

Page 1 SUMMARY

A. Chemical: 2,4-Dinitrophenol	CAS# 51285	Date November 26, 1996
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B. Minnesota Criterion: ug/l (unless noted otherwise)

Water Class	Use	CC	MC	FAV	Basis ¹
1,2A	DW, Salmonid	53	379.02	758.05	GLIHn
1,2Bd	DW, NonSalmonid	55	379.02	758.05	GLIHn
2B, 2C, 2D	NonSalmonid	71.38	379.02	758.05	GLIT2
Lake Superior	Other	53	379.02	758.05	GLIHn

Toxicity related to water quality?: no
 If yes, above criteria values determined for:
 Slope: Acute:
 Chronic:

Formulas:	MPCA	EPA
CC:		
MC:		
FAV:		

Notes:

C. EPA Criterion: ug/l	CCC: 55/2800	Basis: GLIHn drinking water/nondrinking water values
Date: GLI 1995	MC: none	Basis:
	FAV: none	Basis:

D. Other Criteria ug/l	Source
70ug/L for Human health fish and water consumption	EPA 1980 Nitrophenol criteria doc.
14,300 ug/L for Human health fish consumption only	EPA 1980 Nitrophenol criteria doc.

E. Notes:

¹ Criteria basis codes for part B:

- EPA = From EPA criterion
- PCA = Criterion developed by Minnesota Pollution Control Agency staff
- T1 = Direct aquatic life toxicity, EPA national criteria procedures used
- T2 = Direct aquatic life toxicity, EPA advisory procedures used
- Hs = Human health systemic effects
- Hc = Human health carcinogenic effects
- R = Tissue residue (bioaccumulation)
- W = Wildlife effects
- O = Organoleptic (taste and odor)
- Other = Criterion based on other end point

GLIT2 = GLI Tier II aquatic life based std.

GLIHn = GLI Human Health noncancer std.

COPY

MINNESOTA POLLUTION CONTROL AGENCY
AQUATIC LIFE CRITERIA

Page 2 DIRECT AQUATIC LIFE TOXICITY - EPA Criterion Available

A.	Chemical: 2,4-Dinitrophenol	CAS# 51285	Date November 26, 1996
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B.	EPA Criterion: ug/l	CCC: 55/2800	Basis: GLIHn drinking water/nondrinking water
	Date: GLI 1995	MC: none	Basis:
		FAV: none	Basis:

1.	Related to water quality?: none		
2.	Toxicity:	FAV: GLI did not determine a toxicity-based criterion	N:
	ug/l	Chronic value:	N:
3.	Residue		
	FDA action level:		
	BCF Final: See BAF in human health section	N total:	N used:
	geo mean at 1% lipid:		
	% lipid:		
	geo man unadjusted for lipid:		

C. MPCA Evaluation of EPA Criterion

1. Four lowest GMAVs:
2. Commercially or recreationally important species:
3. Plant data:
4. Extrapolation of water quality effects:
5. Chronic data No. of values:
 No. below criterion:

Notes: EPA did not calculate an aquatic life criteria

6. ACRS	ACR used by EPA: none	N:
	Geo. mean, all ACRs:	N: -
	ACR used by MPCA:	N:

Notes:

D. Separate Cool/Warm Water Criterion, ug/l

No. of Salmonids deleted from lowest 4 GMAVs:
N(nonsal): FAV: MC: CC:
Adjustments to FAV:

Notes:

E. Summary of changes made to EPA criterion

MINNESOTA POLLUTION CONTROL AGENCY
AQUATIC LIFE CRITERIA

Page 3 DIRECT AQUATIC LIFE TOXICITY
No EPA criterion available

A.	Chemical: 2,4-Dinitrophenol	CAS# 51285	Date November 26, 1996
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B. EPA National Method			
1. Data requirements:	Salmonid (2A water only):	Oncorhynchus mykiss	
	Osteichthyes (fish):	Pimephales promelas	
	Chordata (fish, amphibian):	Lepomis macrochirus	
	Planktonic crustacean:	Daphnia magna	
	Benthic crustacean:	Gammarus pseudolimnaeus	
	Aquatic insect:		
	Phylum other than Arthropoda or Chordata:	Aplexa hypnorum	
	Second insect or phylum not already rep.:	Tetrahymena pyriformis	
2. GMAVs	Lowest 4(2A): See Tier II method	Lowest 4(2B,2C, 2D): See Tier II method	
ug/l			
	N:	N:	
3. FAV:	2A:	2B, 2C, 2D:	
4. Adjustments to FAVs:			
5. Chronic data:	See Table 2a.	No.	Species:
mean values			
ug/l			
6. ACR Measured:	Acute value	Chronic value	ACR
	29,400	7900	3.7
Generic: 18			18
			18
Final: 10.62			
7. Final Plant Value: 9200, See Table 4			
8. Chronic Criterion (FAV/ACR) 71.38, See below			

C. EPA Advisory Method GLI Tier II Methodology			
1. Data requirements:	Fish:	Pimephales promelas	
	Crustacean:	Daphnia magna	
No. SMAVs:	Third animal:	Aplexa hypnorum	
No. GMAVs:	Plant for herbicide:		
Factor: Secondary Acute	Insect for pesticide:		
Factor: 4.3			
2. Lowest GMAV: 3259.64		Species: Oncorhynchus mykiss	
3. FAV: Secondary Acute Value:758.055		MC: 379.02	
4. Chronic data: See B.5.			
5. ACR: 10.62 See B.6.			
5. CC: 71.38			
7. Citation for lowest GMAV: AQUIRE Ref. 13274 and thesis			

D: Notes: The toxicity-based chronic criteria of 71.38 ug/L was not lowered despite the common carp MATC of 30.29 ug/L. This study was unmeasured and had some information gaps in the methods. For these two reasons, the common carp study did not warrant lowering the toxicity-based chronic criteria. PCA staff believe there is a relationship between pH and toxicity. Data from rainbow trout and Gammarus p., however, did not show a clear relationship. More toxicity information at different pH levels is needed to confirm or deny this hypothesis.

MINNESOTA POLLUTION CONTROL AGENCY
AQUATIC LIFE CRITERIA

Page 4 HUMAN HEALTH

A. Chemical: 2,4-dinitrophenol	CAS# 51285	Date November 26, 1996
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B. EPA Human Health Criterion: ug/l	DW and fish: 55	fish only: 2800	DW only: none
ADI/Ref.dose: 0.002 mg/kg/day	Cancer Potency Slope:		
Final BCF: See BAFs	%lipid: See BAFs		
RSC: 0.8			

C. Minnesota Human Health Criterion			
1. Ref.dose: 0.002 mg/kg/day	Source: HRLs		
RSC: 0.2	Source: HRL's		
2. Cancer Potency Slope:	Source:		
3. Measured BAFs: Species/Tissue	BAF	%lipid	Norm BAF
1. Tier 3 Level	2	1.82	see GLI method
2. Tier 4 Level	2	3.10	see GLI method
3.			
4.			
Geo mean:			
4. Measured BCFs: Species/Tissue	BCF	%lipid	Norm. BCF
1.			
2.			
3.			
4.			
5.			
6.			
Geo mean:			
5. Edible portion BAF or BCF	BAF		BCF
Cold water: 6.0 % lipid Tier 3/Tier 4	3.22/3.22		
Warm water: 1.5 % lipid Tier 3/Tier 4	1.55/1.55		
6. Geo mean unadjusted for lipid:			
Lake Superior: 8.5% lipid Tier 3/ Tier 4	4.145/4.14 5		
7. log Kow: adjust. for % lipid:	meas.	QSAR:	Est. BCF:
8. Parachor:			
9. BCF to BAF conversion factor:			
10. Final BAF: 2A: 3.22/3.22 for Tier 3 and Tier 4, respectfully	2B,2C, 2D: 1.55/1.55 for Tier 3 and Tier 4, respectfully		
11. Criteria: ug/l	2A: 53.42	2Bd: 54.72	2B/2C, 2D: 1982.3 RAL/HBV: 10

D. Organoleptic: No reliable information available. see discussion in EPA 1980 criteria doc. ug/l	Source:
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E. Notes: The criteria for Lake Superior is 52.72 ug/L that is based on a Tier 3 BAF of 4.145 and a Tier 4 BAF of 4.145.

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol												
Aedes aegypti Mosquito	LC50 MOR	> 5000 - > 10000	1ST INSTAR; LARVAE-PUPAES	12	RM	FW	25				3	5338
Aplexa hypnorum Snail	LC50 MOR	6490	ADULT	4	FM	FW	17.2* 16.5 - 18.4	44.7 40.8 - 47.6	7.39	Unknown if test temp is ok no method available-snail	2	12665
Atherinops affinis Topsmelt	LC50 MOR	3510	LARVA, 32 D, 40.8 MG, 16.4 MM	4	SU	SW	20				2	13112
Callinectes sapidus Blue crab	ENZ	6 ug/g	MATURE	0.13	IU	SW	20				2	7330
Callinectes sapidus Blue crab	OXC	920000*	C-4 STAGE OF MOLT CYCLE	0.042	VU	SW	25				2	7019
Callinectes sapidus Blue crab	OXC	9200*	C-4 STAGE OF MOLT CYCLE	0.042	VU	SW	25				2	7019
Carassius auratus Goldfish	PHY	180000*	5-15 CM	0.063	VU	FW	18 - 20				2	8853
Carassius auratus Goldfish	PHY	18000*	5-15 CM	0.063	VU	FW	18 - 20				2	8853
Carassius auratus Goldfish	PHY	1800*	5-15 CM	0.063	VU	FW	18 - 20				2	8853
Carassius auratus Goldfish	PHY	1800000*	5-15 CM	0.063	VU	FW	18 - 20				2	8853
Carassius auratus Goldfish	LC50 MOR	23,000	3.1 G	4	FM	FW	17.2 16.5 - 18.4	44.7 40.8 - 47.6	7.39		2	12665
Catostomus commersoni White sucker	LC50 MOR	> 4590	2.1 G	4	FM	FW	17.2* 16.5 - 18.4	44.7 40.8 - 47.6	7.39	*Unknown if test temp is ok No W. sucker methods available	2	12665
Cirrhinus mrigala Carp, hawk fish	LC50 MOR	550	4.5 MM, 51.0 MG, 2 D LARVAE	4	SU	FW	23.00* 21.00 -25.00*	72.00* 70.00 -74.00*			2	10575
Cirrhinus mrigala Carp, hawk fish	MATC MOR	22.8 - 27.7	2 D LARVAE, 4.5 MM, 51.0 MG	4	SU	FW	23.00* 21.00 -25.00*	72.00* 70.00 -74.00*			2	10575
Colisa fasciata	LC50 MOR	9200	6.2-8.8 CM,10.3-	1	SU	FW	24	66			2	5266

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol												
Giant gourami			13.8 G				23 - 26.5	60 - 70				
Colisa fasciata	LC50 MOR	2370	6.2-8.8 CM, 9.6-11.8 G	1	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	8300	6.2-8.8 CM, 9.6-11.8 G	1	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	9200	6.2-8.8 CM, 9.6-11.8 G	1	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	12950	6.2-8.8 CM, 9.6-11.8 G	1	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	2280	6.2-8.8 CM, 9.6-11.8 G	2	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	7930	6.2-8.8 CM, 9.6-11.8 G	2	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	8950	6.2-8.8 CM, 9.6-11.8 G	2	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	12640	6.2-8.8 CM, 9.6-11.8 G	2	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	8950	6.2-8.8 CM, 10.3-13.8 G	2	SU	FW	24	66			2	5266
Giant gourami			6.2-8.8 CM, 9.6-11.8 G				23 - 26.5	60 - 70				
Colisa fasciata	LC50 MOR	2190	6.2-8.8 CM, 9.6-11.8 G	3	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	7650	6.2-8.8 CM, 9.6-11.8 G	3	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	8780	6.2-8.8 CM, 9.6-11.8 G	3	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	12330	6.2-8.8 CM, 9.6-11.8 G	3	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	8780	6.2-8.8 CM, 10.3-13.8 G	3	SU	FW	24	66			2	5266
Giant gourami			6.2-8.8 CM, 9.6-11.8 G				23 - 26.5	60 - 70				
Colisa fasciata	LC50 MOR	1820	6.2-8.8 CM, 9.6-11.8 G	4	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	7480	6.2-8.8 CM, 9.6-11.8 G	4	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	8600	6.2-8.8 CM, 9.6-11.8 G	4	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	12140	6.2-8.8 CM, 9.6-11.8 G	4	RU	FW					2	6432
Giant gourami			6.2-8.8 CM, 9.6-11.8 G									
Colisa fasciata	LC50 MOR	8600	6.2-8.8 CM, 10.3-13.8 G	4	SU	FW	24	66			2	5266

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol Giant gourami			13.8 G				23 - 26.5	60 - 70				
Cyprinodon variegatus Sheepshead minnow	LC50 MOR	42000	8-15 MM, 14-28 D	1	SU	SW					2	10366
Cyprinodon variegatus Sheepshead minnow	LC50 MOR	32000	8-15 MM, 14-28 D	2	SU	SW	25 - 31*				2	10366
Cyprinodon variegatus Sheepshead minnow	LC50 MOR	32000	8-15 MM, 14-28 D	3	SU	SW	25 - 31*				2	10366
Cyprinodon variegatus Sheepshead minnow	LC50 MOR	29000	8-15 MM, 14-28 D	4	SU	SW	25 - 31*				2	10366
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	7	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	7	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	10600	EMBRYO	7	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	7	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	7	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	7	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	7	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	7	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	2700	EMBRYO	14	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	14	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	5300	EMBRYO	14	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	14	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	5300	EMBRYO	14	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	14	FM	SW	27				1	13271

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	14	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	14	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	14	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	21	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	21	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	21	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	2700	EMBRYO	21	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	2700	EMBRYO	21	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	21	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	21	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	21	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	2700	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	1300	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	10600	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	2700	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	2700	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	28	FM	SW	27				1	13271

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol Cyprinodon variegatus Sheepshead minnow	NOEC GRO	2700	EMBRYO	28	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	2700	EMBRYO	28	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	< 940	EMBRYO	28	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	28	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	2700	EMBRYO	28	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	28	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	< 940	EMBRYO	28	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	28	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	2700	EMBRYO	28	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	28	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC GRO	> 15000	EMBRYO	28	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10000	8-15 MM, 14-28 D	4	SU	SW	25 - 31*				2	10366
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	> 15000	EMBRYO	7	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	> 15000	EMBRYO	7	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	> 15000	EMBRYO	7	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	7	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	> 15000	EMBRYO	7	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	> 15000	EMBRYO	7	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	7	FM	SW	32				1	13271

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol												
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	7	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	7	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	14	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	5300	EMBRYO	14	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	14	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	14	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	14	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	14	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	14	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	21	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	5300	EMBRYO	21	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	21	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	21	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	21	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	21	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	21	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	21	FM	SW	32				1	13271

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	21	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	5300	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	28	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	28	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	28	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	28	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	28	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NOEC MOR	10600	EMBRYO	28	FM	SW	32				1	13271
Cyprinodon variegatus Sheepshead minnow	NR HAT	15000	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NR HAT	7500	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NR HAT	15000	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NR HAT	7500	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NR HAT	15000	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NR HAT	7500	EMBRYO	28	FM	SW	22				1	13271
Cyprinodon variegatus Sheepshead minnow	NR HAT	15000	EMBRYO	28	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NR HAT	7500	EMBRYO	28	FM	SW	27				1	13271
Cyprinodon variegatus Sheepshead minnow	NR HAT	15000	EMBRYO	28	FM	SW	27				1	13271

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol												
Common carp Cyprinus carpio	LETH MOR	73 mg/kg	NR	1.83	DU	FW	18.3/					3 15898
Common carp Cyprinus carpio	LETH MOR	58 mg/kg	NR	2.71	DU	FW	18.3/					3 15898
Common carp Cyprinus carpio	LETH MOR	131 mg/kg	NR	< 3.88	DU	FW	18.3/					3 15898
Common carp Cyprinus carpio	LETH MOR	203 mg/kg	NR	< 5.00	DU	FW	18.3/					3 15898
Common carp Cyprinus carpio	MATC MUL	30.29	LARVAE, 8 MM	60	RU	FW	20.0 - 23.2	60 - 88	7.2	See temp Flux, Based on growth	2	10385
Daphnia magna Water flea	MOR	3100	<24 H	2	SU	FW	22	173				2 5184
Daphnia magna Water flea	EC0 NR	4.8 mg/L	NR	1	RU	FW						2 6628
Daphnia magna Water flea	EC0 NR	4.8 mg/L	NR	1	SU	FW						2 707
Daphnia magna Water flea	EC100 NR	7.7 mg/L	NR	1	SU	FW						2 707
Daphnia magna Water flea	EC50 IMM	7000	<= 24 H	1	SU	FW	25					2 847
Daphnia magna Water flea	EC50 IMM	4710*	12 H (+- 12 hrs)	2	SU	FW	18	approx. 45	NR	From EPA 1980 Doc Poor paper, Don't use Temp too Low	3	2120
Daphnia magna Water flea	EC50 IMM	4390	0-24 H	2	FM	FW	17.2 16.5 - 18.4	44.7 40.8 - 47.6				2 12665
Daphnia magna Water flea	EC50 NR	6.1 mg/L	NR	1	SU	FW						2 707
Daphnia magna Water flea	EC50 NR	7 mg/L	NR	1	RU	FW						2 6628
Daphnia magna Water flea	EC50 PHY	10000	NR	1	SU	FW						2 8305
Daphnia magna Water flea	EC50 PHY	3000	NR	2	SU	FW				Based on ciliary action	2	8305
Daphnia magna Water flea	LC50 MOR	4500	<24 H	1	SU	FW	22	173				2 5184
Daphnia magna Water flea	LC50 MOR	19000	24 H	1	SU	FW	20 - 22	70				2 5718

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol												
Daphnia magna Water flea	LC50 MOR	4100	<24 H	2	SU	FW	22	173	7.4-9.4	temp high, but otherwise good study	2	5184
Daphnia magna Water flea	LC50 MOR	4710*	NR	2	NRU	FW					3	15251
Daphnia magna Water flea	NOEC REP	2000	<= 24 H	21	RU*	FW	25	286**	7.6-7.7	*measured on a irregular basis,**converted from Ger. Degree hard. Questionable study	2	847
Daphnia magna Water flea	LC50 MOR	4090	NR	2*	SU	FW	NR	NR		*assumed value Fr. 1980 EPA Nitro- phenol criter. doc		EPA.1978. contract NO.68-01-4646
Gammarus pseudolimnaeus Scud	LC50 MOR	600	NR	4	SM	FW	12	40 - 48		Temp too low	1	13274
Gammarus pseudolimnaeus Scud	LC50 MOR	25600	NR	4	SM	FW	12	40 - 48		Temp too low	1	13274
Gammarus pseudolimnaeus Scud	LC50 MOR	4440	NR	4	SM	FW	7	40 - 48		Temp too low	1	13274
Gammarus pseudolimnaeus Scud	LC50 MOR	3080	NR	4	SM	FW	17	40 - 48	7.5	Good Study	1	13274 & Thesis
Gammarus pseudolimnaeus Scud	LC50 MOR	10,920	NR	4	SM	FW	17	40 - 48	8.5	Good Study	1	13274 & Thesis
Heteropneustes fossilis Indian catfish	LC50 MOR	7450	19.0-25.2 G, 11.6- 14.2 CM	1	SU	FW	24 23 - 26.5	66 60 - 70			2	5266
Heteropneustes fossilis Indian catfish	LC50 MOR	1350	11.6-14.2 CM, 19- 25.2 G	1	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	6720	11.6-14.2 CM, 19- 25.2 G	1	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	7450	11.6-14.2 CM, 19- 25.2 G	1	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	9600	11.6-14.2 CM, 19- 25.2 G	1	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	7200	19.0-25.2 G, 11.6- 14.2 CM	2	SU	FW	24 23 - 26.5	66 60 - 70			2	5266
Heteropneustes fossilis Indian catfish	LC50 MOR	1270	11.6-14.2 CM, 19- 25.2 G	2	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	6430	11.6-14.2 CM, 19- 25.2 G	2	RU	FW					2	6432

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol Heteropneustes fossilis Indian catfish	LC50 MOR	7200	11.6-14.2 CM, 19-25.2 G	2	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	9380	11.6-14.2 CM, 19-25.2 G	2	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	7050	19.0-25.2 G, 11.6-14.2 CM	3	SU	FW	24 23 - 26.5	66 60 - 70			2	5266
Heteropneustes fossilis Indian catfish	LC50 MOR	1210	11.6-14.2 CM, 19-25.2 G	3	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	6180	11.6-14.2 CM, 19-25.2 G	3	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	7050	11.6-14.2 CM, 19-25.2 G	3	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	8970	11.6-14.2 CM, 19-25.2 G	3	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	6850	19.0-25.2 G, 11.6-14.2 CM	4	SU	FW	24 23 - 26.5	66 60 - 70			2	5266
Heteropneustes fossilis Indian catfish	LC50 MOR	1170	11.6-14.2 CM, 19-25.2 G	4	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	5930	11.6-14.2 CM, 19-25.2 G	4	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	6850	11.6-14.2 CM, 19-25.2 G	4	RU	FW					2	6432
Heteropneustes fossilis Indian catfish	LC50 MOR	8620	11.6-14.2 CM, 19-25.2 G	4	RU	FW					2	6432
Lemna minor Duckweed	LC50 GRO	1472	NR	NR	NR	FW	NR	NR	NR	Simon and Blackman. 1953 In EPA 1980 criteria		
Lepomis macrochirus Bluegill	RES	6200	JUVENILE, 92 MM, 10.7 G	4	F U	FW	20				2	3461
Lepomis macrochirus Bluegill	LC50 MOR	2400	JUVENILE, 0.32-1.2 G	1	SU	FW	22 21 - 23	32 - 48			3	5590
Lepomis macrochirus Bluegill	LC50 MOR	620	JUVENILE, 0.32-1.2 G	4	SU	FW	22 21 - 23	32 - 48	6.5-7.9	chemical precipated during test, Don't use good study	3	5590
Lepomis macrochirus Bluegill	LC50 MOR	3970	0.7 G	4	FM	FW	17.2 16.5 - 18.4	44.7 40.8 - 47.6	7.39		2	12665
Lepomis macrochirus Bluegill	LC50 MOR	620	NR	4*	SU	FW	NR	NR		*assumed value, Fr. EPA 1980 criteria		EPA. 1978. Contract No.68-01-4646

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol												
Menidia beryllina Inland silverside	ABN	1060	EMBRYOS, 2-4 CELL	7.00-8	SM	SW	25				1	2322
Menidia beryllina Inland silverside	ABN	600	EMBRYOS, 2-4 CELL	7.00-8	SM	SW	25				1	2322
Menidia beryllina Inland silverside	ABN	2170	EMBRYOS, BLASTUL STAGE	7.00-8	SM	SW	25				1	2322
Menidia beryllina Inland silverside	ABN	1200	EMBRYOS, BLASTUL STAGE	7.00-8	SM	SW	25				1	2322
Menidia beryllina Inland silverside	MOR	720 - 3430	EMBRYOS, BLASTUL STAGE	7.00-8	SM	SW	25				2	2322
Menidia beryllina Inland silverside	MOR	340 - 2000	EMBRYOS, 2-4 CELL	7.00-8	SM	SW	25				2	2322
Menidia beryllina Inland silverside	LC50 MOR	15410	LARVA, 24 D, 23.3 MG, 13.4 MM	4	SU	SW	25				2	13112
Mysidopsis bahia Opossum shrimp	LC50 MOR	48500	NR	4	NRU	SW					4	9607
Notopterus notopterus Featherback	ENZ	1340	35-60 G, 16-20 CM	1	RU	FW					2	6669
Notopterus notopterus Featherback	ENZ	89	16-20 CM, 35-60 G	30	RU	FW					2	6430
Notopterus notopterus Featherback	ENZ	67	16-20 CM, 35-60 G	30	RU	FW					2	6430
Notopterus notopterus Featherback	ENZ	67	16-20 CM, 35-60 G	30	RU	FW					2	6430
Notopterus notopterus Featherback	LC50 MOR	1890	14.6-21.4 G, 8.5-12.2 CM	1	SU	FW	24 23 - 26.5	66 60 - 70			2	5266
Notopterus notopterus Featherback	LC50 MOR	104	8.5-10.2 CM, 14.5-21.4 G	1	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	1350	8.5-10.2 CM, 14.5-21.4 G	1	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	1890	8.5-10.2 CM, 14.5-21.4 G	1	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	3250	8.5-10.2 CM, 14.5-21.4 G	1	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	570	9.0 CM, 20.6 G	1	SU	FW	23				2	15491

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol Featherback												
Notopterus notopterus Featherback	LC50 MOR	1890	9.0 CM, 20.6 G	1	SU	FW	23				2	15491
Notopterus notopterus Featherback	LC50 MOR	2200	9.0 CM, 20.6 G	1	SU	FW	23				2	15491
Notopterus notopterus Featherback	LC50 MOR	1150	4.5 CM	1	SU	FW	23				2	10532
Notopterus notopterus Featherback	LC50 MOR	1890	9.0 CM	1	SU	FW	23				2	10532
Notopterus notopterus Featherback	LC50 MOR	1990	14.5 CM	1	SU	FW	23				2	10532
Notopterus notopterus Featherback	LC50 MOR	1820	22.6 CM	1	SU	FW	23				2	10532
Notopterus notopterus Featherback	LC50 MOR	2030	9.0 CM, 20.6 G	1	SU	FW	16				2	10913
Notopterus notopterus Featherback	LC50 MOR	1890	9.0 CM, 20.6 G	1	SU	FW	23				2	10913
Notopterus notopterus Featherback	LC50 MOR	1090	9.0 CM, 20.6 G	1	SU	FW	36				2	10913
Notopterus notopterus Featherback	LC50 MOR	1630	14.6-21.4 G, 8.5- 12.2 CM	2	SU	FW	24 23 - 26.5	66 60 - 70			2	5266
Notopterus notopterus Featherback	LC50 MOR	88	8.5-10.2 CM, 14.5- 21.4 G	2	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	1200	8.5-10.2 CM, 14.5- 21.4 G	2	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	1630	8.5-10.2 CM, 14.5- 21.4 G	2	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	3100	8.5-10.2 CM, 14.5- 21.4 G	2	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	535	9.0 CM, 20.6 G	2	SU	FW	23				2	15491
Notopterus notopterus Featherback	LC50 MOR	1630	9.0 CM, 20.6 G	2	SU	FW	23				2	15491
Notopterus notopterus Featherback	LC50 MOR	2130	9.0 CM, 20.6 G	2	SU	FW	23				2	15491
Notopterus notopterus Featherback	LC50 MOR	1100	4.5 CM	2	SU	FW	23				2	10532
Notopterus notopterus Featherback	LC50 MOR	1630	9.0 CM	2	SU	FW	23				2	10532

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol												
Featherback Notopterus notopterus	LC50 MOR	1940	14.5 CM	2	SU	FW	23				2	10532
Featherback Notopterus notopterus	LC50 MOR	1700	22.6 CM	2	SU	FW	23				2	10532
Featherback Notopterus notopterus	LC50 MOR	1960	9.0 CM, 20.6 G	2	SU	FW	16				2	10913
Featherback Notopterus notopterus	LC50 MOR	1630	9.0 CM, 20.6 G	2	SU	FW	23				2	10913
Featherback Notopterus notopterus	LC50 MOR	1040	9.0 CM, 20.6 G	2	SU	FW	36				2	10913
Featherback Notopterus notopterus	LC50 MOR	1490	14.6-21.4 G, 8.5-12.2 CM	3	SU	FW	24	66			2	5266
Featherback Notopterus notopterus	LC50 MOR	80	8.5-10.2 CM, 14.5-21.4 G	3	RU	FW	23 - 26.5	60 - 70			2	6432
Featherback Notopterus notopterus	LC50 MOR	1050	8.5-10.2 CM, 14.5-21.4 G	3	RU	FW					2	6432
Featherback Notopterus notopterus	LC50 MOR	1490	8.5-10.2 CM, 14.5-21.4 G	3	RU	FW					2	6432
Featherback Notopterus notopterus	LC50 MOR	2990	8.5-10.2 CM, 14.5-21.4 G	3	RU	FW					2	6432
Featherback Notopterus notopterus	LC50 MOR	500	9.0 CM, 20.6 G	3	SU	FW	23				2	15491
Featherback Notopterus notopterus	LC50 MOR	1490	9.0 CM, 20.6 G	3	SU	FW	23				2	15491
Featherback Notopterus notopterus	LC50 MOR	2030	9.0 CM, 20.6 G	3	SU	FW	23				2	15491
Featherback Notopterus notopterus	LC50 MOR	1050	4.5 CM	3	SU	FW	23				2	10532
Featherback Notopterus notopterus	LC50 MOR	1490	9.0 CM	3	SU	FW	23				2	10532
Featherback Notopterus notopterus	LC50 MOR	1900	14.5 CM	3	SU	FW	23				2	10532
Featherback Notopterus notopterus	LC50 MOR	1630	22.6 CM	3	SU	FW	23				2	10532
Featherback Notopterus notopterus	LC50 MOR	1880	9.0 CM, 20.6 G	3	SU	FW	16				2	10913
Featherback Notopterus notopterus	LC50 MOR	1490	9.0 CM, 20.6 G	3	SU	FW	23				2	10913

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol Featherback												
Notopterus notopterus Featherback	LC50 MOR	1005	9.0 CM, 20.6 G	3	SU	FW	23				2	10913
Notopterus notopterus Featherback	LC50 MOR	1340	14.6-21.4 G, 8.5-12.2 CM	4	SU	FW	24 23 - 26.5	66 60 - 70			2	5266
Notopterus notopterus Featherback	LC50 MOR	60	8.5-10.2 CM, 14.5-21.4 G	4	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	900	8.5-10.2 CM, 14.5-21.4 G	4	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	1340	8.5-10.2 CM, 14.5-21.4 G	4	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	2860	8.5-10.2 CM, 14.5-21.4 G	4	RU	FW					2	6432
Notopterus notopterus Featherback	LC50 MOR	465	9.0 CM, 20.6 G	4	SU	FW	23				2	15491
Notopterus notopterus Featherback	LC50 MOR	1340	9.0 CM, 20.6 G	4	SU	FW	23				2	15491
Notopterus notopterus Featherback	LC50 MOR	1960	9.0 CM, 20.6 G	4	SU	FW	23				2	15491
Notopterus notopterus Featherback	LC50 MOR	1000	4.5 CM	4	SU	FW	23				2	10532
Notopterus notopterus Featherback	LC50 MOR	1340	9.0 CM	4	SU	FW	23				2	10532
Notopterus notopterus Featherback	LC50 MOR	1860	14.5 CM	4	SU	FW	23				2	10532
Notopterus notopterus Featherback	LC50 MOR	1570	22.6 CM	4	SU	FW	23				2	10532
Notopterus notopterus Featherback	LC50 MOR	1830	9.0 CM, 20.6 G	4	SU	FW	16				2	10913
Notopterus notopterus Featherback	LC50 MOR	1340	9.0 CM, 20.6 G	4	SU	FW	23				2	10913
Notopterus notopterus Featherback	LC50 MOR	970	9.0 CM, 20.6 G	4	SU	FW	23				2	10913
Notopterus notopterus Featherback	LC50 MOR	1000	7 D, 0.8-1.1 CM, 240-260 MG	4	NRU	FW	21.0 - 24.5*	73.00 -78.00*			2	13297
Notopterus notopterus Featherback	MATC MOR	40 - 50	7 D, 0.8-1.1 CM, 240-260 MG	30	NRU	FW	21.0 - 24.5*	73.00 -78.00*			2	13297

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol Oncorhynchus kisutch Coho salmon, silver salmon	MOR	10000	5-10 CM	1	SU	FW	10	0 - 17			3	15148
Oncorhynchus kisutch Coho salmon, silver salmon	MOR	10000	5-10 CM	1	SU	FW	8.9	0 - 17			3	15148
Oncorhynchus kisutch Coho salmon, silver salmon	MOR	10000	5-10 CM	1	SU	FW	11	0 - 17			3	15148
Oncorhynchus mykiss Rainbow trout	LC50	93	100 g.	4	FM	FW	11**	45	7.6-7.8	incomplete methods **Assumed value, DO NOT USE		Mckim et al. 1977 Environ. Toxicol. & Chem. 6:295-312
Oncorhynchus mykiss Rainbow trout	MOR	10000	5-10 CM	1	SU	FW	10	0 - 17			3	15148
Oncorhynchus mykiss Rainbow trout	MOR	10000	5-10 CM	1	SU	FW	8.9	0 - 17			3	15148
Oncorhynchus mykiss Rainbow trout	ET50 HAT	4600	EGG-FRY	3.1	FM	FW	12	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	3000	EGG-FRY	3.3	FM	FW	12	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	500	EGG-FRY	3.4	FM	FW	12	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	1900	EGG-FRY	3.4	FM	FW	12	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	2300	EGG-FRY	3.4	FM	FW	12	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	1200	EGG-FRY	3.5	FM	FW	12	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	900	EGG-FRY	3.6	FM	FW	12	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	1800	EGG-FRY	3.7	FM	FW	17	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	1600	EGG-FRY	3.8	FM	FW	17	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	2600	EGG-FRY	3.8	FM	FW	17	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	500	EGG-FRY	3.9	FM	FW	17	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	1000	EGG-FRY	4	FM	FW	17	154 117 - 260			1	13272

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol												
Oncorhynchus mykiss Rainbow trout	ET50 HAT	800	EGG-FRY	4.1	FM	FW	17	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	3000	EGG-FRY	9.7	FM	FW	7	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	1700	EGG-FRY	10.5	FM	FW	7	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	2400	EGG-FRY	10.5	FM	FW	7	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	1300	EGG-FRY	10.6	FM	FW	7	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	700	EGG-FRY	10.7	FM	FW	7	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	ET50 HAT	1100	EGG-FRY	10.8	FM	FW	7	154 117 - 260			1	13272
Oncorhynchus mykiss Rainbow trout	LC50 MOR	2070	100 G	2	SU	FW					2	12181
Oncorhynchus mykiss Rainbow trout	LC50 MOR	1160	18.3 G	4	FM	FW	17.2 16.5 - 18.4	44.7 40.8 - 47.6			2	12665
Oncorhynchus mykiss Rainbow trout	LC50 MOR	390	0.6-1.0 G	4	SM	FW	12	40 - 48	6.5	good study	1	13274
Oncorhynchus mykiss Rainbow trout	LC50 MOR	27120	0.6-1.0 G	4	SM	FW	12	40 - 48	9.5	good study	1	13274
Oncorhynchus mykiss Rainbow trout	LC50 MOR	1800	0.6-1.0 G	4	SM	FW	12	40 - 48	7.5	good study	1	13274 & thesis
Oncorhynchus mykiss Rainbow trout	LC50 MOR	5930	0.6-1.0 G	4	SM	FW	12	40 - 48	8.5	good study	1	13274 & Thesis
Oncorhynchus mykiss Rainbow trout	LC50 MOR	1500	0.6-1.0 G	4	SM	FW	7	40 - 48		Wrong temp.	1	13274
Oncorhynchus mykiss Rainbow trout	LC50 MOR	1780	0.6-1.0 G	4	SM	FW	17	40 - 48		Wrong temp.	1	13274
Oncorhynchus mykiss Rainbow trout	LT50 MOR	4640	600-900 G	0.63	FM	FW	11	45 45 - 46		Exposure too short	1	12181
Oncorhynchus mykiss Rainbow trout	NOEC GRO	500	EGG-FRY	14	FM	FW	12	154 117 - 260		Exposure too short	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC GRO	800	EGG-FRY	14	FM	FW	17	154 117 - 260		Exposure too short	1	13272
Oncorhynchus mykiss	NOEC GRO	500	EGG-FRY	21	FM	FW	12	154		Exposure too short	1	13272

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol												
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC GRO	800	EGG-FRY	21	FM	FW	17	154		Exposure too short	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC GRO	1300	EGG-FRY	28	FM	FW	7	154		Exposure too short	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC GRO	500	EGG-FRY	28	FM	FW	12	154		Exposure too short	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC GRO	800	EGG-FRY	28	FM	FW	17	154		Exposure too short	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC GRO	500	EGG-FRY	30	FM	FW	12	154		Exposure too short	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC GRO	800	EGG-FRY	30	FM	FW	17	154		Exposure too short	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC GRO	1070	EGG-FRY	35	FM	FW	7	154		Wrong temp.	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC GRO	1070	EGG-FRY	42	FM	FW	7	154		Wrong temp.	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC GRO	1070	EGG-FRY	49	FM	FW	7	154		Wrong temp.	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC GRO	1070	EGG-FRY	56	FM	FW	7	154		Wrong temp.	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC GRO	1070	EGG-FRY	60	FM	FW	7	154		Wrong temp.	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC MOR	3050	EGG-FRY	7	FM	FW	7	154		Wrong temp.	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	MATC Mort	2090.4	embryos	30*	FM	FW	12	154	7.91	*Test too short, Don't use, based on final mortality	1	13272
Rainbow trout												
Oncorhynchus mykiss	NOEC MOR	1890	EGG-FRY	7	FM	FW	12	154		Test too short	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC MOR	1850	EGG-FRY	7	FM	FW	17	154		Wrong temp,	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC MOR	2380	EGG-FRY	14	FM	FW	7	154		Wrong temp,test too short	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC MOR	1890	EGG-FRY	14	FM	FW	12	154		Test too short	1	13272
Rainbow trout								117 - 260				
Oncorhynchus mykiss	NOEC MOR	1850	EGG-FRY	14	FM	FW	17	154		Wrong temp,test too short	1	13272
Rainbow trout								117 - 260				

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol Oncorhynchus mykiss Rainbow trout	NOEC MOR	1650	EGG-FRY	21	FM	FW	7	154 117 - 260		Wrong temp, test too short	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1890	EGG-FRY	21	FM	FW	12	154 117 - 260		Test too short	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1850	EGG-FRY	21	FM	FW	17	154 117 - 260		Wrong temp, test too short	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1650	EGG-FRY	28	FM	FW	7	154 117 - 260		Wrong temp, test too short	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1890	EGG-FRY	28	FM	FW	12	154 117 - 260		Test too short	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1600	EGG-FRY	28	FM	FW	17	154 117 - 260		Wrong temp, test too short	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1890	EGG-FRY	30	FM	FW	12	154 117 - 260		wrong temp, test too short	1	13272
Oncorhynchus mykiss Rainbow trout	MATC MOR	1509.9	embryos	30	FM	FW	12	154	7.91	based on Mort. after hatching		13272
Oncorhynchus mykiss Rainbow trout	MATC GRO	670.8	embryos	30*	FM	FW	12	154	7.91	*test time too short Don't use	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1600	EGG-FRY	30	FM	FW	17	154 117 - 260		Wrong temp	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1650	EGG-FRY	35	FM	FW	7	154 117 - 260		Wrong temp	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1650	EGG-FRY	42	FM	FW	7	154 117 - 260		Wrong temp	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1300	EGG-FRY	49	FM	FW	7	154 117 - 260		Wrong temp	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1300	EGG-FRY	56	FM	FW	7	154 117 - 260		Wrong temp	1	13272
Oncorhynchus mykiss Rainbow trout	NOEC MOR	1300	EGG-FRY	60	FM	FW	7	154 117 - 260		Wrong temp	1	13272
Oncorhynchus tshawytscha Chinook salmon	MOR	10000	5-10 CM	1	SU	FW	11	0 - 17			3	15148
Orconectes immunis Crayfish	LC50 MOR	> 48,100	ADULT	4	FM	FW	17.2* 16.5 - 18.4	44.7 40.8 - 47.6	7.39	Unknown if test temp. is ok. No crayfish methods	2	12665
Palaemonetes pugio	OXC	20000	INTERMOLT STAGE	1	SU	SW					2	7018

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol Daggerblade grass shrimp												
Petromyzon marinus Sea lamprey	STR	5000	LARVAE, 8-13 CM	1	SU	FW	13				3	638
Phaeodactylum tricornutum Diatom	PGR	0.50E-5 M	2-4E4 CELLS/ML	3	SU	SW					3	11882
Pimephales promelas Fathead minnow	LC50 MOR	8150	47-50 D, 0.0 MM, 0.000 G	4	FM	FW	17.3	44.5	7.6		1	3217
Pimephales promelas Fathead minnow	LC50 MOR	11900	30 D, 17.1 MM, 0.073 G	4	FM	FW	25.8	45.7	7.5		1	3217
Pimephales promelas Fathead minnow	LC50 MOR	13300	30 D, 13.4 MM, 0.029 G	4	FM	FW	25.4	45.7	7.5		1	3217
Pimephales promelas fathead minnow	LC50 MOR	17000	30-35 D	4	FM	FW	25	43.3 - 48.5	7.5-7.68		2	2189
Pimephales promelas Fathead minnow	LC50 MOR	17000	30-35 D	4	FM	FW	25	43.3 - 48.5	7.5-7.68		2	2189
Pimephales promelas Fathead minnow	LC50 MOR	16700	NR	4*	FM	FW	NR	NR	NR	From EPA 1980 criter. doc., *assumed value Suspect same as ref. 2189		Phipps et al. manuscript
Pimephales promelas Fathead minnow	LC50 MOR	8390	0.2 G	4	FM	FW	17.2 16.5 - 18.4	44.7 40.8 - 47.6			2	12665
Pimephales promelas Fathead minnow	LC50 MOR	10500	34 D, 19.4 MM, 0.103 G	4	FM	FW	24.8	45.4	7.79	See CESARS for pH	1	12447
Pimephales promelas Fathead minnow	LC50 MOR	6580	30 D, 17.1 MM, 0.074 G	4	FM	FW	26.6	47.2	7.3	See CESARS for pH	1	12447
Pimephales promelas Fathead minnow	LC50 MOR	10600	32 D, 18.7 MM, 0.096 G	4	FM	FW	26.5	45	7.73	See CESARS for pH	1	12447
Pimephales promelas Fathead minnow	LC50 MOR	19400	30 D	4	FM	FW	25.6	47	7.56	See CESARS for pH	1	12447
Pimephales promelas Fathead minnow	LC50 MOR	10600	34 D, 19.4 MM, 0.103 G	4	FM	FW	24.7	44.9	7.66	See CESARS for pH	1	12447
Pimephales promelas Fathead minnow	LC50 MOR	11000	28 D, 16.5 MM, 0.075 G	4	FM	FW	25.3	44.5	7.7	pH from AQUIRE	1	12859
Pimephales promelas Fathead minnow	LC50 MOR	11000	31 D, 17.0 MM, 0.073 G	4	FM	FW	25.6	43.8	7.7	pH from AQUIRE	1	12859
Pimephales promelas	LC50 MOR	16000	30-35 D	8	FM	FW	25				2	2189

Table 1. Acute and Chronic Data: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol Fathead minnow								43.3 - 48.5				
Ptychocheilus oregonensis Northern squawfish	EQU	10000	5-10 CM	1	SU	FW	11				3	15148
Ptychocheilus oregonensis Northern squawfish	MOR	5000	5-10 CM	1	SU	FW	12	0 - 17			3	15148
Ptychocheilus oregonensis Northern squawfish	MOR	10000	5-10 CM	1	SU	FW	10	34 - 51			3	15148
Ptychocheilus oregonensis Northern squawfish	MOR	10000	5-10 CM	1	SU	FW	8.9	0 - 17			3	15148
Ptychocheilus oregonensis Northern squawfish	MOR	10000	5-10 CM	1	SU	FW	20	0 - 17			3	15148
Ptychocheilus oregonensis Northern squawfish	MOR	10000	5-10 CM	1	SU	FW	11	34 - 51			3	15148
Ptychocheilus oregonensis Northern squawfish	MOR	10000	5-10 CM	1	SU	FW		0 - 17			3	15148
Scenedesmus subspicatus Green algae	EC50 BMS	26000	LOG GRO PHASE	2	SU	FW	24				2	2997
Scenedesmus subspicatus Green algae	EC50 GRO	> 50000	LOG GRO PHASE	2	SU	FW	24				2	2997
Selenastrum capricornutum Green algae	EC50 CLR	22000	NR	1	NRU	FW					4	9607
Selenastrum capricornutum Green algae	EC50 CLR	9870	NR	2	NRU	FW					4	9607
Selenastrum capricornutum Green algae	EC50 CLR	8780	NR	3	NRU	FW					4	9607
Selenastrum capricornutum Green algae	EC50 CLR	9200	NR	4	NRU	FW					4	9607
Selenastrum capricornutum Green algae	EC50 PGR	10900	NR	4	NRU	FW					4	9607
Selenastrum capricornutum Green algae	NOEC CLR	< 1000	NR	4	NRU	FW					4	9607
Selenastrum capricornutum Green algae	EC50 PGR	9200	NA	4	NR	FW	NR	NR		Fr. EPA 1980 criteria, Based on Chloro. <u>a</u>		EPA.1978. Contract No. 68-01-4646
Skeletonema costatum Diatom	EC50 PSE	93200	NR	4	NRU	SW					4	9607

Table 2a. Chronic Values: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur. (days)	Ex Ty	Fresh Salt	Temp. (C)	Hardness (mg/L)	pH	D C	Comments	Ref No.
51285 2,4-Dinitrophenol												
Cyprinus carpio Common carp	MATC MUL	30.29	LARVAE, 8 MM	60	RU	FW	20.0 - 23.	60 - 88	7.2		See temp Flux, Based on growth	10385
Daphnia magna Water flea	NOEC REP	2000	<= 24 H	21	RU*	FW	25	286**	7.6-7.7		*measured on a irregular basis,**converted from Ger. Degree hard.	847
Oncorhynchus mykiss Rainbow trout	MATC MOR	1509.9	embryos	30	FM	FW	12	154	7.91		based on Mort. after hatching	13272

Table 2b. Acute-Chronic Ratio: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Acute Value (ug/L)	Chronic Value (ug/L)	Ratio	Ref. No.
Cyprinodon variegatus sheepshead minnow	29400	7900	3.7	EPA 1978. See 1980 EPA Criteria doc

Generic ACR=18
Final ACR= 10.62

Table 3a. Genus Mean Acute Values: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Dur. (days)	Ex Ty	Fresh Salt	SMAV (ug/L)	GMAV (ug/L)	Ref No.
51285 2,4-Dinitrophenol								
Aplexa hypnorum Snail	LC50 MOR	6490	4	FM	FW	6490	6490	12665
Carassius auratus Goldfish	LC50 MOR	23000	4	FM	FW	23000	23000	12665
Casostomus commersoni White sucker	LC50 MOR	>4590	4	FM	FW	>4590	>4590	12665
Daphnia magna water flea	LC50 MOR	4100	2	SU	FW	4094.99	4094.99	5184
Daphnia magna water flea	LC50 MOR	4090	2	SU	FW			EPA. 1978
Gammarus pseudolimnaeus Scud	LC50 MOR	10920	4	SM	FW	5799.44	5799.44	13274 & thesis
Gammarus pseudolimnaeus Scud	LC50 MOR	3080	4	SM	FW			13274 & thesis
Lepomis macrochirus	LC50 MOR	3970	4	FM	FW	3970	3970	12665
Oncorhynchus mykiss Rainbow trout	LC50 MOR	390	4	SM	FW	3259.64	3259.64	13274
Oncorhynchus mykiss Rainbow trout	LC50 MOR	27120	4	SM	FW			13274
Oncorhynchus mykiss Rainbow trout	LC50 MOR	1800	4	SM	FW			13274 & thesis
Oncorhynchus mykiss Rainbow trout	LC50 MOR	5930	4	SM	FW			13274 & thesis
Orconectes immunis crayfish	LC50 MOR	>48100	4	FM	FW	>48100	>48100	12665
Pimephales promelas Fathead minnow	LC50 MOR	11900	4	FM	FW	12126.043	12126.043	3217
Pimephales promelas Fathead minnow	LC50 MOR	13300	4	FM	FW			3217

Table 3a. Genus Mean Acute Values: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Dur. (days)	Ex Ty	Fresh Salt	SMAV (ug/L)	GMAV (ug/L)	Ref No.
51285 2,4-Dinitrophenol Pimephales promelas Fathead minnow	LC50 MOR	17000	4	FM	FW			2189
Pimephales promelas Fathead minnow	LC50 MOR	17000	4	FM	FW			2189
Pimephales promelas Fathead minnow	LC50 MOR	10500	4	FM	FW			12447
Pimephales promelas Fathead minnow	LC50 MOR	6580	4	FM	FW			12447
Pimephales promelas Fathead minnow	LC50 MOR	10600	4	FM	FW			12447
Pimephales promelas Fathead minnow	LC50 MOR	19400	4	FM	FW			12447
Pimephales promelas Fathead minnow	LC50 MOR	10600	4	FM	FW			12447
Pimephales promelas Fathead minnow	LC50 MOR	11000	4	FM	FW			12859
Pimephales promelas Fathead minnow	LC50 MOR	11000	4	FM	FW			12859
Tetrahymena pyriformis ciliate	IC50	14770	2	SNR	FW	14770	14770	Schultz. 1987. Ecotoxic. & Environ. Safety 14:178- 183

Table 3b. Ranked Genus Mean Acute Values: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Dur. (days)	Ex Ty	Fresh Salt	GMAV (ug/L)
51285 2,4-Dinitrophenol					
Orconectes immunis crayfish	LC50 MOR	4	FM	FW	>48100
Carassius auratus Goldfish	LC50 MOR	4	FM	FW	23000
Tetrahymena pyriformis ciliate	IC50	2	SNR	FW	14770
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	12126.043
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Pimephales promelas Fathead minnow	LC50 MOR	4	FM	FW	
Aplexa hypnorum Snail	LC50 MOR	4	FM	FW	6490
Gammarus pseudolimnaeus Scud	LC50 MOR	4	SM	FW	5799.44

Table 3b. Ranked Genus Mean Acute Values: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Dur. (days)	Ex Ty	Fresh Salt	GMAV (ug/L)
51285 2,4-Dinitrophenol Gammarus pseudolimnaeus Scud	LC50 MOR	4	SM	FW	
Casostomus commersoni White sucker	LC50 MOR	4	FM	FW	>4590
Daphnia magna water flea	LC50 MOR	2	SU	FW	4094.99
Daphnia magna water flea	LC50 MOR	2	SU	FW	
Lepomis macrochirus	LC50 MOR	4	FM	FW	3970
Oncorhynchus mykiss Rainbow trout	LC50 MOR	4	SM	FW	3259.64
Oncorhynchus mykiss Rainbow trout	LC50 MOR	4	SM	FW	
Oncorhynchus mykiss Rainbow trout	LC50 MOR	4	SM	FW	
Oncorhynchus mykiss Rainbow trout	LC50 MOR	4	SM	FW	

Minimum families represented: 7
 Secondary Acute Factor: 4.3
 Secondary Acute Value: 758.055

NOV 20, 1990
D. White

Table 4. Plant Values: 2,4-Dinitrophenol

Species Latin Name Species Common Name	Effect	Conc. (ug/L)	Life Stage	Dur (days)	Ex Ty	Fresh Salt	Temperature (C)	Hardness (mg/L)	pH	Comments	D C	Ref No.
51285 2,4-Dinitrophenol												
Lemna minor Duckweed	LC50 GRO	1472	NR	NR	NR	FW	NR	NR	NR	Simon and Blackman. 1953 In EPA 1980 criteria Too little information		
Phaeodactylum tricornutum Diatom	PGR	0.50E-5 M	2-4E4 CELLS/ML	3	SU	SW				Salt water, too short of exposure	3	11882
Scenedesmus subspicatus Green algae	EC50 BMS	26000	LOG GRO PHASE	2	SU	FW	24			Too short of exposure	2	2997
Scenedesmus subspicatus Green algae	EC50 GRO	> 50000	LOG GRO PHASE	2	SU	FW	24			Too short of exposure	2	2997
Selenastrum capricornutum Green algae	EC50 CLR	22000	NR	1	NRU	FW				Based on Abstract	4	9607
Selenastrum capricornutum Green algae	EC50 CLR	9870	NR	2	NRU	FW				Based on Abstract	4	9607
Selenastrum capricornutum Green algae	EC50 CLR	8780	NR	3	NRU	FW				Based on Abstract	4	9607
Selenastrum capricornutum Green algae	EC50 CLR	9200	NR	4	NRU	FW				Based on Abstract	4	9607
Selenastrum capricornutum Green algae	EC50 PGR	10900	NR	4	NRU	FW				Based on Abstract	4	9607
Selenastrum capricornutum Green algae	NOEC CLR	< 1000	NR	4	NRU	FW				Based on Abstract	4	9607
Selenastrum capricornutum Green algae	EC50 PGR	9200	NA	4	NR	FW	NR	NR		Fr. EPA 1980 criteria, Based on Chloro. a Salt water based		EPA.1978. Contract No. 68-01-4646
Skeletonema costatum Diatom	EC50 PSE	93200	NR	4	NRU	SW				Based on Abstract	4	9607