US Environmental Protection Agency
Office of Pesticide Programs

APPENDIX B PRZM/EXAMS MODELING RESULTS

October 18, 2007

APPENDIX B PRZM/EXAMS MODELING RESULTS

Crop scenarios, application rate and number of applications modeled

(Crop/Use)	PRZM Scenario	Formulation	Application Rate (lb/acre)	Number of Applications @ interval (day)	Application Equip// Type
golf course turf	CA turf RLF	Granular	0.735 lb/1000 sq ft = 32 lbs ai/A	2 (120)	Spreader, tractor-mounted granule applicator// Broadcast
				(NS)	*Tree injection for 32 lbs ai/A includes
		EC	13.5	2 (120)	Boom sprayer, handgun, low pressure ground sprayer, (high vol spray)// Broadcast, (spot treatments)
Ornamental herbaceous plants,	CA nursery	EC	9	1	Drip irrigation, ground, soil incorporation equip, sprayer, sprinkler irrigation// Broadcast, Chemigation
Ornamental[1]		G	0.2880 lbs/1000 sq ft = 12.5 lbs ai/A	2/cc	Spreader// Broadcast
Residential lawns	CA residential RLF	Granular	12.6 (7.5-12.6)	NS	Spreader, tractor mounted granule applicator// Broadcast
		EC	13.5	2 (120)	Boom sprayer, handgun, low pressure ground sprayer, (high vol spray)// Broadcast, (spot treatments)
Broccoli[2]	CA cole crop RLF	EC	9	(NS)	Sprayer// Broadcast
broccoli raab, Chinese broccoli		EC	6	NS	Drip irrigation, ground, soil incorporation equipment, sprayer, sprinkler irrigation// Broadcast, chemigation
Lettuce[3]	CA lettuce no-irrg.	EC	9	(NS)	Sprayer// Broadcast
Swiss chard[4]		EC	6	NS	Drip irrigation, ground, soil incorporation equipment, sprayer, sprinkler irrigation// Broadcast, chemigation

	CA row crop RLD	EC	9	2 (120) (NS)	Sprayer// Broadcast
Celtuce[5]		EC	6	NS	Drip irrigation, ground, soil incorporation equipment, sprayer, sprinkler irrigation// Broadcast, chemigation
Melon[6]	CA melon RLF	EC	9	(NS)	Sprayer// Band treatment, Broadcast
Eggplant[7]		EC	6	NS	Drip irrigation, ground, soil incorporation equipment, sprayer, sprinkler irrigation// Broadcast, chemigation
Garlic	CA garlic RLF	EC	6	(NS)	Drip irrigation, ground, soil incorporation equipment, sprayer, sprinkler irrigation// Broadcast, chemigation, soil band treatment
okra (Chinese)	CA tomato no-irrg.	EC	9	(NS)	Sprayer// Band treatment, broadcast
Tomatillo	CA tomato	EC	6	NS	Drip irrigation, ground, soil incorporation equipment, sprayer, sprinkler irrigation// Broadcast, chemigation
Onion[8]	CA onion no-irrg. (row crop)	EC	6	(NS)	Drip irrigation, ground, soil incorporation equipment, sprayer, sprinkler irrigation// Broadcast, chemigation, soil band treatment
Raddish/daikon Chinese	CA onion	EC	9	NS	Sprayer// Broadcast

1. Ornamental and/or shade trees, Ornamental ground cover, Ornamental herbaceous plants, Ornamental woody shrubs and vines.
2. Broccoli, cabbage, Chinese cabbage, cauliflower, collards, cress (garden), upland cress, kale, kohlrabi, leafy vegetables, rape green, cole crops, mustard, mustard cabbage (gai choy, pak-choi).
3. Lettuce3 (head, leaf), Brussels sprout, endive, leaf lettuce (blackseeded, Simpson, salad bowl, etc.), parsley, spinach.
4. Swiss chard, chicory, corn salad, dandelion, fennel, roquette (arugula), Celery, pepper, cardoon, dock (sorrel).
5. Celtuce, chervil, garland chrysanthemum, orach (mountain spinach), pepper, pepper (chili), pimento.
6. Melon, cucumber, chayote gherkin, gourds, gourd (wax) Chinese, bitter melons (balsam pear), melons (cantaloupe, citron, mango, musk, water, pineapple), winter melons (casaba, crenshaw, honeydew, Persian), pumpkin, squash (butternut, summer, winter, zucchini), cucuzzi (spaghetti squash).
7. Eggplant, ground cherry (strawberry tomato/tomatillo), pepino (melon pear).
8. Onion, orach (mountain spinach), shallot

Methods and rates of application of currently registered uses of bensulide.

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
NON-FOOD/NON-FEED USES								
golf course turf	CA turf RLF*	12.6	lb A	G	2/1 yr	24.99 lb/yr	NS	Spreader/ Tractor-mounted granule applicator //Broadcast
		13.5	lb A	EC	2/1 yr	25 lb/yr	NS	Boom sprayer/ Handgun/ Low pressure ground sprayer //Broadcast/ High volume spray (dilute)/ Spot treatment
		12.6	lb A	G	2/1 yr	NS	NS	Spreader/ Tractor-mounted granule applicator //Broadcast
		.2880	lb 1K sq.ft	G	2/cc	NS	120	Spreader //Broadcast
		.1376	lb 1K sq.ft	G	1/1 yr	NS	NS	Sprayer //Broadcast
		.7350	lb 1K sq.ft	G	2/1 yr	NS	NS	Spreader/ Tree injection equipment //Broadcast
Ornamental and/or shade trees	CA Nursery	.2880	lb 1K sq.ft	G	2/cc	NS	120	Spreader //Broadcast
Ornamental ground cover	CA Nursery	.2880	lb 1K sq.ft	G	2/cc	NS	120	Spreader //Broadcast
Ornamental herbaceous plants	CA Nursery	9	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
								equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
		.2880	lb 1K sq.ft	G	2/cc	NS	120	Spreader //Broadcast
Ornamental woody shrubs and vines	CA Nursery	.2880	lb 1K sq.ft	G	2/cc	NS	120	Spreader //Broadcast
Residential lawns	CA residential RLF	12.6	lb A	G	NS	24.99 lb/yr	NS	Spreader/ Tractor-mounted granule applicator //Broadcast
		13.5	lb A	EC	NS	25 lb/yr	NS	Boom sprayer/ Handgun/ Low pressure ground sprayer //Broadcast/ High volume spray (dilute)/ Spot treatment
		12.6	lb A	G	NS	NS	NS	Spreader/ Tractor-mounted granule applicator //Broadcast
		.1714	lb 1K sq.ft	G	2/cc	NS	120	Spreader //Broadcast
		.2859	lb 1K sq.ft	G	2/1 yr	NS	NS	Spreader/ Tractor-mounted granule applicator //Broadcast
		.2880	lb 1K sq.ft	G	NS	NS	NS	Spreader/ Tractor-mounted granule applicator //Broadcast

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
FOOD/FEED USES								
broccoli	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
broccoli raab	CA cole crop RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
broccoli, Chinese	CA cole crop RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
Brussels sprouts	CA lettuce STD	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
cabbage	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
cabbage, Chinese	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
Rape green	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
cardoon	CA row crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
carrot (including tops)	Reg. In Texas only	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/Sprayer/ Sprinkler irrigation/Broadcast/ Chemigation [(a)]
cauliflower	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
celery	CA row crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
celtuce	CA row crop RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
chard, Swiss	CA lettuce STD	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
chayote	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
chervil	CA row crop RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
								irrigation //Broadcast/ Chemigation
chicory	CA lettuce STD	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
chrysanthemum, garland	CA row crop RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
cole crops	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
collards	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
corn salad	CA lettuce STD	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
cress, garden	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
cress, upland	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
cucumber	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
cucuzzi (spaghetti squash)	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
dandelion	CA lettuce STD	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
dock (sorrel)	CA row crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
eggplant	CA melons RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
endive (escarole)	CA lettuce STD	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
fennel	CA lettuce STD	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
								//Broadcast/ Chemigation
garlic	CA garlic RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation/ Soil band treatment
gherkin	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
gourd (wax), Chinese	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
gourds	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
groundcherry (strawberry tomato/tomatillo)	CA melons RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
kale	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
kohlrabi	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
leafy vegetables	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
lettuce, head	CA lettuce STD	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
lettuce, leaf (black seeded simpson, salad bowl, etc.)	CA lettuce STD	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
melons, bitter (balsam pear)	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
melons, cantaloupe	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
melons, citron	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
melons, honeydew	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
melons, mango	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
melons, musk	CA	9~	lb A	EC	NS	NS	NS	Sprayer

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
	melons RLF							//Band treatment/ Broadcast
melons, water	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
melons, winter (casaba/crenshaw/honeydew/Persian)	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
Melon , pineapple	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
mustard	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
mustard cabbage (gai choy, pak-choi)	CA cole crop RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
okra, Chinese	CA tomato STD	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
onion	CA onion STD	6~	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation/ Soil band treatment

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
orach (mountain spinach)	CA row crop RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
parsley	CA lettuce STD	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
pepino (melon pear)	CA melons RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
pepper	CA row crop RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
pepper (chili type)	CA row crop RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
pimento	CA row crop RLF	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
								Chemigation
pumpkin	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
radish/daikon, Chinese	CA onion STD	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
roquette (arugula)	CA lettuce STD	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation
shallot	CA onion STD	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation/ Soil band treatment
spinach	CA lettuce STD	9~	lb A	EC	NS	NS	NS	Sprayer //Broadcast
squash (butternut)	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
squash (summer)	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast

Use Site	PRZM Scenario Used	Max. Rate per App (lbs ai/acre)	Max. Rate Unit/Area	Form	Max.# Apps cc & yr	Max. App Rate/ cc & yr	Min. App Interval (days)	Application Equipment //Type
squash (winter)	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
squash (zucchini)	CA melons RLF	9~	lb A	EC	NS	NS	NS	Sprayer //Band treatment/ Broadcast
tomatillo	CA tomato STD	6	lb A	EC	NS	NS	NS	Drip irrigation/ Ground/ Soil incorporation equipment/ Sprayer/ Sprinkler irrigation //Broadcast/ Chemigation

*: Red Legged Frog available PRZM scenarios

On golf course turf (granular application)

stored as BnstrfG8.out
Chemical: Bensulide
PRZM environment: CATurf no_irrig.txt modified Monday, 16 April 2007 at 08:56:44
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	8.28	7.537	5.514	3.836	3.381	2.205
1962	24.57	22.57	17.26	12.7	11.36	6.969
1963	18.15	17.39	15.3	13.84	13.51	12.1
1964	19.13	18.33	16.13	14.71	14.28	13.05
1965	19.02	18.26	16.16	14.32	13.74	13.04
1966	19.93	19.15	16.99	15.09	14.73	14
1967	34.89	32.97	28.25	23.84	22.73	19.19
1968	24.6	23.78	22.07	20.16	19.68	18.14
1969	25.95	25.02	22.46	20.71	20.26	18.52

1970	24.75	24.17	22.22	20.39	20.12	18.6
1971	23.71	22.94	21.46	19.51	18.8	17.58
1972	22.25	21.72	19.86	18.75	17.94	16.56
1973	26.36	25.42	22.87	21.34	20.86	19.28
1974	26.66	25.74	23.22	21.47	20.71	19.36
1975	24.86	24.09	22.13	21.12	20.26	18.61
1976	24.28	23.61	21.14	18.82	18.09	16.88
1977	24.34	23.37	20.79	18.88	19.01	17.51
1978	28.9	27.66	24.78	21.95	21.02	19.14
1979	27.36	26.37	23.66	22.02	21.67	19.78
1980	28.67	27.87	25.39	22.91	22.23	20.37
1981	25.78	24.96	22.88	21.25	20.73	19.53
1982	54.16	50.4	40.14	32.79	31.64	28.06
1983	34.73	34.11	31.9	30.01	29.46	27.05
1984	30.96	30.17	27.98	25.95	25.81	24.23
1985	29.21	28.37	26.07	24.24	23.62	22.03
1986	32.5	31.25	29.16	26.44	25.14	22.24
1987	27.58	26.7	24.27	22.37	21.66	20.15
1988	24.54	23.76	21.62	19.82	19.24	18.19
1989	22.89	22.12	20.15	18.25	17.6	16.69
1990	22.11	21.31	19.08	17.1	16.51	15.53

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	54.16	50.4	40.14	32.79	31.64	28.06
0.0645161290322581	34.89	34.11	31.9	30.01	29.46	27.05
0.0967741935483871	34.73	32.97	29.16	26.44	25.81	24.23
0.129032258064516	32.5	31.25	28.25	25.95	25.14	22.24
0.161290322580645	30.96	30.17	27.98	24.24	23.62	22.03
0.193548387096774	29.21	28.37	26.07	23.84	22.73	20.37
0.225806451612903	28.9	27.87	25.39	22.91	22.23	20.15
0.258064516129032	28.67	27.66	24.78	22.37	21.67	19.78
0.290322580645161	27.58	26.7	24.27	22.02	21.66	19.53
0.32258064516129	27.36	26.37	23.66	21.95	21.02	19.36
0.354838709677419	26.66	25.74	23.22	21.47	20.86	19.28
0.387096774193548	26.36	25.42	22.88	21.34	20.73	19.19
0.419354838709677	25.95	25.02	22.87	21.25	20.71	19.14
0.451612903225806	25.78	24.96	22.46	21.12	20.26	18.61
0.483870967741936	24.86	24.17	22.22	20.71	20.26	18.6
0.516129032258065	24.75	24.09	22.13	20.39	20.12	18.52
0.548387096774194	24.6	23.78	22.07	20.16	19.68	18.19
0.580645161290323	24.57	23.76	21.62	19.82	19.24	18.14
0.612903225806452	24.54	23.61	21.46	19.51	19.01	17.58
0.645161290322581	24.34	23.37	21.14	18.88	18.8	17.51
0.67741935483871	24.28	22.94	20.79	18.82	18.09	16.88
0.709677419354839	23.71	22.57	20.15	18.75	17.94	16.69

0.741935483870968	22.89	22.12	19.86	18.25	17.6	16.56
0.774193548387097	22.25	21.72	19.08	17.1	16.51	15.53
0.806451612903226	22.11	21.31	17.26	15.09	14.73	14
0.838709677419355	19.93	19.15	16.99	14.71	14.28	13.05
0.870967741935484	19.13	18.33	16.16	14.32	13.74	13.04
0.903225806451613	19.02	18.26	16.13	13.84	13.51	12.1
0.935483870967742	18.15	17.39	15.3	12.7	11.36	6.969
0.967741935483871	8.28	7.537	5.514	3.836	3.381	2.205
0.1	34.507	32.798	29.069	26.391	25.743	24.031

Average of yearly averages: 17.8194666666667

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

Data used for this run:
Output File: BnstrfG8
Metfile: w23234.dvf
PRZM scenario: CATurf no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name: Bensulide

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	397.5	g/mol	
Henry's Law Const.	henry	7.7E-8	atm-m^3/mol	
Vapor Pressure	vapr	8.27E-7	torr	
Solubility	sol	56	mg/L	
Kd	Kd		mg/L	
Koc	Koc	2943	mg/L	
Photolysis half-life	kdp	200	days	Half-life
Aerobic Aquatic Metabolism	kbacw	693	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	0	days	Halfife
Aerobic Soil Metabolism	asm	363	days	Halfife
Hydrolysis:	pH 7	220	days	Half-life
Method:	CAM	8	integer	See PRZM manual
Incorporation Depth:	DEPI	1	cm	
Application Rate:	TAPP	14.11	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-03	dd/mm or dd/mmm or dd-mm or dd-mmm	
Interval 1	interval	120	days	Set to 0 or delete line for single app.
Record 17:	FILTRA			
	IPSCND	1		
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR	Pond		

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

On golf course turf (EC application)

stored as BnstrfEC2.out
Chemical: Bensulide
PRZM environment: CATurf.txt modified Tuesday, 20 February 2007 at 12:03:48
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	11.21	10.46	9.024	8.103	7.883	5.028
1962	31.55	29.69	25.12	20.89	19.65	14.2
1963	29.03	28.22	26.74	25.68	25.31	22.26
1964	32.87	31.88	30.44	29.41	29.11	26.42
1965	36.09	35.01	33.3	32.05	31.63	28.91
1966	38.23	37.66	35.85	34.62	34.14	31.68
1967	45.22	43.85	40.38	38.63	38.07	36.06
1968	43.44	42.89	41.31	39.84	39.32	36.91
1969	44.28	43.69	42.14	40.78	40.34	38.06
1970	45.74	45	43.5	42.07	41.53	39.43
1971	45.56	45.05	43.5	42.17	41.72	39.42
1972	45.51	44.89	43.33	42	41.53	39.45
1973	47.15	46.65	45.11	43.71	43.16	41.3
1974	47.81	47.22	45.46	43.92	43.38	41.38
1975	47.9	46.95	45.4	44.15	43.71	41.5
1976	47.19	46.35	44.69	43.1	42.49	40.25
1977	47.2	46.11	44.45	43.04	42.53	40.63
1978	49.35	48.13	46.18	44.78	44.21	42.06
1979	48.71	48.15	46.42	44.83	44.38	42.6
1980	49.56	48.8	46.85	45.52	45.01	43.13
1981	49.66	48.54	46.93	45.48	44.93	42.86
1982	63.03	60.64	54.13	49.94	49.37	48.34
1983	53.22	52.56	50.98	49.45	48.9	47.18
1984	51.76	50.93	49.3	47.85	47.3	45.44
1985	50.77	49.67	48.18	46.64	46	43.91
1986	51.95	50.72	48.73	46.98	46.3	44.18
1987	50.09	49.31	47.51	46.03	45.49	43.22
1988	48.94	48.43	46.87	45.35	44.79	42.56
1989	47.79	46.73	45.22	43.92	43.37	41.25
1990	46.95	45.97	44.52	43.15	42.72	40.58

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	63.03	60.64	54.13	49.94	49.37	48.34
0.0645161290322581	53.22	52.56	50.98	49.45	48.9	47.18
0.0967741935483871	51.95	50.93	49.3	47.85	47.3	45.44
0.129032258064516	51.76	50.72	48.73	46.98	46.3	44.18
0.161290322580645	50.77	49.67	48.18	46.64	46	43.91
0.193548387096774	50.09	49.31	47.51	46.03	45.49	43.22
0.225806451612903	49.66	48.8	46.93	45.52	45.01	43.13
0.258064516129032	49.56	48.54	46.87	45.48	44.93	42.86
0.290322580645161	49.35	48.43	46.85	45.35	44.79	42.6
0.32258064516129	48.94	48.15	46.42	44.83	44.38	42.56
0.354838709677419	48.71	48.13	46.18	44.78	44.21	42.06
0.387096774193548	47.9	47.22	45.46	44.15	43.71	41.5
0.419354838709677	47.81	46.95	45.4	43.92	43.38	41.38
0.451612903225806	47.79	46.73	45.22	43.92	43.37	41.3
0.483870967741936	47.2	46.65	45.11	43.71	43.16	41.25
0.516129032258065	47.19	46.35	44.69	43.15	42.72	40.63
0.548387096774194	47.15	46.11	44.52	43.1	42.53	40.58
0.580645161290323	46.95	45.97	44.45	43.04	42.49	40.25
0.612903225806452	45.74	45.05	43.5	42.17	41.72	39.45
0.645161290322581	45.56	45	43.5	42.07	41.53	39.43
0.67741935483871	45.51	44.89	43.33	42	41.53	39.42
0.709677419354839	45.22	43.85	42.14	40.78	40.34	38.06
0.741935483870968	44.28	43.69	41.31	39.84	39.32	36.91
0.774193548387097	43.44	42.89	40.38	38.63	38.07	36.06
0.806451612903226	38.23	37.66	35.85	34.62	34.14	31.68
0.838709677419355	36.09	35.01	33.3	32.05	31.63	28.91
0.870967741935484	32.87	31.88	30.44	29.41	29.11	26.42
0.903225806451613	31.55	29.69	26.74	25.68	25.31	22.26
0.935483870967742	29.03	28.22	25.12	20.89	19.65	14.2
0.967741935483871	11.21	10.46	9.024	8.103	7.883	5.028
0.1	51.931	50.909	49.243	47.763	47.2	45.314

Average of yearly averages: 37.6732666666667

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

Data used for this run:
Output File: BnstrfEC2
Metfile: w23234.dvf
PRZM scenario: CATurf.txt
EXAMS environment file: pond298.exv
Chemical Name: Bensulide

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	397.5	g/mol	

Henry's Law Const.	henry	7.7E-8	atm-m^3/mol		
Vapor Pressure	vapr	8.27E-7	torr		
Solubility	sol	56	mg/L		
Kd	Kd		mg/L		
Koc	Koc	2943	mg/L		
Photolysis half-life	kdp	200	days	Half-life	
Aerobic Aquatic Metabolism	kbacw	693	days	Halfife	
Anaerobic Aquatic Metabolism	kbacs	0	days	Halfife	
Aerobic Soil Metabolism	asm	363	days	Halfife	
Hydrolysis:	pH 7	220	days	Half-life	
Method:	CAM	8	integer	See PRZM manual	
Incorporation Depth:	DEPI	1	cm		
Application Rate:	TAPP	15.12	kg/ha		
Application Efficiency:	APPEFF	0.99	fraction		
Spray Drift	DRFT	0.01	fraction of application rate applied to pond		
Application Date	Date	01-03	dd/mm or dd/mmm or dd-mm or dd-mmm		
Interval 1	interval	120	days	Set to 0 or delete line for single app.	
Record 17:	FILTRA				
	IPSCND	1			
	UPTKF				
Record 18:	PLVKRT				
	PLDKRT				
	FEXTRC	0.5			
Flag for Index Res. Run	IR	Pond			
Flag for runoff calc.	RUNOFF	none	none, monthly or total(average of entire run)		

On Ornamental

stored as BnsNrsry.out
Chemical: Bensulide
PRZM environment: CAnursery no_irrig.txt modified Monday, 16 April 2007 at 14:26:46
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w23188.dvf modified Wedday, 3 July 2002 at 10:04:22
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	13.5	12.32	9.116	4.908	3.84	2.049
1962	32.15	29.82	22.96	18.59	16.68	12.55
1963	57.87	53.8	42.7	31.04	27.39	18.49

1964	32.55	31.78	29.62	28.63	28.06	25.57
1965	107	100	85.2	68.6	54.96	36.12
1966	81.99	79.09	69.95	58.68	56.93	53.45
1967	88.28	85.12	74.94	64.61	61.54	57.4
1968	111	105	90.8	78.3	74.52	64.52
1969	134	126	107	93.03	87.55	72.1
1970	98.48	95.47	86.42	75.39	71.94	64.3
1971	69.44	67.8	65.84	63.34	62.91	59.64
1972	74.37	72.04	65.74	59.23	56.81	53.47
1973	60.71	59.73	58.25	55.6	54.46	50.5
1974	92.34	87.39	73.82	56.74	53.8	50.08
1975	113	107	93.84	80.44	75.79	63.36
1976	94.69	90.5	80.65	73.75	71.6	63.76
1977	150	144	122	103	96.97	76.82
1978	116	114	104	97.7	97.53	86.64
1979	106	103	94.43	90.61	89.23	79.48
1980	106	103	95.82	92.56	89.85	78.71
1981	169	159	141	115	107	89.26
1982	189	179	152	128	121	103
1983	161	155	136	121	116	100
1984	96.17	93.34	87.77	86.48	86.32	78.98
1985	174	164	138	114	96.51	76.16
1986	113	112	107	105	103	96.39
1987	99.33	97.21	94.63	92.08	91.49	85.99
1988	129	124	110	97.35	93.93	84.99
1989	88.75	86.12	80.42	78.59	78.7	72.27
1990	83.99	82.24	79.42	75.03	73.69	65.09

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	189	179	152	128	121	103
0.0645161290322581	174	164	141	121	116	100
0.0967741935483871	169	159	138	115	107	96.39
0.129032258064516	161	155	136	114	103	89.26
0.161290322580645	150	144	122	105	97.53	86.64
0.193548387096774	134	126	110	103	96.97	85.99
0.225806451612903	129	124	107	97.7	96.51	84.99
0.258064516129032	116	114	107	97.35	93.93	79.48
0.290322580645161	113	112	104	93.03	91.49	78.98
0.32258064516129	113	107	95.82	92.56	89.85	78.71
0.354838709677419	111	105	94.63	92.08	89.23	76.82
0.387096774193548	107	103	94.43	90.61	87.55	76.16
0.419354838709677	106	103	93.84	86.48	86.32	72.27
0.451612903225806	106	100	90.8	80.44	78.7	72.1
0.483870967741936	99.33	97.21	87.77	78.59	75.79	65.09
0.516129032258065	98.48	95.47	86.42	78.3	74.52	64.52

0.548387096774194	96.17	93.34	85.2	75.39	73.69	64.3
0.580645161290323	94.69	90.5	80.65	75.03	71.94	63.76
0.612903225806452	92.34	87.39	80.42	73.75	71.6	63.36
0.645161290322581	88.75	86.12	79.42	68.6	62.91	59.64
0.67741935483871	88.28	85.12	74.94	64.61	61.54	57.4
0.709677419354839	83.99	82.24	73.82	63.34	56.93	53.47
0.741935483870968	81.99	79.09	69.95	59.23	56.81	53.45
0.774193548387097	74.37	72.04	65.84	58.68	54.96	50.5
0.806451612903226	69.44	67.8	65.74	56.74	54.46	50.08
0.838709677419355	60.71	59.73	58.25	55.6	53.8	36.12
0.870967741935484	57.87	53.8	42.7	31.04	28.06	25.57
0.903225806451613	32.55	31.78	29.62	28.63	27.39	18.49
0.935483870967742	32.15	29.82	22.96	18.59	16.68	12.55
0.967741935483871	13.5	12.32	9.116	4.908	3.84	2.049
0.1	168.2	158.6	137.8	114.9	106.6	95.677
			Average of yearly averages:			64.0379666666667

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

Data used for this run:
Output File: BnsNrsry
Metfile: w23188.dvf
PRZM scenario: CAnursery no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name: Bensulide

Description	Variable Name		Value	Units	Comments
Molecular weight	mwt	397.5	g/mol		
Henry's Law Const.	henry	7.7E-8	atm-m^3/mol		
Vapor Pressure	vapr	8.27E-7	torr		
Solubility	sol	56	mg/L		
Kd	Kd		mg/L		
Koc	Koc	2943	mg/L		
Photolysis half-life	kdp	200	days	Half-life	
Aerobic Aquatic Metabolism	kbacw	693	days	Halfife	
Anaerobic Aquatic Metabolism	kbacs	0	days	Halfife	
Aerobic Soil Metabolism	asm	363	days	Halfife	
Hydrolysis:	pH 7	220	days	Half-life	
Method:	CAM	2	integer	See PRZM manual	
Incorporation Depth:	DEPI	0	cm		
Application Rate:	TAPP	10.08	kg/ha		
Application Efficiency:		APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond		
Application Date	Date	01-03	dd/mm or dd/mmm or dd-mm or dd-mmm		
Interval 1	interval	120	days	Set to 0 or delete line for single app.	
Record 17:	FILTRA				

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

On Residential lawns (EC application)

Year	Max Peak	4-day	Max 14 day	Max 21 day	Max 30 day	Max 60 day	Max 90 day	Annua
1961	8.93E-03	8.70E-03	8.19E-03	8.09E-03	7.96E-03	7.71E-03	7.76E-03	9.03E
1962	2.99E-02	2.87E-02	2.60E-02	2.46E-02	2.34E-02	2.11E-02	2.00E-02	1.95E
1963	2.78E-02	2.72E-02	2.65E-02	2.63E-02	2.60E-02	2.58E-02	2.57E-02	2.52E
1964	3.24E-02	3.20E-02	3.11E-02	3.09E-02	3.06E-02	3.04E-02	3.03E-02	2.93E
1965	3.57E-02	3.51E-02	3.46E-02	3.44E-02	3.41E-02	3.36E-02	3.34E-02	3.27E
1966	3.91E-02	3.85E-02	3.79E-02	3.76E-02	3.74E-02	3.68E-02	3.65E-02	3.63E
1967	4.56E-02	4.48E-02	4.30E-02	4.18E-02	4.08E-02	4.03E-02	4.00E-02	3.83E
1968	4.43E-02	4.38E-02	4.33E-02	4.29E-02	4.27E-02	4.20E-02	4.17E-02	3.97E
1969	4.51E-02	4.46E-02	4.39E-02	4.35E-02	4.32E-02	4.27E-02	4.24E-02	4.11E
1970	4.67E-02	4.60E-02	4.52E-02	4.50E-02	4.46E-02	4.40E-02	4.37E-02	4.20E
1971	4.70E-02	4.64E-02	4.57E-02	4.54E-02	4.51E-02	4.45E-02	4.42E-02	4.22E
1972	4.66E-02	4.62E-02	4.53E-02	4.50E-02	4.47E-02	4.41E-02	4.38E-02	4.30E
1973	4.79E-02	4.76E-02	4.70E-02	4.67E-02	4.64E-02	4.58E-02	4.55E-02	4.40E
1974	4.86E-02	4.80E-02	4.71E-02	4.66E-02	4.63E-02	4.59E-02	4.56E-02	4.40E
1975	4.82E-02	4.75E-02	4.68E-02	4.65E-02	4.61E-02	4.55E-02	4.52E-02	4.34E
1976	4.79E-02	4.75E-02	4.66E-02	4.63E-02	4.60E-02	4.52E-02	4.47E-02	4.31E
1977	4.86E-02	4.81E-02	4.69E-02	4.66E-02	4.63E-02	4.57E-02	4.53E-02	4.40E
1978	5.03E-02	4.95E-02	4.81E-02	4.78E-02	4.75E-02	4.69E-02	4.65E-02	4.48E
1979	5.00E-02	4.95E-02	4.88E-02	4.83E-02	4.80E-02	4.74E-02	4.71E-02	4.56E
1980	5.01E-	4.97E-	4.86E-02	4.83E-02	4.80E-02	4.76E-02	4.73E-02	4.58E

	02	02						
1981	5.02E-02	4.99E-02	4.99E-02	5.00E-02	5.02E-02	4.90E-02	4.85E-02	4.81E
1982	6.23E-02	6.08E-02	5.71E-02	5.52E-02	5.34E-02	5.15E-02	5.10E-02	4.99E
1983	5.30E-02	5.27E-02	5.16E-02	5.12E-02	5.09E-02	5.04E-02	5.00E-02	4.92E
1984	5.21E-02	5.16E-02	5.08E-02	5.03E-02	5.00E-02	4.93E-02	4.89E-02	4.77E
1985	5.07E-02	5.01E-02	4.97E-02	4.94E-02	4.90E-02	4.83E-02	4.79E-02	4.65E
1986	5.23E-02	5.15E-02	5.04E-02	5.00E-02	4.96E-02	4.88E-02	4.83E-02	4.66E
1987	5.06E-02	4.98E-02	4.89E-02	4.85E-02	4.83E-02	4.77E-02	4.73E-02	4.58E
1988	4.94E-02	4.91E-02	4.83E-02	4.79E-02	4.75E-02	4.69E-02	4.65E-02	4.48E
1989	4.82E-02	4.76E-02	4.69E-02	4.67E-02	4.64E-02	4.58E-02	4.55E-02	4.39E
1990	4.86E-02	4.81E-02	4.73E-02	4.70E-02	4.66E-02	4.60E-02	4.56E-02	4.45E
90th % (ppm)	0.05214		0.05041714	0.05006679	0.04998975	0.04905875	0.048508667	0.0
90th % (ppb)	52.14		50.4171429	50.0667857	49.98975	49.05875	48.50866667	47.70
							Average Annual	0.04

On Broccoli

stored as BnsBrocl.out
Chemical: Bensulide
PRZM environment: CAColeCrop.txt modified Tuesday, 20 February 2007 at 12:06:20
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	5.004	4.454	1.68	0.588	0.392	0.09666
1962	32.83	31.05	25.75	19.66	17.47	14.32
1963	58.7	54.56	45.54	38.8	37.44	30.31
1964	61.8	59.5	50.17	45.27	42.61	35.51
1965	68.74	66.11	43.13	40.3	39.19	35.7

1966	63.27	60.95	54.46	53.19	50.89	43.07
1967	120	114	101	81.31	76.64	61.66
1968	81.32	78.61	71.71	66.85	65.79	57.75
1969	81.61	79.6	76.88	73.68	70.44	60.14
1970	85.4	83.19	78.98	73.4	70.32	60.38
1971	66.93	65.63	63.73	62.38	60.98	54.26
1972	61.23	59.79	56.07	53.4	52.23	47.76
1973	94.65	89.86	78.45	72.81	69.52	58.73
1974	75.67	73.3	67.44	65.69	64.78	57.37
1975	73.85	72.14	67	65.16	64.05	56.08
1976	83.01	68.57	63.85	58.95	58.29	51.74
1977	96.49	91.35	78.46	70.58	67.4	56.71
1978	85.72	82.99	77.11	74.76	72.72	62.25
1979	101	96.06	82.98	80.5	77.48	66.45
1980	95.22	92.94	89.04	86.21	84.12	71.76
1981	95.29	92.16	86.4	79.52	76.92	67.36
1982	170	159	132	110	104	87.78
1983	113	110	103	97.43	95.13	83.53
1984	96.29	94.16	91.12	88.29	86.57	76.04
1985	85.6	83.81	81.17	78.63	77.66	68.78
1986	100	96.56	86.59	82.18	78.41	67.66
1987	81.28	79.16	74.79	70.43	69.28	60.81
1988	72.26	70.63	67.9	65.53	63.57	56.67
1989	65.73	64.29	61.43	60.87	59.97	52.97
1990	64.92	63.3	59.86	57.71	56.46	49.55

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	170	159	132	110	104	87.78
0.0645161290322581	120	114	103	97.43	95.13	83.53
0.0967741935483871	113	110	101	88.29	86.57	76.04
0.129032258064516	101	96.56	91.12	86.21	84.12	71.76
0.161290322580645	100	96.06	89.04	82.18	78.41	68.78
0.193548387096774	96.49	94.16	86.59	81.31	77.66	67.66
0.225806451612903	96.29	92.94	86.4	80.5	77.48	67.36
0.258064516129032	95.29	92.16	82.98	79.52	76.92	66.45
0.290322580645161	95.22	91.35	81.17	78.63	76.64	62.25
0.32258064516129	94.65	89.86	78.98	74.76	72.72	61.66
0.354838709677419	85.72	83.81	78.46	73.68	70.44	60.81
0.387096774193548	85.6	83.19	78.45	73.4	70.32	60.38
0.419354838709677	85.4	82.99	77.11	72.81	69.52	60.14
0.451612903225806	83.01	79.6	76.88	70.58	69.28	58.73
0.483870967741936	81.61	79.16	74.79	70.43	67.4	57.75
0.516129032258065	81.32	78.61	71.71	66.85	65.79	57.37
0.548387096774194	81.28	73.3	67.9	65.69	64.78	56.71
0.580645161290323	75.67	72.14	67.44	65.53	64.05	56.67

0.612903225806452	73.85	70.63	67	65.16	63.57	56.08
0.645161290322581	72.26	68.57	63.85	62.38	60.98	54.26
0.67741935483871	68.74	66.11	63.73	60.87	59.97	52.97
0.709677419354839	66.93	65.63	61.43	58.95	58.29	51.74
0.741935483870968	65.73	64.29	59.86	57.71	56.46	49.55
0.774193548387097	64.92	63.3	56.07	53.4	52.23	47.76
0.806451612903226	63.27	60.95	54.46	53.19	50.89	43.07
0.838709677419355	61.8	59.79	50.17	45.27	42.61	35.7
0.870967741935484	61.23	59.5	45.54	40.3	39.19	35.51
0.903225806451613	58.7	54.56	43.13	38.8	37.44	30.31
0.935483870967742	32.83	31.05	25.75	19.66	17.47	14.32
0.967741935483871	5.004	4.454	1.68	0.588	0.392	0.09666

0.1	111.8	108.656	100.012	88.082	86.325	75.612

Average of yearly averages: 55.1065553333333

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

Data used for this run:
Output File: BnsBrocl
Metfile: w23234.dvf
PRZM scenario: CAColeCrop.txt
EXAMS environment file: pond298.exv
Chemical Name: Bensulide

Description	Variable Name		Value	Units	Comments
Molecular weight	mwt		397.5	g/mol	
Henry's Law Const.	henry		7.7E-8	atm-m^3/mol	
Vapor Pressure	vapr		8.27E-7	torr	
Solubility	sol		56	mg/L	
Kd	Kd		Kd	mg/L	
Koc	Koc	2943		mg/L	
Photolysis half-life	kdp		200	days	Half-life
Aerobic Aquatic Metabolism	kbacw		693	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		0	days	Halfife
Aerobic Soil Metabolism	asm		363	days	Halfife
Hydrolysis:	pH 7	220	days	Half-life	
Method:	CAM	2	integer	See PRZM manual	
Incorporation Depth:	DEPI	0	cm		
Application Rate:	TAPP	10.08	kg/ha		
Application Efficiency:	APPEFF		0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond		
Application Date	Date	23-12	dd/mm or dd/mmm or dd-mm or dd-mmm		
Record 17:	FILTRA				
	IPSCND	1			
	UPTKF				
Record 18:	PLVKRT				

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

On lettuce

stored as BnsLetc.out
Chemical: Bensulide
PRZM environment: calettuceC.txt modified Monday, 11 October 2004 at 15:23:40
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w23273.dvf modified Wedday, 3 July 2002 at 10:04:22
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	22.9	21.44	15.62	9.388	6.521	2.343
1962	148	137	107	71.99	61.77	40.21
1963	87.22	82.79	68.6	61.76	59.27	48.1
1964	57.44	56.03	50.89	47.06	44.53	42.35
1965	67.29	64.47	56.03	48.51	46.42	43.19
1966	64.88	62.03	54.72	47.33	46.32	42.62
1967	70.16	67.12	61.31	54.24	52.55	46.07
1968	50.47	49.32	46.21	43.68	43.23	40.12
1969	109	103	86.57	73.31	69.86	56.75
1970	102	97.19	86.32	71.47	67.02	57.3
1971	63.07	62.04	59.12	57.44	56.25	51.54
1972	74.55	70.98	61.94	52.88	48.51	44.6
1973	119	114	95.99	82.12	77.63	64.31
1974	106	101	89.31	79.19	75.29	66.72
1975	84.52	82.19	77.23	74.4	72.2	63.89
1976	134	127	106	86.43	80.78	68.74
1977	86.8	83.52	74.65	68.84	68.38	63.54
1978	215	207	171	143	131	103
1979	102	101	96.67	94.1	93.15	84.14
1980	131	126	114	99.48	94.56	81.54
1981	135	130	117	106	101	84.6
1982	91.99	89.97	86.09	81.53	79.52	73.28
1983	109	106	97.97	94.44	90.62	77.11
1984	71.6	70.5	68.6	67.72	66.91	61.02
1985	73.3	71.43	66.22	61.93	60.91	55.32

1986	103	97.64	84.22	81.53	77.78	64.39
1987	105	99.91	85.88	73.67	69.97	61.36
1988	83.79	80.79	72.5	66.78	65.66	58.95
1989	60.9	60	58.3	56.95	55.88	49.5
1990	58.16	56.51	52.87	49.07	47.74	42.05

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	215	207	171	143	131	103
0.0645161290322581	148	137	117	106	101	84.6
0.0967741935483871	135	130	114	99.48	94.56	84.14
0.129032258064516	134	127	107	94.44	93.15	81.54
0.161290322580645	131	126	106	94.1	90.62	77.11
0.193548387096774	119	114	97.97	86.43	80.78	73.28
0.225806451612903	109	106	96.67	82.12	79.52	68.74
0.258064516129032	109	103	95.99	81.53	77.78	66.72
0.290322580645161	106	101	89.31	81.53	77.63	64.39
0.32258064516129	105	101	86.57	79.19	75.29	64.31
0.354838709677419	103	99.91	86.32	74.4	72.2	63.89
0.387096774193548	102	97.64	86.09	73.67	69.97	63.54
0.419354838709677	102	97.19	85.88	73.31	69.86	61.36
0.451612903225806	91.99	89.97	84.22	71.99	68.38	61.02
0.483870967741936	87.22	83.52	77.23	71.47	67.02	58.95
0.516129032258065	86.8	82.79	74.65	68.84	66.91	57.3
0.548387096774194	84.52	82.19	72.5	67.72	65.66	56.75
0.580645161290323	83.79	80.79	68.6	66.78	61.77	55.32
0.612903225806452	74.55	71.43	68.6	61.93	60.91	51.54
0.645161290322581	73.3	70.98	66.22	61.76	59.27	49.5
0.67741935483871	71.6	70.5	61.94	57.44	56.25	48.1
0.709677419354839	70.16	67.12	61.31	56.95	55.88	46.07
0.741935483870968	67.29	64.47	59.12	54.24	52.55	44.6
0.774193548387097	64.88	62.04	58.3	52.88	48.51	43.19
0.806451612903226	63.07	62.03	56.03	49.07	47.74	42.62
0.838709677419355	60.9	60	54.72	48.51	46.42	42.35
0.870967741935484	58.16	56.51	52.87	47.33	46.32	42.05
0.903225806451613	57.44	56.03	50.89	47.06	44.53	40.21
0.935483870967742	50.47	49.32	46.21	43.68	43.23	40.12
0.967741935483871	22.9	21.44	15.62	9.388	6.521	2.343
0.1	134.9	129.7	113.3	98.976	94.419	83.88
				Average of yearly averages:		57.9551

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

Data used for this run:
Output File: BnsLetc

Metfile: w23273.dvf
PRZM scenario: calettuceC.txt
EXAMS environment file: pond298.exv
Chemical Name: Bensulide

Description	Variable Name		Value	Units	Comments
Molecular weight	mwt		397.5	g/mol	
Henry's Law Const.	henry		7.7E-8	atm-m^3/mol	
Vapor Pressure	vapr		8.27E-7	torr	
Solubility	sol	56	mg/L		
Kd	Kd		mg/L		
Koc	Koc	2943	mg/L		
Photolysis half-life	kdp	200	days	Half-life	
Aerobic Aquatic Metabolism	kbacw	693	days	Halfife	
Anaerobic Aquatic Metabolism	kbacs	0	days	Halfife	
Aerobic Soil Metabolism	asm	363	days	Halfife	
Hydrolysis:	pH 7	220	days	Half-life	
Method:	CAM	2	integer	See PRZM manual	
Incorporation Depth:	DEPI	0	cm		
Application Rate:	TAPP	10.08	kg/ha		
Application Efficiency:	APPEFF	0.99	fraction		
Spray Drift	DRFT	0.01	fraction of application rate applied to pond		
Application Date	Date	03-02	dd/mm or dd/mmm or dd-mm or dd-mmm		
Record 17:	FILTRA				
	IPSCND	1			
	UPTKF				
Record 18:	PLVKRT				
	PLDKRT				
	FEXTRC	0.5			
Flag for Index Res. Run	IR	Pond			
Flag for runoff calc.	RUNOFF	none	none, monthly or total(average of entire run)		

<u>On Celery</u>

stored as BnsClry2.out
Chemical: Bensulide
PRZM environment: CARowCrop.txt modified Tuesday, 20 February 2007 at 12:04:10
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	23.83	22.31	16.38	8.325	5.85	1.759
1962	71.02	64.83	48.59	35.32	32.48	17.33

1963	54.82	51.84	44.48	38.88	37.42	32.41
1964	58.86	56.06	47.58	41.65	39.58	34.44
1965	56.71	54.97	39.25	35.52	35.15	33.09
1966	52.77	50.79	46.41	42.19	40.69	37.01
1967	99.36	93.93	80.25	64.03	59.77	49.29
1968	59.31	57.7	53.46	50.01	49.25	44.74
1969	59.01	58.19	54.78	52.07	50.31	45.07
1970	77.5	74.33	65.14	52.1	50.51	46.45
1971	52.63	51.94	49.98	49.02	49.08	44.9
1972	57.56	55.5	50.64	48.04	45.92	40.89
1973	79.25	75.25	64.29	53.97	51.41	47.14
1974	62.78	61.18	57.25	54	52.97	47.67
1975	56.4	54.86	50.75	48.79	48.23	43.62
1976	73.6	53.35	44.32	42.87	42.24	38.93
1977	83.37	78.49	65.82	55.57	52.9	45.52
1978	61.42	59.89	55.71	53.8	53.04	46.6
1979	80.23	76.35	59.65	56.89	54.89	48.61
1980	70.09	67.77	63.8	60.87	59.62	52.11
1981	67.46	63.75	59.07	54.15	52.56	48.38
1982	154	143	113	90.26	83.76	70.45
1983	86.12	84.12	80.36	77.46	75.51	67.41
1984	76.96	75.31	71.78	68.26	67.01	61.04
1985	65.1	64.06	62.19	60.06	59.44	54.36
1986	71.65	69.3	63.5	60.4	58.11	51.49
1987	55.92	54.81	52.25	50.24	49.85	45.62
1988	51.75	50.27	46.48	45.98	45.88	42.43
1989	46.77	45.92	44.19	42.65	42.21	38.66
1990	43.69	42.81	41.12	39.92	39.35	36.19

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	154	143	113	90.26	83.76	70.45
0.0645161290322581	99.36	93.93	80.36	77.46	75.51	67.41
0.0967741935483871	86.12	84.12	80.25	68.26	67.01	61.04
0.129032258064516	83.37	78.49	71.78	64.03	59.77	54.36
0.161290322580645	80.23	76.35	65.82	60.87	59.62	52.11
0.193548387096774	79.25	75.31	65.14	60.4	59.44	51.49
0.225806451612903	77.5	75.25	64.29	60.06	58.11	49.29
0.258064516129032	76.96	74.33	63.8	56.89	54.89	48.61
0.290322580645161	73.6	69.3	63.5	55.57	53.04	48.38
0.32258064516129	71.65	67.77	62.19	54.15	52.97	47.67
0.354838709677419	71.02	64.83	59.65	54	52.9	47.14
0.387096774193548	70.09	64.06	59.07	53.97	52.56	46.6
0.419354838709677	67.46	63.75	57.25	53.8	51.41	46.45
0.451612903225806	65.1	61.18	55.71	52.1	50.51	45.62
0.483870967741936	62.78	59.89	54.78	52.07	50.31	45.52

0.516129032258065	61.42	58.19	53.46	50.24	49.85	45.07
0.548387096774194	59.31	57.7	52.25	50.01	49.25	44.9
0.580645161290323	59.01	56.06	50.75	49.02	49.08	44.74
0.612903225806452	58.86	55.5	50.64	48.79	48.23	43.62
0.645161290322581	57.56	54.97	49.98	48.04	45.92	42.43
0.67741935483871	56.71	54.86	48.59	45.98	45.88	40.89
0.709677419354839	56.4	54.81	47.58	42.87	42.24	38.93
0.741935483870968	55.92	53.35	46.48	42.65	42.21	38.66
0.774193548387097	54.82	51.94	46.41	42.19	40.69	37.01
0.806451612903226	52.77	51.84	44.48	41.65	39.58	36.19
0.838709677419355	52.63	50.79	44.32	39.92	39.35	34.44
0.870967741935484	51.75	50.27	44.19	38.88	37.42	33.09
0.903225806451613	46.77	45.92	41.12	35.52	35.15	32.41
0.935483870967742	43.69	42.81	39.25	35.32	32.48	17.33
0.967741935483871	23.83	22.31	16.38	8.325	5.85	1.759
0.1	85.845	83.557	79.403	67.837	66.286	60.372

Average of yearly averages: 43.7869666666667

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

Data used for this run:
Output File: BnsClry2
Metfile: w23234.dvf
PRZM scenario: CARowCrop.txt
EXAMS environment file: pond298.exv
Chemical Name: Bensulide

Description	Variable Name		Value	Units	Comments
Molecular weight	mwt		397.5	g/mol	
Henry's Law Const.	henry		7.7E-8	atm-m^3/mol	
Vapor Pressure	vapr		8.27E-7	torr	
Solubility	sol	56	mg/L		
Kd	Kd		mg/L		
Koc	Koc	2943	mg/L		
Photolysis half-life	kdp	200	days	Half-life	
Aerobic Aquatic Metabolism	kbacw	693	days	Halfife	
Anaerobic Aquatic Metabolism		kbacs	0	days	Halfife
Aerobic Soil Metabolism	asm	363	days	Halfife	
Hydrolysis:	pH 7	220	days	Half-life	
Method:	CAM	2	integer	See PRZM manual	
Incorporation Depth:	DEPI	0	cm		
Application Rate:	TAPP	10.08	kg/ha		
Application Efficiency:		APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond		
Application Date	Date	30-07	dd/mm or dd/mmm or dd-mm or dd-mmm		
Interval 1	interval	120	days	Set to 0 or delete line for single app.	

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

On Melon
stored as BnsMeln.out
Chemical: Bensulide
PRZM environment: CAMelons no_irrig.txt modified Monday, 16 April 2007 at 08:58:00
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w93193.dvf modified Wedday, 3 July 2002 at 10:04:24
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	11.15	10.13	7.422	4.554	3.309	1.325
1962	21.19	19.72	15.15	10.58	9.405	7.309
1963	21.38	19.89	17.68	14.5	13.92	11.93
1964	19.05	18.05	16.29	14.05	12.83	11.39
1965	18.09	17.38	15.45	14.12	14.28	12.86
1966	32.8	30.47	24.38	16.38	14.5	12.65
1967	21.53	20.87	19.04	17.91	17.47	15.96
1968	26.46	25.06	21.77	19.39	17.91	15
1969	44.53	41.86	35.87	30.43	28.27	23.12
1970	39.23	37.17	31.75	27.88	26.76	23.86
1971	27.79	27.26	25.79	24.36	23.82	22.34
1972	34.31	32.86	28.49	23.98	21.83	20.26
1973	25.43	24.85	23.3	22.01	21.72	20.2
1974	25.19	24.52	22.55	20.74	20.17	18.91
1975	21.55	20.99	19.42	18.04	17.81	16.78
1976	41.86	39.03	31.49	26.01	24.52	21.08
1977	29.32	28.12	24.02	21.3	20.9	19.91
1978	33.05	32.34	29.15	27	26.18	23.74
1979	25.29	24.72	23.22	22.49	22.12	20.29
1980	31.71	30.45	27.34	24.88	24.16	21.03
1981	30.45	29.1	25.86	22.88	22.05	19.53
1982	30.32	29.28	25.66	24.77	23.35	20.24
1983	37.43	35.84	33.08	29.38	28.02	24.9
1984	25.41	24.83	23.22	22.29	21.99	20.59
1985	22.64	22.08	20.51	19.45	19.15	18.23
1986	39.14	36.72	25.97	21.76	20.95	19.2

1987	32.08	31.08	27.59	24.24	23.44	21.36
1988	23.95	23.28	21.42	20.26	19.63	18.27
1989	24.53	23.71	21.47	19.43	19.13	17.9
1990	37.52	35.38	29.48	24.41	23.02	19.92

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	44.53	41.86	35.87	30.43	28.27	24.9
0.0645161290322581	41.86	39.03	33.08	29.38	28.02	23.86
0.0967741935483871	39.23	37.17	31.75	27.88	26.76	23.74
0.129032258064516	39.14	36.72	31.49	27	26.18	23.12
0.161290322580645	37.52	35.84	29.48	26.01	24.52	22.34
0.193548387096774	37.43	35.38	29.15	24.88	24.16	21.36
0.225806451612903	34.31	32.86	28.49	24.77	23.82	21.08
0.258064516129032	33.05	32.34	27.59	24.41	23.44	21.03
0.290322580645161	32.8	31.08	27.34	24.36	23.35	20.59
0.32258064516129	32.08	30.47	25.97	24.24	23.02	20.29
0.354838709677419	31.71	30.45	25.86	23.98	22.12	20.26
0.387096774193548	30.45	29.28	25.79	22.88	22.05	20.24
0.419354838709677	30.32	29.1	25.66	22.49	21.99	20.2
0.451612903225806	29.32	28.12	24.38	22.29	21.83	19.92
0.483870967741936	27.79	27.26	24.02	22.01	21.72	19.91
0.516129032258065	26.46	25.06	23.3	21.76	20.95	19.53
0.548387096774194	25.43	24.85	23.22	21.3	20.9	19.2
0.580645161290323	25.41	24.83	23.22	20.74	20.17	18.91
0.612903225806452	25.29	24.72	22.55	20.26	19.63	18.27
0.645161290322581	25.19	24.52	21.77	19.45	19.15	18.23
0.67741935483871	24.53	23.71	21.47	19.43	19.13	17.9
0.709677419354839	23.95	23.28	21.42	19.39	17.91	16.78
0.741935483870968	22.64	22.08	20.51	18.04	17.81	15.96
0.774193548387097	21.55	20.99	19.42	17.91	17.47	15
0.806451612903226	21.53	20.87	19.04	16.38	14.5	12.86
0.838709677419355	21.38	19.89	17.68	14.5	14.28	12.65
0.870967741935484	21.19	19.72	16.29	14.12	13.92	11.93
0.903225806451613	19.05	18.05	15.45	14.05	12.83	11.39
0.935483870967742	18.09	17.38	15.15	10.58	9.405	7.309
0.967741935483871	11.15	10.13	7.422	4.554	3.309	1.325

0.1	39.221	37.125	31.724	27.792	26.702	23.678

Average of yearly averages: 18.0028

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

Data used for this run:
Output File: BnsMeln
Metfile: w93193.dvf

PRZM scenario: CAMelons no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name: Bensulide

Description	Variable Name		Value	Units	Comments
Molecular weight	mwt	397.5	g/mol		
Henry's Law Const.	henry	7.7E-8	atm-m^3/mol		
Vapor Pressure	vapr	8.27E-7	torr		
Solubility	sol	56	mg/L		
Kd	Kd		mg/L		
Koc	Koc	2943	mg/L		
Photolysis half-life	kdp	200	days	Half-life	
Aerobic Aquatic Metabolism	kbacw	693	days	Halfife	
Anaerobic Aquatic Metabolism	kbacs	0	days	Halfife	
Aerobic Soil Metabolism	asm	363	days	Halfife	
Hydrolysis:	pH 7	220	days	Half-life	
Method:	CAM	2	integer	See PRZM manual	
Incorporation Depth:	DEPI	0	cm		
Application Rate:	TAPP	10.08	kg/ha		
Application Efficiency:	APPEFF	0.99	fraction		
Spray Drift	DRFT	0.01	fraction of application rate applied to pond		
Application Date	Date	09-05	dd/mm or dd/mmm or dd-mm or dd-mmm		
Record 17:	FILTRA				
	IPSCND	1			
	UPTKF				
Record 18:	PLVKRT				
	PLDKRT				
	FEXTRC	0.5			
Flag for Index Res. Run	IR	Pond			
Flag for runoff calc.	RUNOFF	none	none, monthly or total(average of entire run)		

On garlic

stored as BnsGarlc.out
Chemical: Bensulide
PRZM environment: CAGarlic no_irrig.txt modified Monday, 16 April 2007 at 08:58:10
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w23188.dvf modified Wedday, 3 July 2002 at 10:04:22
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	4.54	4.119	2.975	1.615	1.469	0.4126
1962	9.304	8.502	6.483	5.26	4.661	3.54
1963	18.8	17.22	12.92	8.474	7.127	4.499

1964	8.892	8.633	7.869	7.212	7.015	6.406
1965	43.93	40.79	34.24	26.24	20.03	10.5
1966	30.72	29.24	25.33	20.99	20.3	18.62
1967	32.76	31.09	27.13	22.5	20.69	19.05
1968	23.25	22.78	21.44	20.18	20.34	18.44
1969	39.69	37.19	32.08	28.04	26.16	21.21
1970	27.11	26.51	24.22	21.36	20.5	18.73
1971	22.79	22.03	19.94	19.16	18.95	17.68
1972	28.77	27.35	23.78	20.15	18.39	16.51
1973	18.07	17.95	17.64	17.23	17.14	15.69
1974	23.88	22.75	19.62	17.09	16.64	15.08
1975	22.71	22.02	20.4	18.38	17.57	15.51
1976	36.17	33.81	28.25	22.49	20.93	17.06
1977	27.08	25.79	22.25	19.22	18.32	16.93
1978	42.2	40.16	33.11	26.5	24.87	20.45
1979	33.37	31.88	27.77	24.91	23.94	20.6
1980	36.23	34.35	29.44	27.5	26.07	21.97
1981	34.43	32.78	29.43	25.06	23.68	20.88
1982	34.38	32.83	28.59	24.93	23.78	21.38
1983	28.46	27.76	25.32	23.99	23.22	20.41
1984	27.8	26.47	20.7	17.69	17.48	16.4
1985	49.84	46.28	37.77	28.57	24.06	18.24
1986	30.24	29.22	26.42	25.14	24.61	23.06
1987	26.51	25.72	23.27	22.52	22.22	20.8
1988	27.17	26.32	24.07	21.94	21.23	20.22
1989	19.94	19.78	19.29	18.72	18.45	16.8
1990	19.68	19.36	18.24	17.36	16.84	14.88

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	49.84	46.28	37.77	28.57	26.16	23.06
0.0645161290322581	43.93	40.79	34.24	28.04	26.07	21.97
0.0967741935483871	42.2	40.16	33.11	27.5	24.87	21.38
0.129032258064516	39.69	37.19	32.08	26.5	24.61	21.21
0.161290322580645	36.23	34.35	29.44	26.24	24.06	20.88
0.193548387096774	36.17	33.81	29.43	25.14	23.94	20.8
0.225806451612903	34.43	32.83	28.59	25.06	23.78	20.6
0.258064516129032	34.38	32.78	28.25	24.93	23.68	20.45
0.290322580645161	33.37	31.88	27.77	24.91	23.22	20.41
0.32258064516129	32.76	31.09	27.13	23.99	22.22	20.22
0.354838709677419	30.72	29.24	26.42	22.52	21.23	19.05
0.387096774193548	30.24	29.22	25.33	22.5	20.93	18.73
0.419354838709677	28.77	27.76	25.32	22.49	20.69	18.62
0.451612903225806	28.46	27.35	24.22	21.94	20.5	18.44
0.483870967741936	27.8	26.51	24.07	21.36	20.34	18.24
0.516129032258065	27.17	26.47	23.78	20.99	20.3	17.68

0.548387096774194	27.11	26.32	23.27	20.18	20.03	17.06
0.580645161290323	27.08	25.79	22.25	20.15	18.95	16.93
0.612903225806452	26.51	25.72	21.44	19.22	18.45	16.8
0.645161290322581	23.88	22.78	20.7	19.16	18.39	16.51
0.67741935483871	23.25	22.75	20.4	18.72	18.32	16.4
0.709677419354839	22.79	22.03	19.94	18.38	17.57	15.69
0.741935483870968	22.71	22.02	19.62	17.69	17.48	15.51
0.774193548387097	19.94	19.78	19.29	17.36	17.14	15.08
0.806451612903226	19.68	19.36	18.24	17.23	16.84	14.88
0.838709677419355	18.8	17.95	17.64	17.09	16.64	10.5
0.870967741935484	18.07	17.22	12.92	8.474	7.127	6.406
0.903225806451613	9.304	8.633	7.869	7.212	7.015	4.499
0.935483870967742	8.892	8.502	6.483	5.26	4.661	3.54
0.967741935483871	4.54	4.119	2.975	1.615	1.469	0.4126
0.1	41.949	39.863	33.007	27.4	24.844	21.363

Average of yearly averages: 16.3985866666667

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

Data used for this run:
Output File: BnsGarlc
Metfile: w23188.dvf
PRZM scenario: CAGarlic no_irrig.txt
EXAMS environment file: pond298.exv
Chemical Name: Bensulide

Description	Variable Name		Value	Units	Comments
Molecular weight	mwt	397.5	g/mol		
Henry's Law Const.	henry	7.7E-8	atm-m^3/mol		
Vapor Pressure	vapr	8.27E-7	torr		
Solubility	sol	56	mg/L		
Kd	Kd		mg/L		
Koc	Koc	2943	mg/L		
Photolysis half-life	kdp	200	days	Half-life	
Aerobic Aquatic Metabolism	kbacw	693	days	Halfife	
Anaerobic Aquatic Metabolism	kbacs	0	days	Halfife	
Aerobic Soil Metabolism	asm	363	days	Halfife	
Hydrolysis:	pH 7	220	days	Half-life	
Method:	CAM	2	integer	See PRZM manual	
Incorporation Depth:	DEPI	0	cm		
Application Rate:	TAPP	6,72	kg/ha		
Application Efficiency:		APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond		
Application Date	Date	23-09	dd/mm or dd/mmm or dd-mm or dd-mmm		
Record 17:	FILTRA				
	IPSCND	1			

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

On tomato

stored as Bnstmto.out
Chemical: Bensulide
PRZM environment: CAtomato_NirrigC.txt modified Tuesday, 8 June 2004 at 11:42:50
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w93193.dvf modified Wedday, 3 July 2002 at 10:04:24
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	8.888	8.105	6.08	3.848	2.851	1.428
1962	17.53	16.46	13.88	10.69	9.432	6.659
1963	20.39	19.51	18.09	16.73	16.04	13.21
1964	17.32	16.61	15.63	14.03	13.23	12.44
1965	34.82	32.48	26.26	21.59	19.97	16.25
1966	32.29	30.27	24.97	18.17	16.45	15.26
1967	32.62	31.52	27.54	24.39	23.42	20.24
1968	26.24	25.22	22.98	21.34	20.32	18.74
1969	47.88	45.23	38.54	35.13	34.02	28.05
1970	46.84	45.19	39.85	34.33	33.1	28.89
1971	32.76	32.06	30.08	28.78	28.49	26.46
1972	35.1	34.07	30.26	26.47	25.14	23.58
1973	34.73	33.75	30.71	29.25	28.18	24.65
1974	28.23	27.58	25.94	24.89	24.75	22.48
1975	25.18	24.61	23.2	21.77	21.54	19.44
1976	36.48	34.42	29.69	25.84	24.2	21.38
1977	27.27	26.25	23.3	21.92	21.8	19.84
1978	40.37	38.5	34.71	32.93	32.21	27.38
1979	30.1	29.64	27.91	26.21	25.98	23.07
1980	36.33	34.89	32.19	29.07	27.55	23.46
1981	29.27	28.25	25.99	25.42	24.89	21.5
1982	29.78	28.8	27.11	25.18	24.18	22.26
1983	42.81	40.96	36.55	33.44	33.31	29.26
1984	30.35	29.76	28.1	26.61	26.42	23.89
1985	26.6	26.01	24.4	22.95	22.76	20.98
1986	38.77	37.04	33.17	29.95	28.48	24
1987	30.96	30.31	28.29	26.46	26.5	23.54

1988	33.24	32.06	28.64	25.51	25.05	22.18
1989	30.47	29.51	26.84	25.74	24.87	22.01
1990	32.59	31.34	27.86	24.75	24.02	22.27

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	47.88	45.23	39.85	35.13	34.02	29.26
0.0645161290322581	46.84	45.19	38.54	34.33	33.31	28.89
0.0967741935483871	42.81	40.96	36.55	33.44	33.1	28.05
0.129032258064516	40.37	38.5	34.71	32.93	32.21	27.38
0.161290322580645	38.77	37.04	33.17	29.95	28.49	26.46
0.193548387096774	36.48	34.89	32.19	29.25	28.48	24.65
0.225806451612903	36.33	34.42	30.71	29.07	28.18	24
0.258064516129032	35.1	34.07	30.26	28.78	27.55	23.89
0.290322580645161	34.82	33.75	30.08	26.61	26.5	23.58
0.32258064516129	34.73	32.48	29.69	26.47	26.42	23.54
0.354838709677419	33.24	32.06	28.64	26.46	25.98	23.46
0.387096774193548	32.76	32.06	28.29	26.21	25.14	23.07
0.419354838709677	32.62	31.52	28.1	25.84	25.05	22.48
0.451612903225806	32.59	31.34	27.91	25.74	24.89	22.27
0.483870967741936	32.29	30.31	27.86	25.51	24.87	22.26
0.516129032258065	30.96	30.27	27.54	25.42	24.75	22.18
0.548387096774194	30.47	29.76	27.11	25.18	24.2	22.01
0.580645161290323	30.35	29.64	26.84	24.89	24.18	21.5
0.612903225806452	30.1	29.51	26.26	24.75	24.02	21.38
0.645161290322581	29.78	28.8	25.99	24.39	23.42	20.98
0.67741935483871	29.27	28.25	25.94	22.95	22.76	20.24
0.709677419354839	28.23	27.58	24.97	21.92	21.8	19.84
0.741935483870968	27.27	26.25	24.4	21.77	21.54	19.44
0.774193548387097	26.6	26.01	23.3	21.59	20.32	18.74
0.806451612903226	26.24	25.22	23.2	21.34	19.97	16.25
0.838709677419355	25.18	24.61	22.98	18.17	16.45	15.26
0.870967741935484	20.39	19.51	18.09	16.73	16.04	13.21
0.903225806451613	17.53	16.61	15.63	14.03	13.23	12.44
0.935483870967742	17.32	16.46	13.88	10.69	9.432	6.659
0.967741935483871	8.888	8.105	6.08	3.848	2.851	1.428
0.1	42.566	40.714	36.366	33.389	33.011	27.983

Average of yearly averages: 20.8265666666667

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

Data used for this run:
Output File: Bnstmto
Metfile: w93193.dvf
PRZM scenario: CAtomato_NirrigC.txt

EXAMS environment file: pond298.exv
Chemical Name: Bensulide

Description	Variable Name		Value	Units	Comments
Molecular weight	mwt	397.5	g/mol		
Henry's Law Const.	henry	7.7E-8	atm-m^3/mol		
Vapor Pressure	vapr	8.27E-7	torr		
Solubility	sol	56	mg/L		
Kd	Kd		mg/L		
Koc	Koc	2943	mg/L		
Photolysis half-life	kdp	200	days	Half-life	
Aerobic Aquatic Metabolism	kbacw	693	days	Halfife	
Anaerobic Aquatic Metabolism		kbacs	0	days	Halfife
Aerobic Soil Metabolism	asm	363	days	Halfife	
Hydrolysis:	pH 7	220	days	Half-life	
Method:	CAM	2	integer	See PRZM manual	
Incorporation Depth:	DEPI	0	cm		
Application Rate:	TAPP	10.08	kg/ha		
Application Efficiency:		APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond		
Application Date	Date	26-02	dd/mm or dd/mmm or dd-mm or dd-mmm		
Record 17:	FILTRA				
	IPSCND	1			
	UPTKF				
Record 18:	PLVKRT				
	PLDKRT				
	FEXTRC	0.5			
Flag for Index Res. Run		IR	Pond		
Flag for runoff calc.	RUNOFF		none	none, monthly or total(average of entire run)	

<u>On onion</u>

stored as BensOnin.out
Chemical: Bensulide
PRZM environment: CAonion_NirrigC.txt modified Tuesday, 8 June 2004 at 11:01:56
EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
Metfile: w23155.dvf modified Wedday, 3 July 2002 at 10:04:20
Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	3.336	2.971	2.023	1.24	1.031	0.6796
1962	10.57	9.658	8.062	5.828	5.067	3.474
1963	10.15	9.43	7.477	6.032	5.605	4.622
1964	7.396	7.039	6.057	5.209	4.954	4.211
1965	7.339	6.95	5.878	4.953	4.896	4.339

1966	9.743	9.138	7.545	6.904	6.485	5.419
1967	8.922	8.514	7.596	6.909	6.558	5.726
1968	8.718	8.34	7.301	6.393	6.16	5.405
1969	8.147	7.788	6.84	6.218	6.104	5.303
1970	8.321	7.883	7.121	6.07	5.827	5.119
1971	8.748	8.346	7.24	6.281	5.991	5.397
1972	8.485	8.083	6.981	6.023	5.735	5.415
1973	11.64	10.99	9.213	7.967	7.618	6.287
1974	11.99	11.28	9.359	8.086	8.173	6.67
1975	10.78	10.37	9.264	8.571	8.248	7.033
1976	9.283	8.924	7.934	7.242	6.965	6.018
1977	11.55	10.87	9.042	7.501	7.058	6.32
1978	46.95	42.83	32.36	22.7	20.04	14.31
1979	15.68	15.28	14.65	13.49	13.06	11.28
1980	13.5	13.22	12.64	11.52	11.15	9.557
1981	11.44	11.08	10.08	9.44	9.145	8.024
1982	10.35	9.989	8.995	8.113	7.932	7.138
1983	13.78	13.06	11.09	9.654	9.231	8.112
1984	11.43	10.99	9.801	8.763	8.431	7.262
1985	9.994	9.61	8.541	7.583	7.285	6.447
1986	9.488	9.114	8.082	7.174	6.939	5.98
1987	22.38	21.15	16.42	12.12	10.93	8.651
1988	11.36	10.97	9.906	8.95	8.64	7.452
1989	9.671	9.308	8.309	7.661	7.373	6.287
1990	8.653	8.294	7.305	6.44	6.168	5.231

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	46.95	42.83	32.36	22.7	20.04	14.31
0.0645161290322581	22.38	21.15	16.42	13.49	13.06	11.28
0.0967741935483871	15.68	15.28	14.65	12.12	11.15	9.557
0.129032258064516	13.78	13.22	12.64	11.52	10.93	8.651
0.161290322580645	13.5	13.06	11.09	9.654	9.231	8.112
0.193548387096774	11.99	11.28	10.08	9.44	9.145	8.024
0.225806451612903	11.64	11.08	9.906	8.95	8.64	7.452
0.258064516129032	11.55	10.99	9.801	8.763	8.431	7.262
0.290322580645161	11.44	10.99	9.359	8.571	8.248	7.138
0.32258064516129	11.43	10.97	9.264	8.113	8.173	7.033
0.354838709677419	11.36	10.87	9.213	8.086	7.932	6.67
0.387096774193548	10.78	10.37	9.042	7.967	7.618	6.447
0.419354838709677	10.57	9.989	8.995	7.661	7.373	6.32
0.451612903225806	10.35	9.658	8.541	7.583	7.285	6.287
0.483870967741936	10.15	9.61	8.309	7.501	7.058	6.287
0.516129032258065	9.994	9.43	8.082	7.242	6.965	6.018
0.548387096774194	9.743	9.308	8.062	7.174	6.939	5.98
0.580645161290323	9.671	9.138	7.934	6.909	6.558	5.726

0.612903225806452	9.488	9.114	7.596	6.904	6.485	5.419
0.645161290322581	9.283	8.924	7.545	6.44	6.168	5.415
0.67741935483871	8.922	8.514	7.477	6.393	6.16	5.405
0.709677419354839	8.748	8.346	7.305	6.281	6.104	5.397
0.741935483870968	8.718	8.34	7.301	6.218	5.991	5.303
0.774193548387097	8.653	8.294	7.24	6.07	5.827	5.231
0.806451612903226	8.485	8.083	7.121	6.032	5.735	5.119
0.838709677419355	8.321	7.883	6.981	6.023	5.605	4.622
0.870967741935484	8.147	7.788	6.84	5.828	5.067	4.339
0.903225806451613	7.396	7.039	6.057	5.209	4.954	4.211
0.935483870967742	7.339	6.95	5.878	4.953	4.896	3.474
0.967741935483871	3.336	2.971	2.023	1.24	1.031	0.6796
0.1	15.49	15.074	14.449	12.06	11.128	9.4664

Average of yearly averages: 6.43895333333333

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

Data used for this run:
Output File: BensOnin
Metfile: w23155.dvf
PRZM scenario: CAonion_NirrigC.txt
EXAMS environment file: pond298.exv
Chemical Name: Bensulide

Description	Variable Name		Value	Units	Comments
Molecular weight	mwt		397.5	g/mol	
Henry's Law Const.	henry		7.7E-8	atm-m^3/mol	
Vapor Pressure	vapr		8.27E-7	torr	
Solubility	sol		56	mg/L	
Kd	Kd		Kd	mg/L	
Koc	Koc	2943		mg/L	
Photolysis half-life	kdp		200	days	Half-life
Aerobic Aquatic Metabolism	kbacw		693	days	Halfife
Anaerobic Aquatic Metabolism	kbacs		0	days	Halfife
Aerobic Soil Metabolism	asm		363	days	Halfife
Hydrolysis:	pH 7	220	days	Half-life	
Method:	CAM	1	integer	See PRZM manual	
Incorporation Depth:	DEPI	0	cm		
Application Rate:	TAPP	6.72	kg/ha		
Application Efficiency:	APPEFF	0.99	fraction		
Spray Drift	DRFT	0.01	fraction of application rate applied to pond		
Application Date	Date	04-01	dd/mm or dd/mmm or dd-mm or dd-mmm		

Record 17: FILTRA
IPSCND 1
UPTKF
Record 18: PLVKRT

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