387096774194	7.929	7.84	7.616	7.37	7.32	7.135
0.580645161290323	7.908	7.748	7.538	7.329	7.301	7.05
0.612903225806452	7.839	7.732	7.484	7.254	7.196	6.963
0.645161290322581	7.631	7.585	7.334	7.177	7.112	6.851

0.67741935483871	7.628	7.55	7.192	6.875	6.809	6.539
0.709677419354839	7.274	7.212	6.979	6.738	6.478	5.932
0.741935483870968	6.124	6.055	5.881	5.525	5.475	5.36
0.774193548387097	6.098	6.018	5.776	5.521	5.406	5.304
0.806451612903226	5.697	5.61	5.472	5.286	5.188	4.94
0.838709677419355	5.601	5.465	5.05	4.643	4.675	4.456
0.870967741935484	4.918	4.864	4.708	4.581	4.552	3.591
0.903225806451613	3.309	3.193	2.838	2.501	2.411	1.965
0.935483870967742	1.6	1.553	1.412	1.349	1.296	0.9551
0.967741935483871	0.5117	0.4769	0.3711	0.2955	0.2636	0.06621
0.1	9.0369	8.895	8.47	8.2398	8.1026	7.7502
Average of yearly averages:						6.261177

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

Data used for this run:

Output File: GAONION136

Metfile: w03822.dvf

PRZM scenario: GAOnionsC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46136

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	453	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.16	mg/L	
Kd	Kd		mg/L	
Koc	Koc	4208	mg/L	
Photolysis half-life	kdp	7	days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	0.635	cm	
Application Rate:	TAPP	0.1338	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-9	dd/mm or dd/mmm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR			IR
Flag for runoff calc.	RUNOFF	total		none, monthly or total(average of entire run)



## ONIONSEED\_MB513

stored as GAONION513.out

Chemical: MB46513

PRZM environment: GAOnionsC.txt modified Tuesday, 4 May 2004 at 13:18:36

EXAMS environment: ir298.exv modified Thursday, 29 August 2002 at 15:34:12

Metfile: w03822.dvf modified Wednesday, 3 July 2002 at 10:04:32

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.06453	0.06306	0.05776	0.05322	0.0451	0.01127
1962	0.1581	0.1565	0.1508	0.1441	0.1405	0.1095
1963	0.2568	0.2544	0.2482	0.2419	0.2373	0.1829
1964	0.4883	0.4841	0.4684	0.4317	0.4226	0.3133
1965	0.4519	0.4502	0.4438	0.4369	0.4309	0.4162
1966	0.4819	0.4803	0.4743	0.4698	0.4659	0.4513
1967	0.5427	0.54	0.5366	0.5238	0.517	0.5017
1968	0.5359	0.5345	0.5292	0.5232	0.5201	0.5004
1969	0.68	0.6752	0.6579	0.641	0.6063	0.5448
1970	0.6441	0.6416	0.633	0.623	0.6216	0.6136
1971	0.6924	0.6894	0.6824	0.676	0.6666	0.6271
1972	0.7011	0.6985	0.6888	0.6651	0.6642	0.6453
1973	0.686	0.6845	0.6787	0.6754	0.6747	0.6514
1974	0.6684	0.6665	0.6608	0.6536	0.6494	0.6386
1975	0.6954	0.6929	0.6849	0.6761	0.6696	0.6511
1976	0.7365	0.7338	0.7271	0.7097	0.6954	0.6671
1977	0.7225	0.7208	0.7154	0.7059	0.7005	0.6711
1978	0.6929	0.6916	0.6884	0.6827	0.6809	0.6611
1979	0.7303	0.7274	0.7169	0.7082	0.7052	0.6755
1980	0.7182	0.7166	0.7128	0.7066	0.7014	0.6782
1981	0.6914	0.6892	0.6824	0.6757	0.6755	0.6626
1982	0.6998	0.6982	0.6924	0.6873	0.6843	0.6716
1983	0.7417	0.7395	0.7313	0.7228	0.7177	0.692
1984	0.7788	0.7756	0.765	0.7564	0.7497	0.7254
1985	0.7411	0.7399	0.7356	0.7303	0.7283	0.7102
1986	0.7514	0.7495	0.7436	0.7383	0.7366	0.716
1987	0.7897	0.7872	0.7807	0.7726	0.766	0.7228
1988	0.7295	0.7281	0.7245	0.7194	0.719	0.6976
1989	0.9169	0.9097	0.8909	0.8738	0.8628	0.7235
1990	1.24	1.228	1.184	1.127	1.077	0.8624

### Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	1.24	1.228	1.184	1.127	1.077	0.8624
0.0645161290322581		0.9169	0.9097	0.8909	0.8738	0.8628
0.0967741935483871		0.7897	0.7872	0.7807	0.7726	0.766
0.129032258064516	0.7788	0.7756	0.765	0.7564	0.7497	0.7228
0.161290322580645	0.7514	0.7495	0.7436	0.7383	0.7366	0.716
0.193548387096774	0.7417	0.7399	0.7356	0.7303	0.7283	0.7102
0.225806451612903	0.7411	0.7395	0.7313	0.7228	0.719	0.6976
0.258064516129032	0.7365	0.7338	0.7271	0.7194	0.7177	0.692
0.290322580645161	0.7303	0.7281	0.7245	0.7097	0.7052	0.6782
0.32258064516129	0.7295	0.7274	0.7169	0.7082	0.7014	0.6755
0.354838709677419	0.7225	0.7208	0.7154	0.7066	0.7005	0.6716
0.387096774193548	0.7182	0.7166	0.7128	0.7059	0.6954	0.6711
0.419354838709677	0.7011	0.6985	0.6924	0.6873	0.6843	0.6671
0.451612903225806	0.6998	0.6982	0.6888	0.6827	0.6809	0.6626
0.483870967741936	0.6954	0.6929	0.6884	0.6761	0.6755	0.6611
0.516129032258065	0.6929	0.6916	0.6849	0.676	0.6747	0.6514
0.548387096774194	0.6924	0.6894	0.6824	0.6757	0.6696	0.6511

0.580645161290323	0.6914	0.6892	0.6824	0.6754	0.6666	0.6453
0.612903225806452	0.686	0.6845	0.6787	0.6651	0.6642	0.6386
0.645161290322581	0.68	0.6752	0.6608	0.6536	0.6494	0.6271
0.67741935483871	0.6684	0.6665	0.6579	0.641	0.6216	0.6136
0.709677419354839	0.6441	0.6416	0.633	0.623	0.6063	0.5448
0.741935483870968	0.5427	0.54	0.5366	0.5238	0.5201	0.5017
0.774193548387097	0.5359	0.5345	0.5292	0.5232	0.517	0.5004
0.806451612903226	0.4883	0.4841	0.4743	0.4698	0.4659	0.4513
0.838709677419355	0.4819	0.4803	0.4684	0.4369	0.4309	0.4162
0.870967741935484	0.4519	0.4502	0.4438	0.4317	0.4226	0.3133
0.903225806451613	0.2568	0.2544	0.2482	0.2419	0.2373	0.1829
0.935483870967742	0.1581	0.1565	0.1508	0.1441	0.1405	0.1095
0.967741935483871	0.06453	0.06306	0.05776	0.05322	0.0451	0.01127

0.1	0.78861	0.78604	0.77913	0.77098	0.76437	0.72343
						Average of yearly averages: 0.579852333333333

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

Data used for this run:

Output File: GAONION513

Metfile: w03822.dvf

PRZM scenario: GAOnionsC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46513

Description	Variable Name	Value	Units	Comments
Molecular weight	mw	389	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.95	mg/L	
Kd	Kd		mg/L	
Koc	Koc	1290	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1320	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1320	days	Halfife
Aerobic Soil Metabolism	asm	660	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	0.635	cm	
Application Rate:	TAPP	0.0054	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-9	dd/mm or dd/mm or dd-mm or dd- <del>mm</del>	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

US EPA ARCHIVE DOCUMENT

## ONIONSEED\_MB950

stored as GAONION950.out

Chemical: MB45950

PRZM environment: GAOnionsC.txt modified Tuesday, 4 May 2004 at 13:18:36

EXAMS environment: ir298.exv modified Thursday, 29 August 2002 at 15:34:12

Metfile: w03822.dvf modified Wednesday, 3 July 2002 at 10:04:32

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.1471	0.1404	0.1183	0.1001	0.08692	0.02177
1962	0.4642	0.4557	0.4274	0.4089	0.3948	0.2932
1963	0.785	0.7731	0.7407	0.7201	0.7	0.5639
1964	1.489	1.467	1.392	1.29	1.291	0.9899
1965	1.369	1.36	1.331	1.305	1.294	1.256
1966	1.526	1.515	1.495	1.466	1.447	1.401
1967	1.683	1.673	1.651	1.584	1.557	1.545
1968	1.693	1.681	1.645	1.601	1.599	1.556
1969	2.17	2.143	2.052	1.966	1.891	1.732
1970	2.075	2.061	2.016	1.976	1.973	1.921
1971	2.249	2.231	2.212	2.163	2.138	2.014
1972	2.287	2.272	2.226	2.143	2.125	2.102
1973	2.297	2.284	2.25	2.207	2.2	2.141
1974	2.227	2.215	2.181	2.15	2.135	2.101
1975	2.309	2.294	2.261	2.216	2.189	2.143
1976	2.465	2.451	2.417	2.376	2.35	2.252
1977	2.393	2.385	2.362	2.329	2.313	2.258
1978	2.309	2.302	2.286	2.272	2.261	2.212
1979	2.52	2.502	2.458	2.4	2.379	2.292
1980	2.436	2.426	2.402	2.369	2.354	2.285
1981	2.406	2.399	2.351	2.312	2.303	2.24
1982	2.455	2.439	2.401	2.38	2.364	2.293
1983	2.54	2.525	2.476	2.44	2.426	2.363
1984	2.665	2.644	2.574	2.538	2.512	2.441
1985	2.478	2.468	2.438	2.399	2.396	2.37
1986	2.496	2.485	2.446	2.433	2.427	2.384
1987	2.603	2.589	2.551	2.513	2.488	2.424
1988	2.464	2.451	2.429	2.407	2.404	2.371
1989	2.995	2.957	2.889	2.783	2.73	2.427
1990	3.836	3.781	3.54	3.271	3.125	2.681

### Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	3.836	3.781	3.54	3.271	3.125	2.681	
0.0645161290322581		2.995	2.957	2.889	2.783	2.73	2.441
0.0967741935483871		2.665	2.644	2.574	2.538	2.512	2.427
0.129032258064516	2.603	2.589	2.551	2.513	2.488	2.424	
0.161290322580645	2.54	2.525	2.476	2.44	2.427	2.384	
0.193548387096774	2.52	2.502	2.458	2.433	2.426	2.371	
0.225806451612903	2.496	2.485	2.446	2.407	2.404	2.37	
0.258064516129032	2.478	2.468	2.438	2.4	2.396	2.363	
0.290322580645161	2.465	2.451	2.429	2.399	2.379	2.293	
0.32258064516129	2.464	2.451	2.417	2.38	2.364	2.292	
0.354838709677419	2.455	2.439	2.402	2.376	2.354	2.285	
0.387096774193548	2.436	2.426	2.401	2.369	2.35	2.258	
0.419354838709677	2.406	2.399	2.362	2.329	2.313	2.252	
0.451612903225806	2.393	2.385	2.351	2.312	2.303	2.24	

0.483870967741936	2.309	2.302	2.286	2.272	2.261	2.212
0.516129032258065	2.309	2.294	2.261	2.216	2.2	2.143
0.548387096774194	2.297	2.284	2.25	2.207	2.189	2.141
0.580645161290323	2.287	2.272	2.226	2.163	2.138	2.102
0.612903225806452	2.249	2.231	2.212	2.15	2.135	2.101
0.645161290322581	2.227	2.215	2.181	2.143	2.125	2.014
0.67741935483871	2.17	2.143	2.052	1.976	1.973	1.921
0.709677419354839	2.075	2.061	2.016	1.966	1.891	1.732
0.741935483870968	1.693	1.681	1.651	1.601	1.599	1.556
0.774193548387097	1.683	1.673	1.645	1.584	1.557	1.545
0.806451612903226	1.526	1.515	1.495	1.466	1.447	1.401
0.838709677419355	1.489	1.467	1.392	1.305	1.294	1.256
0.870967741935484	1.369	1.36	1.331	1.29	1.291	0.9899
0.903225806451613	0.785	0.7731	0.7407	0.7201	0.7	0.5639
0.935483870967742	0.4642	0.4557	0.4274	0.4089	0.3948	0.2932
0.967741935483871	0.1471	0.1404	0.1183	0.1001	0.08692	0.02177
0.1	2.6588	2.6385	2.5717	2.5355	2.5096	2.4267
						Average of yearly averages: 1.902459

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

Data used for this run:

Output File: GAONION950

Metfile: w03822.dvf

PRZM scenario: GAOnionsC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB45950

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	421	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.1	mg/L	
Kd	Kd		mg/L	
Koc	Koc	2719	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	0.635	cm	
Application Rate:	TAPP	0.0245	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-9	dd/mm or dd/mm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

## SWEETPOTATO/POTATO\_FIPRONIL

stored as NCSWPOTFIP.out

Chemical: Fipronil

PRZM environment: NCSweetPotatoC.txt modified Friday, 8 August 2003 at 09:25:48

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0	0	0	0	0	0
1962	0	0	0	0	0	0
1963	0	0	0	0	0	0
1964	0	0	0	0	0	0
1965	0	0	0	0	0	0
1966	0	0	0	0	0	0
1967	0	0	0	0	0	0
1968	0	0	0	0	0	0
1969	0	0	0	0	0	0
1970	0	0	0	0	0	0
1971	0	0	0	0	0	0
1972	0	0	0	0	0	0
1973	0	0	0	0	0	0
1974	0	0	0	0	0	0
1975	0	0	0	0	0	0
1976	0	0	0	0	0	0
1977	0	0	0	0	0	0
1978	0	0	0	0	0	0
1979	0	0	0	0	0	0
1980	0	0	0	0	0	0
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	0	0	0	0	0
1985	0	0	0	0	0	0
1986	0	0	0	0	0	0
1987	0	0	0	0	0	0
1988	0	0	0	0	0	0
1989	0	0	0	0	0	0
1990	0	0	0	0	0	0

### Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0	0	0	0	0	0
0.0645161290322581	0	0	0	0	0	0
0.0967741935483871	0	0	0	0	0	0
0.129032258064516	0	0	0	0	0	0
0.161290322580645	0	0	0	0	0	0
0.193548387096774	0	0	0	0	0	0
0.225806451612903	0	0	0	0	0	0
0.258064516129032	0	0	0	0	0	0
0.290322580645161	0	0	0	0	0	0
0.32258064516129	0	0	0	0	0	0
0.354838709677419	0	0	0	0	0	0

0.387096774193548	0	0	0	0	0
0.419354838709677	0	0	0	0	0
0.451612903225806	0	0	0	0	0
0.483870967741936	0	0	0	0	0
0.516129032258065	0	0	0	0	0
0.548387096774194	0	0	0	0	0
0.580645161290323	0	0	0	0	0
0.612903225806452	0	0	0	0	0
0.645161290322581	0	0	0	0	0
0.67741935483871	0	0	0	0	0
0.709677419354839	0	0	0	0	0
0.741935483870968	0	0	0	0	0
0.774193548387097	0	0	0	0	0
0.806451612903226	0	0	0	0	0
0.838709677419355	0	0	0	0	0
0.870967741935484	0	0	0	0	0
0.903225806451613	0	0	0	0	0
0.935483870967742	0	0	0	0	0
0.967741935483871	0	0	0	0	0
0.1	0	0	0	0	0

Average of yearly averages: 0

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

Data used for this run:

Output File: NCSWPOT.FIP

Metfile: w13722.dvf

PRZM scenario: NCSweetPotatoC.txt

EXAMS environment file: ir298.exv

Chemical Name: Fipronil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	437	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	2.4	mg/L	
Kd	Kd		mg/L	
Koc	Koc	727	mg/L	
Photolysis half-life	kdp	0.16	days	Half-life
Aerobic Aquatic Metabolism	kbacw	33.7	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	33.7	days	Halfife
Aerobic Soil Metabolism	asm	128	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	7	integer	See PRZM manual
Incorporation Depth:	DEPI	10.16	cm	
Application Rate:	TAPP	0.112	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-5	dd/mm or dd/mm or dd-mm or dd- <del>mm</del>	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

## SWEETPOTATO/POTATO\_MB136

stored as NCSWPOT136.out

Chemical: MB46136

PRZM environment: NCSweetPotatoC.txt modified Friday, 8 August 2003 at 09:25:48

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0	0	0	0	0	0
1962	0	0	0	0	0	0
1963	0	0	0	0	0	0
1964	0	0	0	0	0	0
1965	0	0	0	0	0	0
1966	0	0	0	0	0	0
1967	0	0	0	0	0	0
1968	0	0	0	0	0	0
1969	0	0	0	0	0	0
1970	0	0	0	0	0	0
1971	0	0	0	0	0	0
1972	0	0	0	0	0	0
1973	0	0	0	0	0	0
1974	0	0	0	0	0	0
1975	0	0	0	0	0	0
1976	0	0	0	0	0	0
1977	0	0	0	0	0	0
1978	0	0	0	0	0	0
1979	0	0	0	0	0	0
1980	0	0	0	0	0	0
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	0	0	0	0	0
1985	0	0	0	0	0	0
1986	0	0	0	0	0	0
1987	0	0	0	0	0	0
1988	0	0	0	0	0	0
1989	0	0	0	0	0	0
1990	0	0	0	0	0	0

### Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0	0	0	0	0	0
0.0645161290322581	0	0	0	0	0	0
0.0967741935483871	0	0	0	0	0	0
0.129032258064516	0	0	0	0	0	0
0.161290322580645	0	0	0	0	0	0
0.193548387096774	0	0	0	0	0	0
0.225806451612903	0	0	0	0	0	0
0.258064516129032	0	0	0	0	0	0

0.290322580645161	0	0	0	0	0
0.32258064516129	0	0	0	0	0
0.354838709677419	0	0	0	0	0
0.387096774193548	0	0	0	0	0
0.419354838709677	0	0	0	0	0
0.451612903225806	0	0	0	0	0
0.483870967741936	0	0	0	0	0
0.516129032258065	0	0	0	0	0
0.548387096774194	0	0	0	0	0
0.580645161290323	0	0	0	0	0
0.612903225806452	0	0	0	0	0
0.645161290322581	0	0	0	0	0
0.67741935483871	0	0	0	0	0
0.709677419354839	0	0	0	0	0
0.741935483870968	0	0	0	0	0
0.774193548387097	0	0	0	0	0
0.806451612903226	0	0	0	0	0
0.838709677419355	0	0	0	0	0
0.870967741935484	0	0	0	0	0
0.903225806451613	0	0	0	0	0
0.935483870967742	0	0	0	0	0
0.967741935483871	0	0	0	0	0
0.1	0	0	0	0	0

Average of yearly averages: 0

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

Data used for this run:

Output File: NCSWPOT136

Metfile: w13722.dvf

PRZM scenario: NCSweetPotatoC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46136

Description	Variable Name	Value	Units	Comments
Molecular weight	mwrt	453	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.16	mg/L	
Kd	Kd		mg/L	
Koc	Koc	4208	mg/L	
Photolysis half-life	kdp	7	days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	7	integer	See PRZM manual
Incorporation Depth:	DEPI	10.16	cm	
Application Rate:	TAPP	0.0268	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT			fraction of application rate applied to pond
Application Date	Date	15-5		dd/mm or dd/mm/yy or dd-mm
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR			IR
Flag for runoff calc.	RUNOFF	total		none, monthly or total(average of entire run)



## SWEETPOTATO/POTATO\_MB513

stored as NCSWPOT513.out

Chemical: MB46513

PRZM environment: NCSweetPotatoC.txt modified Friday, 8 August 2003 at 09:25:48

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0	0	0	0	0	0
1962	0	0	0	0	0	0
1963	0	0	0	0	0	0
1964	0	0	0	0	0	0
1965	0	0	0	0	0	0
1966	0	0	0	0	0	0
1967	0	0	0	0	0	0
1968	0	0	0	0	0	0
1969	0	0	0	0	0	0
1970	0	0	0	0	0	0
1971	0	0	0	0	0	0
1972	0	0	0	0	0	0
1973	0	0	0	0	0	0
1974	0	0	0	0	0	0
1975	0	0	0	0	0	0
1976	0	0	0	0	0	0
1977	0	0	0	0	0	0
1978	0	0	0	0	0	0
1979	0	0	0	0	0	0
1980	0	0	0	0	0	0
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	0	0	0	0	0
1985	0	0	0	0	0	0
1986	0	0	0	0	0	0
1987	0	0	0	0	0	0
1988	0	0	0	0	0	0
1989	0	0	0	0	0	0
1990	0	0	0	0	0	0

### Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0	0	0	0	0	0
0.0645161290322581	0	0	0	0	0	0
0.0967741935483871	0	0	0	0	0	0
0.129032258064516	0	0	0	0	0	0
0.161290322580645	0	0	0	0	0	0

0.193548387096774	0	0	0	0	0	0
0.225806451612903	0	0	0	0	0	0
0.258064516129032	0	0	0	0	0	0
0.290322580645161	0	0	0	0	0	0
0.32258064516129	0	0	0	0	0	0
0.354838709677419	0	0	0	0	0	0
0.387096774193548	0	0	0	0	0	0
0.419354838709677	0	0	0	0	0	0
0.451612903225806	0	0	0	0	0	0
0.483870967741936	0	0	0	0	0	0
0.516129032258065	0	0	0	0	0	0
0.548387096774194	0	0	0	0	0	0
0.580645161290323	0	0	0	0	0	0
0.612903225806452	0	0	0	0	0	0
0.645161290322581	0	0	0	0	0	0
0.67741935483871	0	0	0	0	0	0
0.709677419354839	0	0	0	0	0	0
0.741935483870968	0	0	0	0	0	0
0.774193548387097	0	0	0	0	0	0
0.806451612903226	0	0	0	0	0	0
0.838709677419355	0	0	0	0	0	0
0.870967741935484	0	0	0	0	0	0
0.903225806451613	0	0	0	0	0	0
0.935483870967742	0	0	0	0	0	0
0.967741935483871	0	0	0	0	0	0
0.1	0	0	0	0	0	0

Average of yearly averages: 0

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

Data used for this run:

Output File: NCSWPOT513

Metfile: w13722.dvf

PRZM scenario: NCSweetPotatoC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46513

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	389	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.95	mg/L	
Kd	Kd		mg/L	
Koc	Koc	1290	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1320	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1320	days	Halfife
Aerobic Soil Metabolism	asm	660	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	7	integer	See PRZM manual
Incorporation Depth:	DEPI	10.16	cm	
Application Rate:	TAPP	0.0018	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-5	dd/mm or dd/mmm or dd-mm or dd-mmm	

Record 17: FILTRA  
IPSCND  
UPTKF

Record 18: PLVKRT  
PLDKRT  
FEXTRC 0.5

Flag for Index Res. Run IR IR

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

## SWEETPOTATO/POTATO\_MB950

stored as NCSWPOT950.out

Chemical: MB45950

PRZM environment: NCSweetPotatoC.txt modified Friday, 8 August 2003 at 09:25:48

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0	0	0	0	0	0
1962	0	0	0	0	0	0
1963	0	0	0	0	0	0
1964	0	0	0	0	0	0
1965	0	0	0	0	0	0
1966	0	0	0	0	0	0
1967	0	0	0	0	0	0
1968	0	0	0	0	0	0
1969	0	0	0	0	0	0
1970	0	0	0	0	0	0
1971	0	0	0	0	0	0
1972	0	0	0	0	0	0
1973	0	0	0	0	0	0
1974	0	0	0	0	0	0
1975	0	0	0	0	0	0
1976	0	0	0	0	0	0
1977	0	0	0	0	0	0
1978	0	0	0	0	0	0
1979	0	0	0	0	0	0
1980	0	0	0	0	0	0
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	0	0	0	0	0
1985	0	0	0	0	0	0
1986	0	0	0	0	0	0
1987	0	0	0	0	0	0
1988	0	0	0	0	0	0
1989	0	0	0	0	0	0
1990	0	0	0	0	0	0

### Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0	0	0	0	0	0
0.0645161290322581	0	0	0	0	0	0

0.0967741935483871	0	0	0	0	0	0
0.129032258064516	0	0	0	0	0	0
0.161290322580645	0	0	0	0	0	0
0.193548387096774	0	0	0	0	0	0
0.225806451612903	0	0	0	0	0	0
0.258064516129032	0	0	0	0	0	0
0.290322580645161	0	0	0	0	0	0
0.32258064516129	0	0	0	0	0	0
0.354838709677419	0	0	0	0	0	0
0.387096774193548	0	0	0	0	0	0
0.419354838709677	0	0	0	0	0	0
0.451612903225806	0	0	0	0	0	0
0.483870967741936	0	0	0	0	0	0
0.516129032258065	0	0	0	0	0	0
0.548387096774194	0	0	0	0	0	0
0.580645161290323	0	0	0	0	0	0
0.612903225806452	0	0	0	0	0	0
0.645161290322581	0	0	0	0	0	0
0.67741935483871	0	0	0	0	0	0
0.709677419354839	0	0	0	0	0	0
0.741935483870968	0	0	0	0	0	0
0.774193548387097	0	0	0	0	0	0
0.806451612903226	0	0	0	0	0	0
0.838709677419355	0	0	0	0	0	0
0.870967741935484	0	0	0	0	0	0
0.903225806451613	0	0	0	0	0	0
0.935483870967742	0	0	0	0	0	0
0.967741935483871	0	0	0	0	0	0
0.1	0	0	0	0	0	0
Average of yearly averages:						0

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

Data used for this run:

Output File: NCSWPOT950

Metfile: w13722.dvf

PRZM scenario: NCSweetPotatoC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB45950

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	421	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.1	mg/L	
Kd	Kd		mg/L	
Koc	Koc	2719	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH7		days	Half-life
Method:	CAM	7	integer	See PRZM manual
Incorporation Depth:	DEPI	10.16	cm	
Application Rate:	TAPP	0.0055	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-5	dd/mm or dd/mmm or dd-mm or dd-mmmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR	IR		
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

## TURNIP\_FIPRONIL

stored as TURNFIP.out

Chemical: Fipronil

PRZM environment: ORswcornC.txt modified Satday, 12 October 2002 at 17:21:42

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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	0.4757	0.4492	0.3616	0.2952	0.2392	0.06388
1962	0.9972	0.9329	0.7459	0.624	0.5478	0.1781
1963	0.8054	0.7601	0.6697	0.5363	0.4049	0.1505
1964	0.6455	0.6204	0.5307	0.4278	0.2889	0.1111
1965	0.8889	0.8486	0.6873	0.4988	0.3662	0.152
1966	0.7741	0.7497	0.6429	0.5223	0.369	0.1587
1967	0.6768	0.6539	0.5386	0.4612	0.386	0.1474
1968	0.7381	0.7079	0.6031	0.4592	0.4231	0.1909
1969	0.9768	0.903	0.724	0.6231	0.5495	0.2106
1970	0.7106	0.6787	0.624	0.4851	0.4021	0.1488
1971	0.5747	0.5409	0.3947	0.3575	0.3337	0.1669
1972	0.7932	0.7512	0.5297	0.3586	0.2823	0.1018
1973	1.012	0.965	0.8322	0.5889	0.456	0.1985
1974	1.091	1.052	0.8701	0.6716	0.4598	0.1532
1975	0.649	0.6144	0.5457	0.468	0.3504	0.1463
1976	0.2554	0.2436	0.2083	0.1422	0.1123	0.04542
1977	0.481	0.4544	0.4148	0.3227	0.2499	0.08587
1978	0.4141	0.3875	0.3571	0.2516	0.178	0.08856
1979	0.9954	0.9585	0.8309	0.6429	0.5089	0.1933
1980	0.8791	0.8366	0.6707	0.4749	0.3253	0.1339
1981	0.9621	0.9077	0.6987	0.5903	0.5456	0.2404
1982	0.5534	0.5288	0.4754	0.3347	0.2462	0.1014
1983	0.4465	0.4233	0.3741	0.2901	0.2069	0.1156
1984	0.6137	0.588	0.5338	0.3856	0.3126	0.1325
1985	0.8794	0.8156	0.6018	0.3509	0.2667	0.1475
1986	0.6085	0.5799	0.4925	0.3646	0.3022	0.1143
1987	1.262	1.19	1.046	0.5588	0.3811	0.175
1988	0.7344	0.7049	0.5852	0.4101	0.2966	0.1612
1989	0.8802	0.8301	0.6542	0.4814	0.3736	0.1353
1990	0.785	0.7362	0.6392	0.5434	0.4147	0.175

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	1.262	1.19	1.046	0.6716	0.5495	0.2404	
0.0645161290322581		1.091	1.052	0.8701	0.6429	0.5478	0.2106
0.0967741935483871		1.012	0.965	0.8322	0.624	0.5456	0.1985
0.129032258064516	0.9972	0.9585	0.8309	0.6231	0.5089	0.1933	
0.161290322580645	0.9954	0.9329	0.7459	0.5903	0.4598	0.1909	
0.193548387096774	0.9768	0.9077	0.724	0.5889	0.456	0.1781	
0.225806451612903	0.9621	0.903	0.6987	0.5588	0.4231	0.175	
0.258064516129032	0.8889	0.8486	0.6873	0.5434	0.4147	0.175	
0.290322580645161	0.8802	0.8366	0.6707	0.5363	0.4049	0.1669	
0.32258064516129	0.8794	0.8301	0.6697	0.5223	0.4021	0.1612	
0.354838709677419	0.8791	0.8156	0.6542	0.4988	0.386	0.1587	
0.387096774193548	0.8054	0.7601	0.6429	0.4851	0.3811	0.1532	
0.419354838709677	0.7932	0.7512	0.6392	0.4814	0.3736	0.152	
0.451612903225806	0.785	0.7497	0.624	0.4749	0.369	0.1505	
0.483870967741936	0.7741	0.7362	0.6031	0.468	0.3662	0.1488	
0.516129032258065	0.7381	0.7079	0.6018	0.4612	0.3504	0.1475	
0.548387096774194	0.7344	0.7049	0.5852	0.4592	0.3337	0.1474	
0.580645161290323	0.7106	0.6787	0.5457	0.4278	0.3253	0.1463	
0.612903225806452	0.6768	0.6539	0.5386	0.4101	0.3126	0.1353	
0.645161290322581	0.649	0.6204	0.5338	0.3856	0.3022	0.1339	
0.67741935483871	0.6455	0.6144	0.5307	0.3646	0.2966	0.1325	
0.709677419354839	0.6137	0.588	0.5297	0.3586	0.2889	0.1156	
0.741935483870968	0.6085	0.5799	0.4925	0.3575	0.2823	0.1143	
0.774193548387097	0.5747	0.5409	0.4754	0.3509	0.2667	0.1111	
0.806451612903226	0.5534	0.5288	0.4148	0.3347	0.2499	0.1018	
0.838709677419355	0.481	0.4544	0.3947	0.3227	0.2462	0.1014	
0.870967741935484	0.4757	0.4492	0.3741	0.2952	0.2392	0.08856	
0.903225806451613	0.4465	0.4233	0.3616	0.2901	0.2069	0.08587	
0.935483870967742	0.4141	0.3875	0.3571	0.2516	0.178	0.06388	
0.967741935483871	0.2554	0.2436	0.2083	0.1422	0.1123	0.04542	

0.1                    1.01052   0.96435   0.83207   0.62391   0.54193   0.19798  
Average of yearly averages:                    0.144131

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

Data used for this run:

Output File: TURNFIP

Metfile: w24232.dvf  
PRZM scenario: ORswcomC.txt  
EXAMS environment file: ir298.exv

Chemical Name:	Fipronil			
Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	437	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	2.4	mg/L	
Kd	Kd		mg/L	
Koc	Koc	727	mg/L	
Photolysis half-life	kdp	0.16	days	Half-life
Aerobic Aquatic Metabolism	kbacw	33.7	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	33.7	days	Halfife
Aerobic Soil Metabolism	asm	128	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	1.27	cm	
Application Rate:	TAPP	0.1456	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT			fraction of application rate applied to pond
Application Date	Date	25-5		dd/mm or dd/mm/yy or dd-mm or dd-mm/yy
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total		none, monthly or total(average of entire run)

## TURNIP\_MB136

stored as TURNIP136.out

Chemical: MB46136

PRZM environment: ORswcomC.txt modified Satday, 12 October 2002 at 17:21:42

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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	0.1586	0.1466	0.09913	0.06054	0.04562	0.01169
1962	0.2971	0.2784	0.2369	0.1798	0.1665	0.08665
1963	0.3052	0.2917	0.2614	0.2322	0.2073	0.1759
1964	0.6103	0.5822	0.4112	0.2935	0.256	0.2089
1965	0.4802	0.4631	0.3983	0.3715	0.3377	0.2589
1966	0.5393	0.5234	0.4509	0.3563	0.3436	0.2719
1967	0.4188	0.4101	0.3623	0.3153	0.3001	0.2486
1968	0.481	0.4627	0.4221	0.3638	0.3454	0.2858
1969	0.4596	0.4453	0.4121	0.3757	0.3519	0.3033
1970	0.5241	0.5077	0.466	0.4255	0.3999	0.3157
1971	0.4708	0.4515	0.4246	0.3794	0.366	0.3111
1972	0.5108	0.4888	0.4217	0.3706	0.3549	0.2834
1973	0.6215	0.5932	0.5356	0.4655	0.3797	0.2785
1974	0.6464	0.623	0.5448	0.4682	0.4434	0.3471
1975	0.4236	0.4059	0.3585	0.347	0.337	0.2852
1976	0.3825	0.37	0.34	0.3159	0.313	0.2422
1977	0.4962	0.4682	0.393	0.2868	0.2383	0.1781
1978	0.3843	0.368	0.3305	0.2887	0.2658	0.2103
1979	0.3464	0.3309	0.3029	0.2804	0.2606	0.2067
1980	0.5624	0.5301	0.4094	0.3213	0.2867	0.243
1981	0.4842	0.4667	0.4435	0.3915	0.3631	0.2795
1982	0.4407	0.422	0.3908	0.373	0.3589	0.2917
1983	0.4292	0.4204	0.3993	0.3727	0.3631	0.3005
1984	0.4256	0.412	0.3669	0.3457	0.3047	0.264
1985	0.3013	0.295	0.2756	0.2653	0.2591	0.2308
1986	0.3695	0.3571	0.3183	0.2726	0.2604	0.2208

1987	0.5592	0.5258	0.4614	0.3107	0.2771	0.2378
1988	0.4571	0.4362	0.3907	0.3292	0.3055	0.2475
1989	0.4314	0.4084	0.338	0.269	0.2627	0.2231
1990	0.3913	0.3792	0.3638	0.3316	0.3105	0.2499

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.6464	0.623	0.5448	0.4682	0.4434	0.3471
0.0645161290322581		0.6215	0.5932	0.5356	0.4655	0.3999
0.0967741935483871		0.6103	0.5822	0.466	0.4255	0.3797
0.129032258064516	0.5624	0.5301	0.4614	0.3915	0.366	0.3033
0.161290322580645	0.5592	0.5258	0.4509	0.3794	0.3631	0.3005
0.193548387096774	0.5393	0.5234	0.4435	0.3757	0.3631	0.2917
0.225806451612903	0.5241	0.5077	0.4246	0.373	0.3589	0.2858
0.258064516129032	0.5108	0.4888	0.4221	0.3727	0.3549	0.2852
0.290322580645161	0.4962	0.4682	0.4217	0.3715	0.3519	0.2834
0.32258064516129	0.4842	0.4667	0.4121	0.3706	0.3454	0.2795
0.354838709677419	0.481	0.4631	0.4112	0.3638	0.3436	0.2785
0.387096774193548	0.4802	0.4627	0.4094	0.3563	0.3377	0.2719
0.419354838709677	0.4708	0.4515	0.3993	0.347	0.337	0.264
0.451612903225806	0.4596	0.4453	0.3983	0.3457	0.313	0.2589
0.483870967741936	0.4571	0.4362	0.393	0.3316	0.3105	0.2499
0.516129032258065	0.4407	0.422	0.3908	0.3292	0.3055	0.2486
0.548387096774194	0.4314	0.4204	0.3907	0.3213	0.3047	0.2475
0.580645161290323	0.4292	0.412	0.3669	0.3159	0.3001	0.243
0.612903225806452	0.4256	0.4101	0.3638	0.3153	0.2867	0.2422
0.645161290322581	0.4236	0.4084	0.3623	0.3107	0.2771	0.2378
0.67741935483871	0.4188	0.4059	0.3585	0.2935	0.2658	0.2308
0.709677419354839	0.3913	0.3792	0.34	0.2887	0.2627	0.2231
0.741935483870968	0.3843	0.37	0.338	0.2868	0.2606	0.2208
0.774193548387097	0.3825	0.368	0.3305	0.2804	0.2604	0.2103
0.806451612903226	0.3695	0.3571	0.3183	0.2726	0.2591	0.2089
0.838709677419355	0.3464	0.3309	0.3029	0.269	0.256	0.2067
0.870967741935484	0.3052	0.295	0.2756	0.2653	0.2383	0.1781
0.903225806451613	0.3013	0.2917	0.2614	0.2322	0.2073	0.1759
0.935483870967742	0.2971	0.2784	0.2369	0.1798	0.1665	0.08665
0.967741935483871	0.1586	0.1466	0.09913	0.06054	0.04562	0.01169

0.1                      0.60551    0.57699    0.46554    0.4221    0.37833    0.31032  
 Average of yearly averages:                      0.243284666666667

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

Data used for this run:

Output File: TURNIP136

Metfile: w24232.dvf  
 PRZM scenario: ORswcomC.txt  
 EXAMS environment file: ir298.exv

Description	Variable Name	Value	Units	Comments
Molecular weight	mw	453	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.16	mg/L	
Kd	Kd		mg/L	
Koc	Koc	4208	mg/L	
Photolysis half-life	kdp	7	days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	1.27	cm	
Application Rate:	TAPP	0.0349	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	25-5	dd/mm or dd/mm or dd-mm or dd-mm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			



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

## TURNIP\_MB513

stored as TURNIP513.out

Chemical: MB46513

PRZM environment: ORswcornC.txt modified Saturday, 12 October 2002 at 17:21:42

EXAMS environment: ir298.exv modified Thursday, 29 August 2002 at 15:34:12

Metfile: w24232.dvf modified Wednesday, 3 July 2002 at 09:06:10

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.01494	0.01445	0.01118	0.007312	0.005506	0.001432
1962	0.02278	0.02214	0.02069	0.017	0.01553	0.008331
1963	0.02085	0.02036	0.01868	0.01687	0.01441	0.01167
1964	0.03091	0.03015	0.0234	0.01655	0.01508	0.01116
1965	0.02768	0.02712	0.02454	0.02165	0.01948	0.01334
1966	0.02878	0.02827	0.02597	0.02155	0.01965	0.01376
1967	0.02258	0.02218	0.02038	0.01805	0.01679	0.01244
1968	0.02274	0.0223	0.02118	0.01979	0.01911	0.01462
1969	0.02497	0.02446	0.02328	0.02093	0.01966	0.01395
1970	0.02604	0.02364	0.02248	0.02073	0.01915	0.01417
1971	0.02536	0.02472	0.02341	0.02061	0.01889	0.01431
1972	0.0254	0.02477	0.01865	0.01583	0.01477	0.01085
1973	0.03372	0.03295	0.03111	0.02635	0.02073	0.01418
1974	0.02621	0.02569	0.02367	0.02075	0.01901	0.01402
1975	0.02261	0.02213	0.02074	0.01886	0.01751	0.01299
1976	0.01833	0.01794	0.01739	0.01557	0.01469	0.009451
1977	0.02389	0.02322	0.02091	0.01473	0.01156	0.006705
1978	0.01988	0.01938	0.01813	0.01544	0.01389	0.009385
1979	0.02176	0.02117	0.01991	0.01852	0.01647	0.0106
1980	0.03236	0.03138	0.02546	0.01817	0.01609	0.0121

1981	0.02911	0.02828	0.02678	0.02421	0.02239	0.0161
1982	0.02412	0.02373	0.02226	0.02001	0.01855	0.0133
1983	0.02293	0.02257	0.02101	0.01872	0.01746	0.01269
1984	0.02201	0.02159	0.01996	0.01873	0.01536	0.01095
1985	0.01586	0.01555	0.01475	0.0136	0.01204	0.01041
1986	0.02005	0.01964	0.01782	0.01451	0.01236	0.009796
1987	0.03367	0.03262	0.02955	0.01844	0.01462	0.01162
1988	0.02838	0.02763	0.0258	0.02249	0.02033	0.01383
1989	0.02458	0.02388	0.02123	0.01608	0.01477	0.01129
1990	0.02291	0.02231	0.02156	0.02039	0.01897	0.01369

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	0.03372	0.03295	0.03111	0.02635	0.02239	0.0161	
0.0645161290322581		0.03367	0.03262	0.02955	0.02421	0.02073	0.01462
0.0967741935483871		0.03236	0.03138	0.02678	0.02249	0.02033	0.01431
0.129032258064516	0.03091	0.03015	0.02597	0.02165	0.01966	0.01418	
0.161290322580645	0.02911	0.02828	0.0258	0.02155	0.01965	0.01417	
0.193548387096774	0.02878	0.02827	0.02546	0.02093	0.01948	0.01402	
0.225806451612903	0.02838	0.02763	0.02454	0.02075	0.01915	0.01395	
0.258064516129032	0.02768	0.02712	0.02367	0.02073	0.01911	0.01383	
0.290322580645161	0.02621	0.02569	0.02341	0.02061	0.01901	0.01376	
0.32258064516129	0.02604	0.02477	0.0234	0.02039	0.01897	0.01369	
0.354838709677419	0.0254	0.02472	0.02328	0.02001	0.01889	0.01334	
0.387096774193548	0.02536	0.02446	0.02248	0.01979	0.01855	0.0133	
0.419354838709677	0.02497	0.02388	0.02226	0.01886	0.01751	0.01299	
0.451612903225806	0.02458	0.02373	0.02156	0.01873	0.01746	0.01269	
0.483870967741936	0.02412	0.02364	0.02123	0.01872	0.01679	0.01244	
0.516129032258065	0.02389	0.02322	0.02118	0.01852	0.01647	0.0121	
0.548387096774194	0.02293	0.02257	0.02101	0.01844	0.01609	0.01167	
0.580645161290323	0.02291	0.02231	0.02091	0.01817	0.01553	0.01162	
0.612903225806452	0.02278	0.0223	0.02074	0.01805	0.01536	0.01129	
0.645161290322581	0.02274	0.02218	0.02069	0.017	0.01508	0.01116	
0.67741935483871	0.02261	0.02214	0.02038	0.01687	0.01477	0.01095	
0.709677419354839	0.02258	0.02213	0.01996	0.01655	0.01477	0.01085	
0.741935483870968	0.02201	0.02159	0.01991	0.01608	0.01469	0.0106	
0.774193548387097	0.02176	0.02117	0.01868	0.01583	0.01462	0.01041	
0.806451612903226	0.02085	0.02036	0.01865	0.01557	0.01441	0.009796	
0.838709677419355	0.02005	0.01964	0.01813	0.01544	0.01389	0.009451	
0.870967741935484	0.01988	0.01938	0.01782	0.01473	0.01236	0.009385	
0.903225806451613	0.01833	0.01794	0.01739	0.01451	0.01204	0.008331	
0.935483870967742	0.01586	0.01555	0.01475	0.0136	0.01156	0.006705	
0.967741935483871	0.01494	0.01445	0.01118	0.007312	0.005506	0.001432	
0.1	0.032215	0.031257	0.026699	0.022406	0.020263	0.014297	
						Average of yearly averages:	0.0117713333333333

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

Data used for this run:

Output File: TURNIP513

Metfile: w24232.dvf

PRZM scenario: ORswcomC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46513

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	389	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.95	mg/L	
Kd	Kd		mg/L	
Koc	Koc	1290	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1320	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1320	days	Halfife
Aerobic Soil Metabolism	asm	660	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	1.27	cm	
Application Rate:	TAPP	0.0014	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift:	DRFT		fraction of application rate applied to pond	

Application Date      Date      25-5      dd/mm or dd/mmm or dd-mm or dd-mmm  
 Record 17:            FILTRA  
                          IPSCND  
                          UPTKF  
 Record 18:            PLVKRT  
                          PLDKRT  
                          FEXTRC    0.5  
 Flag for Index Res. Run    IR            IR  
 Flag for runoff calc.    RUNOFF total      none, monthly or total(average of entire run)

## TURNIP\_MB950

stored as Turnip45950.out

Chemical: MB45950

PRZM environment: ORswcomC.txt      modified Satday, 12 October 2002 at 17:21:42

EXAMS environment: ir298.exv      modified Thuday, 29 August 2002 at 15:34:12

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	0.04796	0.04534	0.0323	0.01992	0.01494	0.003841
1962	0.08379	0.08008	0.07169	0.05625	0.05168	0.02783
1963	0.08198	0.07931	0.07218	0.06462	0.0575	0.04991
1964	0.1486	0.1433	0.105	0.07456	0.06889	0.05403
1965	0.1254	0.122	0.1072	0.09945	0.09014	0.06557
1966	0.1329	0.1295	0.1152	0.09304	0.0882	0.0669
1967	0.1007	0.09896	0.08973	0.07984	0.0756	0.05999
1968	0.1146	0.1114	0.1032	0.09022	0.08548	0.06957
1969	0.1086	0.1056	0.09912	0.09039	0.0843	0.0715
1970	0.123	0.1201	0.112	0.103	0.09702	0.07391
1971	0.1147	0.1108	0.1053	0.09418	0.08947	0.0728
1972	0.1145	0.1108	0.09857	0.08727	0.08347	0.06377
1973	0.1521	0.1471	0.1361	0.1183	0.09444	0.06588
1974	0.1482	0.1442	0.1303	0.1151	0.1076	0.08048
1975	0.1015	0.09798	0.08744	0.08349	0.08027	0.06541
1976	0.08591	0.08376	0.08072	0.0751	0.07413	0.05425

1977	0.1217	0.1165	0.1004	0.07033	0.05674	0.03858
1978	0.09857	0.09513	0.08666	0.07479	0.06798	0.05008
1979	0.08695	0.08382	0.07775	0.07163	0.06562	0.04911
1980	0.1382	0.1321	0.1039	0.07858	0.07228	0.05849
1981	0.123	0.1196	0.1144	0.1007	0.09278	0.06964
1982	0.1078	0.1048	0.09772	0.0941	0.08973	0.06936
1983	0.1043	0.102	0.09395	0.0888	0.0877	0.06953
1984	0.1022	0.09967	0.08983	0.08412	0.07225	0.06006
1985	0.0735	0.07198	0.06688	0.06281	0.06062	0.05295
1986	0.08794	0.08571	0.07619	0.06403	0.06124	0.05095
1987	0.1371	0.1308	0.1164	0.07661	0.06741	0.0564
1988	0.1157	0.1115	0.1016	0.08647	0.07927	0.06058
1989	0.1042	0.09993	0.08561	0.06698	0.06503	0.05333
1990	0.09813	0.09576	0.09246	0.08507	0.07955	0.06152

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	0.1521	0.1471	0.1361	0.1183	0.1076	0.08048	
0.0645161290322581		0.1486	0.1442	0.1303	0.1151	0.09702	0.07391
0.0967741935483871		0.1482	0.1433	0.1164	0.103	0.09444	0.0728
0.129032258064516	0.1382	0.1321	0.1152	0.1007	0.09278	0.0715	
0.161290322580645	0.1371	0.1308	0.1144	0.09945	0.09014	0.06964	
0.193548387096774	0.1329	0.1295	0.112	0.09418	0.08973	0.06957	
0.225806451612903	0.1254	0.122	0.1072	0.0941	0.08947	0.06953	
0.258064516129032	0.123	0.1201	0.1053	0.09304	0.0882	0.06936	
0.290322580645161	0.123	0.1196	0.105	0.09039	0.0877	0.0669	
0.32258064516129	0.1217	0.1165	0.1039	0.09022	0.08548	0.06588	
0.354838709677419	0.1157	0.1115	0.1032	0.0888	0.0843	0.06557	
0.387096774193548	0.1147	0.1114	0.1016	0.08727	0.08347	0.06541	
0.419354838709677	0.1146	0.1108	0.1004	0.08647	0.08027	0.06377	
0.451612903225806	0.1145	0.1108	0.09912	0.08507	0.07955	0.06152	
0.483870967741936	0.1086	0.1056	0.09857	0.08412	0.07927	0.06058	
0.516129032258065	0.1078	0.1048	0.09772	0.08349	0.0756	0.06006	
0.548387096774194	0.1043	0.102	0.09395	0.07984	0.07413	0.05999	
0.580645161290323	0.1042	0.09993	0.09246	0.07858	0.07228	0.05849	
0.612903225806452	0.1022	0.09967	0.08983	0.07661	0.07225	0.0564	
0.645161290322581	0.1015	0.09896	0.08973	0.0751	0.06889	0.05425	
0.67741935483871	0.1007	0.09798	0.08744	0.07479	0.06798	0.05403	
0.709677419354839	0.09857	0.09576	0.08666	0.07456	0.06741	0.05333	
0.741935483870968	0.09813	0.09513	0.08561	0.07163	0.06562	0.05295	
0.774193548387097	0.08794	0.08571	0.08072	0.07033	0.06503	0.05095	
0.806451612903226	0.08695	0.08382	0.07775	0.06698	0.06124	0.05008	
0.838709677419355	0.08591	0.08376	0.07619	0.06462	0.06062	0.04991	
0.870967741935484	0.08379	0.08008	0.07218	0.06403	0.0575	0.04911	
0.903225806451613	0.08198	0.07931	0.07169	0.06281	0.05674	0.03858	
0.935483870967742	0.0735	0.07198	0.06688	0.05625	0.05168	0.02783	
0.967741935483871	0.04796	0.04534	0.0323	0.01992	0.01494	0.003841	
0.1	0.1472	0.14218	0.11628	0.10277	0.094274	0.07267	

Average of yearly averages: 0.058207366666667

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

Data used for this run:

Output File: Tumip45950

Metfile: w24232.dvf

PRZM scenario: ORswcomC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB45950

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	421	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.1	mg/L	
Kd	Kd		mg/L	
Koc	Koc	2719	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual

Incorporation Depth:	DEPI	1.27	cm
Application Rate:	TAPP	0.0072	kg/ha
Application Efficiency:	APPEFF	1.0	fraction
Spray Drift	DRFT		fraction of application rate applied to pond
Application Date	Date	25-5	dd/mm or dd/mm or dd-mm or dd-mmm
Record 17:	FILTRA		
	IPSCND		
	UPTKF		
Record 18:	PLVKRT		
	PLDKRT		
	FEXTRC	0.5	
Flag for Index Res. Run	IR		IR
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)

## APPENDIX A-MODEL OUTPUT (Revised Modeling)

### PRZM-EXAMS SIMULATIONS

# GA ONION SCENARIO

stored as GAONIONFIP2.out

Chemical: Fipronil

PRZM environment: GAOnionsC.txt modified Tuesday, 4 May 2004 at 13:18:36

EXAMS environment: ir298.exv modified Thursday, 29 August 2002 at 15:34:12

Metfile: w03822.dvf modified Wednesday, 3 July 2002 at 10:04:32

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	1.539	1.426	1.079	0.8522	0.7009	0.1783
1962	1.579	1.453	1.065	0.9158	0.7176	0.3341
1963	2.891	2.656	2.24	1.607	1.24	0.3967
1964	4.798	4.449	3.746	2.704	2.484	0.7891
1965	1.527	1.408	1.051	0.8798	0.7966	0.3912
1966	1.2	1.111	0.8185	0.6161	0.511	0.2357
1967	1.838	1.764	1.518	0.9971	0.7663	0.3978
1968	1.636	1.512	1.227	0.9554	0.8533	0.2818
1969	4.792	4.473	3.409	2.254	1.798	0.5371
1970	2.366	2.159	1.575	1.056	0.8642	0.4177
1971	3.054	2.819	2.391	1.625	1.379	0.4424
1972	1.865	1.751	1.463	0.9414	0.854	0.3169
1973	0.9142	0.8475	0.6568	0.5168	0.4298	0.2349
1974	1.516	1.399	1.047	0.9236	0.7502	0.2719
1975	2.602	2.389	1.906	1.306	0.997	0.3397
1976	2.478	2.296	1.708	1.475	1.175	0.3606
1977	1.321	1.224	0.9898	0.855	0.6862	0.2787
1978	1.297	1.212	1.009	0.8306	0.7088	0.3036
1979	3.351	3.096	2.409	1.579	1.274	0.4298
1980	1.568	1.453	1.15	0.8345	0.6833	0.2574
1981	1.936	1.772	1.333	0.9251	0.7026	0.2548
1982	0.9589	0.9003	0.7327	0.5525	0.4502	0.2307
1983	1.664	1.541	1.141	0.8072	0.7007	0.3655
1984	3.627	3.324	2.614	1.716	1.312	0.4682
1985	1.612	1.47	1.057	0.6937	0.6943	0.266
1986	2.156	1.991	1.499	1.13	1.095	0.4065
1987	1.257	1.161	0.9615	0.6668	0.5483	0.2815
1988	1.338	1.249	1	0.6762	0.5226	0.2267
1989	9.414	8.704	7.161	4.721	3.654	0.9923
1990	16.34	15.48	11.42	6.834	5.135	1.41

## Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	16.34	15.48	11.42	6.834	5.135	1.41
0.0645161290322581	9.414	8.704	7.161	4.721	3.654	0.9923
0.0967741935483871	4.798	4.473	3.746	2.704	2.484	0.7891
0.129032258064516	4.792	4.449	3.409	2.254	1.798	0.5371
0.161290322580645	3.627	3.324	2.614	1.716	1.379	0.4682
0.193548387096774	3.351	3.096	2.409	1.625	1.312	0.4424
0.225806451612903	3.054	2.819	2.391	1.607	1.274	0.4298
0.258064516129032	2.891	2.656	2.24	1.579	1.24	0.4177
0.290322580645161	2.602	2.389	1.906	1.475	1.175	0.4065
0.32258064516129	2.478	2.296	1.708	1.306	1.095	0.3978
0.354838709677419	2.366	2.159	1.575	1.13	0.997	0.3967
0.387096774193548	2.156	1.991	1.518	1.056	0.8642	0.3912
0.419354838709677	1.936	1.772	1.499	0.9971	0.854	0.3655
0.451612903225806	1.865	1.764	1.463	0.9554	0.8533	0.3606
0.483870967741936	1.838	1.751	1.333	0.9414	0.7966	0.3397
0.516129032258065	1.664	1.541	1.227	0.9251	0.7663	0.3341
0.548387096774194	1.636	1.512	1.15	0.9236	0.7502	0.3169
0.580645161290323	1.612	1.47	1.141	0.9158	0.7176	0.3036
0.612903225806452	1.579	1.453	1.079	0.8798	0.7088	0.2818
0.645161290322581	1.568	1.453	1.065	0.855	0.7026	0.2815
0.67741935483871	1.539	1.426	1.057	0.8522	0.7009	0.2787
0.709677419354839	1.527	1.408	1.051	0.8345	0.7007	0.2719
0.741935483870968	1.516	1.399	1.047	0.8306	0.6943	0.266
0.774193548387097	1.338	1.249	1.009	0.8072	0.6862	0.2574
0.806451612903226	1.321	1.224	1	0.6937	0.6833	0.2548
0.838709677419355	1.297	1.212	0.9898	0.6762	0.5483	0.2357
0.870967741935484	1.257	1.161	0.9615	0.6668	0.5226	0.2349

0.903225806451613	1.2	1.111	0.8185	0.6161	0.511	0.2307
0.935483870967742	0.9589	0.9003	0.7327	0.5525	0.4502	0.2267
0.967741935483871	0.9142	0.8475	0.6568	0.5168	0.4298	0.1783

0.1	4.7974	4.4706	3.7123	2.659	2.4154	0.7639
Average of yearly averages:						0.403253333333333

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

Data used for this run:

Output File: GAONIONFIP2

Metfile: w03822.dvf

PRZM scenario: GAOnionsC.txt

EXAMS environment file: ir298.exv

Chemical Name: Fipronil

Description	Variable Name	Value	Units	Comments
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Molecular weight	mwt	437	g/mol	
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Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
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Vapor Pressure	vapr		torr	
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Solubility	sol	2.4	mg/L	
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Kd	Kd		mg/L	
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Koc	Koc	727	mg/L	
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Photolysis half-life	kdp	0.16	days	Half-life
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Aerobic Aquatic Metabolism	kbacw	33.7	days	Halfife
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Anaerobic Aquatic Metabolism	kbacs	33.7	days	Halfife
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Aerobic Soil Metabolism	asm	128	days	Halfife
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Hydrolysis:	pH7		days	Half-life
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Method:	CAM	5	integer	See PRZM manual
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Incorporation Depth:	DEPI	0.635	cm	
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Application Rate:	TAPP	0.14	kg/ha	
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Application Efficiency:	APPEFF	1.0	fraction	
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Spray Drift	DRFT		fraction of application rate applied to pond	
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Application Date	Date	15-9	dd/mm or dd/mmm or dd-mm or dd-mmm	
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Record 17: FILTRA

IPSCND

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run	IR	IR
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Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)
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stored as GAONION1362.out

Chemical: MB46136

PRZM environment: GAOnionsC.txt modified Tuesday, 4 May 2004 at 13:18:36

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

Metfile: w03822.dvf modified Wedday, 3 July 2002 at 10:04:32

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.128	0.1193	0.09283	0.07394	0.06588	0.01654
1962	0.4006	0.3889	0.3535	0.3377	0.3244	0.2391
1963	0.8285	0.7995	0.7106	0.6263	0.6037	0.492
1964	1.402	1.368	1.264	1.163	1.171	0.8991
1965	1.231	1.218	1.179	1.147	1.14	1.116
1966	1.427	1.405	1.37	1.324	1.299	1.237
1967	1.533	1.516	1.472	1.382	1.354	1.342
1968	1.527	1.507	1.446	1.383	1.371	1.328
1969	1.98	1.936	1.801	1.687	1.622	1.485
1970	1.821	1.806	1.747	1.721	1.705	1.637
1971	2.037	2.001	1.913	1.845	1.833	1.715
1972	1.985	1.963	1.907	1.816	1.802	1.787
1973	2.027	2.004	1.945	1.88	1.871	1.804
1974	1.911	1.89	1.836	1.797	1.781	1.743
1975	1.963	1.94	1.887	1.835	1.828	1.765
1976	2.13	2.099	2.028	1.996	1.973	1.876
1977	2.003	1.993	1.963	1.925	1.909	1.863
1978	1.91	1.899	1.874	1.86	1.846	1.797
1979	2.163	2.135	2.062	2.013	1.976	1.878
1980	2.045	2.028	1.987	1.94	1.924	1.854
1981	2.085	2.068	1.979	1.901	1.882	1.797
1982	2.068	2.041	1.982	1.954	1.935	1.845
1983	2.121	2.096	2.02	1.976	1.96	1.904

1984	2.274	2.237	2.127	2.069	2.034	1.963
1985	2.036	2.017	1.969	1.914	1.905	1.88
1986	2.035	2.016	1.961	1.934	1.923	1.889
1987	2.135	2.111	2.052	2.001	1.973	1.942
1988	2.075	2.051	2.002	1.956	1.935	1.893
1989	2.55	2.492	2.392	2.239	2.18	1.927
1990	3.402	3.322	2.972	2.624	2.482	2.116

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	3.402	3.322	2.972	2.624	2.482	2.116	
0.0645161290322581		2.55	2.492	2.392	2.239	2.18	1.963
0.0967741935483871		2.274	2.237	2.127	2.069	2.034	1.942
0.129032258064516	2.163	2.135	2.062	2.013	1.976	1.927	
0.161290322580645	2.135	2.111	2.052	2.001	1.973	1.904	
0.193548387096774	2.13	2.099	2.028	1.996	1.973	1.893	
0.225806451612903	2.121	2.096	2.02	1.976	1.96	1.889	
0.258064516129032	2.085	2.068	2.002	1.956	1.935	1.88	
0.290322580645161	2.075	2.051	1.987	1.954	1.935	1.878	
0.32258064516129	2.068	2.041	1.982	1.94	1.924	1.876	
0.354838709677419	2.045	2.028	1.979	1.934	1.923	1.863	
0.387096774193548	2.037	2.017	1.969	1.925	1.909	1.854	
0.419354838709677	2.036	2.016	1.963	1.914	1.905	1.845	
0.451612903225806	2.035	2.004	1.961	1.901	1.882	1.804	
0.483870967741936	2.027	2.001	1.945	1.88	1.871	1.797	
0.516129032258065	2.003	1.993	1.913	1.86	1.846	1.797	
0.548387096774194	1.985	1.963	1.907	1.845	1.833	1.787	
0.580645161290323	1.98	1.94	1.887	1.835	1.828	1.765	
0.612903225806452	1.963	1.936	1.874	1.816	1.802	1.743	
0.645161290322581	1.911	1.899	1.836	1.797	1.781	1.715	
0.67741935483871	1.91	1.89	1.801	1.721	1.705	1.637	
0.709677419354839	1.821	1.806	1.747	1.687	1.622	1.485	
0.741935483870968	1.533	1.516	1.472	1.383	1.371	1.342	
0.774193548387097	1.527	1.507	1.446	1.382	1.354	1.328	
0.806451612903226	1.427	1.405	1.37	1.324	1.299	1.237	
0.838709677419355	1.402	1.368	1.264	1.163	1.171	1.116	
0.870967741935484	1.231	1.218	1.179	1.147	1.14	0.8991	
0.903225806451613	0.8285	0.7995	0.7106	0.6263	0.6037	0.492	
0.935483870967742	0.4006	0.3889	0.3535	0.3377	0.3244	0.2391	
0.967741935483871	0.128	0.1193	0.09283	0.07394	0.06588	0.01654	
0.1	2.2629	2.2268	2.1205	2.0634	2.0282	1.9405	
						Average of yearly averages:	1.567658

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

Data used for this run:

Output File: GAONION1362

Metfile: w03822.dvf

PRZM scenario: GAOnionsC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46136

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	453	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.16	mg/L	
Kd	Kd		mg/L	
Koc	Koc	4208	mg/L	
Photolysis half-life	kdp	7	days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	0.635	cm	
Application Rate:	TAPP	0.0335	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-9	dd/mm or dd/mm/m or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			



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

stored as GAONION5132.out  
 Chemical: MB46513  
 PRZM environment: GAOnionsC.txt modified Tuesday, 4 May 2004 at 13:18:36  
 EXAMS environment: ir298.exv modified Thursday, 29 August 2002 at 15:34:12  
 Metfile: w03822.dvf modified Wednesday, 3 July 2002 at 10:04:32  
 Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.01554	0.01519	0.01391	0.01282	0.01086	0.002714
1962	0.03806	0.03768	0.03632	0.03469	0.03383	0.02636
1963	0.06182	0.06124	0.05975	0.05824	0.05713	0.04404
1964	0.1176	0.1165	0.1128	0.1039	0.1017	0.07543
1965	0.1088	0.1084	0.1068	0.1052	0.1037	0.1002
1966	0.116	0.1156	0.1142	0.1131	0.1121	0.1086
1967	0.1306	0.13	0.1292	0.1261	0.1244	0.1208
1968	0.129	0.1287	0.1274	0.1259	0.1252	0.1205
1969	0.1637	0.1626	0.1584	0.1543	0.146	0.1312
1970	0.1551	0.1545	0.1524	0.15	0.1497	0.1477
1971	0.1667	0.166	0.1643	0.1627	0.1605	0.151
1972	0.1688	0.1682	0.1658	0.1601	0.1599	0.1554
1973	0.1652	0.1648	0.1634	0.1626	0.1624	0.1568
1974	0.1609	0.1605	0.1591	0.1574	0.1563	0.1537
1975	0.1674	0.1668	0.1649	0.1628	0.1612	0.1568
1976	0.1773	0.1767	0.175	0.1709	0.1674	0.1606
1977	0.1739	0.1735	0.1722	0.17	0.1686	0.1616
1978	0.1668	0.1665	0.1657	0.1644	0.1639	0.1591
1979	0.1758	0.1751	0.1726	0.1705	0.1698	0.1626
1980	0.1729	0.1725	0.1716	0.1701	0.1689	0.1633
1981	0.1665	0.1659	0.1643	0.1627	0.1626	0.1595
1982	0.1685	0.1681	0.1667	0.1655	0.1648	0.1617
1983	0.1786	0.178	0.1761	0.174	0.1728	0.1666
1984	0.1875	0.1867	0.1842	0.1821	0.1805	0.1746
1985	0.1784	0.1781	0.1771	0.1758	0.1753	0.171
1986	0.1809	0.1804	0.179	0.1778	0.1773	0.1724
1987	0.1901	0.1895	0.1879	0.186	0.1844	0.174
1988	0.1756	0.1753	0.1744	0.1732	0.1731	0.168
1989	0.2207	0.219	0.2145	0.2104	0.2077	0.1742
1990	0.2986	0.2956	0.2851	0.2712	0.2592	0.2076

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.2986	0.2956	0.2851	0.2712	0.2592	0.2076
0.0645161290322581		0.2207	0.219	0.2145	0.2104	0.2077
0.0967741935483871		0.1901	0.1895	0.1879	0.186	0.1844
0.129032258064516	0.1875	0.1867	0.1842	0.1821	0.1805	0.174
0.161290322580645	0.1809	0.1804	0.179	0.1778	0.1773	0.1724
0.193548387096774	0.1786	0.1781	0.1771	0.1758	0.1753	0.171
0.225806451612903	0.1784	0.178	0.1761	0.174	0.1731	0.168
0.258064516129032	0.1773	0.1767	0.175	0.1732	0.1728	0.1666
0.290322580645161	0.1758	0.1753	0.1744	0.1709	0.1698	0.1633
0.32258064516129	0.1756	0.1751	0.1726	0.1705	0.1689	0.1626
0.354838709677419	0.1739	0.1735	0.1722	0.1701	0.1686	0.1617
0.387096774193548	0.1729	0.1725	0.1716	0.17	0.1674	0.1616
0.419354838709677	0.1688	0.1682	0.1667	0.1655	0.1648	0.1606
0.451612903225806	0.1685	0.1681	0.1658	0.1644	0.1639	0.1595
0.483870967741936	0.1674	0.1668	0.1657	0.1628	0.1626	0.1591
0.516129032258065	0.1668	0.1665	0.1649	0.1627	0.1624	0.1568
0.548387096774194	0.1667	0.166	0.1643	0.1627	0.1612	0.1568
0.580645161290323	0.1665	0.1659	0.1643	0.1626	0.1605	0.1554
0.612903225806452	0.1652	0.1648	0.1634	0.1601	0.1599	0.1537
0.645161290322581	0.1637	0.1626	0.1591	0.1574	0.1563	0.151
0.67741935483871	0.1609	0.1605	0.1584	0.1543	0.1497	0.1477
0.709677419354839	0.1551	0.1545	0.1524	0.15	0.146	0.1312

US EPA ARCHIVE DOCUMENT

0.741935483870968	0.1306	0.13	0.1292	0.1261	0.1252	0.1208
0.774193548387097	0.129	0.1287	0.1274	0.1259	0.1244	0.1205
0.806451612903226	0.1176	0.1165	0.1142	0.1131	0.1121	0.1086
0.838709677419355	0.116	0.1156	0.1128	0.1052	0.1037	0.1002
0.870967741935484	0.1088	0.1084	0.1068	0.1039	0.1017	0.07543
0.903225806451613	0.06182	0.06124	0.05975	0.05824	0.05713	0.04404
0.935483870967742	0.03806	0.03768	0.03632	0.03469	0.03383	0.02636
0.967741935483871	0.01554	0.01519	0.01391	0.01282	0.01086	0.002714
0.1	0.18984	0.18922	0.18753	0.18561	0.18401	0.17418
Average of yearly averages:						0.139601466666667

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

Data used for this run:

Output File: GAONION5132

Metfile: w03822.dvf

PRZM scenario: GAOnionsC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46513

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	389	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.95	mg/L	
Kd	Kd		mg/L	
Koc	Koc	1290	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1320	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1320	days	Halfife
Aerobic Soil Metabolism	asm	660	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	0.635	cm	
Application Rate:	TAPP	0.0013	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-9	dd/mm or dd/mmm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

stored as GAONION9502.out

Chemical: MB45950

PRZM environment: GAOnionsC.txt modified Tuesday, 4 May 2004 at 13:18:36

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

Metfile: w03822.dvf modified Wedday, 3 July 2002 at 10:04:32

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.04147	0.03959	0.03335	0.0282	0.02452	0.006141
1962	0.1307	0.1283	0.1204	0.1152	0.1112	0.08259
1963	0.2211	0.2177	0.2086	0.2028	0.1972	0.1588
1964	0.4193	0.413	0.392	0.3632	0.3635	0.2788
1965	0.3856	0.3831	0.3748	0.3674	0.3644	0.3536
1966	0.4297	0.4267	0.4209	0.4128	0.4074	0.3946
1967	0.4741	0.4712	0.4648	0.446	0.4386	0.4352
1968	0.4768	0.4734	0.4634	0.4509	0.4502	0.4382
1969	0.6111	0.6035	0.578	0.5537	0.5324	0.4877
1970	0.5844	0.5805	0.5676	0.5566	0.5555	0.5409
1971	0.6334	0.6283	0.6228	0.609	0.6021	0.5673
1972	0.644	0.6399	0.6269	0.6035	0.5983	0.592
1973	0.6468	0.6432	0.6336	0.6216	0.6197	0.603
1974	0.6272	0.6238	0.6142	0.6056	0.6012	0.5917
1975	0.6504	0.6461	0.6367	0.624	0.6165	0.6035
1976	0.6941	0.6902	0.6808	0.6691	0.6618	0.6342

1977	0.6738	0.6717	0.6652	0.6559	0.6515	0.636
1978	0.6504	0.6484	0.6437	0.6398	0.6367	0.6229
1979	0.7097	0.7047	0.6923	0.6759	0.67	0.6455
1980	0.686	0.6831	0.6763	0.6672	0.663	0.6435
1981	0.6775	0.6757	0.6622	0.6511	0.6484	0.6309
1982	0.6913	0.687	0.6762	0.6702	0.6658	0.6459
1983	0.7154	0.7112	0.6974	0.6871	0.6832	0.6655
1984	0.7505	0.7447	0.725	0.7147	0.7075	0.6874
1985	0.698	0.695	0.6866	0.6756	0.6748	0.6676
1986	0.7029	0.6999	0.689	0.6851	0.6834	0.6715
1987	0.7332	0.729	0.7184	0.7077	0.7008	0.6828
1988	0.6938	0.6902	0.684	0.678	0.677	0.6677
1989	0.8434	0.8326	0.8136	0.7838	0.7689	0.6834
1990	1.08	1.065	0.997	0.9211	0.88	0.7551

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	1.08	1.065	0.997	0.9211	0.88	0.7551	
0.0645161290322581		0.8434	0.8326	0.8136	0.7838	0.7689	0.6874
0.0967741935483871		0.7505	0.7447	0.725	0.7147	0.7075	0.6834
0.129032258064516	0.7332	0.729	0.7184	0.7077	0.7008	0.6828	
0.161290322580645	0.7154	0.7112	0.6974	0.6871	0.6834	0.6715	
0.193548387096774	0.7097	0.7047	0.6923	0.6851	0.6832	0.6677	
0.225806451612903	0.7029	0.6999	0.689	0.678	0.677	0.6676	
0.258064516129032	0.698	0.695	0.6866	0.6759	0.6748	0.6655	
0.290322580645161	0.6941	0.6902	0.684	0.6756	0.67	0.6459	
0.32258064516129	0.6938	0.6902	0.6808	0.6702	0.6658	0.6455	
0.354838709677419	0.6913	0.687	0.6763	0.6691	0.663	0.6435	
0.387096774193548	0.686	0.6831	0.6762	0.6672	0.6618	0.636	
0.419354838709677	0.6775	0.6757	0.6652	0.6559	0.6515	0.6342	
0.451612903225806	0.6738	0.6717	0.6622	0.6511	0.6484	0.6309	
0.483870967741936	0.6504	0.6484	0.6437	0.6398	0.6367	0.6229	
0.516129032258065	0.6504	0.6461	0.6367	0.624	0.6197	0.6035	
0.548387096774194	0.6468	0.6432	0.6356	0.6216	0.6165	0.603	
0.580645161290323	0.644	0.6399	0.6269	0.609	0.6021	0.592	
0.612903225806452	0.6334	0.6283	0.6228	0.6056	0.6012	0.5917	
0.645161290322581	0.6272	0.6238	0.6142	0.6035	0.5983	0.5673	
0.67741935483871	0.6111	0.6035	0.578	0.5566	0.5555	0.5409	
0.709677419354839	0.5844	0.5805	0.5676	0.5537	0.5324	0.4877	
0.741935483870968	0.4768	0.4734	0.4648	0.4509	0.4502	0.4382	
0.774193548387097	0.4741	0.4712	0.4634	0.446	0.4386	0.4352	
0.806451612903226	0.4297	0.4267	0.4209	0.4128	0.4074	0.3946	
0.838709677419355	0.4193	0.413	0.392	0.3674	0.3644	0.3536	
0.870967741935484	0.3856	0.3831	0.3748	0.3632	0.3635	0.2788	
0.903225806451613	0.2211	0.2177	0.2086	0.2028	0.1972	0.1588	
0.935483870967742	0.1307	0.1283	0.1204	0.1152	0.1112	0.08259	
0.967741935483871	0.04147	0.03959	0.03335	0.0282	0.02452	0.006141	
0.1	0.74877	0.74313	0.72434	0.714	0.70683	0.68334	
						Average of yearly averages:	0.5357977

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

Data used for this run:

Output File: GAONION9502

Metfile: w03822.dvf

PRZM scenario: GAOnionsC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB45950

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	421	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.1	mg/L	
Kd	Kd		mg/L	
Koc	Koc	2719	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual

Incorporation Depth: DEPI 0.635 cm  
 Application Rate: TAPP 0.0069 kg/ha  
 Application Efficiency: APPEFF 1.0 fraction  
 Spray Drift DRFT fraction of application rate applied to pond  
 Application Date Date 15-9 dd/mm or dd/mm or dd-mm or dd-mm  
 Record 17: FILTRA  
 IPSCND  
 UPTKF  
 Record 18: PLVKRT  
 PLDKRT  
 FEXTRC 0.5  
 Flag for Index Res. Run IR IR  
 Flag for runoff calc. RUNOFF total none, monthly or total(average of entire run)

## GA GARLIC SCENARIO

stored as GAGARLICFIP.out

Chemical: Fipronil

PRZM environment: GAOnionsC.txt modified Tuesday, 4 May 2004 at 13:18:36

EXAMS environment: ir298.exv modified Thursday, 29 August 2002 at 15:34:12

Metfile: w03822.dvf modified Wednesday, 3 July 2002 at 10:04:32

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	7.776	7.202	5.601	4.369	3.555	0.9067
1962	8.217	7.547	5.476	4.709	3.674	1.463
1963	15.71	14.43	12.09	8.544	6.558	1.943
1964	23.92	22.18	19.15	13.51	11.8	3.538
1965	7.876	7.262	5.431	4.308	3.793	1.709
1966	6.379	5.908	4.351	3.194	2.608	0.9961
1967	8.527	7.841	6.606	4.009	3.534	1.726
1968	8.631	7.977	6.426	4.754	4.132	1.304
1969	22.96	21.43	16.34	10.7	8.692	2.486
1970	12.54	11.44	8.343	5.586	4.506	1.964
1971	14.76	13.62	11.33	7.682	6.317	1.953
1972	7.509	7.051	6.004	4.203	3.876	1.35
1973	4.748	4.402	3.274	2.367	2.146	1.021
1974	7.824	7.217	5.406	4.778	3.85	1.281
1975	13.87	12.73	10.11	6.875	5.222	1.652
1976	12.11	11.22	8.349	6.762	5.325	1.581
1977	6.469	5.995	4.822	3.899	3.129	1.2
1978	5.783	5.408	4.618	3.932	3.393	1.336
1979	17.81	16.45	12.71	8.242	6.514	2.052
1980	8.138	7.54	5.942	4.339	3.515	1.197
1981	10.2	9.331	7.019	4.89	3.705	1.222
1982	4.064	3.725	2.762	2.03	1.632	0.9557
1983	8.785	8.134	6.019	4.176	3.582	1.592
1984	18.94	17.35	13.55	8.749	6.626	2.075
1985	8.656	7.89	5.668	3.672	3.456	1.219
1986	11.06	10.21	7.693	5.749	5.39	1.783
1987	6.589	6.084	4.728	3.364	2.754	1.164
1988	6.501	6.119	4.869	3.337	2.581	0.9813
1989	50.29	46.49	37.85	24.44	18.65	4.945
1990	88.44	83.81	61.8	36.75	27.5	7.358

### Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	88.44	83.81	61.8	36.75	27.5	7.358	
0.0645161290322581		50.29	46.49	37.85	24.44	18.65	4.945
0.0967741935483871		23.92	22.18	19.15	13.51	11.8	3.538
0.129032258064516	22.96	21.43	16.34	10.7	8.692	2.486	
0.161290322580645	18.94	17.35	13.55	8.749	6.626	2.075	
0.193548387096774	17.81	16.45	12.71	8.544	6.558	2.052	
0.225806451612903	15.71	14.43	12.09	8.242	6.514	1.964	
0.258064516129032	14.76	13.62	11.33	7.682	6.317	1.953	
0.290322580645161	13.87	12.73	10.11	6.875	5.39	1.943	
0.32258064516129	12.54	11.44	8.349	6.762	5.325	1.783	
0.354838709677419	12.11	11.22	8.343	5.749	5.222	1.726	
0.387096774193548	11.06	10.21	7.693	5.586	4.506	1.709	
0.419354838709677	10.2	9.331	7.019	4.89	4.132	1.652	

0.451612903225806	8.785	8.134	6.606	4.778	3.876	1.592
0.483870967741936	8.656	7.977	6.426	4.754	3.85	1.581
0.516129032258065	8.631	7.89	6.019	4.709	3.793	1.463
0.548387096774194	8.527	7.841	6.004	4.369	3.705	1.35
0.580645161290323	8.217	7.547	5.942	4.339	3.674	1.336
0.612903225806452	8.138	7.54	5.668	4.308	3.582	1.304
0.645161290322581	7.876	7.262	5.601	4.203	3.555	1.281
0.67741935483871	7.824	7.217	5.476	4.176	3.534	1.222
0.709677419354839	7.776	7.202	5.431	4.009	3.515	1.219
0.741935483870968	7.509	7.051	5.406	3.932	3.456	1.2
0.774193548387097	6.589	6.119	4.869	3.899	3.393	1.197
0.806451612903226	6.501	6.084	4.822	3.672	3.129	1.164
0.838709677419355	6.469	5.995	4.728	3.364	2.754	1.021
0.870967741935484	6.379	5.908	4.618	3.337	2.608	0.9961
0.903225806451613	5.783	5.408	4.351	3.194	2.581	0.9813
0.935483870967742	4.748	4.402	3.274	2.367	2.146	0.9557
0.967741935483871	4.064	3.725	2.762	2.03	1.632	0.9067

0.1                    23.824    22.105    18.869    13.229    11.4892    3.4328  
Average of yearly averages:                    1.86512666666667

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

Data used for this run:

Output File: GAGARLICFIP

Metfile: w03822.dvf

PRZM scenario: GAOnionsC.txt

EXAMS environment file: ir298.exv

Chemical Name: Fipronil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	437	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	2.4	mg/L	
Kd	Kd		mg/L	
Koc	Koc	727	mg/L	
Photolysis half-life	kdp	0.16	days	Half-life
Aerobic Aquatic Metabolism	kbacw	33.7	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	33.7	days	Halfife
Aerobic Soil Metabolism	asm	128	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	7.62	cm	
Application Rate:	TAPP	28	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-9	dd/mm or dd/mmm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

stored as GAGAR136.out

Chemical: MB46136

PRZM environment: GAOnionsC.txt                    modified Tuesday, 4 May 2004 at 13:18:36

EXAMS environment: ir298.exv                    modified Thuday, 29 August 2002 at 15:34:12

Metfile: w03822.dvf                    modified Wedday, 3 July 2002 at 10:04:32

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.6629	0.617	0.4772	0.3777	0.3372	0.0847
1962	1.91	1.854	1.682	1.602	1.529	1.162
1963	3.585	3.469	3.107	2.845	2.737	2.248
1964	6.328	6.163	5.66	5.157	5.191	3.99
1965	5.482	5.417	5.228	5.076	5.038	4.918

1966	6.188	6.1	5.955	5.762	5.66	5.437
1967	6.876	6.793	6.58	6.144	6.005	5.914
1968	6.69	6.604	6.343	6.075	6.013	5.841
1969	8.856	8.643	7.993	7.449	7.135	6.509
1970	7.921	7.83	7.552	7.46	7.409	7.164
1971	8.688	8.558	8.375	8.061	7.948	7.47
1972	8.705	8.598	8.329	7.891	7.813	7.745
1973	8.713	8.62	8.379	8.134	8.1	7.813
1974	8.341	8.249	8.003	7.821	7.743	7.569
1975	8.567	8.464	8.23	7.977	7.924	7.68
1976	9.283	9.147	8.8	8.63	8.5	8.106
1977	8.677	8.628	8.488	8.313	8.242	8.03
1978	8.293	8.242	8.123	8.045	7.983	7.771
1979	9.362	9.207	8.872	8.596	8.455	8.094
1980	8.871	8.789	8.6	8.382	8.304	7.987
1981	8.89	8.822	8.459	8.163	8.095	7.756
1982	8.922	8.808	8.56	8.421	8.34	7.973
1983	9.257	9.144	8.801	8.597	8.519	8.25
1984	10	9.832	9.319	9.039	8.881	8.533
1985	8.823	8.743	8.536	8.311	8.283	8.167
1986	8.934	8.848	8.587	8.456	8.405	8.22
1987	9.392	9.279	9.002	8.761	8.63	8.385
1988	8.788	8.696	8.513	8.368	8.291	8.143
1989	11.28	11	10.54	9.811	9.532	8.333
1990	15.46	15.08	13.38	11.69	11.01	9.238

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	15.46	15.08	13.38	11.69	11.01	9.238	
0.0645161290322581		11.28	11	10.54	9.811	9.532	8.533
0.0967741935483871		10	9.832	9.319	9.039	8.881	8.385
0.129032258064516	9.392	9.279	9.002	8.761	8.63	8.333	
0.161290322580645	9.362	9.207	8.872	8.63	8.519	8.25	
0.193548387096774	9.283	9.147	8.801	8.597	8.5	8.22	
0.225806451612903	9.257	9.144	8.8	8.596	8.455	8.167	
0.258064516129032	8.934	8.848	8.6	8.456	8.405	8.143	
0.290322580645161	8.922	8.822	8.587	8.421	8.34	8.106	
0.32258064516129	8.89	8.808	8.56	8.382	8.304	8.094	
0.354838709677419	8.871	8.789	8.536	8.368	8.291	8.03	
0.387096774193548	8.856	8.743	8.513	8.313	8.283	7.987	
0.419354838709677	8.823	8.696	8.488	8.311	8.242	7.973	
0.451612903225806	8.788	8.643	8.459	8.163	8.1	7.813	
0.483870967741936	8.713	8.628	8.379	8.134	8.095	7.771	
0.516129032258065	8.705	8.62	8.375	8.061	7.983	7.756	
0.548387096774194	8.688	8.598	8.329	8.045	7.948	7.745	
0.580645161290323	8.677	8.558	8.23	7.977	7.924	7.68	
0.612903225806452	8.567	8.464	8.123	7.891	7.813	7.569	
0.645161290322581	8.341	8.249	8.003	7.821	7.743	7.47	
0.67741935483871	8.293	8.242	7.993	7.46	7.409	7.164	
0.709677419354839	7.921	7.83	7.552	7.449	7.135	6.509	
0.741935483870968	8.676	8.793	6.58	6.144	6.013	5.914	
0.774193548387097	6.69	6.604	6.343	6.075	6.005	5.841	
0.806451612903226	6.328	6.163	5.955	5.762	5.66	5.437	
0.838709677419355	6.188	6.1	5.66	5.157	5.191	4.918	
0.870967741935484	5.482	5.417	5.228	5.076	5.038	3.99	
0.903225806451613	3.585	3.469	3.107	2.845	2.737	2.248	
0.935483870967742	1.91	1.854	1.682	1.602	1.529	1.162	
0.967741935483871	0.6629	0.617	0.4772	0.3777	0.3372	0.0847	
0.1	9.9392	9.7767	9.2873	9.0112	8.8559	8.3798	
						Average of yearly averages:	6.81769

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

Data used for this run:

Output File: GAGAR136

Metfile: w03822.dvf

PRZM scenario: GAOnionsC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46136

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	453	g/mol	

Henry's Law Const.	henry		atm-m <sup>3</sup> /mol		
Vapor Pressure	vapr		torr		
Solubility	sol	0.16	mg/L		
Kd	Kd		mg/L		
Koc	Koc	4208	mg/L		
Photolysis half-life	kdp	7	days	Half-life	
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife	
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife	
Aerobic Soil Metabolism	asm	700	days	Halfife	
Hydrolysis:	pH 7		days	Half-life	
Method:	CAM	5	integer	See PRZM manual	
Incorporation Depth:	DEPI	7.62	cm		
Application Rate:	TAPP	6.692	kg/ha		
Application Efficiency:	APPEFF	1.0	fraction		
Spray Drift	DRFT		fraction of application rate applied to pond		
Application Date	Date	15-9	dd/mm or dd/mm/yy or dd-mmm or dd-mmm/yy		
Record 17:	FILTRA				
	IPSCND				
	UPTKF				
Record 18:	PLVKRT				
	PLDKRT				
	FEXTRC	0.5			
Flag for Index Res. Run	IR		IR		
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)		

stored as GAGAR513.out

Chemical: MB46513

PRZM environment: GAOnionsC.txt modified Tuesday, 4 May 2004 at 13:18:36

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

Metfile: w03822.dvf modified Wedday, 3 July 2002 at 10:04:32

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.08513	0.0832	0.0762	0.06993	0.05937	0.01485
1962	0.1806	0.1786	0.1713	0.1625	0.1577	0.1198
1963	0.2909	0.2877	0.2795	0.2711	0.2649	0.1948
1964	0.5501	0.545	0.526	0.4848	0.4751	0.3352
1965	0.5028	0.5006	0.4927	0.4837	0.4766	0.4555
1966	0.5132	0.5118	0.5066	0.502	0.5013	0.4838
1967	0.5954	0.5922	0.5886	0.5727	0.5639	0.5402
1968	0.5803	0.5786	0.5722	0.5658	0.5623	0.5357
1969	0.7566	0.7505	0.7282	0.7061	0.6604	0.5788
1970	0.7016	0.6985	0.6878	0.6751	0.6742	0.6596
1971	0.7612	0.7575	0.7494	0.7404	0.7278	0.6751
1972	0.7657	0.7625	0.7509	0.7198	0.7169	0.6931
1973	0.7382	0.7366	0.7307	0.7257	0.7247	0.695
1974	0.7138	0.7119	0.7052	0.7008	0.6921	0.6788
1975	0.7482	0.7451	0.7353	0.7237	0.7159	0.6885
1976	0.7854	0.7823	0.7739	0.7541	0.7363	0.6985
1977	0.7632	0.7614	0.7552	0.7448	0.7386	0.7057
1978	0.7347	0.7327	0.7282	0.7226	0.7194	0.6959
1979	0.7864	0.7827	0.7694	0.7581	0.7542	0.7101
1980	0.754	0.7525	0.7484	0.7414	0.7359	0.7143
1981	0.734	0.7313	0.7233	0.7133	0.7118	0.6964
1982	0.7397	0.738	0.7316	0.7276	0.7239	0.6997
1983	0.7615	0.7595	0.7524	0.7458	0.7445	0.7163
1984	0.8263	0.8223	0.8085	0.7979	0.7885	0.7462
1985	0.7759	0.7746	0.7695	0.7631	0.7601	0.7372
1986	0.7905	0.7884	0.783	0.7718	0.7674	0.7424
1987	0.8236	0.8209	0.8134	0.8032	0.7955	0.7501
1988	0.7608	0.7593	0.7554	0.7492	0.7467	0.7233
1989	1.023	1.014	0.9886	0.9655	0.9497	0.7621
1990	1.477	1.46	1.4	1.321	1.253	0.9478

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	1.477	1.46	1.4	1.321	1.253	0.9478
0.0645161290322581		1.023	1.014	0.9886	0.9655	0.7621
0.0967741935483871		0.8263	0.8223	0.8134	0.8032	0.7955
0.129032258064516	0.8236	0.8209	0.8085	0.7979	0.7885	0.7462

0.161290322580645	0.7905	0.7884	0.783	0.7718	0.7674	0.7424
0.193548387096774	0.7864	0.7827	0.7739	0.7631	0.7601	0.7372
0.225806451612903	0.7854	0.7823	0.7695	0.7581	0.7542	0.7233
0.258064516129032	0.7759	0.7746	0.7694	0.7541	0.7467	0.7163
0.290322580645161	0.7657	0.7625	0.7554	0.7492	0.7445	0.7143
0.32258064516129	0.7632	0.7614	0.7552	0.7458	0.7386	0.7101
0.354838709677419	0.7615	0.7595	0.7524	0.7448	0.7363	0.7057
0.387096774193548	0.7612	0.7593	0.7509	0.7414	0.7359	0.6997
0.419354838709677	0.7608	0.7575	0.7494	0.7404	0.7278	0.6985
0.451612903225806	0.7566	0.7525	0.7484	0.7276	0.7247	0.6964
0.483870967741936	0.754	0.7505	0.7353	0.7257	0.7239	0.6959
0.516129032258065	0.7482	0.7451	0.7316	0.7237	0.7194	0.695
0.548387096774194	0.7397	0.738	0.7307	0.7226	0.7169	0.6931
0.580645161290323	0.7382	0.7366	0.7282	0.7198	0.7159	0.6885
0.612903225806452	0.7347	0.7327	0.7282	0.7133	0.7118	0.6788
0.645161290322581	0.734	0.7313	0.7233	0.7061	0.6921	0.6751
0.67741935483871	0.7138	0.7119	0.7052	0.7008	0.6742	0.6596
0.709677419354839	0.7016	0.6985	0.6878	0.6751	0.6604	0.5788
0.741935483870968	0.5954	0.5922	0.5886	0.5727	0.5639	0.5402
0.774193548387097	0.5803	0.5786	0.5722	0.5658	0.5623	0.5357
0.806451612903226	0.5501	0.545	0.526	0.502	0.5013	0.4838
0.838709677419355	0.5132	0.5118	0.5066	0.4848	0.4766	0.4555
0.870967741935484	0.5028	0.5006	0.4927	0.4837	0.4751	0.3352
0.903225806451613	0.2909	0.2877	0.2795	0.2711	0.2649	0.1948
0.935483870967742	0.1806	0.1786	0.1713	0.1625	0.1577	0.1198
0.967741935483871	0.08513	0.0832	0.0762	0.06993	0.05937	0.01485

0.1                    0.82603   0.82216   0.81291   0.80267   0.7948   0.74971  
Average of yearly averages:                    0.613158333333333

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

Data used for this run:

Output File: GAGAR513

Metfile: w03822.dvf

PRZM scenario: GAOOnionsC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46513

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	389	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.95	mg/L	
Kd	Kd		mg/L	
Koc	Koc	1290	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1320	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1320	days	Halfife
Aerobic Soil Metabolism	asm	660	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	7.62	cm	
Application Rate:	TAPP	0.2688	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-9	dd/mm or dd/mmmm or dd-mm or dd-mmmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total	none, monthly or total(average of entire run)	

stored as GAGARLIC950.out

Chemical: MB45950

PRZM environment: GAOOnionsC.txt                    modified Tuesday, 4 May 2004 at 13:18:36

EXAMS environment: ir298.exv                    modified Thuday, 29 August 2002 at 15:34:12

Metfile: w03822.dvf                    modified Wedday, 3 July 2002 at 10:04:32

Water segment concentrations (ppb)



Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.219	0.209	0.1756	0.1479	0.1286	0.03221
1962	0.5851	0.5738	0.5361	0.5084	0.4909	0.3757
1963	0.9651	0.9488	0.9046	0.876	0.8489	0.6792
1964	1.844	1.813	1.709	1.563	1.559	1.178
1965	1.661	1.649	1.608	1.572	1.555	1.502
1966	1.787	1.774	1.744	1.713	1.697	1.667
1967	2.06	2.045	2.013	1.92	1.884	1.849
1968	2.003	1.99	1.95	1.923	1.918	1.856
1969	2.666	2.628	2.501	2.38	2.27	2.057
1970	2.472	2.455	2.397	2.341	2.325	2.288
1971	2.683	2.661	2.636	2.573	2.538	2.382
1972	2.73	2.71	2.647	2.53	2.5	2.472
1973	2.662	2.649	2.614	2.586	2.579	2.512
1974	2.634	2.619	2.577	2.537	2.516	2.472
1975	2.729	2.71	2.67	2.617	2.581	2.524
1976	2.915	2.897	2.851	2.787	2.748	2.631
1977	2.815	2.805	2.774	2.731	2.71	2.636
1978	2.719	2.71	2.688	2.66	2.653	2.592
1979	2.939	2.917	2.866	2.798	2.775	2.673
1980	2.863	2.849	2.818	2.775	2.755	2.666
1981	2.771	2.755	2.708	2.669	2.667	2.615
1982	2.849	2.833	2.792	2.759	2.744	2.675
1983	2.995	2.976	2.915	2.869	2.848	2.763
1984	3.169	3.142	3.051	3	2.967	2.869
1985	2.899	2.887	2.854	2.825	2.821	2.787
1986	2.969	2.955	2.904	2.885	2.875	2.809
1987	3.11	3.09	3.04	2.988	2.955	2.839
1988	2.896	2.885	2.856	2.822	2.822	2.765
1989	3.624	3.571	3.477	3.335	3.264	2.845
1990	4.847	4.769	4.429	4.05	3.845	3.205

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	4.847	4.769	4.429	4.05	3.845	3.205
0.0645161290322581		3.624	3.571	3.477	3.335	3.264
0.0967741935483871		3.169	3.142	3.051	3	2.967
0.129032258064516	3.11	3.09	3.04	2.988	2.955	2.839
0.161290322580645	2.995	2.976	2.915	2.885	2.875	2.809
0.193548387096774	2.969	2.955	2.904	2.869	2.848	2.787
0.225806451612903	2.939	2.917	2.866	2.825	2.822	2.765
0.258064516129032	2.915	2.897	2.856	2.822	2.821	2.763
0.290322580645161	2.899	2.887	2.854	2.798	2.775	2.675
0.32258064516129	2.896	2.885	2.851	2.787	2.755	2.673
0.354838709677419	2.863	2.849	2.818	2.775	2.748	2.666
0.387096774193548	2.849	2.833	2.792	2.759	2.744	2.636
0.419354838709677	2.815	2.805	2.774	2.731	2.71	2.631
0.451612903225806	2.771	2.755	2.708	2.669	2.667	2.615
0.483870967741936	2.73	2.71	2.688	2.66	2.653	2.592
0.516129032258065	2.729	2.71	2.67	2.617	2.581	2.524
0.548387096774194	2.719	2.71	2.647	2.586	2.579	2.512
0.580645161290323	2.683	2.661	2.636	2.573	2.538	2.472
0.612903225806452	2.666	2.649	2.614	2.537	2.516	2.472
0.645161290322581	2.662	2.628	2.577	2.53	2.5	2.382
0.67741935483871	2.634	2.619	2.501	2.38	2.325	2.288
0.709677419354839	2.472	2.455	2.397	2.341	2.27	2.057
0.741935483870968	2.06	2.045	2.013	1.923	1.918	1.856
0.774193548387097	2.003	1.99	1.95	1.92	1.884	1.849
0.806451612903226	1.844	1.813	1.744	1.713	1.697	1.667
0.838709677419355	1.787	1.774	1.709	1.572	1.559	1.502
0.870967741935484	1.661	1.649	1.608	1.563	1.555	1.178
0.903225806451613	0.9651	0.9488	0.9046	0.876	0.8489	0.6792
0.935483870967742	0.5851	0.5738	0.5361	0.5084	0.4909	0.3757
0.967741935483871	0.219	0.209	0.1756	0.1479	0.1286	0.03221
0.1	3.1631	3.1368	3.0499	2.9988	2.9658	2.8444

Average of yearly averages: 2.240537

Inputs generated by po4.pl - 8-August-2003

Data used for this run:  
Output File: GAGARLIC950

Metfile: w03822.dvf  
 PRZM scenario: GAOnionsC.txt  
 EXAMS environment file: ir298.exv  
 Chemical Name: MB45950

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	421	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.1	mg/L	
Kd	Kd		mg/L	
Koc	Koc	2719	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
Aerobic Soil Metabolism	asm	700	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	5	integer	See PRZM manual
Incorporation Depth:	DEPI	7.62	cm	
Application Rate:	TAPP	1.372	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	15-9	dd/mm or dd/mmm or dd-mm or dd-mmm	
Record 17:	FILTRA			
	IPSCND			
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR		IR	
Flag for runoff calc.	RUNOFF	total		none, monthly or total(average of entire run)

## TX LEAF-CUTTER ANT SCENARIO

stored as TXALFFIP2.out

Chemical: Fipronil

PRZM environment: TXalfalfaC.txt modified Satday, 12 October 2002 at 17:27:40

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.2928	0.2671	0.1952	0.134	0.09838	0.0265
1962	0.1566	0.1428	0.12	0.07555	0.06494	0.02136
1963	0.01545	0.01399	0.01087	0.006501	0.005125	0.00229
1964	0.2998	0.2715	0.1856	0.09464	0.06727	0.02346
1965	0.3405	0.3151	0.2525	0.1506	0.1102	0.03285
1966	0.1749	0.1618	0.1352	0.08005	0.05844	0.01963
1967	0.1134	0.1043	0.08708	0.07094	0.05434	0.01734
1968	0.2068	0.1901	0.1615	0.101	0.07861	0.02235
1969	0.2553	0.2356	0.1802	0.1251	0.09406	0.0277
1970	0.3036	0.2797	0.2333	0.1346	0.09497	0.02627
1971	0.07955	0.07464	0.05361	0.02983	0.02552	0.01043
1972	0.2881	0.2636	0.2239	0.1308	0.09528	0.02564
1973	0.09907	0.09214	0.06902	0.04243	0.04345	0.01938
1974	0.2312	0.2109	0.1482	0.08107	0.05949	0.02179
1975	0.2871	0.2718	0.202	0.1604	0.1279	0.03454
1976	0.4003	0.3807	0.301	0.2013	0.152	0.04091
1977	0.274	0.2585	0.2127	0.1233	0.08823	0.02405
1978	0.1435	0.1312	0.1103	0.09264	0.06832	0.02038
1979	0.3031	0.2794	0.2006	0.1167	0.09941	0.0319
1980	0.1445	0.1331	0.1054	0.06974	0.04976	0.01469
1981	0.3579	0.3344	0.2556	0.1909	0.1413	0.03764
1982	0.2777	0.2549	0.1876	0.1474	0.1101	0.02873
1983	0.1537	0.145	0.1143	0.08164	0.06201	0.01731
1984	0.0497	0.04623	0.03998	0.02682	0.02071	0.006785
1985	0.08869	0.08045	0.05707	0.04017	0.02953	0.01203
1986	0.2592	0.24	0.2081	0.1352	0.09657	0.02791
1987	0.2661	0.242	0.2161	0.1312	0.09427	0.02527
1988	0.08834	0.08082	0.06487	0.04298	0.03415	0.009713
1989	0.1943	0.1774	0.1379	0.09445	0.07463	0.02069

1990 0.2595 0.2374 0.1774 0.1136 0.08375 0.02426

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.4003	0.3807	0.301	0.2013	0.152	0.04091
0.0645161290322581		0.3579	0.3344	0.2556	0.1909	0.1413 0.03764
0.0967741935483871		0.3405	0.3151	0.2525	0.1604	0.1279 0.03454
0.129032258064516	0.3036	0.2797	0.2333	0.1506	0.1102	0.03285
0.161290322580645	0.3031	0.2794	0.2239	0.1474	0.1101	0.0319
0.193548387096774	0.2998	0.2718	0.2161	0.1352	0.09941	0.02873
0.225806451612903	0.2928	0.2715	0.2127	0.1346	0.09838	0.02791
0.258064516129032	0.2881	0.2671	0.2081	0.134	0.09657	0.0277
0.290322580645161	0.2871	0.2636	0.202	0.1312	0.09528	0.0265
0.32258064516129	0.2777	0.2585	0.2006	0.1308	0.09497	0.02627
0.354838709677419	0.274	0.2549	0.1952	0.1251	0.09427	0.02564
0.387096774193548	0.2661	0.242	0.1876	0.1233	0.09406	0.02527
0.419354838709677	0.2595	0.24	0.1856	0.1167	0.08823	0.02426
0.451612903225806	0.2592	0.2374	0.1802	0.1136	0.08375	0.02405
0.483870967741936	0.2553	0.2356	0.1774	0.101	0.07861	0.02346
0.516129032258065	0.2312	0.2109	0.1615	0.09464	0.07463	0.02235
0.548387096774194	0.2068	0.1901	0.1482	0.09445	0.06832	0.02179
0.580645161290323	0.1943	0.1774	0.1379	0.09264	0.06727	0.02136
0.612903225806452	0.1749	0.1618	0.1352	0.08164	0.06494	0.02069
0.645161290322581	0.1566	0.145	0.12	0.08107	0.06201	0.02038
0.67741935483871	0.1537	0.1428	0.1143	0.08005	0.05949	0.01963
0.709677419354839	0.1445	0.1331	0.1103	0.07555	0.05844	0.01938
0.741935483870968	0.1435	0.1312	0.1054	0.07094	0.05434	0.01734
0.774193548387097	0.1134	0.1043	0.08708	0.06974	0.04976	0.01731
0.806451612903226	0.09907	0.09214	0.06902	0.04298	0.04345	0.01469
0.838709677419355	0.08869	0.08082	0.06487	0.04243	0.03415	0.01203
0.870967741935484	0.08834	0.08045	0.05707	0.04017	0.02953	0.01043
0.903225806451613	0.07955	0.07464	0.05361	0.02983	0.02552	0.009713
0.935483870967742	0.0497	0.04623	0.03998	0.02682	0.02071	0.006785
0.967741935483871	0.01545	0.01399	0.01087	0.006501	0.005125	0.00229

0.1 0.33681 0.31156 0.25058 0.15942 0.12613 0.034371  
 Average of yearly averages: 0.0224599333333333

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

Data used for this run:

Output File: TXALFFIP2  
 Metfile: w13958.dvf  
 PRZM scenario: TXalfalfaC.txt  
 EXAMS environment file: ir298.exv

Chemical Name:	Fipronil	
Description	Variable Name	Value Units Comments
Molecular weight	mw	437 g/mol
Henry's Law Const.	henry	atm-m <sup>3</sup> /mol
Vapor Pressure	vapr	torr
Solubility	sol	2.4 mg/L
Kd	Kd	mg/L
Koc	Koc	727 mg/L
Photolysis half-life	kdp	0.16 days Half-life
Aerobic Aquatic Metabolism	kbacw	33.7 days Halfife
Anaerobic Aquatic Metabolism	kbacs	33.7 days Halfife
Aerobic Soil Metabolism	asm	128 days Halfife
Hydrolysis:	pH 7	days Half-life
Method:	CAM	8 integer See PRZM manual
Incorporation Depth:	DEPI	0.1 cm
Application Rate:	TAPP	0.0032 kg/ha
Application Efficiency:	APPEFF	1.0 fraction
Spray Drift	DRFT	fraction of application rate applied to pond
Application Date	Date	11-4 dd/mm or dd/mmm or dd-mm or dd-mmm
Record 17:	FILTRA	
	IPSCND	
	UPTKF	
Record 18:	PLVKRT	
	PLDKRT	
	FEXTRC	0.5
Flag for Index Res. Run	IR	IR
Flag for runoff calc.	RUNOFF	total none, monthly or total(average of entire run)

stored as TXALF1362.out

Chemical: MB46136

PRZM environment: TXalfalfaC.txt modified Satday, 12 October 2002 at 17:27:40

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.04353	0.04023	0.03351	0.02919	0.02529	0.01145
1962	0.04535	0.04343	0.03882	0.03511	0.03323	0.02461
1963	0.03579	0.03519	0.03331	0.0313	0.03113	0.02898
1964	0.09002	0.0851	0.07008	0.05451	0.05187	0.0404
1965	0.09728	0.09357	0.08554	0.07338	0.06893	0.06138
1966	0.08356	0.08243	0.07699	0.07257	0.07038	0.06617
1967	0.08208	0.081	0.0769	0.07404	0.07297	0.06733
1968	0.09756	0.09537	0.09131	0.08513	0.08416	0.07659
1969	0.0957	0.09386	0.08912	0.08636	0.0845	0.07954
1970	0.112	0.1091	0.1053	0.09591	0.09162	0.08312
1971	0.09488	0.09387	0.08852	0.08229	0.08017	0.07802
1972	0.1056	0.1036	0.1012	0.09282	0.08949	0.08014
1973	0.1221	0.12	0.1118	0.1027	0.09777	0.08314
1974	0.1136	0.1111	0.1033	0.09534	0.09298	0.09014
1975	0.1324	0.1299	0.1209	0.1152	0.1111	0.09929
1976	0.1299	0.1279	0.1208	0.1159	0.1141	0.104
1977	0.1222	0.1208	0.1168	0.1095	0.1065	0.09951
1978	0.1121	0.1103	0.1064	0.1022	0.09982	0.09471
1979	0.143	0.1395	0.1309	0.1194	0.1176	0.104
1980	0.1181	0.1166	0.1127	0.1082	0.1065	0.1009
1981	0.1913	0.1868	0.1693	0.1463	0.1382	0.1131
1982	0.1441	0.1413	0.1335	0.1262	0.1232	0.1123
1983	0.1192	0.1182	0.1155	0.1123	0.1109	0.1057
1984	0.1106	0.1088	0.1048	0.09961	0.09891	0.09542
1985	0.1073	0.1057	0.1013	0.09695	0.0949	0.09274
1986	0.1174	0.1158	0.1117	0.1039	0.1001	0.09434
1987	0.1382	0.1346	0.1285	0.1196	0.1143	0.1008
1988	0.1047	0.1038	0.1009	0.09851	0.09746	0.09362
1989	0.1161	0.1136	0.1069	0.1011	0.09799	0.08984
1990	0.1099	0.1077	0.101	0.09646	0.09412	0.08804

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	0.1913	0.1868	0.1693	0.1463	0.1382	0.1131	
0.0645161290322581		0.1441	0.1413	0.1335	0.1262	0.1232	0.1123
0.0967741935483871		0.143	0.1395	0.1309	0.1196	0.1176	0.1057
0.129032258064516	0.1382	0.1346	0.1285	0.1194	0.1143	0.104	
0.161290322580645	0.1324	0.1299	0.1209	0.1159	0.1141	0.104	
0.193548387096774	0.1299	0.1279	0.1208	0.1152	0.1111	0.1009	
0.225806451612903	0.1222	0.1208	0.1168	0.1123	0.1109	0.1008	
0.258064516129032	0.1221	0.12	0.1155	0.1095	0.1065	0.09951	
0.290322580645161	0.1192	0.1182	0.1127	0.1082	0.1065	0.09929	
0.32258064516129	0.1181	0.1166	0.1118	0.1039	0.1001	0.09542	
0.354838709677419	0.1174	0.1158	0.1117	0.1027	0.09982	0.09471	
0.387096774193548	0.1161	0.1136	0.1069	0.1022	0.09891	0.09434	
0.419354838709677	0.1136	0.1111	0.1064	0.1011	0.09799	0.09362	
0.451612903225806	0.1121	0.1103	0.1053	0.09961	0.09777	0.09274	
0.483870967741936	0.112	0.1091	0.1048	0.09851	0.09746	0.09014	
0.516129032258065	0.1106	0.1088	0.1033	0.09695	0.0949	0.08984	
0.548387096774194	0.1099	0.1077	0.1013	0.09646	0.09412	0.08804	
0.580645161290323	0.1073	0.1057	0.1012	0.09591	0.09298	0.08314	
0.612903225806452	0.1056	0.1038	0.101	0.09534	0.09162	0.08312	
0.645161290322581	0.1047	0.1036	0.1009	0.09282	0.08949	0.08014	
0.67741935483871	0.09756	0.09537	0.09131	0.08636	0.0845	0.07954	
0.709677419354839	0.09728	0.09387	0.08912	0.08513	0.08416	0.07802	
0.741935483870968	0.0957	0.09386	0.08852	0.08229	0.08017	0.07659	
0.774193548387097	0.09488	0.09357	0.08554	0.07404	0.07297	0.06733	
0.806451612903226	0.09002	0.0851	0.07699	0.07338	0.07038	0.06617	
0.838709677419355	0.08356	0.08243	0.0769	0.07257	0.06893	0.06138	
0.870967741935484	0.08208	0.081	0.07008	0.05451	0.05187	0.0404	
0.903225806451613	0.04535	0.04343	0.03882	0.03511	0.03323	0.02898	

0.935483870967742 0.04353 0.04023 0.03351 0.0313 0.03113 0.02461  
 0.967741935483871 0.03579 0.03519 0.03331 0.02919 0.02529 0.01145  
 0.1 0.14252 0.13901 0.13066 0.11958 0.11727 0.10553  
 Average of yearly averages: 0.0819773333333333

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

Data used for this run:

Output File: TXALF1362

Metfile: w13958.dvf  
 PRZM scenario: TXalfalfaC.txt  
 EXAMS environment file: ir298.exv

Chemical Name: MB46136  
 Description Variable Name Value Units Comments  
 Molecular weight mwt 453 g/mol  
 Henry's Law Const. henry atm-m<sup>3</sup>/mol  
 Vapor Pressure vapr torr  
 Solubility sol 0.16 mg/L  
 Kd Kd mg/L  
 Koc Koc 4208 mg/L  
 Photolysis half-life kdp 7 days Half-life  
 Aerobic Aquatic Metabolism kbacw 1400 days Halfife  
 Anaerobic Aquatic Metabolism kbacs 1400 days Halfife  
 Aerobic Soil Metabolism asm 700 days Halfife  
 Hydrolysis: pH 7 days Half-life  
 Method: CAM 8 integer See PRZM manual  
 Incorporation Depth: DEPI 0.1 cm  
 Application Rate: TAPP 0.0008 kg/ha  
 Application Efficiency: APPEFF 1.0 fraction  
 Spray Drift DRFT fraction of application rate applied to pond  
 Application Date Date 11-4 dd/mm or dd/mmm or dd-mm or dd-mmm  
 Record 17: FILTRA  
 IPSCND  
 UPTKF  
 Record 18: PLVKRT  
 PLDKRT  
 FEXTRC 0.5  
 Flag for Index Res. Run IR IR  
 Flag for runoff calc. RUNOFF total none, monthly or total(average of entire run)

stored as TXALF5132.out

Chemical: MB46513

PRZM environment: TXalfalfaC.txt modified Satday, 12 October 2002 at 17:27:40

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.003869	0.003804	0.003661	0.00329	0.003112	0.001516
1962	0.004424	0.004382	0.004284	0.004181	0.004096	0.003272
1963	0.003821	0.003816	0.003793	0.003772	0.003766	0.003637
1964	0.007292	0.007187	0.006802	0.006189	0.005901	0.004819
1965	0.008886	0.008797	0.008601	0.008137	0.007851	0.006901
1966	0.00835	0.008322	0.008244	0.008026	0.0079	0.00758
1967	0.008357	0.008324	0.008255	0.008123	0.008038	0.007768
1968	0.009674	0.009615	0.009524	0.009272	0.009196	0.008425
1969	0.009972	0.009924	0.009813	0.009701	0.009603	0.008985
1970	0.01149	0.01141	0.01117	0.01083	0.01055	0.009546
1971	0.01008	0.01005	0.009899	0.009615	0.009472	0.009232
1972	0.01138	0.01131	0.01115	0.01085	0.01065	0.009652
1973	0.01125	0.0112	0.01106	0.01075	0.0106	0.0098
1974	0.01171	0.01165	0.01141	0.01101	0.01079	0.01045
1975	0.01333	0.01325	0.01302	0.01284	0.01262	0.01142
1976	0.01376	0.01368	0.01358	0.01345	0.01334	0.01223
1977	0.0137	0.01364	0.01347	0.01311	0.01287	0.01203
1978	0.0131	0.01304	0.01282	0.01251	0.01236	0.01172
1979	0.01453	0.01445	0.01414	0.01374	0.01356	0.0125
1980	0.01355	0.01351	0.01333	0.01303	0.01286	0.01228
1981	0.01704	0.01689	0.01647	0.01568	0.01519	0.0132

1982	0.01553	0.01545	0.0152	0.01478	0.01456	0.01346
1983	0.01386	0.01383	0.01373	0.01355	0.01344	0.01285
1984	0.01231	0.01231	0.0123	0.01225	0.01221	0.01176
1985	0.01215	0.0121	0.01197	0.01172	0.01156	0.01134
1986	0.01322	0.01315	0.01294	0.01256	0.0123	0.01149
1987	0.0142	0.01411	0.01386	0.01349	0.01323	0.01199
1988	0.01225	0.01222	0.01208	0.01191	0.0118	0.0114
1989	0.01273	0.01266	0.01241	0.01217	0.01195	0.0111
1990	0.0125	0.01244	0.0122	0.01195	0.0118	0.01105

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.01704	0.01689	0.01647	0.01568	0.01519	0.01346
0.0645161290322581		0.01553	0.01545	0.0152	0.01478	0.01456 0.0132
0.0967741935483871		0.01453	0.01445	0.01414	0.01374	0.01356 0.01285
0.129032258064516	0.0142	0.01411	0.01386	0.01355	0.01344	0.0125
0.161290322580645	0.01386	0.01383	0.01373	0.01349	0.01334	0.01228
0.193548387096774	0.01376	0.01368	0.01358	0.01345	0.01323	0.01223
0.225806451612903	0.0137	0.01364	0.01347	0.01311	0.01287	0.01203
0.258064516129032	0.01355	0.01351	0.01333	0.01303	0.01286	0.01199
0.290322580645161	0.01333	0.01325	0.01302	0.01284	0.01262	0.01176
0.32258064516129	0.01322	0.01315	0.01294	0.01256	0.01236	0.01172
0.354838709677419	0.0131	0.01304	0.01282	0.01251	0.0123	0.01149
0.387096774193548	0.01273	0.01266	0.01241	0.01225	0.01221	0.01142
0.419354838709677	0.0125	0.01244	0.0123	0.01217	0.01195	0.0114
0.451612903225806	0.01231	0.01231	0.0122	0.01195	0.0118	0.01134
0.483870967741936	0.01225	0.01222	0.01208	0.01191	0.0118	0.0111
0.516129032258065	0.01215	0.0121	0.01197	0.01172	0.01156	0.01105
0.548387096774194	0.01171	0.01165	0.01141	0.01101	0.01079	0.01045
0.580645161290323	0.01149	0.01141	0.01117	0.01085	0.01065	0.0098
0.612903225806452	0.01138	0.01131	0.01115	0.01083	0.0106	0.009652
0.645161290322581	0.01125	0.0112	0.01106	0.01075	0.01055	0.009546
0.67741935483871	0.01008	0.01005	0.009899	0.009701	0.009603	0.009232
0.709677419354839	0.009972	0.009924	0.009813	0.009615	0.009472	0.008985
0.741935483870968	0.009674	0.009615	0.009524	0.009272	0.009196	0.008425
0.774193548387097	0.008886	0.008797	0.008601	0.008137	0.008038	0.007768
0.806451612903226	0.008357	0.008324	0.008255	0.008123	0.0079	0.00758
0.838709677419355	0.00835	0.008322	0.008244	0.008026	0.007851	0.006901
0.870967741935484	0.007292	0.007187	0.006802	0.006189	0.005901	0.004819
0.903225806451613	0.004424	0.004382	0.004284	0.004181	0.004096	0.003637
0.935483870967742	0.003869	0.003816	0.003793	0.003772	0.003766	0.003272
0.967741935483871	0.003821	0.003804	0.003661	0.00329	0.003112	0.001516
0.1	0.014497	0.014416	0.014112	0.013721	0.013548	0.012815
					Average of yearly averages:	0.0097801

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

Data used for this run:

Output File: TXALF5132

Metfile: w13958.dvf

PRZM scenario: TXalfalfaC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB46513

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	389	g/mol	
Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
Vapor Pressure	vapr		torr	
Solubility	sol	0.95	mg/L	
Kd	Kd		mg/L	
Koc	Koc	1290	mg/L	
Photolysis half-life	kdp		days	Half-life
Aerobic Aquatic Metabolism	kbaew	1320	days	Halfife
Anaerobic Aquatic Metabolism	kbaes	1320	days	Halfife
Aerobic Soil Metabolism	asm	660	days	Halfife
Hydrolysis:	pH 7		days	Half-life
Method:	CAM	8	integer	See PRZM manual
Incorporation Depth:	DEPI	0.1	cm	
Application Rate:	TAPP	3E-5	kg/ha	
Application Efficiency:	APPEFF	1.0	fraction	
Spray Drift	DRFT		fraction of application rate applied to pond	
Application Date	Date	11-4	dd/mm or dd/mm or dd-mm or dd-mmm	

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

stored as TXALF9502.out

Chemical: MB45950

PRZM environment: TXalfalfaC.txt modified Satday, 12 October 2002 at 17:27:40

EXAMS environment: ir298.exv modified Thuday, 29 August 2002 at 15:34:12

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

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	0.01551	0.01505	0.01369	0.01201	0.0108	0.005016
1962	0.01726	0.01686	0.01588	0.01499	0.01443	0.01095
1963	0.01456	0.01445	0.01408	0.0136	0.01354	0.01289
1964	0.03186	0.03083	0.02741	0.02306	0.02205	0.01761
1965	0.03681	0.03599	0.03415	0.03082	0.02926	0.02612
1966	0.03339	0.03315	0.03195	0.03074	0.03011	0.02858
1967	0.03346	0.03323	0.03238	0.03161	0.03132	0.0294
1968	0.03936	0.03887	0.03789	0.03624	0.0359	0.033
1969	0.03928	0.03888	0.03781	0.03728	0.0367	0.03468
1970	0.04556	0.04503	0.04399	0.04156	0.04013	0.03663
1971	0.04008	0.03989	0.03862	0.03684	0.03612	0.0352
1972	0.04474	0.04437	0.04356	0.04137	0.04029	0.03658
1973	0.0483	0.0479	0.04628	0.04383	0.04255	0.03776
1974	0.04737	0.04682	0.04501	0.04255	0.04176	0.04063
1975	0.05442	0.05381	0.05178	0.05038	0.04911	0.04452
1976	0.0544	0.05404	0.05254	0.0515	0.05091	0.04698
1977	0.05329	0.05291	0.05185	0.04972	0.04866	0.04579
1978	0.05026	0.04982	0.04856	0.04715	0.04645	0.0443
1979	0.05965	0.05888	0.05661	0.05365	0.05283	0.04804
1980	0.05291	0.05258	0.05148	0.05004	0.04926	0.04717
1981	0.07494	0.07359	0.06973	0.06354	0.06088	0.05177
1982	0.06216	0.06152	0.05963	0.05719	0.05633	0.05209
1983	0.05421	0.05394	0.05331	0.05234	0.05183	0.04974
1984	0.04972	0.04936	0.04825	0.04738	0.04727	0.04582
1985	0.04905	0.04868	0.04762	0.04625	0.0454	0.04464
1986	0.05302	0.05254	0.05138	0.04907	0.04779	0.04524
1987	0.05922	0.0584	0.05666	0.05427	0.05265	0.04757
1988	0.04877	0.04856	0.04773	0.04692	0.04651	0.04498
1989	0.05184	0.05128	0.0495	0.04789	0.04681	0.04356
1990	0.0499	0.04939	0.0477	0.04628	0.04549	0.04295

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	0.07494	0.07359	0.06973	0.06354	0.06088	0.05209
0.0645161290322581		0.06216	0.06152	0.05963	0.05719	0.05633 0.05177
0.0967741935483871		0.05965	0.05888	0.05666	0.05427	0.05283 0.04974
0.129032258064516	0.05922	0.0584	0.05661	0.05365	0.05265	0.04804
0.161290322580645	0.05442	0.05404	0.05331	0.05234	0.05183	0.04757
0.193548387096774	0.0544	0.05394	0.05254	0.0515	0.05091	0.04717
0.225806451612903	0.05421	0.05381	0.05185	0.05038	0.04926	0.04698
0.258064516129032	0.05329	0.05291	0.05178	0.05004	0.04911	0.04582
0.290322580645161	0.05302	0.05258	0.05148	0.04972	0.04866	0.04579
0.32258064516129	0.05291	0.05254	0.05138	0.04907	0.04779	0.04524
0.354838709677419	0.05184	0.05128	0.0495	0.04789	0.04727	0.04498
0.387096774193548	0.05026	0.04982	0.04856	0.04738	0.04681	0.04464
0.419354838709677	0.0499	0.04939	0.04825	0.04715	0.04651	0.04452
0.451612903225806	0.04972	0.04936	0.04773	0.04692	0.04645	0.0443
0.483870967741936	0.04905	0.04868	0.0477	0.04628	0.04549	0.04356
0.516129032258065	0.04877	0.04856	0.04762	0.04625	0.0454	0.04295
0.548387096774194	0.0483	0.0479	0.04628	0.04383	0.04255	0.04063
0.580645161290323	0.04737	0.04682	0.04501	0.04255	0.04176	0.03776
0.612903225806452	0.04556	0.04503	0.04399	0.04156	0.04029	0.03663
0.645161290322581	0.04474	0.04437	0.04356	0.04137	0.04013	0.03658
0.67741935483871	0.04008	0.03989	0.03862	0.03728	0.0367	0.0352

0.709677419354839	0.03936	0.03888	0.03789	0.03684	0.03612	0.03468
0.741935483870968	0.03928	0.03887	0.03781	0.03624	0.0359	0.033
0.774193548387097	0.03681	0.03599	0.03415	0.03161	0.03132	0.0294
0.806451612903226	0.03346	0.03323	0.03238	0.03082	0.03011	0.02858
0.838709677419355	0.03339	0.03315	0.03195	0.03074	0.02926	0.02612
0.870967741935484	0.03186	0.03083	0.02741	0.02306	0.02205	0.01761
0.903225806451613	0.01726	0.01686	0.01588	0.01499	0.01443	0.01289
0.935483870967742	0.01551	0.01505	0.01408	0.0136	0.01354	0.01095
0.967741935483871	0.01456	0.01445	0.01369	0.01201	0.0108	0.005016

0.1                    0.059607 0.058832 0.056655 0.054208 0.052812 0.04957  
Average of yearly averages:                    0.0376735333333333

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

Data used for this run:

Output File: TXALP9502

Metfile: w13958.dvf

PRZM scenario: TXalfalfaC.txt

EXAMS environment file: ir298.exv

Chemical Name: MB45950

Description	Variable Name	Value	Units	Comments
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Molecular weight	mwt	421	g/mol	
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Henry's Law Const.	henry		atm-m <sup>3</sup> /mol	
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Vapor Pressure	vapr		torr	
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Solubility	sol	0.1	mg/L	
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Kd	Kd		mg/L	
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Koc	Koc	2719	mg/L	
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Photolysis half-life	kdp		days	Half-life
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Aerobic Aquatic Metabolism	kbacw	1400	days	Halfife
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Anaerobic Aquatic Metabolism	kbacs	1400	days	Halfife
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Aerobic Soil Metabolism	asm	700	days	Halfife
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Hydrolysis:	pH 7		days	Half-life
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Method:	CAM	8	integer	See PRZM manual
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Incorporation Depth:	DEPI	0.1	cm	
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Application Rate:	TAPP	0.0002	kg/ha	
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Application Efficiency:	APPEFF	1.0	fraction	
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Spray Drift	DRFT		fraction of application rate applied to pond	
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Application Date	Date	11-4	dd/mm or dd/mmm or dd-mm or dd-mmm	
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Record 17: FILTRA

IPSCND

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

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