



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JUL 22 1983

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

TO: Richard Balcomb
Wildlife Biologist
Ecological Effects Branch
Hazard Evaluation Division (TS-769)

SUBJECT: Estimated Environmental Concentrations (EEC) for
Dyfonate (fonofos) by the SWRRB, EXAM 50, and EXAM
Pulse Models

THRU: Carolyn K. Offutt, Chief *Carolyn K. Offutt*
Environmental Processes and Guidelines Section
Environmental Assessment Branch (TS-769)

Your December 27, 1982, memo to Dr. David Severn requested that the Environmental Assessment Branch estimate aquatic concentrations of fonofos in a small pond adjacent to a cornfield and a flowing stream draining a corn-growing area.

As per our discussion, you agreed that EEC's using models could not be provided in time due to lack of pertinent data, specifically partition coefficient (K_{ow}). I received the octanol/water partition coefficient from the registrant on February 18, 1983.

On March 14, 1983, we completed the estimation of environmental concentrations in a small pond using the SWRRB, EXAMS 50, and EXAMS pulse model; however, the results were not officially transmitted to you because (a) we did not complete the EEC's for the Lotic (river) environment and (b) questions were raised about the effect of soil incorporation of pesticides, including fonofos, on runoff and aquatic concentrations. In addition, we also reevaluated the chemical and environmental parameters used in the EXAMS models after receiving comments and suggestions from Jim Falco in ORD's exposure assessment group regarding our EEC memo on Terbufos dated December 10, 1982, using the EXAMS pulse model. Jim Falco's comments were in response to our request for review of the Terbufos EEC. We have now incorporated the following revisions to our former estimated environmental concentrations for fonofos.

We have modified the application rate to evaluate soil incorporated fonofos for runoff in the SWRRB model and subsequently used the runoff data for estimation of environmental concentrations in lentic (a small pond) and lotic (a small flowing river) environments by EXAMS 50 and EXAMS pulse models.

The daily runoff was estimated by the SWRRB model in the basin Coshocton, Ohio (COSH 115) for corn crop grown in three consecutive years (1968, 1969, 1970). The maximum application rate of granular Dyfonate 20G (fonofos) of 1.3 lbs a.i./A, which is typically applied at planting of corn was suggested in your memo of December 27, 1982. We understand from Dr. E. David Thomas, ASIB/BUD, that the maximum application rate of granular fonofos (Dyfonate 20-G) allowed on corn is 1.2 oz. a.i./1,000 linear feet of row with 7" band treatment over the row. If the rows are spaced 30" apart, the minimum specified in the label directions for corn, then the maximum application rate is 1.3 lbs a.i./A. Based on the soil incorporated data of granular insecticide published by Erback and Tollefson, approximately 15% of the applied granular fonofos should then residue on the surface of the soil. If one assumes that the remainder 85% will be incorporated uniformly in the top 2.54 cm of the soil at planting time, then the top 1 cm will contain ca 50% of the originally applied fonofos (15% on the surface + ca 35% in the top 1 cm of the soil), which is equivalent to 0.66 lb a.i./A (50% of 1.3 lbs a.i./A).

One application in early May of this maximum application rate of granular fonofos (0.66 lb a.i./A) was used to estimate the daily runoff values (details of the application date are in Attachments). The daily runoff values were estimated by the SWRRB model in the years 1968, 1969, and 1970 for COSH 115. The frequency of the daily runoff estimated by the SWRRB model in the basin (COSH 115) is between 0.001 to 0.008 lb a.i./A for one to five days per year, when measurable runoff occurred. (See attached Table 1).

The typical, moderate and worst daily runoff values for the basin COSH 115 in the three-year period estimated by SWRRB/model to be 0.001 lb/A, 0.002 lb/A, and 0.008 lb/A, respectively. These values (lb/A) were converted to EXAMS input load parameters and are equivalent to 4.6×10^{-5} kg/hectare/hr, 9.2×10^{-5} kg/hectare/hr and 3.8×10^{-4} kg/hectare/hr, respectively. These converted EXAMS load parameters were used in the EXAMS 50 steady-state version (Exposure Analysis Modeling System) for the calculation of environmental concentrations of fonofos. The results of the EXAMS 50 - for the estimation of environmental concentrations in the water column and the benthic sediment and for the calculation of dissipation time of fonofos in the aquatic environments of a

pond whose drainage area is 15 hectares and a small flowing river adjacent to a corn field - are summarized in Table 2 and 3.

Under the steady state assumption of EXAMS 50 model, the maximum concentrations in the water and in the sediment is a linear function to the amount of input load as runoff to the pond or the river adjacent to the corn field. In the typical, moderate, and worst load cases, the maximum concentrations in the water column are 0.71 ppb, 1.4 ppb, and 5.9 ppb (for pond) and 0.05 ppt, 0.091 ppt, and 0.38 ppt (for river), respectively. The maximum concentration in the sediment deposits on a dry weight basis are also similar. The recovery time (2 half-lives or 75% removal) is 216 days (for pond) 12 hours (for river) and the self-purification (5 half-lives or 97% removal) is 25 months (for pond) and 67 days (for river) in all three cases of the input load.

The EXAMS-V2.0: Mode 2 (Exposure Analysis Modeling System) pulse version was used for the estimation of the environmental concentrations of fonofos in the water column and in the benthic sediment of a pond or a river. The model was run using fonofos application in Coshocton, Ohio in 1969. The results are shown in Table and graph forms (attached) for your information.

Under the given assumptions, the maximum concentration of fonofos expected on a short-time basis in a year as a result of runoff would be as follows:

(a) no higher than around 0.45 ppb dissolved in the water column and around 5 ppb adsorbed to the sediments in the pond whose drainage area is 15 hectares. The concentration of fonofos in the water column will decline rapidly to 0.03 ppb in 5-7 days and the concentration adsorbed to the sediments would decline slowly to around 4.8 ppb in 20 days.

(b) no higher than around 10 ppt dissolved in the water column and around 4 ppt adsorbed to the sediments in the flowing small river. The concentration of fonofos in the water column will decline rapidly to 0.00009 ppt in 1 or 2 days and the concentration adsorbed to the sediments would decline slowly to around 1.6 ppt in 25 days.

I understand that the estimated runoff data from the SWRRB model and estimated environmental concentrations (EEC's) from the EXAMS pulse model version 2.0 Mode 2 will be used as a part of the fonofos Registration Standard. We consider that the model predictions using the pulse loadings more realistically represent environmental circumstances than the steady state loadings.

If you have any questions, please contact me or Carolyn Offutt at 557-7347.

1/18/77
P.R Datta
Exposure Assessment Branch
Hazard Evaluation Division (TS-769)

Shaugh. No. 041701

EFB Log Out Date: _____

Init.: 22 88

To: Balcomb/Craven
Product Manager # 17
Registration Division (TS-767)

From: Carolyn K. Offutt *Carolyn K. Offutt*
Head, Environmental Processes and Guidelines Section
Exposure Assessment Branch, HED (TS-769)

Attached, please find the estimated environmental concentration review of:

Reg./File No.: _____

Chemical: Fonofos

Type Product: Insecticide

Product Name: Dyfonate

Company Name: Stauffer Chemical Company

Submission Purposes: EEC's

ZBB Code: _____

Action Code: _____

Date In: _____

EFB#: _____

Date Completed: _____

TAIS (Level II) Days

42

Deferrals To:

_____ Ecological Effects Branch

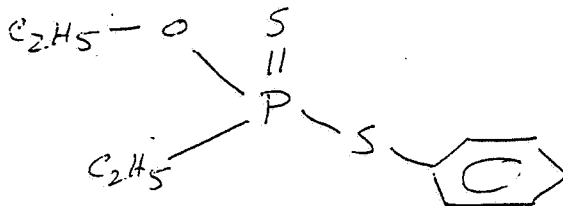
_____ Residue Chemistry Branch

_____ Toxicology Branch

Common Name: Fonofos (Dyfonate)

Chemical Name: O-Ethyl-S-phenylethylphosphonodithioate

Structure:



Chemical Properties:

Molecular Weight: 246.3 Solubility (ppm): 13 @ 20°C

Partitioning: $K_d = K_{abs} = K_{ps}$ 30 Soil Type 1.0 %OC

K_{ow} 8000 (8×10^3)

K_{oc} 3162

Hydrolysis (half-life hrs.)

(909d) (74d, Phos. buf.)
 (pH 4) 21,816 hr (pH 7) 1,776 hr (pH 9) 384 (16 d) hr
 K 3.18×10^{-5} K_{ah} 0 K 3.9×10^{-4} K_{nh} 3.9×10^{-4} K 1.8×10^{-3} K_{ph} 220

Photolysis (half-life hrs.) None

Water hr K_{dp} Soil hr K

Vapor Pressure: 0.21u @ 25°C Evaporation:

Degradation (half-life hrs.) 504 hrs

Soil (Aerobic) ($t_{1/2} > 3 - 16$ weeks) 2,688 hr K 2.6×10^{-4}
674 K 1.03×10^{-3}
 Soil (Field) ($t_{1/2} = 28 - 40$ days) 960 hr K 7.2×10^{-4}

Water (Type) hr K

Bacteriological

Soil (Type Field) 674 hr K BACW₁
" w₂ } 1.03×10^{-8}
 Water (Type) hr K " w₂

SWRRB - TEST FONOFUS ON COSH115

PESTICIDE PARAMETERS

PESTICIDE TITLE = FONOFUS

KD = 30.0

WASH OFF FRACTION = 1.00

HALF LIFE = 1.0 D

DECAY CONSTANT = 0.02400

APPL EFF = 0.60

INITIAL PESTICIDE ON FOLIAGE (LB/AC)

0.0

INITIAL PESTICIDE ON GROUND (LB/AC)

0.0

ENRICHMENT RATIOS FOR PESTICIDE

1.50

PESTICIDE APPLICATIONS

YEAR	DAY	LB/AC
1968	122	0.660
1969	121	0.660
1970	121	0.660

Table 1
 Basin: COSH 115
 Chemical: Fonofos
 Application Rate = 0.66 lb a.i/A.

Daily Runoff value in lb a.i /A.

Year	Julian Day	Daily Runoff	Total Annual Runoff
68	132	0.001	.
	148	0.001	0.003
69	128	0.001	0.012
	174	0.001	
	186	0.008	
	188	0.002	
	208	0.001	
70	133	0.001	0.002

Three years total annual average runoff = 0.005 lb a.i/A.

*Based on 50% of 1.3 lb a.i./A; the maximum application rate calculated for soil incorporated granular fonofos (Dyfonate 20 G) typically applied at planting time of corn is 6 oz of 20G./1,000 linear feet of row with 7 inch band treatment over the rows which are spaced 30' apart minimum specified in the label directions for corn.

Compound characteristics for > FONOFOS PRD 7/6/83.
AERL-ESB MODEL OF FATE OF ORGANIC TOXICANTS IN AQUATIC ECOSYSTEMS
CHEMICAL: FONOFOS PRD 7/6/83.
ECOSYSTEM: Unspecified Environment used for Pond and River.

CHEMICAL: FONOPOS PRD 7/6/83.

CHEMICAL: FOMOFOS PRD 1/8/85.
ECOSYSTEM: Unspecified Environment used for Pond and River.

[illegible]

Table 2

Exposure Analysis Modeling System (EXAMS50) for Three Different
Runoff Loads To a Small Pond* Adjacent to Corn Field

Parameters	Typical 4.6×10^{-5} kg/hectar/hr	Moderate 9.2×10^{-5} kg/hectar/hr	Worst 3.8×10^{-4} kg/hectar/hr
Maximum conc in water	7.1×10^{-4} mg/l	1.4×10^{-3} mg/l	5.9×10^{-3} mg/l
Maximum conc in sediment deposit (dry wt)	0.23 mg/kg	0.34 mg/kg	1.9 mg/kg
Total Steady State Accumulation	0.17 kg	.34 kg	1.4 kg
Recovery	216 days	216 days	216 days
Self purification	25 months	25 months	25 months

*Small pond whose drainage area is 15 hectares

EXAM50. Mode-1

AERL-ESB MODEL OF FATE OF ORGANIC TOXICANTS IN AQUATIC ECOSYSTEMS
CHEMICAL: FONOPOS PRD 7/6/83. Load 4.6×10^{-5} kg/hr.
ECOSYSTEM: POND, AERL DEVELOPMENT PHASE TEST DEFINITION

TABLE 17. EXPOSURE ANALYSIS SUMMARY.

EXPOSURE:

- A. MAXIMUM CONC. IN WATER COLUMN: 7.1×10^{-4} MG/L DISSOLVED, 7.2×10^{-4} TOT
MAX. CONC. IN BOTTOM SEDIMENT: 7.0×10^{-4} MG/L DISSOLVED IN PORE WATER
B. BIOSORPTION - MAX. CONCENTRATION - PLANKTON: .0 UG/G
BENTHOS: .0 UG/G
C. MAXIMUM TOT. CONC. IN SEDIMENT DEPOSITS: .23 MG/KG (DRY WEIGHT)

FATE:

- A. TOTAL STEADY-STATE ACCUMULATION: .17 KG; 8.45% IN WATER COL.,
91.55% IN BOTTOM SEDIMENTS.
B. TOTAL LOAD: 1.1×10^{-3} KG/DAY - DISPOSITION: 19.05% VIA CHEMICAL
TRANSFORMATIONS, 32.23% BIOTRANSFORMED, 7.06% VOLATILIZED,
41.67% EXPORTED VIA OTHER PATHWAYS.

PERSISTENCE:

- A. AT THE END OF A 216. DAY RECOVERY PERIOD, THE WATER COLUMN HAD
LOST 73.99% OF ITS INITIAL TOXICANT BURDEN; THE SEDIMENTS HAD
LOST 61.14% OF THEIR INITIAL BURDEN (62.22% REMOVAL OVERALL).
B. SYSTEM SELF-PURIFICATION TIME IS ROUGHLY 25. MONTHS.

AERL-ESB MODEL OF FATE OF ORGANIC TOXICANTS IN AQUATIC ECOSYSTEMS
CHEMICAL: FONOFOS PRD 2/23/83. Load 9.2×10^{-5}
ECOSYSTEM: POND, AERL DEVELOPMENT PHASE TEST DEFINITION

TABLE 17. EXPOSURE ANALYSIS SUMMARY.

EXPOSURE:

- A. MAXIMUM CONC. IN WATER COLUMN: 1.4×10^{-3} MG/L DISSOLVED, 1.4×10^{-3} TOT
MAX. CONC. IN BOTTOM SEDIMENT: 1.4×10^{-3} MG/L DISSOLVED IN PORE WATER
B. BIOSORPTION - MAX. CONCENTRATION - PLANKTON: .0 UG/G
BENTHOS: .0 UG/G
C. MAXIMUM TOT. CONC. IN SEDIMENT DEPOSITS: .46 MG/KG (DRY WEIGHT)

FATE:

- A. TOTAL STEADY-STATE ACCUMULATION: .34 KG; 8.45% IN WATER COL.,
91.55% IN BOTTOM SEDIMENTS.
B. TOTAL LOAD: 2.2×10^{-3} KG/DAY - DISPOSITION: 19.05% VIA CHEMICAL
TRANSFORMATIONS, 32.23% BIOTRANSFORMED, 7.06% VOLATILIZED,
41.67% EXPORTED VIA OTHER PATHWAYS.

PERSISTENCE:

- A. AT THE END OF A 216. DAY RECOVERY PERIOD, THE WATER COLUMN HAD
LOST 73.99% OF ITS INITIAL TOXICANT BURDEN; THE SEDIMENTS HAD
LOST 61.14% OF THEIR INITIAL BURDEN (62.22% REMOVAL OVERALL).
B. SYSTEM SELF-PURIFICATION TIME IS ROUGHLY 25. MONTHS.

Exams50.Mode-1

AERL-ESB MODEL OF FATE OF ORGANIC TOXICANTS IN AQUATIC ECOSYSTEMS
CHEMICAL: FONOFOS PRD 7/6/83. Load 3.8×10^{-4} kg/hr
ECOSYSTEM: POND, AERL DEVELOPMENT PHASE TEST DEFINITION

TABLE 17. EXPOSURE ANALYSIS SUMMARY.

EXPOSURE:

- A. MAXIMUM CONC. IN WATER COLUMN: 5.9×10^{-3} MG/L DISSOLVED, 5.9×10^{-3} TOT
MAX. CONC. IN BOTTOM SEDIMENT: 5.8×10^{-3} MG/L DISSOLVED IN PORE WATER
B. BIOSORPTION - MAX. CONCENTRATION - PLANKTON: .0 UG/G
BENTHOS: .0 UG/G
C. MAXIMUM TOT. CONC. IN SEDIMENT DEPOSITS: 1.9 MG/KG (DRY WEIGHT)

FATE:

- A. TOTAL STEADY-STATE ACCUMULATION: 1.4 KG; 8.45% IN WATER COL.,
91.55% IN BOTTOM SEDIMENTS.
B. TOTAL LOAD: 9.1×10^{-3} KG/DAY - DISPOSITION: 19.05% VIA CHEMICAL
TRANSFORMATIONS, 32.23% BIOTRANSFORMED, 7.06% VOLATILIZED,
41.67% EXPORTED VIA OTHER PATHWAYS.

PERSISTENCE:

- A. AT THE END OF A 216. DAY RECOVERY PERIOD, THE WATER COLUMN HAD
LOST 73.99% OF ITS INITIAL TOXICANT BURDEN; THE SEDIMENTS HAD
LOST 61.14% OF THEIR INITIAL BURDEN (62.22% REMOVAL OVERALL).
B. SYSTEM SELF-PURIFICATION TIME IS ROUGHLY 25. MONTHS.

Table 3

Exposure Analysis Modeling System (EXAMS 50) for Three
Different Runoff Loads To a Small Flowing River Adjacent
To Corn Field

Parameters	Typical 4.6×10^{-5} kg/hectar/hr	Moderate 9.2×10^{-5} kg/hectar/hr	Worst 3.8×10^{-4} kg/hectar/hr
Maximum conc in water	4.6×10^{-8} mg/l	9.1×10^{-8} mg/l	3.8×10^{-7} mg/l
Maximum conc in sediment deposit (dry wt)	1.4×10^{-5} mg/kg	2.8×10^{-5} mg/kg	1.1×10^{-4} mg/kg
Total Steady State Accumula- tion	2.3×10^{-4} kg	4.5×10^{-4} kg	1.9×10^{-3} kg
Recovery	12 hours	12 hours	12 hours
Self- purifica- tion	67 days	67 days	67 days

Exams50.Mode-1

AERL-ESB MODEL OF FATE OF ORGANIC TOXICANTS IN AQUATIC ECOSYSTEMS
CHEMICAL: FONOPOS PRD 7/6/83. Load 4.6×10^{-5} kg/hr.
ECOSYSTEM: RIVER, AERL DEVELOPMENT PHASE TEST DEFINITION

TABLE 17. EXPOSURE ANALYSIS SUMMARY.

EXPOSURE:

- A. MAXIMUM CONC. IN WATER COLUMN: 4.6×10^{-8} MG/L DISSOLVED, 4.6×10^{-8} TOT
MAX. CONC. IN BOTTOM SEDIMENT: 4.5×10^{-8} MG/L DISSOLVED IN PORE WATER
- B. BIOSORPTION - MAX. CONCENTRATION - PLANKTON: .0 UG/G
BENTHOS: .0 UG/G
- C. MAXIMUM TOT. CONC. IN SEDIMENT DEPOSITS: 1.4×10^{-5} MG/KG (DRY WEIGHT)

FATE:

- A. TOTAL STEADY-STATE ACCUMULATION: 2.3×10^{-4} KG; 18.19% IN WATER COL.,
81.81% IN BOTTOM SEDIMENTS.
- B. TOTAL LOAD: 4.6×10^{-5} KG/HOUR - DISPOSITION: 0.04% VIA CHEMICAL
TRANSFORMATIONS, 0.46% BIOTRANSFORMED, 0.04% VOLATILIZED,
99.47% EXPORTED VIA OTHER PATHWAYS.

PERSISTENCE:

- A. AT THE END OF A 12.0 HOUR RECOVERY PERIOD, THE WATER COLUMN HAD
LOST 100.00% OF ITS INITIAL TOXICANT BURDEN; THE SEDIMENTS HAD
LOST 2.11% OF THEIR INITIAL BURDEN (19.92% REMOVAL OVERALL).
- B. SYSTEM SELF-PURIFICATION TIME IS ROUGHLY 67. DAYS.

AERL-ESB MODEL OF FATE OF ORGANIC TOXICANTS IN AQUATIC ECOSYSTEMS
CHEMICAL: FONOFOS PRD 2/23/83. Load 9.2×10^{-5}
ECOSYSTEM: RIVER, AERL DEVELOPMENT PHASE TEST DEFINITION

TABLE 17. EXPOSURE ANALYSIS SUMMARY.

EXPOSURE:

- A. MAXIMUM CONC. IN WATER COLUMN: 9.1×10^{-8} MG/L DISSOLVED, 9.2×10^{-8} TOT
MAX. CONC. IN BOTTOM SEDIMENT: 9.0×10^{-8} MG/L DISSOLVED IN PORE WATER
 - B. BIOSORPTION - MAX. CONCENTRATION - PLANKTON: .0 UG/G
BENTHOS: .0 UG/G
 - C. MAXIMUM TOT. CONC. IN SEDIMENT DEPOSITS: 2.8×10^{-5} MG/KG (DRY WEIGHT)
- FATE:
- A. TOTAL STEADY-STATE ACCUMULATION: 4.5×10^{-4} KG; 18.19% IN WATER COL.,
81.81% IN BOTTOM SEDIMENTS.
 - B. TOTAL LOAD: 9.2×10^{-5} KG/HOUR - DISPOSITION: 0.04% VIA CHEMICAL
TRANSFORMATIONS, 0.46% BIOTRANSFORMED, 0.04% VOLATILIZED,
99.47% EXPORTED VIA OTHER PATHWAYS.

PERSISTENCE:

- A. AT THE END OF A 12.0 HOUR RECOVERY PERIOD, THE WATER COLUMN HAD
LOST 95.70% OF ITS INITIAL TOXICANT BURDEN; THE SEDIMENTS HAD
LOST 2.11% OF THEIR INITIAL BURDEN (19.14% REMOVAL OVERALL).
- B. SYSTEM SELF-PURIFICATION TIME IS ROUGHLY 67. DAYS.

AERL-ESB MODEL OF FATE OF ORGANIC TOXICANTS IN AQUATIC ECOSYSTEMS
CHEMICAL: FONOFOS PRD 7/6/83. Load 3.8×10^{-4} kg/hr.
ECOSYSTEM: RIVER, AERL DEVELOPMENT PHASE TEST DEFINITION

TABLE 17. EXPOSURE ANALYSIS SUMMARY.

EXPOSURE:

- A. MAXIMUM CONC. IN WATER COLUMN: 3.8×10^{-7} MG/L DISSOLVED, 3.8×10^{-7} TOT
MAX. CONC. IN BOTTOM SEDIMENT: 3.7×10^{-7} MG/L DISSOLVED IN PORE WATER
- B. BIOSORPTION - MAX. CONCENTRATION - PLANKTON: .0 UG/G
BENTHOS: .0 UG/G
- C. MAXIMUM TOT. CONC. IN SEDIMENT DEPOSITS: 1.1×10^{-4} MG/KG (DRY WEIGHT)

FATE:

- A. TOTAL STEADY-STATE ACCUMULATION: 1.9×10^{-3} KG; 18.19% IN WATER COL.,
81.81% IN BOTTOM SEDIMENTS.
- B. TOTAL LOAD: 3.8×10^{-4} KG/HOUR - DISPOSITION: 0.04% VIA CHEMICAL
TRANSFORMATIONS, 0.46% BIOTRANSFORMED, 0.04% VOLATILIZED,
99.47% EXPORTED VIA OTHER PATHWAYS.

PERSISTENCE:

- A. AT THE END OF A 12.0 HOUR RECOVERY PERIOD, THE WATER COLUMN HAD
LOST 99.60% OF ITS INITIAL TOXICANT BURDEN; THE SEDIMENTS HAD
LOST 2.11% OF THEIR INITIAL BURDEN (19.84% REMOVAL OVERALL).
- B. SYSTEM SELF-PURIFICATION TIME IS ROUGHLY 67. DAYS.

EXAMS -- EXposure Analysis Modeling System -- V2.0: Mode 2
 Ecosystem: POND, AERL DEVELOPMENT PHASE TEST DEFINITION
 Chemical: FONOPOS A.R = 0.66 lbs a.i./A. Year 1969.
 Basin: COSH 115.

TABLE 16. Simulation results -- time-trace of chemical concentrations.

Time Days	Average Chemical Concentrations				Mass of Chemical	
	Water Column		Bottom Sediments		Water Col	Sediments
	Free(mg/L)	Sed(mg/kg)	Pore(mg/L)	Sed(mg/kg)	Total kg	Total kg
Initial Mass Input 0.000001 kg.						
123.	4.951E-08	1.624E-05	0.000	0.000	1.0000E-06	0.000
124.	2.989E-08	9.804E-06	5.136E-10	1.685E-07	6.0372E-07	1.139E-07
125.	1.796E-08	5.892E-06	8.210E-10	2.693E-07	3.6280E-07	1.820E-07
126.	1.086E-08	3.562E-06	9.991E-10	3.277E-07	2.1936E-07	2.215E-07
127.	4.376E-09	1.435E-06	1.161E-09	3.807E-07	8.8384E-08	2.574E-07
Runoff Mass Input 0.0011 kg.						
128.	5.447E-05	1.787E-02	1.200E-09	3.935E-07	1.1000E-03	2.660E-07
129.	3.285E-05	1.078E-02	5.670E-07	1.860E-04	6.6348E-04	1.257E-04
130.	1.987E-05	6.517E-03	9.014E-07	2.957E-04	4.0131E-04	1.998E-04
131.	1.208E-05	3.961E-03	1.097E-06	3.597E-04	2.4393E-04	2.432E-04
132.	7.403E-06	2.428E-03	1.209E-06	3.964E-04	1.4953E-04	2.680E-04
133.	4.502E-06	1.477E-03	1.273E-06	4.176E-04	9.0932E-05	2.823E-04
134.	2.661E-06	8.727E-04	1.309E-06	4.294E-04	5.3739E-05	2.903E-04
135.	1.731E-06	5.678E-04	1.321E-06	4.333E-04	3.4963E-05	2.929E-04
136.	1.070E-06	3.509E-04	1.326E-06	4.349E-04	2.1605E-05	2.940E-04
137.	7.286E-07	2.390E-04	1.322E-06	4.337E-04	1.4716E-05	2.931E-04
138.	5.795E-07	1.901E-04	1.313E-06	4.308E-04	1.1704E-05	2.912E-04
139.	4.669E-07	1.532E-04	1.304E-06	4.277E-04	9.4307E-06	2.891E-04
140.	4.284E-07	1.405E-04	1.292E-06	4.239E-04	8.6521E-06	2.865E-04
141.	4.193E-07	1.375E-04	1.280E-06	4.199E-04	8.4677E-06	2.838E-04
142.	6.945E-07	2.278E-04	1.261E-06	4.135E-04	1.4027E-05	2.795E-04
143.	6.665E-07	2.186E-04	1.249E-06	4.097E-04	1.3461E-05	2.770E-04
144.	6.143E-07	2.015E-04	1.239E-06	4.063E-04	1.2407E-05	2.746E-04
145.	5.364E-07	1.759E-04	1.229E-06	4.030E-04	1.0833E-05	2.724E-04

EXAMS -- Exposure Analysis Modeling System -- V2.0: Mode 2
 Ecosystem: POND, AERL DEVELOPMENT PHASE TEST DEFINITION
 Chemical: FONOFOS A.R = 0.66 lbs a.i./A. Year 1969.
 Basin: COSH 115.

TABLE 16. Simulation results -- time-trace of chemical concentrations.

Time Days	Average Chemical Concentrations				Mass of Chemical	
	Water Column		Bottom Sediments		Water Col	Sediments
	Free(mg/L)	Sed(mg/kg)	Pore(mg/L)	Sed(mg/kg)	Total kg	Total kg
146.	6.180E-07	2.027E-04	1.215E-06	3.985E-04	1.2481E-05	2.693E-04
147.	5.180E-07	1.699E-04	1.206E-06	3.955E-04	1.0462E-05	2.673E-04
148.	4.374E-07	1.435E-04	1.196E-06	3.924E-04	8.8349E-06	2.653E-04
149.	-2.680E-08	-8.791E-06	1.197E-06	3.927E-04	-5.4130E-07	2.655E-04
150.	-1.019E-08	-3.343E-06	1.186E-06	3.889E-04	-2.0582E-07	2.629E-04
151.	5.613E-08	1.841E-05	1.173E-06	3.846E-04	1.1337E-06	2.600E-04
152.	-2.352E-07	-7.715E-05	1.169E-06	3.835E-04	-4.7508E-06	2.592E-04
153.	-9.386E-08	-3.079E-05	1.154E-06	3.786E-04	-1.8957E-06	2.559E-04
154.	5.336E-08	1.750E-05	1.140E-06	3.738E-04	1.0778E-06	2.526E-04
155.	5.789E-07	1.899E-04	1.115E-06	3.656E-04	1.1693E-05	2.471E-04
156.	6.368E-07	2.089E-04	1.102E-06	3.616E-04	1.2860E-05	2.444E-04
157.	6.338E-07	2.079E-04	1.092E-06	3.581E-04	1.2801E-05	2.421E-04
158.	5.601E-07	1.837E-04	1.083E-06	3.553E-04	1.1313E-05	2.402E-04
159.	1.092E-06	3.582E-04	1.059E-06	3.472E-04	2.2057E-05	2.347E-04
160.	9.125E-07	2.993E-04	1.053E-06	3.454E-04	1.8429E-05	2.335E-04
161.	7.197E-07	2.361E-04	1.048E-06	3.437E-04	1.4536E-05	2.324E-04
162.	3.367E-07	1.104E-04	1.048E-06	3.438E-04	6.7998E-06	2.324E-04
163.	2.093E-07	6.865E-05	1.042E-06	3.416E-04	4.2269E-06	2.309E-04
164.	1.567E-07	5.140E-05	1.033E-06	3.388E-04	3.1652E-06	2.290E-04
165.	-6.008E-07	-1.970E-04	1.043E-06	3.423E-04	-1.2133E-05	2.314E-04
166.	-4.722E-07	-1.549E-04	1.030E-06	3.379E-04	-9.5378E-06	2.284E-04
167.	-2.897E-07	-9.504E-05	1.016E-06	3.332E-04	-5.8519E-06	2.252E-04
168.	-4.171E-07	-1.368E-04	1.010E-06	3.312E-04	-8.4233E-06	2.238E-04
169.	-2.108E-07	-6.913E-05	9.946E-07	3.262E-04	-4.2566E-06	2.205E-04
170.	-2.485E-08	-8.152E-06	9.802E-07	3.215E-04	-5.0194E-07	2.173E-04
171.	1.079E-07	3.539E-05	9.674E-07	3.173E-04	2.1794E-06	2.145E-04
172.	5.705E-07	1.871E-04	9.458E-07	3.102E-04	1.1523E-05	2.097E-04
173.	5.706E-07	1.872E-04	9.366E-07	3.072E-04	1.1524E-05	2.077E-04
Runoff Mass Input 0.0011 kg.						
174.	5.498E-05	1.803E-02	9.292E-07	3.048E-04	1.1103E-03	2.060E-04
175.	3.327E-05	1.091E-02	1.489E-06	4.883E-04	6.7185E-04	3.300E-04

EXAMS -- Exposure Analysis Modeling System -- V2.0: Mode 2
 Ecosystem: POND, AERL DEVELOPMENT PHASE TEST DEFINITION
 Chemical: FONOFOS A.R = 0.66 lbs a.i./A. Year 1969.
 Basin: COSH 115.

TABLE 16. Simulation results -- time-trace of chemical concentrations.

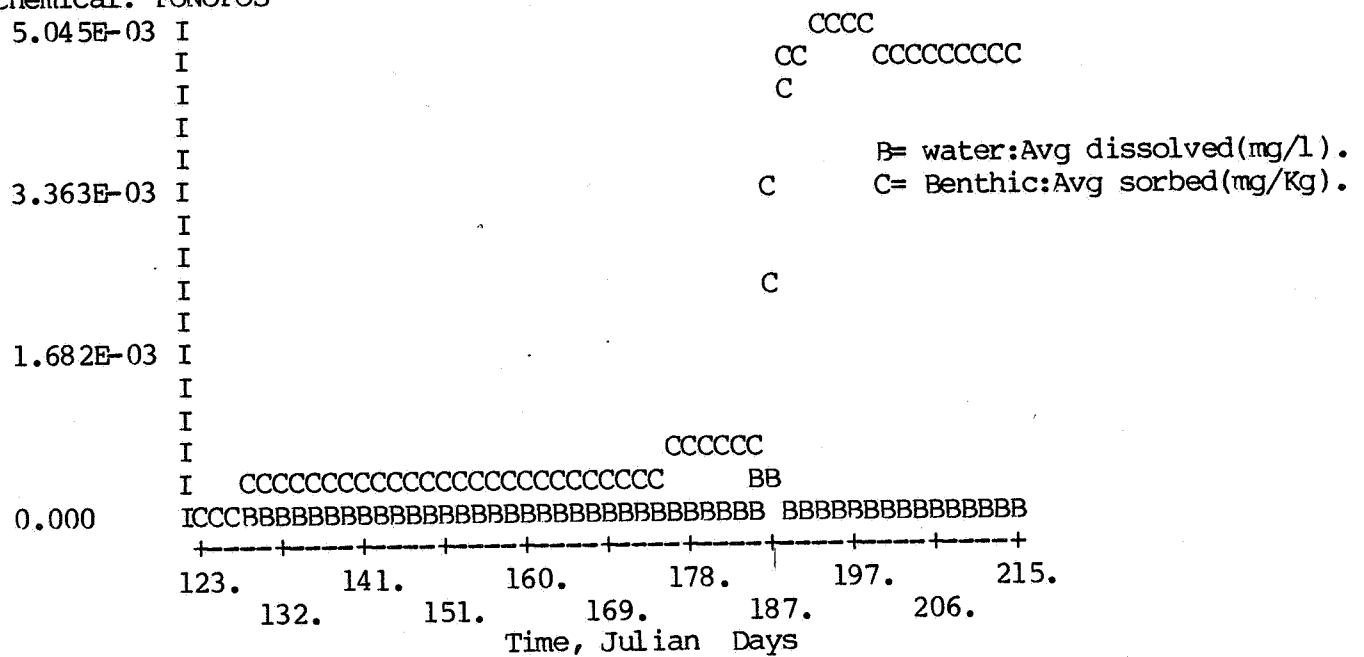
Time Days	Average Chemical Concentrations				Mass of Chemical	
	Water Column		Bottom Sediments		Water Col	Sediments
	Free(mg/L)	Sed(mg/kg)	Pore(mg/L)	Sed(mg/kg)	Total kg	Total kg
176.	2.023E-05	6.634E-03	1.816E-06	5.956E-04	4.0850E-04	4.026E-04
177.	1.240E-05	4.066E-03	2.003E-06	6.571E-04	2.5039E-04	4.442E-04
178.	7.701E-06	2.526E-03	2.107E-06	6.911E-04	1.5553E-04	4.672E-04
179.	4.782E-06	1.569E-03	2.163E-06	7.096E-04	9.6585E-05	4.796E-04
180.	2.926E-06	9.599E-04	2.191E-06	7.188E-04	5.9104E-05	4.859E-04
181.	1.991E-06	6.530E-04	2.195E-06	7.200E-04	4.0207E-05	4.867E-04
182.	1.323E-06	4.340E-04	2.192E-06	7.188E-04	2.6727E-05	4.859E-04
183.	9.800E-07	3.214E-04	2.180E-06	7.149E-04	1.9792E-05	4.832E-04
184.	8.290E-07	2.719E-04	2.163E-06	7.094E-04	1.6744E-05	4.795E-04
185.	7.145E-07	2.344E-04	2.145E-06	7.036E-04	1.4432E-05	4.756E-04
Runoff Mass Input	0.009 kg.					
186.	4.463E-04	0.146	2.126E-06	6.972E-04	9.0136E-03	4.713E-04
Runoff Mass Input	0.0022 kg.					
187.	3.784E-04	0.124	6.735E-06	2.209E-03	7.6419E-03	1.493E-03
188.	2.290E-04	7.512E-02	1.058E-05	3.470E-03	4.6253E-03	2.346E-03
189.	1.393E-04	4.570E-02	1.283E-05	4.207E-03	2.8139E-03	2.844E-03
190.	8.550E-05	2.805E-02	1.411E-05	4.629E-03	1.7269E-03	3.129E-03
191.	5.326E-05	1.747E-02	1.482E-05	4.862E-03	1.0756E-03	3.286E-03
192.	3.399E-05	1.115E-02	1.518E-05	4.981E-03	6.8643E-04	3.367E-03
193.	2.227E-05	7.305E-03	1.535E-05	5.033E-03	4.4984E-04	3.402E-03
194.	1.531E-05	5.023E-03	1.538E-05	5.045E-03	3.0931E-04	3.410E-03

EXAMS -- Exposure Analysis Modeling System -- V2.0: Mode 2
 Ecosystem: POND, AERL DEVELOPMENT PHASE TEST DEFINITION
 Chemical: FONOPOS A.R = 0.66 lbs a.i./A. Year 1969.
 Basin: COSH 115.

TABLE 16. Simulation results -- time-trace of chemical concentrations.

Time Days	Average Chemical Concentrations				Mass of Chemical	
	Water Column		Bottom Sediments		Water Col	Sediments
	Free(mg/L)	Sed(mg/kg)	Pore(mg/L)	Sed(mg/kg)	Total kg	Total kg
195.	1.112E-05	3.648E-03	1.534E-05	5.033E-03	2.2460E-04	3.402E-03
196.	8.558E-06	2.807E-03	1.526E-05	5.007E-03	1.7284E-04	3.384E-03
197.	6.964E-06	2.284E-03	1.516E-05	4.972E-03	1.4065E-04	3.361E-03
198.	5.956E-06	1.953E-03	1.504E-05	4.934E-03	1.2028E-04	3.335E-03
199.	5.315E-06	1.743E-03	1.491E-05	4.892E-03	1.0736E-04	3.307E-03
200.	4.914E-06	1.612E-03	1.478E-05	4.849E-03	9.9246E-05	3.277E-03
201.	4.972E-06	1.631E-03	1.464E-05	4.802E-03	1.0042E-04	3.246E-03
202.	4.782E-06	1.569E-03	1.450E-05	4.757E-03	9.6588E-05	3.216E-03
203.	4.585E-06	1.504E-03	1.437E-05	4.714E-03	9.2594E-05	3.186E-03
204.	4.252E-06	1.395E-03	1.424E-05	4.671E-03	8.5877E-05	3.158E-03
205.	4.093E-06	1.342E-03	1.411E-05	4.628E-03	8.2661E-05	3.128E-03
206.	3.360E-06	1.102E-03	1.399E-05	4.590E-03	6.7851E-05	3.103E-03
Runoff	Mass Input	0.0011 kg.				
207.	5.795E-05	1.901E-02	1.386E-05	4.545E-03	1.1705E-03	3.072E-03
208.	3.655E-05	1.199E-02	1.429E-05	4.686E-03	7.3817E-04	3.167E-03
209.	2.367E-05	7.765E-03	1.449E-05	4.751E-03	4.7811E-04	3.212E-03
210.	1.592E-05	5.223E-03	1.455E-05	4.773E-03	3.2163E-04	3.226E-03
211.	1.127E-05	3.695E-03	1.453E-05	4.767E-03	2.2754E-04	3.222E-03
212.	8.462E-06	2.776E-03	1.447E-05	4.745E-03	1.7091E-04	3.208E-03
213.	6.840E-06	2.244E-03	1.437E-05	4.714E-03	1.3815E-04	3.186E-03
214.	5.802E-06	1.903E-03	1.426E-05	4.678E-03	1.1717E-04	3.162E-03
215.	5.290E-06	1.735E-03	1.414E-05	4.637E-03	1.0683E-04	3.135E-03

System: POND, AERL DEVELOPMENT PHASE TEST DEFINITION
Chemical: FONOFOS



EXAMS -- EXposure Analysis Modeling System -- V2.0: Mode 2
 Ecosystem: RIVER, AERL DEVELOPMENT PHASE TEST DEFINITION
 Chemical: FONOPOS.A.R= 0.66 lb a.i./A. Year 1969.
 Basin: COSH 115.

TABLE 16. Simulation results -- time-trace of chemical concentrations.

Time	Average Chemical Concentrations				Mass of Chemical	
Days	Water Column		Bottom Sediments		Water Col	Sediments
	Free(mg/L)	Sed(mg/kg)	Pore(mg/L)	Sed(mg/kg)	Total kg	Total kg
Initial Mass input. 0.000001 kg						
123.	1.104E-09	3.621E-08	0.000	0.000	1.0000E-06	0.000
124.	-1.518E-05	-4.924E-04	7.041E-09	2.281E-06	-1.3750E-02	4.625E-05
125.	-2.226E-06	-7.283E-05	1.052E-09	3.387E-07	-2.0166E-03	6.868E-06
126.	2.595E-06	8.515E-05	-1.230E-09	-3.956E-07	2.3513E-03	-8.022E-06
127.	1.149E-05	3.778E-04	-5.473E-09	-1.757E-06	1.0413E-02	-3.563E-05
Runoff mass Input. 0.0011 kg.						
128.	4.944E-06	1.623E-04	-1.772E-09	-5.692E-07	4.4784E-03	-1.154E-05
129.	1.248E-05	4.053E-04	-4.173E-09	-1.491E-06	1.1308E-02	-3.023E-05
130.	1.021E-06	3.326E-05	1.071E-09	2.148E-07	9.2473E-04	4.359E-06
131.	-2.786E-06	-9.127E-05	2.789E-09	7.758E-07	-2.5240E-03	1.574E-05
132.	9.535E-06	3.124E-04	-3.116E-09	-1.117E-06	8.6375E-03	-2.265E-05
133.	-2.672E-06	-8.757E-05	2.594E-09	7.264E-07	-2.4205E-03	1.473E-05
134.	-2.160E-06	-7.078E-05	2.286E-09	6.335E-07	-1.9563E-03	1.285E-05
135.	-3.543E-06	-1.161E-04	2.880E-09	8.302E-07	-3.2096E-03	1.684E-05
136.	2.210E-06	7.245E-05	9.475E-11	-5.983E-08	2.0017E-03	-1.211E-06
137.	-1.364E-06	-4.473E-05	1.734E-09	4.722E-07	-1.2357E-03	9.577E-06
138.	1.555E-05	5.101E-04	-6.342E-09	-2.119E-06	1.4091E-02	-4.298E-05
139.	1.406E-05	4.612E-04	-5.685E-09	-1.904E-06	1.2741E-02	-3.860E-05
140.	-5.521E-06	-1.811E-04	3.556E-09	1.072E-06	-5.0014E-03	2.173E-05
141.	-1.605E-06	-5.265E-05	1.655E-09	4.642E-07	-1.4544E-03	9.415E-06
142.	-1.411E-06	-4.626E-05	1.520E-09	4.246E-07	-1.2778E-03	8.613E-06
143.	1.935E-07	6.347E-06	7.198E-10	1.707E-07	1.7532E-04	3.463E-06
144.	3.545E-06	1.163E-04	-9.079E-10	-3.493E-07	3.2116E-03	-7.081E-06
145.	1.289E-05	4.227E-04	-5.376E-09	-1.782E-06	1.1675E-02	-3.614E-05
146.	1.262E-05	4.138E-04	-5.282E-09	-1.749E-06	1.1431E-02	-3.547E-05
147.	3.626E-06	1.189E-04	-1.048E-09	-3.858E-07	3.2844E-03	-7.822E-06
148.	-4.601E-06	-1.509E-04	2.824E-09	8.614E-07	-4.1683E-03	1.747E-05
149.	3.572E-06	1.172E-04	-1.083E-09	-3.919E-07	3.2360E-03	-7.946E-06
150.	-2.496E-06	-8.186E-05	1.768E-09	5.267E-07	-2.2609E-03	1.068E-05
151.	1.007E-05	3.303E-04	-4.220E-09	-1.396E-06	9.1228E-03	-2.830E-05
152.	-6.353E-06	-2.084E-04	3.547E-09	1.103E-06	-5.7553E-03	2.236E-05
153.	5.347E-07	1.754E-05	2.554E-10	4.652E-08	4.8436E-04	9.441E-07
154.	1.196E-05	3.922E-04	-5.187E-09	-1.701E-06	1.0833E-02	-3.449E-05
155.	7.603E-08	2.494E-06	4.288E-10	1.057E-07	6.8873E-05	2.145E-06
156.	1.106E-05	3.627E-04	-4.802E-09	-1.574E-06	1.0018E-02	-3.192E-05
157.	2.199E-12	8.285E-11	4.250E-10	1.076E-07	1.9937E-09	2.182E-06
158.	2.066E-12	7.797E-11	4.066E-10	1.031E-07	1.8738E-09	2.091E-06
159.	1.966E-12	7.419E-11	3.893E-10	9.882E-08	1.7830E-09	2.005E-06

EXAMS — EXposure Analysis Modeling System -- V2.0: Mode 2
 Ecosystem: RIVER, AERL DEVELOPMENT PHASE TEST DEFINITION
 Chemical: FONOPOS.A.R= 0.66 lb a.i./A. Year 1969.
 Basin: COSH 115.

TABLE 16. Simulation results -- time-trace of chemical concentrations.

Time Days	Average Chemical Concentrations				Mass of Chemical	
	Water Column		Bottom Sediments		Water Col	Sediments
	Free(mg/L)	Sed(mg/kg)	Pore(mg/L)	Sed(mg/kg)	Total kg	Total kg
155.	7.603E-08	2.494E-06	4.288E-10	1.057E-07	6.8873E-05	2.145E-06
156.	1.106E-05	3.627E-04	-4.802E-09	-1.574E-06	1.0018E-02	-3.192E-05
157.	2.199E-12	8.285E-11	4.250E-10	1.076E-07	1.9937E-09	2.182E-06
158.	2.066E-12	7.797E-11	4.066E-10	1.031E-07	1.8738E-09	2.091E-06
159.	1.966E-12	7.419E-11	3.893E-10	9.882E-08	1.7830E-09	2.005E-06
160.	1.872E-12	7.061E-11	3.728E-10	9.475E-08	1.6971E-09	1.922E-06
161.	1.786E-12	6.738E-11	3.577E-10	9.101E-08	1.6197E-09	1.846E-06
162.	1.701E-12	6.417E-11	3.427E-10	8.729E-08	1.5427E-09	1.771E-06
163.	1.624E-12	6.127E-11	3.289E-10	8.386E-08	1.4730E-09	1.701E-06
164.	1.548E-12	5.838E-11	3.151E-10	8.044E-08	1.4036E-09	1.632E-06
165.	1.485E-12	5.600E-11	3.035E-10	7.753E-08	1.3463E-09	1.573E-06
166.	1.422E-12	5.362E-11	2.919E-10	7.462E-08	1.2892E-09	1.514E-06
167.	1.359E-12	5.124E-11	2.802E-10	7.172E-08	1.2321E-09	1.455E-06
168.	1.296E-12	4.887E-11	2.686E-10	6.882E-08	1.1752E-09	1.396E-06
169.	1.244E-12	4.691E-11	2.588E-10	6.634E-08	1.1280E-09	1.346E-06
170.	1.192E-12	4.495E-11	2.490E-10	6.387E-08	1.0809E-09	1.296E-06
171.	1.140E-12	4.299E-11	2.391E-10	6.140E-08	1.0337E-09	1.245E-06
172.	1.089E-12	4.105E-11	2.294E-10	5.895E-08	9.8727E-10	1.196E-06
173.	1.052E-12	3.966E-11	2.222E-10	5.711E-08	9.5375E-10	1.158E-06
Runoff mass Input 0.0011 kg.						
174.	1.214E-06	3.983E-05	2.149E-10	5.527E-08	1.1000E-03	1.121E-06
175.	1.204E-11	4.551E-10	1.836E-09	4.404E-07	1.0920E-08	8.935E-06
176.	1.089E-11	4.125E-10	1.747E-09	4.201E-07	9.8778E-09	8.523E-06
177.	1.028E-11	3.893E-10	1.664E-09	4.012E-07	9.3233E-09	8.138E-06
178.	9.707E-12	3.674E-10	1.585E-09	3.831E-07	8.8021E-09	7.771E-06
179.	9.173E-12	3.472E-10	1.511E-09	3.661E-07	8.3183E-09	7.426E-06
180.	8.698E-12	3.292E-10	1.443E-09	3.506E-07	7.8872E-09	7.112E-06
181.	8.222E-12	3.111E-10	1.376E-09	3.351E-07	7.4561E-09	6.797E-06
182.	7.799E-12	2.951E-10	1.315E-09	3.209E-07	7.0720E-09	6.510E-06
183.	7.387E-12	2.794E-10	1.256E-09	3.071E-07	6.6985E-09	6.230E-06
184.	7.015E-12	2.653E-10	1.202E-09	2.944E-07	6.3610E-09	5.972E-06
185.	6.698E-12	2.533E-10	1.154E-09	2.832E-07	6.0742E-09	5.746E-06

EXAMS -- EXposure Analysis Modeling System -- V2.0: Mode 2
 Ecosystem: RIVER, AERL DEVELOPMENT PHASE TEST DEFINITION
 Chemical: FONOPOS.A.R= 0.66 lb a.i./A. Year 1969.
 Basin: COSH 115.

TABLE 16. Simulation results -- time-trace of chemical concentrations.

Time	Average Chemical Concentrations				Mass of Chemical	
Days	Water Column		Bottom Sediments		Water Col	Sediments
	Free(mg/L)	Sed(mg/kg)	Pore(mg/L)	Sed(mg/kg)	Total kg	Total kg
Runoff Mass Input.	0.009 kg.					
186.	9.935E-06	3.259E-04	1.107E-09	2.721E-07	9.0000E-03	5.519E-06
187.	9.456E-11	3.578E-09	1.440E-08	3.430E-06	8.5744E-08	6.958E-05
Runoff mass Input.	0.0022 kg.					
188.	2.429E-06	7.966E-05	1.368E-08	3.269E-06	2.2001E-03	6.633E-05
189.	1.042E-10	3.943E-09	1.626E-08	3.891E-06	9.4452E-08	7.894E-05
190.	9.735E-11	3.686E-09	1.547E-08	3.711E-06	8.8278E-08	7.529E-05
191.	9.179E-11	3.475E-09	1.472E-08	3.541E-06	8.3239E-08	7.184E-05
192.	8.673E-11	3.283E-09	1.403E-08	3.384E-06	7.8651E-08	6.864E-05
193.	8.188E-11	3.099E-09	1.336E-08	3.231E-06	7.4252E-08	6.555E-05
194.	7.748E-11	2.932E-09	1.275E-08	3.090E-06	7.0258E-08	6.269E-05
195.	7.329E-11	2.773E-09	1.216E-08	2.955E-06	6.6456E-08	5.994E-05
196.	6.970E-11	2.637E-09	1.165E-08	2.835E-06	6.3208E-08	5.752E-05
197.	6.612E-11	2.501E-09	1.113E-08	2.716E-06	5.9960E-08	5.509E-05
198.	6.254E-11	2.366E-09	1.062E-08	2.596E-06	5.6711E-08	5.267E-05
199.	5.948E-11	2.250E-09	1.017E-08	2.491E-06	5.3939E-08	5.054E-05
200.	5.653E-11	2.138E-09	9.735E-09	2.389E-06	5.1266E-08	4.847E-05
201.	5.359E-11	2.026E-09	9.300E-09	2.287E-06	4.8594E-08	4.640E-05
202.	5.102E-11	1.929E-09	8.914E-09	2.196E-06	4.6261E-08	4.456E-05
203.	4.894E-11	1.850E-09	8.592E-09	2.120E-06	4.4377E-08	4.300E-05
204.	4.686E-11	1.771E-09	8.271E-09	2.043E-06	4.2493E-08	4.145E-05
205.	4.478E-11	1.693E-09	7.949E-09	1.967E-06	4.0609E-08	3.989E-05
206.	4.271E-11	1.614E-09	7.628E-09	1.890E-06	3.8726E-08	3.834E-05
207.	4.063E-11	1.535E-09	7.306E-09	1.813E-06	3.6842E-08	3.678E-05
Runoff Mass Input.	0.0011 kg.					
208.	1.214E-06	3.983E-05	6.984E-09	1.737E-06	1.1000E-03	3.523E-05
209.	4.758E-11	1.798E-09	8.297E-09	2.048E-06	4.3144E-08	4.155E-05
210.	4.457E-11	1.685E-09	7.918E-09	1.959E-06	4.0415E-08	3.974E-05
211.	4.224E-11	1.596E-09	7.562E-09	1.875E-06	3.8300E-08	3.803E-05
212.	4.004E-11	1.513E-09	7.224E-09	1.794E-06	3.6304E-08	3.640E-05
213.	3.798E-11	1.435E-09	6.905E-09	1.718E-06	3.4443E-08	3.486E-05
214.	3.614E-11	1.365E-09	6.615E-09	1.649E-06	3.2774E-08	3.344E-05
215.	3.430E-11	1.296E-09	6.324E-09	1.579E-06	3.1104E-08	3.203E-05

System: RIVER, AERL DEVELOPMENT PHASE TEST DEFINITION
Chemical: FONOFOS. A.R = 0.66 lbs a.i./A. Year 1969.
Basin: COSH 115.

1.555E-05 I BCC CBBCCB CC C CC

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I B

I B B BB B

I B BB

1.037E-05 I B

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5.18 5E-06 I B

I B
I B

I B B BB

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I CB      B      B      CCCCCCCCCC

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I CCCC C CCB B B

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0.000      ICC C   CC CC CC CCCCCCCCCCCCCCCCCCBBBBBBBBBBBBBBBB
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123. 141. 160. 178. 197. 215.
132. 151. 169. 187. 206.

Time Julian, Days