

US EPA ARCHIVE DOCUMENT

08/11/98

GUIDE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STUDY TIME	DOSE TYPE	TOXICITY	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV DATE	MRID/ DATE ACC	REVIEWER(S)	LAB CA
LINE			STAGE										DATE	ACC		GOR
72-1	Channel catfish	<i>Ictalurus punctatus</i>	N.R.	S	Tech	96 hr	LC50 > 1000		PPM	N.R.	N.A.	N.R.	1975	00J14705	R. Balcomb	SBI C
72-3	Pinfish	<i>Lagodon rhomboides</i>	Adult	F	94	96 hr	LC50 85		PPM	7.8-930	N.R.	N.R.	1986	40228401	F.L. Mayer	EPA C
72-3	Spot	<i>Leiostomus xanthurus</i>	Adult	S	94	96 hr	LC50 > 100		PPM	N.R.	N.R.	N.R.	1986	40228401	F.L. Mayer	EPA C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	Juv	S	94	96 hr	LC50 > 50		PPM	N.R.	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	N.R.	S	75	96 hr	LC50 2000		PPM	N.R.	500	N.R.	1970	00014706	R. Balcomb	BIO C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	2.1 g	S	75WP	96 hr	LC50 > 180		PPM	N.R.	N.A.	N.R.	1975	N.R.	J. McCann	EPA C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	N.R.	S	Tech	96 hr	LC50 > 1000		PPM	N.R.	N.A.	N.R.	1970	00014705	R. Balcomb	SBI C
72-1	Largemouth bass	<i>Micropterus salmoides</i>	1.1-3g	S	75	96 hr	LC50 3000		PPM	N.R.	500	N.R.	1971	00014707	R. Balcomb	CCC C
72-1	Cutthroat trout	<i>Oncorhynchus clarki</i>	0.7 g	S	94	96 hr	LC50 > 50		PPM	N/A	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	1.1 g	S	97	96 hr	LC50 110		PPM	63-190	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	N.R.	S	N.R.	24 hr	LC50 895		PPM	N.R.	N.R.	N.R.	1975	05017149	R. Balcomb	UCL S
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	N.R.	S	Tech	24 hr	LC50 880		PPM	N.R.	N.R.	N.R.	1979	05020323	R. Balcomb	FWS S
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	N.R.	S	Tech	96 hr	LC50 > 1000		PPM	N.R.	N.A.	N.R.	1970	00014705	R. Balcomb	SBI C
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	1.5 g	S	75WP	96 hr	LC50 730		PPM	580-920	N.R.	N.R.	NR	N.R.	B. Montague	FWS S
72-1	Yellow perch	<i>Perca flavescens</i>	2 g	S	94	96 hr	LC50 > 50		PPM	N.R.	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Yellow perch	<i>Perca flavescens</i>	1.8 g	S	75WP	96 hr	LC50 > 100		PPM	N.R.	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Fathead minnow	<i>Pimephales promelas</i>	1.0 g	S	75WP	96 hr	LC50 > 1000		PPM	N.R.	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Atlantic salmon	<i>Salmo salar</i>	Juv	S	97	96 hr	LC50 > 50		PPM	N.R.	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Brook trout	<i>Salvelinus fontinalis</i>	1.5 g	S	94	96 hr	LC50 > 50		PPM	N.R.	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Brook trout	<i>Salvelinus fontinalis</i>	0.2 g	S	75	96 hr	LC50 > 100		PPM	N.R.	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
141-1b	Honey bee	<i>Apis mellifera</i>	adult	C	75	24 hr	LD50 1.2		UGB	N.R.	N.R.	N.R.	1971	N.R.	A. Vaughan	WSU C
141-1	Honey bee	<i>Apis mellifera</i>	Worker	C	75	2 hr	LD50 < 1		LBA	N.R.	N.R.	N.R.	1971	014715	A. Vaughan	CCC C
72-2	Midge	<i>Chironomus plumosus</i>	3rd-I	S	94	48 hr	LC50 > 50		PPM	N/A	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-2	Midge	<i>Chironomus plumosus</i>	3rd-I	S	94	48 hr	LC50 > 1000		PPM	N.R.	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS S
141-3	Lacewing	<i>Chrysopa carnea</i>	N.R.	O	Tech	N.R.	LD50 5.57		PPB	N.R.	N.R.	N.R.	1981	05001012	A. Vaughn	REF S
72-2	Stonefly	<i>Isogenus sp.</i>	Juv	S	94	96 hr	LC50 11.7		PPM	8.7-15.8 < 8.4	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-2	Stonefly	<i>Isogenus sp.</i>	Juv	S	75	96 hr	LC50 12.0		PPM	8.0-17.9 < 8.0	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-2	Stonefly	<i>Pteronarcella badia</i>	1st-Y	S	94	96 hr	LC50 6.4		PPM	5.3-7.8	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS C
72-2	Stonefly	<i>Pteronarcella badia</i>	naiad	S	94	96 hr	LC50 9.5		PPM	7.3-12.3	N.R.	N.R.	1980	40098001	Mayer & Ellersieck	FWS C
72-2	Stonefly	<i>Skwala sp.</i>	naiad	S	94	96 hr	LC50 12		PPM	N.R.	N.R.	N.R.	1980	40094602	Johnson & Finley	FWS S
72-3	Eastern oyster	<i>Crassostrea virginica</i>	Larv	S	94	48 hr	EC50 150		PPM	8.0-300	N.R.	N.R.	1986	40228401	F.L. Mayer	EPA C
72-3	Eastern oyster	<i>Crassostrea virginica</i>	EmbLrv	S	Tech	48 hr	EC50 5.41		PPM	3.2-8.9	0.5	N.R.	1970	00014713	L. Windberg	BIO C
123-1b	Begonia	<i>Begonia sp.</i>	JuvPln	VV	15.6	2WKS	EC50 < 0.0075		LB/G	N.R.	N.A.	N.R.	1978	N.R.	R.W. Holst	CCC S
123-1b	Tomato	<i>Lycopersicon esculentum</i>	JuvPln	VV	15.6	5WKS	EC50 < 0.75		LB/G	N.R.	N.A.	N.R.	1978	N.R.	R.W. Holst	CCC S

***Acephate Shaughnessy Number: 103301

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GUIDE COMMON NAME SCIENTIFIC NAME AGE/SIZE TEST %AI STUDY DOSE TOXICITY TOX 95% CL. NOEL/ NOEC SLOPE STUDY REV. MRID/ REVIEWER(S) LAB CA
 LINE ***Acephate Shaughnessey Number: 103301

LINE	GUIDE COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STUDY DOSE	TOXICITY LEVEL	TOX 95% CL.	NOEL/ NOEC	SLOPE	STUDY DATE	REV. MRID/	REVIEWER(S)	LAB CA
***Bifenthrin Shaughnessey Number: 128825														
71-1a	Mallard duck	Anas platyrhynchos	N.R.	O	88.3	21 D	LD50 > 2150	MGK	N.R.	N.R.	1983	ACC251727	R. Farringer	BLA C
71-2b	Mallard duck	Anas platyrhynchos	8 D	D	88.3	8 D	LC50 1280	PPM	790-2074	< 312	1983	ACC251727	R. Farringer	BLA C
71-4b	Mallard duck	Anas platyrhynchos	EarlyLf	R	88.3	154 D	LOEL > 75	PPM	N.R.	> 75	1986	264645	L. Touart	HRC C
71-1a	Bobwhite quail	Colinus virginianus	46-50W	O	88.3	21 D	LD50 1800	MGK	1250-2592	< 464	1983	ACC251727	R. Farringer	BLA C
71-2a	Bobwhite quail	Colinus virginianus	9 D	D	88.3	8 D	LC50 4450	PPM	3870-5118	< 2500	1983	ACC251727	R. Farringer	BLA C
71-4a	Bobwhite quail	Colinus virginianus	EarlyLf	R	88.3	168 D	LOEL > 75	PPM	N.R.	> 75	1986	264644	L. Touart	HRC C
72-2a	Water flea	Daphnia magna	1st-I	S	88.3	48 hr	EC50 1.6	PPB	1.35-1.95	< 0.6	1983	ACC251727	R. Farringer	EGG C
72-4b	Water flea	Daphnia magna	EarlyLf	F	70	21 D	LOEC 0.003	PPB	N.R.	0.0013	1989	41156501	Art Buikema	ABL C
72-3c	Mysid	Mysidopsis bahia	<24 hr	S	88.3	96 hr	LC50 0.00397	PPB	0.0031-0.0850	.0025	1987	264647	L. Touart	FMC C
72-3a	Sheepshead minnow	Cyprinodon variegatus	0.28 g	F	88.3	96 hr	LC50 17.5	PPB	14.6-21.1	5.24	1986	264646	L. Touart	FMC C
72-1	Bluegill sunfish	Lepomis macrochirus	2.5 g	F	88.3	96 hr	LC50 0.35	PPB	0.30-0.38	< 0.18	1983	ACC251727	R. Farringer	EGG C
72-1	Rainbow trout	Oncorhynchus mykiss	1 g	F	88.3	96 hr	LC50 0.15	PPB	0.1-0.19	< 0.09	1983	ACC251727	R. Farringer	EGG C
72-5	Fathead minnow	Pimephales promelas	LifCyc	F	70	368 D	LOEL 0.096	UGB	N.A.	0.04	1988	40791301	L. Touart	ABL C
141-1	Honey bee	Apis mellifera	Worker	C	0.8EC	48 hr	LD50 0.0146	UGB	N.R.	N.R.	1981	VAOTFAL01	A. Vaughan	FMC C
141-1	Honey bee	Apis mellifera	Worker	C	2 EC	48 hr	LD50 > 1.0	LBA	N.A.	N.A.	1986	ACC264649	A. Vaughan	UCR C
72-3b	Eastern oyster	Crassostrea virginica	Embryo	S	88.3	48 hr	EC50 285	PPB	N.R.	< 0.126	1987	40383501	L. Touart	ESE C
72-3b	Eastern oyster	Crassostrea virginica	SPAT	S	88.3	96 hr	EC50 > 2.15	PPB	N.R.	< 0.08	1987	264643	L. Touart	ESE S

***Carbaryl Shaughnessey Number: 056801

N.A.	Bullfrog	Rana catesbeiana	Adult	O	50	N.R.	LD50 > 4000	MGK	N.R.	N.R.	1984	00160000	Hudson, R.H. et al	FWS S
123-2	Green algae	Selenastrum capricornutum	N.R.	S	99.7	5 D	EC50 1.1	PPM	1.1-1.3	0.37	1992	42372802	H. Craven (KBN)	TES C
123-2	Green algae	Selenastrum capricornutum	N.R.	S	99.7	5 D	EC50 1.1	PPM	1.1-1.2	0.37	1992	42372802	R. Hirsch	TES C
71-1b	Mallard duck	Anas platyrhynchos	3 MOS	O	85	14 D	LD50 > 2564	MGK	N.R.	N.R.	1984	00160000	Hudson, R.H. et al	FWS C
71-2b	Mallard duck	Anas platyrhynchos	24 D	D	99.8	8 D	LC50 > 5000	PPM	N.R.	N.R.	1975	00022923	Hill, E.F. et al	FWS C
71-4b	Mallard duck	Anas platyrhynchos	EarlyLf	R	99.9	26WKS	LOEL > 300	PPM	N.R.	300	1986	ACC263701	L. Turner	BLA C
71-4b	Mallard duck	Anas platyrhynchos	EarlyLf	R	99.9	168 D	LOEL 1000	PPM	N.A.	300	1986	ACC263701	L. Turner	BLA S
71-1b	Canada goose	Branta canadensis	N.R.	O	50	14 D	LD50 1790	MGK	1.5K-2.1	N.R.	1984	00160000	Hudson, R.H. et al	FWS S
71-2	Bobwhite quail	Colinus virginianus	23 D	D	99.8	8 D	LC50 > 5000	PPM	N.R.	N.R.	1975	2875	Hill, E.F. et al	FWS C

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 LINE TEST TYPE TIME TYPE LEVEL

***Carbaryl Shaughnessy Number: 056801

71-4a	Bobwhite quail	Colinus virginianus	ErlyLf	R	99.9	28 D	LOEL > 3000	PPM	N.R.	> 3000	N.R.	1986	1986 160044	L. Turner	BLA C
71-1b	Rock dove	Columba livia	N.R.	O	85	14 D	LD50 1000	MGK	N.R.	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS S
71-2	Japanese quail	Coturnix japonica	7 D	D	99.8	8 D	LC50 > 5000	PPM	N.R.	N.R.	N.R.	1975	1975 00022923	Hill, E.F. et al	FWS S
71-2a	Ring-necked pheasant	Phasianus colchicus	23 D	D	99.8	8 D	LC50 > 5000	PPM	N.R.	N.R.	N.R.	1975	1975 28757	Hill, E.F. et al	FWS C
71-1	Ring-necked pheasant	Phasianus colchicus	3-4MOS	O	95	14 D	LD50 > 2000	MGK	N.R.	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS C
71-1	Sharp-tailed grouse	Tympanuchus phasianellus	N.R.	O	85	14 D	LD50 < 1000	MGK	N.R.	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS S
72-2	Sowbug	Asellus brevicaudus	Adult	S	99.5	96 hr	LC50 280	PPB	214-367	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-3c	Blue crab	Callinectes sapidus	Juv	F	99.7	48 hr	LC50 320	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-2	Seed shrimp	Cypridopsis vidua	Adult	S	99.5	48 hr	LC50 114	PPB	74-179	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-2a	Water flea	Daphnia magna	1st-I	S	99.5	48 hr	EC50 5.6	PPB	2.7-12	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-2b	Water flea	Daphnia magna	1st-I	S	Degr	48 hr	EC50 730	PPB	600-870	< 290	N.R.	1986	1989 40955204	J. Goodyear	SBI C
72-2b	Water flea	Daphnia magna	1st-I	S	49	48 hr	EC50 7100	PPB	6000-8400	N.R.	N.R.	1985	1988 150538	L. Touart	SBI S
72-2	Water flea	Daphnia magna	<24 hr	S	44	48 hr	EC50 13	PPB	10-20	< 10	N.R.	1985	1988 150540	L. Touart	SBI S
72-2	Water flea	Daphnia magna	<24 hr	F	47.3	48 hr	EC50 2.77	PPB	1.54-4.39	1.57	N.R.	1992	1993 42432401	R. Hirsch	TES S
72-2	Water flea	Daphnia magna	<24 hr	F	43.7	48 hr	EC50 6.66	PPB	3.14-8.64	3.14	N.R.	1992	1992 42397902	R. Hirsch (KBN)	TES C
72-2	Water flea	Daphnia magna	<24 hr	F	81.5	48 hr	EC50 7.2	PPB	6.33-8.37	3.10	N.R.	1992	1992 42397903	M. Hirsch	TES C
72-4b	Water flea	Daphnia magna	ErlyLf	F	99	8-21D	LOEC 6000	PPB	N.R.	3300	N.R.	1985	1988 150901	L. Touart	SBI S
72-2	Water flea	Daphnia pulex	1st In	S	99.5	48 hr	EC50 6.4	PPB	N.R.	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-2a	Scud	Gammarus fasciatus	Adult	S	99.5	96 hr	LC50 26	PPB	16-39	N.R.	N.R.	1986	1986 40096001	Mayer & Ellersieck	FWS S
72-2	Scud	Gammarus lacustris	Adult	S	99.5	96 hr	LC50 22	PPB	16-30	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-2	Scud	Gammarus pseudolimnaeus	Adult	S	99.5	48 hr	LC50 8.0	PPB	4.9-13	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-3	Mysid	Mysidopsis bahia	1-5 D	S	99	96 hr	LC50 6.7	PPB	5.1-8.7	< 5.1	N.R.	1985	1985 150544	L. Touart	SBI S
72-3	Mysid	Mysidopsis bahia	Juv	S	Degr	96 hr	LC50 210	PPB	190-250	60	N.R.	1986	1989 40955202	J. Goodyear	SBI C
72-3	Mysid	Mysidopsis bahia	N.R.	S	81.5	96 hr	LC50 9.6	PPB	8.3-11.0	3.15	5.6	1992	1993 42397904	R. Hirsch	TES C
72-3	Mysid	Mysidopsis bahia	<24 hr	F	99.7	96 hr	LC50 5.7	PPB	N.R.	3.2	N.R.	1992	1994 42343401	R. Hirsch	TES C
72-3	Mysid	Mysidopsis bahia	<24 hr	F	43.7	96 hr	LC50 20.2	PPB	N.R.	11.0	N.R.	1992	1994 42343402	R. Hirsch	TES C
72-3	Mysid	Mysidopsis bahia	<24 hr	F	81.5	96 hr	LC50 9.30	PPB	N.R.	7.42	N.R.	1992	1994 42565601	R. Hirsch	TES C
72-2	Glass shrimp	Palaemonetes kadiakensis	Adult	S	99.5	96 hr	LC50 5.6	PPB	3.6-8.3	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-3c	Grass shrimp	Palaemonetes pugio	Juv	F	99.7	48 hr	LC50 28	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-3c	Brown shrimp	Penaeus aztecus	Juv	F	99.7	48 hr	LC50 1.5	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-3c	Pink shrimp	Penaeus duorarum	Juv	F	99.7	48 hr	LC50 32	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-2	Crayfish	Procambarus sp.	Juv	S	99.5	96 hr	LC50 1.9	PPB	1.1-3.1	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-2a	Daphnid	Simocephalus serrulatus	1st-I	S	99.5	48 hr	LC50 7.6	PPB	6.2-9.3	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-3a	Sheepshead minnow	Cyprinodon variegatus	0.27 g	S	99	96 hr	LC50 2.2	PPM	1.3-3.6	< 1.3	N.R.	1985	1988 150539	L. Touart	SBI S

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72-3d	Sheepshead minnow	Cyprinodon variegatus	Juv	S	Degr	96 hr	LC50	1.2	PPM	0.81-1.7	0.46	N.R.	1986	1988	40955201	J. Goodyear	SBI C	
72-3	Sheepshead minnow	Cyprinodon variegatus	0.90 g	F	99.7	96 hr	LC50	2.6	PPM	2.3-2.8	0.76	N.R.	1992	1994	42372801	H. Craven (KBN)	TES C	
72-3	Sheepshead minnow	Cyprinodon variegatus	N.R.	F	99.7	96 hr	LC50	2.6	PPM	2.3-2.8	0.74	15	1992	1993	42372801	R. Hirsch	TES C	
72-1	Carp	Cyprinus carpio	0.6 g	S	99.5	96 hr	LC50	5.28	PPM	4.6-6.0	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	
72-3a	Longnose Killifish	Fundulus similis	Juv	S	99.7	48 hr	LC50	1.6	PPM	N.R.	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA S	
72-1	Black bullhead	Ictalurus melas	1.2 g	S	99.5	96 hr	LC50	20	PPM	18-24	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Channel catfish	Ictalurus punctatus	1.5 g	S	99.5	96 hr	LC50	7.79	PPM	4.7-12.8	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Green sunfish	Lepomis cyanellus	1.1 g	S	99.5	96 hr	LC50	9.46	PPM	7.0-12.8	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Bluegill sunfish	Lepomis macrochirus	0.6 g	F	99.5	96 hr	LC50	5.047	PPM	4.4-5.8	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	S	30	96 hr	LC50	49	PPM	23-105	N.R.	N.R.	1970	1982	0059272	L. Touart	EPA C	
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	S	5	96 hr	LC50	290	PPM	189-446	N.R.	N.R.	1968	1982	0042381	L. Touart	EPA C	
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	S	99.9	96 hr	LC50	14	PPM	7.7-25.2	N.R.	N.R.	1969	1982	0043115	L. Touart	EPA C	
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	S	Degr	96 hr	LC50	0.76	PPM	0.51-1.0	< .43	N.R.	1986	1988	40955203	J. Goodyear	SBI C	
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	S	44	96 hr	LC50	9.8	PPM	7.8-13	< 7.8	N.R.	1985	1988	151519	L. Touart	SBI C	
72-1	Bluegill sunfish	Lepomis macrochirus	0.6 g	S	50	96 hr	LC50	22.0	PPM	14-34.5	< 11	N.R.	1971	1971	N.R.	J. McCann	ARC C	
72-1	Bluegill sunfish	Lepomis macrochirus	0.5 g	S	50WP	96 hr	LC50	24	PPM	13-42	N.R.	N.R.	1971	1971	N.R.	J. McCann	ARC S	
72-1	Bluegill sunfish	Lepomis macrochirus	0.9 g	S	99.5	96 hr	LC50	6.4	PPM	4.4-9.2	N.R.	N.R.	1980	1986	40094602	Johnson & Finley	FWS C	
72-1	Largemouth bass	Micropterus salmoides	Juv	S	99.7	48 hr	LC50	2.4	PPM	N.R.	N.R.	N.R.	1986	1986	40278401	F.L. Mayer	EPA S	
72-3a	Striped mullet	Mugil cephalus	0.6 g	S	99.5	96 hr	LC50	0.97	PPM	0.77-1.2	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Cutthroat trout	Oncorhynchus clarki	5.1 g	S	99.5	96 hr	LC50	2.4	PPM	1.86-3.0	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Coho salmon	Oncorhynchus kisutch	1.5 g	S	99.5	96 hr	LC50	1.2	PPM	0.8-1.8	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Rainbow trout	Oncorhynchus mykiss	Juv	S	Degr	96 hr	LC50	1.4	PPM	1.0-2.0	0.55	N.R.	1986	1988	40955204	J. Goodyear	SBI C	
72-1	Rainbow trout	Oncorhynchus mykiss	0.86 g	S	44	96 hr	LC50	1.4	PPM	1.1-1.7	< 0.78	N.R.	1985	1988	151417	L. Touart	SBI C	
72-1	Rainbow trout	Oncorhynchus mykiss	N.R.	N.R.	81.5	96 hr	LC50	3.3	PPM	2.7-4.0	N.R.	4.2	1992	1993	42397901	R. Hirsch	TES C	
72-1	Rainbow trout	Oncorhynchus mykiss	0.85 g	F	81.5	96 hr	LC50	3.3	PPM	N.R.	0.73	N.R.	1992	1994	42397901	R. Hirsch	TES C	
72-1	Rainbow trout	Oncorhynchus mykiss	1.2 g	S	50WP	96 hr	LC50	3.45	PPM	2.8-4.2	1.8	N.R.	1971	1971	N.R.	J. McCann	ARC C	
72-1	Rainbow trout	Oncorhynchus mykiss	0.5 g	S	50	96 hr	LC50	4.5	PPM	2.7-7.7	1.8	N.R.	1971	1971	N.R.	J. McCann	ARC C	
72-1	Chinook salmon	Oncorhynchus tshawytscha	Fragling	F	99.5	96 hr	LC50	2.4	PPM	1.6-3.5	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS S	
72-1	Yellow perch	Perca flavescens	0.9 g	S	99.5	96 hr	LC50	0.35	PPM	0.28-0.43	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Fathead minnow	Pimephales promelas	0.8 g	S	99.5	96 hr	LC50	7.7	PPM	4.8-12	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	
72-5	Fathead minnow	Pimephales promelas	LifCyc	SR	99	9 MOS	LOEC	680	PPB	N.R.	210	N.R.	1972	1982	TOUCAR05	L. Touart	SBI C	
72-1	Black crappie	Pomoxis nigromaculatus	1.0 g	S	99.5	96 hr	LC50	2.6	PPM	1.2-5.7	N.R.	N.R.	1980	1986	40094602	Johnson & Finley	FWS C	
72-1	Atlantic salmon	Salmo salar	0.2 g	S	99.5	96 hr	LC50	0.25	PPM	0.12-0.79	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Brown trout	Salmo trutta	0.6 g	S	99.5	96 hr	LC50	6.3	PPM	5.5-7.2	N.R.	N.R.	1986	1986	40098001	Mayer & Eilersieck	FWS C	

***Carbaryl Shaughnessy Number: 056801

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GUIDE COMMON NAME SCIENTIFIC NAME AGE/SIZE TEST & AI STAGE TYPE STUDY DOSE TOXICITY TOX 95% CL NOEL/ NOEC SLOPE STUDY REV MRID/ DATE DATE ACC REVIEWER(S) LAB CA GOR

***Carbaryl Shaughnessey Number: 056801

GUIDE COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST & AI	STAGE	TYPE	STUDY DOSE	TOXICITY	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV MRID/ DATE DATE ACC	REVIEWER(S)	LAB CA	GOR
72-1 Brook trout	Salvelinus fontinalis	0.8 g	S		S	99.5	96 hr LC50 3.0	PPM	2.0-4.5	N.R.	N.R.	1986 40098001	Mayer & Ellersieck	FWS C	
72-1 Lake trout	Salvelinus namaycush	1.7 g	S		S	99.5	96 hr LC50 0.69	PPM	0.5-0.9	N.R.	N.R.	1986 40098001	Mayer & Ellersieck	FWS C	
141-1 Honey bee	Apis mellifera	Adult	C		C	Tech	48 hr LD50 1.3	UGB	N.R.	N.R.	N.R.	1978 05001991	A. Vaughan	REF C	
141-1 Honey bee	Apis mellifera	Adult	C		C	Form	48 hr LD50 1.02	UGB	N.R.	N.R.	4.37	1975 1982 0036935	A. Vaughan	UCR C	
141-1 Honey bee	Apis mellifera	Adult	O		O	Tech	24 hr LD50 < 1.3	UGB	0.11-1.3	N.R.	N.R.	1968 1980 05004151	A. Vaughan	UCR C	
141-2 Honey bee	Apis mellifera	Adult	O		O	80WP	N.R. LD50 0.5	LEA	N.R.	N.R.	N.R.	1967 1980 05008936	A. Vaughan	REF S	
141-2 Honey bee	Apis mellifera	Adults	FO		FO	5D	N.R. LD50 1	LEA	N.R.	N.R.	N.R.	1973 1980 0500899	A. Vaughan	WSU S	
72-2 Stonefly	Claassenia sabulosa	YC-2	S		S	99.5	96 hr LC50 5.6	PBB	3.9-8.1	N.R.	N.R.	1986 1986 40098001	Mayer & Ellersieck	FWS S	
72-2a Stonefly	Isoagenus sp.	YC-1	S		S	99.5	96 hr LC50 3.6	PBB	2.4-5.5	N.R.	N.R.	1986 1986 40098001	Mayer & Ellersieck	FWS S	
72-2 Stonefly	Pteronarcella badia	YC-1	S		S	99.5	96 hr LC50 1.7	PBB	1.4-2.4	N.R.	N.R.	1986 1986 40098001	Mayer & Ellersieck	FWS S	
71-3 Mule deer	Odocoileus hemionus	11 MOS	O		O	95	N.R. LD50 < 400	MGK	200-400	< 200	N.R.	1984 1984 00160000	Hudson, R.H. et al	FWS S	
72-3b Eastern oyster	Crassostrea virginica	SPAT	F		F	99.7	96 hr EC50 > 2.0	PPM	N.R.	N.R.	N.R.	1986 1986 40228401	F.L. Mayer	EPA C	
72-3e Eastern oyster	Crassostrea virginica	Emblrv	S		S	Degr	48 hr EC50 2.1	PPM	1.1- 3.1	N.R.	N.A	1986 1988 265665	L. Touart	SBI C	
72-3e Eastern oyster	Crassostrea virginica	Emblrv	S		S	99	48 hr EC50 2.7	PPM	2.4-3.9	< 2.4	7.15	1985 1988 149221	L. Touart	SBI C	
72-3 Eastern oyster	Crassostrea virginica	20 mm	F		F	43.3	96 hr EC50 23.6	PPM	N.R.	8.71	N.R.	1992 1994 42597301	R. Hirsch	TES S	

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GUIDE COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST & AI	STAGE	TYPE	STUDY DOSE	TOXICITY	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV MRID/ DATE DATE ACC	REVIEWER(S)	LAB CA	GOR
N.A. Bullfrog	Rana catesbeiana	N.R.	O		O	89	N.R. LD50 2000	MGK	N.R.	N.R.	N.R.	1984 1984 00160000	Hudson, R.H. et al	FWS S	
122-2 Green algae	Selenastrum capricornutum	N.A.	S		S	N.R.	7 D EC50 3.7	PPM	N.R.	N.R.	N.R.	1987 1988 40509306	C. Lewis	MPI C	
71-1 Red-winged blackbird	Agelaius phoeniceus	N.R.	O		O	>90	N.R. LD50 9.2	MGK	N.R.	N.R.	N.R.	1972 0020560	EEB review	REF S	
71-1 Red-winged blackbird	Agelaius phoeniceus	Adult	O		O	14.3G	N.R. LD50 2.5	MGK	N.R.	< 1	N.R.	1984 1987 RODI001	M. Rostker	REF S	
71-1b Mallard duck	Anas platyrhynchos	16 WKS	O		O	14.7	14 D LD50 2.34	MGK	1.47-3.2	0.68	N.R.	1988 1989 40895305	C. Houseknecht	BLA C	
71-1b Mallard duck	Anas platyrhynchos	16 WKS	O		O	48.1	14 D LD50 1.18	MGK	0.8-1.7	0.31	3.67	1989 1989 40895307	C. Houseknecht	BLA C	
71-1b Mallard duck	Anas platyrhynchos	19 WKS	O		O	88.2	14 D LD50 1.44	MGK	0.8-2.52	0.32	1.89	1989 1989 40895301	C. Houseknecht	BLA C	
71-2b Mallard duck	Anas platyrhynchos	9 D	D		D	88.2	8 D LC50 32	PPM	27-38	16	N.R.	1989 1989 40895302	C. Houseknecht	BLA C	
71-2b Mallard duck	Anas platyrhynchos	9 D	D		D	48.1	8 D LC50 38	PPM	28-50	8	5.6	1988 1989 40895308	C. Houseknecht	BLA C	
71-1a Mallard duck	Anas platyrhynchos	4 MOS	O		O	89	14 D LD50 3.54	MGK	2.4-5.3	N.R.	N.R.	1984 1984 00160000	Pudson, R.H. et al	FWS C	
71-2b Mallard duck	Anas platyrhynchos	N.R.	D		D	48.6	8 D LC50 180	PPM	135-239	N.R.	N.R.	1965 1977 00104923	L.A. Windberg	CGC S	
71-2b Mallard duck	Anas platyrhynchos	14 D	D		D	23 ME	8 D LC50 649	PPM	464-908	< 23	N.R.	1978 1980 ACC240993	J. Leitzke	WLI S	
71-2b Mallard duck	Anas platyrhynchos	10 D	D		D	99.0	8 D LC50 191	PPM	138-253	N.R.	3.68	1975 1986 00022923	Hill, E.F. et al	FWS C	
71-2b Mallard duck	Anas platyrhynchos	14 D	D		D	23ME	8 D LC50 649	PPM	464-908	< 23	N.R.	1978 1980 249993	J. Leitzke	WLI C	
71-4b Mallard duck	Anas platyrhynchos	Earlyf	R		R	86.6	N.R. LOEL 24.6	PPM	N/A	6	N.R.	1987 N.R. FEODIA01	J. Felkel	WLI S	

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***Diazinon Shaughnessy Number: 057801

GUIDE COMMON NAME	SCIENTIFIC NAME	AGE/SIZE TEST %AI	STAGE TYPE	TOX LEVEL	95% CL	NOBEL/ NOEC	SLOPE	STUDY REV MRID/ DATE DATE ACC	REVIEWER(S)	LAB CA	GOR
71-4b Mallard duck	Anas platyrhynchos	R 100	6WKS	LOEL 16.33	PPM	N.R.	N.R.	1989 1990 41322901	C. Houseknecht	WLI C	
71-1 Canada goose	Branta canadensis	O 86.6	14 D	LD50 6.16	MGK	2.9-11.5	N.R.	1987 1988 FEODIA08	H. Craven(KBN)	BLA S	
71-4 Canada goose	Branta canadensis	R 86.6	28 D	LOEL 39.3	PPM	N/A	6	N.P. 1987 N.R.	EEB review	WLI S	
71-1a Bobwhite quail	Colinus virginianus	O Tech	14 D	LD50 10	MGK	N.R.	N.R.	1986 1987 ROODI002	M. Rostker	CGC S	
71-1a Bobwhite quail	Colinus virginianus	O 14.3G	14 D	LD50 8	MGK	N.R.	N.R.	1986 1987 ROODI002	M. Rostker	CGC S	
71-1a Bobwhite quail	Colinus virginianus	O 91	14 D	LD50 5.2	MGK	3.5-7.6	2.2	1976 1977 00109015	L.A. Windberg	WLI S	
71-2a Bobwhite quail	Colinus virginianus	D 99	8 D	LC50 245	PPM	178-324	N.R.	1975 1986 00022923	Hill, E.F. et al	FWS C	
71-2a Bobwhite quail	Colinus virginianus	D 48.6	8 D	LC50 140	PPM	97-205	< 80	1965 1977 00104923	L.A. Windberg	CGC S	
71-1b Bobwhite quail	Colinus virginianus	O 23 ME	14 D	LD50 472	MGK	380-587	< 251	1978 1980 ACC240993	J. Leitzke	WLI S	
71-2a Bobwhite quail	Colinus virginianus	D 23 ME	8 D	LC50 1515	PPM	1147-2002	129	1978 1980 ACC240993	J. Leitzke	WLI C	
71-1a Bobwhite quail	Colinus virginianus	O Tech	8 D	LD50 5.2	MGK	3.5-7.6	< 2.2	1976 1987 109015	M. Rostker	WLI S	
71-4a Bobwhite quail	Colinus virginianus	R 100	6WKS	LOEC > 32	PPM	N.R.	32	1989 1990 4132-901	C. Houseknecht	WLI C	
71-1a Japanese quail	Coturnix japonica	O Tech	14 D	LD50 167	MGK	N.R.	N.R.	1986 1987 ROODI003	M. Rostker	FWS S	
71-1a Japanese quail	Coturnix japonica	D 48 EC	8 D	LC50 101	PPM	N.R.	N.R.	1986 1987 ROODI003	M. Rostker	FWS S	
71-2 Japanese quail	Coturnix japonica	D 99.0	8 D	LC50 47	PPM	40-54	N.R.	1975 1986 00022923	Hill, E.F. et al	FWS S	
71-1 Brown-headed cowbird	Molothrus ater	O 14.7	14 D	LD50 6.85	MGK	4.3-10	< 2.15	1988 1989 40895306	G. Houseknecht	BLA S	
71-1 Brown-headed cowbird	Molothrus ater	O 88.2	14 D	LD50 69	MGK	46.5-115	< 10	1988 1989 40895303	C. Houseknecht	BLA S	
71-1 Brown-headed cowbird	Molothrus ater	O 48.1	14 D	LD50 46.4	MGK	29.4-71	< 10	1988 1989 40895309	C. Houseknecht	BLA S	
71-2 Brown-headed cowbird	Molothrus ater	D 88.2	8 D	LC50 38.0	PPM	26-57	8.0	1988 1989 40895304	C. Houseknecht	BLA S	
71-2 Brown-headed cowbird	Molothrus ater	D 48.1	8 D	LC50 42.0	PPM	31-57	15	1988 1989 40895310	C. Houseknecht	BLA S	
71-1 House sparrow	Passer domesticus	O >90	N.R.	LD50 7.5	MGK	N.R.	N.R.	1972 N.R. 0020560	EEB review	REF S	
71-1 House sparrow	Passer domesticus	O 14.3G	N.R.	LD50 1.8	MGK	N.R.	N.R.	1984 1987 ROODI001	M. Rostker	REF S	
71-1 Ring-necked pheasant	Phasianus colchicus	O 89	14 D	LD50 4.33	MGK	3.02-6.2	N.R.	1984 1984 00160000	Hudson, R.H. et al	FWS S	
71-2 Ring-necked pheasant	Phasianus colchicus	D 99	8 D	LC50 244.0	PPM	177-322	N.R.	1975 1975 00022923	Hill, E.F. et al	FWS C	
72-2a Water flea	Daphnia magna	S Tech	48 hr	EC50 0.96	PPB	.83-1.1	0.56	1987 1988 00109022	L.A. Windberg	CGC C	
72-2b Water flea	Daphnia magna	S 48	48 hr	EC50 1.1	PPB	1.0-1.3	< .89	1987 1990 40509803	C. Houseknecht	SBI C	
72-2 Water flea	Daphnia magna	S 23 ME	48 hr	EC50 0.5	PPB	0.4-0.59	N.R.	1982 1987 ACC240993	W. Faatz	UCE C	
72-2 Water flea	Daphnia magna	S Tech	48 hr	EC50 0.96	PPB	0.83-1.1	0.56	1976 1987 109022	M. Rostker	AES C	
72-4b Water flea	Daphnia magna	S 87.7	21 D	LOEC 0.32	PPB	N.R.	0.17	1988 1989 40782302	C. Houseknecht	REF S	
72-2a Water flea	Daphnia pulex	S 89	48 hr	EC50 0.8	PPB	0.6-1.1	N.R.	1980 1980 40094602	Johnson & Finley	FWS C	
72-2 Scud	Gammarus fasciatus	S 89	96 hr	LC50 0.2	PPB	.15-.28	N.R.	1980 1980 40094602	Johnson & Finley	FWS C	
72-3c Mysid	Myxidopsis bahia	F 87.7	96 hr	LC50 4.2	PPB	3.7-4.8	< 2.7	1988 1989 40625501	J. Noles	SBI C	
72-3c Grass shrimp	Palaemonetes pugio	F 95.1	48 hr	LC50 28	PPB	N.R.	N.R.	1986 1986 40228401	F.L. Mayer	EPA.S	
72-3c Brown shrimp	Penaeus attecus	F 95.1	48 hr	LC50 28	PPB	N.R.	N.R.	1986 1986 40228401	F.L. Mayer	EPA.S	

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GUIDE COMMON NAME SCIENTIFIC NAME AGE/SIZE TEST %AI STUDY DOSE TOXICITY TOX LEVEL 95% CL NOEL/ NOEC SLOPE STUDY REV MRID/ REVIEWER(S) LAB CA

LINE ***Diazinon Shaughnessy Number: 057801

LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STUDY TIME	DOSE	TOXICITY	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY DATE	REV MRID/	REVIEWER(S)	LAB CA
72-2	Daphnid	<i>Simnocephalus sp.</i>	1st-I	S	89	48 hr	EC50	1.4	PPB	1.2-1.6	N.R.	N.R.	1980	40094602	Johnson & Finley	FWS C
72-3a	Sheepshead minnow	<i>Cyprinodon variegatus</i>	0.38 g	F	89	96 hr	LC50	1470	PPB	1070-3300	< 160	N.R.	1979	ROODI008	M. Rostker	EPA C
72-3	Sheepshead minnow	<i>Cyprinodon variegatus</i>	Juv	F	95.1	96 hr	LC50	150	PPB	N.R.	N.R.	N.R.	1986	40228401	F.L. Mayer	EPA C
72-4a	Sheepshead minnow	<i>Cyprinodon variegatus</i>	EryLlf	F	>89	4 WKS	MATC	< 0.47	PPB	N.R.	N.R.	N.R.	1979	ROODI008	M. Rostker	EPA C
72-1	Flagfish	<i>Jordaniella floridae</i>	N.R.	F	92.4	96 hr	LC50	1600	PPB	N.R.	N.R.	N.R.	1977	ROODI007	M. Rostker	EPA C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	Juv	S	91	96 hr	LC50	136	PPB	100-186	< 100	N.R.	1964	00104923	L.A. Windberg	REF C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	Juv	F	92.5	96 hr	LC50	460	PPB	N.R.	N.R.	N.R.	1977	ROODI007	M. Rostker	EPA C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	Juv	S	48	96 hr	LC50	220	PPB	170-320	< 55	2.2	1987	40509802	C. Houseknecht	SBI C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	0.8 g	S?	23	ME	96 hr	LC50	500	390-670	N.A.	N.R.	1978	240993	W. Faatz	UCE C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	1.0 g	S	92	96 hr	LC50	168	PPB	120-220	N.R.	N.R.	1980	40094602	Johnson & Finley	FWS C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	0.28 g	S	48	96 hr	LC50	100	PPB	80-140	N.R.	N.R.	1977	1994 N.R.	J. McCann	ARC C
72-3	Striped mullet	<i>Mugil cephalus</i>	Juv	F	95.5	48 hr	LC50	150	PPB	N.R.	N.R.	N.R.	1986	40228401	F.L. Mayer	EPA S
72-1	Cutthroat trout	<i>Oncorhynchus clarkii</i>	2.0 g	S	92	96 hr	LC50	1700	PPB	1390-2000	N.R.	N.R.	1980	40094602	Johnson & Finley	FWS C
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	1.2 g	S	89	96 hr	LC50	90	PPB	N.R.	N.R.	N.R.	1980	40094602	Johnson & Finley	FWS C
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	1.6 g	S	23ME	96 hr	LC50	635	PPB	420-960	N.R.	N.R.	1978	ROODI009	M. Rostker	UCE C
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	N.R.	S	91	96 hr	LC50	400	PPB	230-700	N.R.	N.R.	1965	228039	M.A. Windberg	CGC S
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	Juv	S	48	96 hr	LC50	1800	PPB	1400-2900	230	4.3	1987	40509801	C. Houseknecht	SBI C
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	0.91 g	S	48	96 hr	LC50	1650	PPB	1100-2400	N.R.	N.R.	1977	1994 N.R.	J. McCann	ARC C
72-1	Fathead minnow	<i>Pimephales promelas</i>	Juv	F	92	96 hr	LC50	7800	PPB	N.R.	N.R.	N.R.	1977	ROODI007	M. Rostker	EPA C
72-4a	Fathead minnow	<i>Pimephales promelas</i>	EryLlf	F	87.7	34 D	MATC	< 0.092	PPB	N.R.	N.R.	N.R.	1988	40782301	C. Houseknecht	SBI S
72-4a	Fathead minnow	<i>Pimephales promelas</i>	EryLlf	F	92.5	25 D	LOEC	< 3.2	PPB	N.A.	< 3.2	N.A.	1977	ROODI007	M. Rostker	EPA S
72-1	Guppy	<i>Poecilia reticulata</i>	3.0 cm	S	N.R.	24 hr	LC50	1100	PPB	N.R.	N.R.	N.R.	1968	05000811	M. Rexrode	REF S
72-1	Brook trout	<i>Salvelinus fontinalis</i>	Juv	F	92	96 hr	LC50	770	PPB	N.R.	N.R.	N.R.	1977	ROODI007	M. Rostker	EPA C
72-4a	Brook trout	<i>Salvelinus fontinalis</i>	EryLlf	F	92.5	8 MOS	LOEC	< 0.55	PPB	N.A.	< 0.55	N.A.	1977	ROODI007	M. Rostker	EPA S
72-1	Lake trout	<i>Salvelinus namaycush</i>	3.2 g	S	92	96 hr	LC50	600	PPB	400-900	N.R.	N.R.	1980	40094502	Johnson & Finley	FWS C
141-1	Predatory mites	<i>Amblyseius hibisci</i>	Adult	C	25 WP	24 hr	LD50	< .005	LB/G	N.R.	N.R.	N.R.	1964	05004148	A. Vaughan	IEF C
141-1	Mite	<i>Amblyseius fallacis</i>	Adult	C	50 WP	48 hr	LD50	< 0.01	LB/G	N.R.	< 0.005	N.R.	1972	05009345	A. Vaughan	REF C
141-1	Honey bee	<i>Apis mellifera</i>	Adult	C	Tech	48 hr	LD50	0.37	UGB	N.R.	N.R.	N.R.	1975	0036935	A. Vaughan	UCD S
141-2	Honey bee	<i>Apis mellifera</i>	Adult	C	35	N.R.	LD50	.77	LBA	N.R.	N.R.	N.R.	1967	0500896	A. Vaughan	REF S
141-1	Honey bee	<i>Apis mellifera</i>	Adult	C	Tech	48 hr	LD50	0.2	UGB	N.R.	N.R.	N.R.	1968	05004151	A. Vaughan	REF S
141-1	Honey bee	<i>Apis mellifera</i>	Worker	C	N.R.	24 hr	LD50	0.22	UGB	N.R.	N.R.	N.R.	1964	05004151	A. Vaughan	REF C
141-2	Honey bee	<i>Apis mellifera</i>	Worker	FO	40 WP	24 hr	LD50	< 0.25	LBA	N.R.	< 0.12	N.R.	1967	05008936	A. Vaughan	REF C
72-2a	Stonefly larvae	<i>Pteronarcys sp.</i>	YC2	S	89	96 hr	LC50	25	PPB	20-30	N.R.	N.R.	1980	40094602	Johnson & Finley	FWS C
72-3b	Eastern oyster	<i>Crassostrea virginica</i>	Juv	F	95.1	96 hr	EC50	> 1000	PPB	N.R.	N.R.	N.R.	1986	40228401	F.L. Mayer	EPA C

GUIDE COMMON NAME SCIENTIFIC NAME AGE/SIZE TEST %AI STUDY DOSE TOXICITY TOX LEVEL 95% CL NOEL/ NOBC SLOPE STUDY REV MRID/ REVIEWER(S) LAB CA GOR
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***Diazinon Shaughnessey Number: 057801

GUIDE COMMON NAME	SCIENTIFIC NAME	AGE/SIZE TEST %AI	STUDY DOSE TOXICITY	TOX LEVEL	95% CL	NOEL/ NOBC	SLOPE	STUDY DATE	REV MRID/	REVIEWER(S)	LAB CA	GOR
72-3b Eastern oyster	Crassostrea virginica	SPAT	F 87.7 96 hr EC50 880	PPB	630-1100	210	N.R.	1988	4062502	J. Noles	SBI C	
123-1b Onion	Allium cepa	Juvpin	VV 87.7 21 D EC25 > 7.0	LBA	N.R.	7.0	N.R.	1988	40803002	C. Lewis	PAL C	
123-1a Oat	Avena sativa	Seedig	SE 87.7 6 D EC25 5.26	LBA	N.R.	5.3	N.R.	1988	40803001	C. Lewis	PAL C	
123-1b Cucumber	Cucumis sativus	Juvpin	VV 87.7 21 D EC25 3.23	LBA	N.R.	3.2	N.R.	1988	40803002	C. Lewis	PAL C	
123-1a Carrot	Daucus carota	Seedig	SE 87.7 6 D EC25 9.03	LBA	N.R.	7.0	N.R.	1988	40803001	C. Lewis	PAL C	
123-1b Carrot	Daucus carota	Juvpin	VV 87.7 21 D EC25 > 7.01	LBA	N.R.	7.01	N.R.	1988	40803002	C. Lewis	PAL C	
123-1b Lettuce	Lactuca sativa	Juvpin	VV 87.7 21 D EC25 > 7.01	LBA	N.R.	7.01	N.R.	1988	40803002	C. Lewis	PAL C	
123-1a Tomato	Lycopersicon esculentum	Seedig	SG 87.7 6 D EC25 22.1	LBA	N.R.	5.3	N.R.	1988	40803001	C. Lewis	PAL C	
123-1b Tomato	Lycopersicon esculentum	Juvpin	VV 87.7 21 D EC25 > 7.0	LBA	N.R.	3.5	N.R.	1988	40803002	C. Lewis	PAL C	

***Chlorpyrifos Shaughnessey Number: 059101

GUIDE COMMON NAME	SCIENTIFIC NAME	AGE/SIZE TEST %AI	STUDY DOSE TOXICITY	TOX LEVEL	95% CL	NOEL/ NOBC	SLOPE	STUDY DATE	REV MRID/	REVIEWER(S)	LAB CA	GOR
N.A. Bullfrog	Rana catesbeiana	N.R.	O 94.5 14 D LD50 > 400	MGK	N.R.	N.R.	N.R.	1984	00160000	Hudson, R.H. et al	FWS S	
122-2 Algae	Isochrysis galbana	N.R.	S 92 96 hr EC50 140	PPB	N.R.	N.R.	N.R.	1986	40228401	F.L. Mayer	EPA C	
122-2 Marine diatom	Skeletonema costatum	N.R.	S 92 96 hr EC50 300	PPB	270-340	N.R.	N.R.	1986	40228401	F.L. Mayer	EPA C	
122-2 Diatom	Thalassiosira sp.	N.R.	S 92 96 hr EC50 150	PPB	120-180	N.R.	N.R.	1986	40228401	F.L. Mayer	EPA C	
71-1a Red-winged blackbird	Agelaius phoeniceus	N.R.	O 94.5 14 D LD50 13.1	MGK	7.5-23.7	N.R.	N.R.	1979	RIOCHP11	D. Rieder	REF S	
71-1a Chukar	Alectoris chukar	N.R.	O 99 14 D LD50 60.7	MGK	43.8-84.1	N.R.	N.R.	1984	00160000	Hudson, R.H. et al	FWS S	
71-1a Mallard duck	Anas platyrhynchos	N.R.	O 99 14 D LD50 75.6	MGK	35.4-161.0	N.R.	N.R.	1984	00160000	Hudson, R.H. et al	FWS C	
71-2b Mallard duck	Anas platyrhynchos	N.R.	O 99 8 D LC50 136	PPM	84-212	10	N.R.	1965	0095007	M. Rextrode	DOW C	
71-2b Mallard duck	Anas platyrhynchos	N.R.	O 99 8 D LC50 940	PPM	N.R.	N.R.	N.R.	1975	00022923	Hill, E.F. et al	FWS C	
71-2b Mallard duck	Anas platyrhynchos	N.R.	O 99 8 D LC50 591	PPM	380-920	56	2.46	1978	0046954	E. Zucker	WLI C	
71-2b Mallard duck	Anas platyrhynchos	N.R.	O 99 8 D LC50 4223	PPM	2869-11,466	156	3.08	N.R.	41965501	K. Valente	WLI C	
71-2b Mallard duck	Anas platyrhynchos	N.R.	O 99 8 D LC50 357	PPM	293-436	56.4	N.R.	1977	0095447	E. Zucker	WLI S	
71-4b Mallard duck	Anas platyrhynchos	N.R.	R 96.7 29 D LOEL 125	PPM	N.R.	25	N.R.	1977	00046952	E. Zucker	WLI S	
71-4b Mallard duck	Anas platyrhynchos	N.R.	R 96.8 154 D LOEC 60	PPM	N.A.	30	N.A.	1990	42144901	W. Rabert	HRC S	
71-4b Mallard duck	Anas platyrhynchos	N.R.	R 96.7 8 WKS LOEC 100	PPM	N.A.	46	N.A.	1977	0046953	E. Zucker	WLI S	
71-1a Canada goose	Branta canadensis	N.R.	O 99 14 D LD50 4080	MGK	N.R.	N.R.	N.R.	1984	00160000	Hudson, R.H. et al	FWS S	
71-1a California quail	Callipepla californica	N.R.	O 94.5 14 D LD50 68.3	MGK	40.7-115.0	N.R.	N.R.	1984	00160000	Hudson, R.H. et al	FWS S	
71-1a Bobwhite quail	Colinus virginianus	N.R.	O Tech 14 D LD50 32	MGK	24-43	N.R.	N.R.	1987	RIOCHP12	D. Rieder	FWS C	
71-2a Bobwhite quail	Colinus virginianus	N.R.	D 96.8 8 D LC50 423	PPM	345-519	100	N.R.	1978	0046955	E. Zucker	WLI C	
71-1b Bobwhite quail	Colinus virginianus	N.R.	O 15G 14 D LD50 108	MGK	80-145	N.R.	N.R.	1987	RIOCHP12	D. Rieder	REF S	
71-2a Bobwhite quail	Colinus virginianus	N.R.	D 99 8 D LC50 721	PPM	N.R.	50	N.R.	1965	0095123	M. Rextrode	DOW C	

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GUIDE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STUDY TIME	DOSE TYPE	TOX LEVEL	95% CL	NOEL/NOEC	SLOPE	STUDY REV DATE	MRID/DATE	REVIEWER(S)	LAB CA	GOR
***Chlorpyrifos Staughnessey Number: 059101																
71-1	Bobwhite quail	Colinus virginianus	19 WKS	O	25.6	14 D	LD50	2126	MGK	N.R.	< 292	2.7	1990	1991 41885201	M. Roberts	WLI C
71-2a	Bobwhite quail	Colinus virginianus	10 D	D	25.6	8 D	LC50	2013	PPM	1486-2738	313	4.99	N.R.	1991 41965502	K. Valente	WLI C
71-4a	Bobwhite quail	Colinus virginianus	ErlyLf	R	96.8	17WKS	LOEL >	125	PPM	N.R.	125	N.R.	1978	1980 00463951	E. Zucker	WLI C
71-4a	Bobwhite quail	Colinus virginianus	ErlyLf	R	96.8	24WKS	LOEL	130	PPM	N.A.	40	N.A.	1990	1992 42144902	W. Rabert	HRC S
71-1	Rock dove	Columba livia	N.R.	O	94.5	14 D	LD50	26.9	MGK	19.0-38.1	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS S
71-2a	Japanese quail	Coturnix japonica	14 D	D	97	8 D	LC50	299	PPM	146-1682	N.R.	1.59	1975	1975 00022923	Hill, E.F. et al	FWS S
71-1a	Japanese quail	Coturnix japonica	2.5WOS	O	94.5	14 D	LD50	15.9	MGK	10.5-24.0	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS S
71-1	Leghorn cockerel	Gallus sp.	2 WKS	O	99.9	N.R.	LD50	34.8	MGK	29-40	N.R.	N.R.	1972	1980 242149	J. Felkel	REF S
71-1a	Sandhill crane	Grus canadensis	N.R.	O	94.5	14 D	LD50	25	MGK	< 25	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS S
71-1	House sparrow	Passer domesticus	N.R.	O	94.5	14 D	LD50	10.0	MGK	5.6-17.8	N.R.	N.R.	1979	1988 R10CHP11	D. Rieder	REF S
71-1	House sparrow	Passer domesticus	N.R.	O	94.5	14 D	LD50	21	MGK	5.6-79	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS C
71-1	House sparrow	Passer domesticus	Adult	O	94.5	14 D	LD50	109	MGK	63.7-1108	9.6	2.82	1996	1996 44057101	W. Rabert	WLI S
71-1a	Ring-necked pheasant	Phasianus colchicus	4,12MO	O	94.5	14 D	LD50	8.41	MGK	2.77-25.5	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS C
71-2a	Ring-necked pheasant	Phasianus colchicus	10 D	D	97	8 D	LC50	553	PPM	421-687	N.R.	4.7	1975	1975 00022923	Hill, E.F. et al	FWS C
71-1a	Common grackle	Quiscalus quiscula	N.R.	O	94.5	14 D	LD50	5.62	MGK	3.16-10	N.R.	N.R.	1979	1988 R10CHP11	D. Rieder	REF S
71-1a	Starling	Sturnus vulgaris	N.R.	O	94.5	14 D	LD50	75	MGK	N.R.	N.R.	N.R.	1979	1988 R10CHP11	D. Rieder	REF S
72-3	Blue crab	Callinectes sapidus	Juv	F	92	48 hr	LC50	5.2	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-2a	Water flea	Daphnia magna	<24 hr	S	97.7	48 hr	EC50	1.7	PPB	1.0-2.0	N.R.	N.R.	1977	1983 102520	M. Rexrode	DOW C
72-2	Water flea	Daphnia magna	<24 hr	F	95.9	48 hr	EC50	0.1	PPB	0.09-0.12	0.02	4.17	1988	1988 40840902	J. Noles	ABC C
72-4b	Water flea	Daphnia magna	LifCyc	S	97.1	21 D	LOEC	0.08	PPB	N.R.	0.04	N.R.	1979	1986 R10CHP08	J. McCann	ARC C
72-2a	Scud	Gammarus lacustris	Adult	S	97	96 hr	LC50	0.11	PPB	0.07-0.17	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-3c	Mysid	Mysidopsis bahia	1 D	F	92	96 hr	LC50	0.035	PPB	0.029-0.043	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA C
72-3	Mysid	Mysidopsis bahia	Juv	F	95	96 hr	LC50	0.045	PPB	38-70	0.031	N.R.	1989	1992 42144906	W. Rabert	SBI C
72-4b	Mysid	Mysidopsis bahia	ErlyLf	F	99.7	35 D	LOEC	0.01	PPB	N.A.	0.0046	N.A.	1993	1993 42664901	A. Yambure	WLI S
72-3c	Grass shrimp	Palaeomonetes pugio	Juv	F	92	48 hr	LC50	1.5	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-3	Grass shrimp	Palaeomonetes pugio	Juv	F	Degr	96 hr	LC50	83	PPB	71.4-97.1	28.1	6.1	N.R.	1992 42245902	K. Valente	WLI C
72-3c	Brown shrimp	Penaeus aztecus	Juv	F	92	48 hr	LC50	0.2	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-3c	Pink shrimp	Penaeus duorarum	Juv	F	92	48 hr	LC50	2.4	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-3	Sheepshead minnow	Cyprinodon variegatus	J 28D	S	92	96 hr	LC50	270	PPB	240-300	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA C
72-3	Sheepshead minnow	Cyprinodon variegatus	0.24 g	F	95	96 hr	LC50 >	76	PPB	N.A.	76	N.A.	1989	1992 42144904	W. Rabert	SBI S
72-3	Sheepshead minnow	Cyprinodon variegatus	Adult	F	92	96 hr	LC50	140	PPB	110-160	N.R.	N.R.	1986	1994 40228401	F.L. Mayer	EPA S
72-3	Gulf Killifish	Fundulus grandis	Juv	F	92	96 hr	LC50	1.8	PPB	1.5-2.1	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA C
72-3	Longnose killifish	Fundulus similis	Juv	F	92	96 hr	LC50	3.2	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-1	Mosquitofish	Gambusia affinis	Adult	S	99	36 hr	LC50	215	PPB	N.R.	N.R.	N.R.	1988	1988 0095125	D. Rieder	REF S

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GUIDE COMMON NAME SCIENTIFIC NAME AGE/SIZE TEST %AI STAGE TYPE STUDY DOSE TOXICITY TOX 95% CL NOEL/ NOEC SLOPE STUDY REV MRID/ DATE DATE ACC REVIEWER(S) LAB CA GOR

***Chlorpyrifos Shaughnessey Number: 059101

GUIDE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST %AI	STAGE	TYPE	STUDY DOSE	TOXICITY	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV MRID/ DATE	DATE ACC	REVIEWER(S)	LAB CA	GOR
72-1	Channel catfish	<i>Ictalurus punctatus</i>	0.8g	S	97	96 hr	LC50	280	PPB	206-381	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-3	Spot	<i>Leiostomus xanthurus</i>	Juv	F	92	48 hr	LC50	7.0	PPB	N.R.	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA S
72-1	Green sunfish	<i>Lepomis cyanellus</i>	Adult	S	99	36 hr	LC50	22.5	PPB	N.R.	N.R.	N.R.	1986	1988	0095125	D. Rieder	REF S
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	0.5g	S	97	96 hr	LC50	1.7	PPB	N.R.	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	1.85g	S	99	96 hr	LC50	3.0	PPB	N.R.	N.R.	N.R.	1986	1983	0095013	M. Rexrode	DOW S
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	0.9 g	S	25W	96 hr	LC50	38	PPB	N.R.	< 32	N.R.	1970	1988	0095298	M. Rexrode	ARC S
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	1.5g	S	61.5	96 hr	LC50	1.3	PPB	N.R.	N.R.	N.R.	1969	1983	0095321	M. Rexrode	ARC S
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	2.1 g	F	95.9	96 hr	LC50	5.8	PPB	4.7-7.5	1.1	3.7	1988	1988	40840904	J. Noles	ABC C
72-1	Bluegill sunfish	<i>Lepomis macrochirus</i>	0.9 g	S	25 W	96 hr	LC50	108	PPB	N.R.	N.R.	N.R.	1986	1983	0095296	M. Rexrode	FWS C
72-3	California grunion	<i>Leuresthes tenuis</i>	Larvae	F	92	96 hr	LC50	1.0	PPB	0.76-1.4	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
72-3	Inland silverside	<i>Menidia beryllina</i>	Juv	F	92	96 hr	LC50	4.2	PPB	3.4-5.4	N.R.	N.R.	1986	1984	40228401	F.L. Mayer	EPA C
72-4a	Inland silverside	<i>Menidia beryllina</i>	EryLf	F	Tech	28 D	LOEC	1.8	PPB	N.A.	0.75	N.A.	1984	1988	RIOCHP06	D. Rieder	EPA S
72-3	Atlantic silverside	<i>Menidia menidia</i>	Larvae	F	92	96 hr	LC50	0.51	PPB	0.40-0.67	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
72-3	Atlantic silverside	<i>Menidia menidia</i>	Juv	F	92	96 hr	LC50	1.7	PPB	1.4-2.0	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
72-3	Atlantic silverside	<i>Menidia menidia</i>	0.14 g	F	Degr	96 hr	LC50	58400	PPB	44500-7670044500	N.R.	N.R.	1991	1992	42245901	K. Valente	WLI C
72-4a	Atlantic silverside	<i>Menidia menidia</i>	EryLf	F	Tech	28 D	LOEC	0.48	PPB	N.A.	0.28	N.A.	1984	1988	RIOCHP06	D. Rieder	EPA S
72-3a	Tidewater silverside	<i>Menidia peninsulae</i>	Larvae	F	92	96 hr	LC50	0.42	PPB	0.33-0.57	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
72-3	Tidewater silverside	<i>Menidia peninsulae</i>	60 D	F	92	96 hr	LC50	1.3	PPB	1.0-1.7	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
72-4a	Tidewater silverside	<i>Menidia peninsulae</i>	EryLf	F	Tech	28 D	LOEC	0.78	PPB	N.A.	0.38	N.A.	1984	1986	RIOCHP06	D. Rieder	EPA S
72-3	Striped bass	<i>Morone saxatilis</i>	N.R.	S	99	96 hr	LC50	< 1000	PPB	N.R.	N.R.	N.R.	1974	1979	05000819	M. Rexrode	REF S
72-3	Striped mullet	<i>Mugil cephalus</i>	Juv	F	92	96 hr	LC50	5.4	PPB	4.0-6.9	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
72-1	Golden shiner	<i>Notemigonus crysoleucas</i>	Adult	S	99	36 hr	LC50	35	PPB	N.R.	N.R.	N.R.	1966	1988	0095125	D. Rieder	REF S
72-1	Cutthroat trout	<i>Oncorhynchus clarki</i>	0.9 g	S	97	96 hr	LC50	5.4	PPB	4.1-7.1	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS S
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	1.4g	S	97	96 hr	LC50	7.1	PPB	6.0-8.4	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	1.0 g	F	99.9	96 hr	LC50	8.0	PPB	6.8-9.4	N.R.	N.R.	1982	1988	155781	D. Rieder	REF C
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	1.5 g	S	61.5	96 hr	LC50	< 13.5	PPB	N.R.	N.R.	N.R.	1969	1983	0095297	M. Rexrode	FWS S
72-1	Rainbow trout	<i>Oncorhynchus mykiss</i>	0.7 g	F	95.9	96 hr	LC50	27	PPB	2-32	< 4.2	3.3	1988	1988	40840903	J. Noles	ABC C
72-3	Gulf toadfish	<i>Opsanus beta</i>	Juv	F	92	96 hr	LC50	68	PPB	(0-inf)	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
72-1	Fathead minnow	<i>Pimephales promelas</i>	0.1 g	F	99.9	96 hr	LC50	203	PPB	191-217	N.R.	N.R.	1982	1988	155781	D. Rieder	REF C
72-1	Fathead minnow	<i>Pimephales promelas</i>	N.R.	F	Tech	96 hr	LC50	140	PPB	N.R.	N.R.	N.R.	1982	1985	RIOCHP05	M. Rexrode	REF S
72-1	Fathead minnow	<i>Pimephales promelas</i>	N.R.	F	10	96 hr	LC50	120	PPB	N.R.	N.R.	N.R.	1982	1985	RIOCHP05	M. Rexrode	REF S
72-5	Fathead minnow	<i>Pimephales promelas</i>	LifCyc	F	10	200 D	LOEC	2.6	PPB	N.A.	0.12	N.A.	1982	1985	RIOCHP04	M. Rexrode	EPA S
72-4a	Fathead minnow	<i>Pimephales promelas</i>	EryLf	F	Tech	32 D	LOEC	3.2	PPB	N.R.	1.6	N.R.	1982	1985	RIOCHP05	M. Rexrode	REF S
72-4a	Fathead minnow	<i>Pimephales promelas</i>	EryLf	F	10	32 D	LOEC	4.8	PPB	N.A.	2.2	N.A.	1982	1985	RIOCHP05	M. Rexrode	REF S

GUIDE COMMON NAME SCIENTIFIC NAME AGE/SIZE TEST %AI STAGE TYPE TOX LEVEL 95% CL NOEL/ NOEC SLOPE STUDY REV MRID/ DATE DATE ACC REVIEWER(S) LAB CA GOR

LINE ***Chlorpyrifos Shaughnessey Number: 059101

LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE TEST %AI	STAGE TYPE	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV MRID/ DATE DATE ACC	REVIEWER(S)	LAB CA	GOR
72-4a	Fathead minnow	Pimephales promelas	10	F	PPB	N.A.	1.29	N.A.	1988 R10CHP07	M. Rexrode	EPA S	
72-5	Fathead minnow	Pimephales promelas	99.7	F	PPB	N.A.	0.568	N.A.	1993 42834401	W. Rabert	ETC C	
72-1	Lake trout	Salvelinus namaycush	97	S	PPB	45-121	N.R.	N.R.	1986 40098001	Mayer & Ellersieck	FWS S	
72-2	Mosquito	Aedes aegypti	99.9	S	PPB	6.3-8.2	N.R.	N.R.	1972 1980 ACC242149	J. Felkel	REF S	
141-1	Honey bee	Apis mellifera	Tech	C	UGB	N.R.	N.R.	N.R.	1976 1984 0066220	A. Vaughan	UCR C	
141-1	Honey bee	Apis mellifera	Tech	O	UGB	N.R.	N.R.	N.R.	1978 1984 05001991	A. Vaughan	REF C	
141-1	Honey bee	Apis mellifera	Tech	C	UGB	N.R.	N.R.	N.R.	1978 1983 05001991	A. Vaughan	REF C	
141-1	Honey bee	Apis mellifera	Tech	C	UGB	N.R.	0.001	N.R.	1969 1984 5011163	A. Vaughan	REF C	
141-2	Honey bee	Apis mellifera	4 BE	FO	LBA	N.R.	N.R.	N.R.	1980 1984 00074486	A. Vaughan	UCR C	
141-2	Honey bee	Apis mellifera	4 EC	FO	LBA	N.R.	N.R.	N.R.	1973 1983 00040602	A. Vaughan	WSU C	
72-2a	Stonely	Claassenia sabulosa	97	S	PPB	0.4-0.8	N.R.	N.R.	1986 1986 40098001	Mayer & Ellersieck	FWS C	
141-2	Leafcutter bee	Megachile rotundata	4 EC	FO	LBA	N.R.	< 0.25	N.R.	1973 1983 00040602	A. Vaughan	WSU C	
141-2	Alkali bee	Nomia melanderi	4 EC	FO	LBA	N.R.	< 0.25	N.R.	1973 1983 00040602	A. Vaughan	WSU C	
72-2a	Stonely	Pteronarcys californica	97	S	PPB	7-13	N.R.	N.R.	1980 1980 40094602	Johnson & Finley	FWS C	
141-1	Ladybird beetle	Stethorus punctum	4 EC	C	LBA	N.R.	< 0.25	N.R.	1973 1984 00059461	A. Vaughan	REF C	
71-3	Domestic goat	Capra hircus	94.5	O	MGK	N.R.	N.R.	N.R.	1984 1984 00160000	Mudson, R.H. et al	FWS S	
71-3	Albino rat	Rattus norvegicus	99	O	MGK	179-252	N.R.	N.R.	1984 1984 00160000	Hudson, R.H. et al	FWS S	
72-3b	Eastern oyster	Crassostrea virginica	92	F	PPB	N.R.	N.R.	N.R.	1986 1986 40228401	F.L. Mayer	EPA C	
72-3	Eastern oyster	Crassostrea virginica	Degr	F	PPM	9.6-10.7	4.53	8.5	N.R. 1992 42245903	K. Valente	WLI C	
72-3	Eastern oyster	Crassostrea virginica	95	F	PPB	77-91	41	4.8	1989 1992 42144905	W. Rabert	SBI S	

***Fenoxycarb Shaughnessey Number: 125301

LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE TEST %AI	STAGE TYPE	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV MRID/ DATE DATE ACC	REVIEWER(S)	LAB CA	GOR
71-1	Mallard duck	Anas platyrhynchos	95	O	MGK	N.R.	N.R.	N.R.	1985 ACC071855	D. Rieder	NR C	
71-2b	Mallard duck	Anas platyrhynchos	95	D	PPM	N.R.	N.R.	N.R.	1985 ACC071855	D. Rieder	NR C	
71-1	Mallard duck	Anas platyrhynchos	95	O	MGK	N.A.	< 3000	N.A.	1982 1983 ACC071855	D. Rieder	HRC C	
71-2b	Mallard duck	Anas platyrhynchos	95	D	PPM	N.A.	N.R.	N.A.	1982 1983 ACC071855	D. Rieder	HRC C	
71-1	Bobwhite quail	Colinus virginianus	95	O	MGK	N.R.	N.R.	N.R.	1985 ACC071855	D. Rieder	NR C	
71-2a	Bobwhite quail	Colinus virginianus	95	D	PPM	N.R.	N.R.	N.R.	1985 ACC071855	D. Rieder	NR C	
71-1	Bobwhite quail	Colinus virginianus	95	O	MGK	N.A.	< 3000	N.A.	1982 1983 ACC248412	D. Rieder	HRC C	
71-2a	Bobwhite quail	Colinus virginianus	95	D	PPM	N.R.	N.R.	N.R.	1982 1983 ACC071855	D. Rieder	HRC C	
72-2	Water flea	Daphnia magna	95	S	PPM	N.R.	N.R.	N.R.	1985 ACC071855	D. Rieder	NR C	
72-4b	Water flea	Daphnia magna	99	F	PPB	N.A.	0.0016	N.A.	1989 40361808	J. Noles	ABL C	

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GUIDE COMMON NAME SCIENTIFIC NAME AGE/SIZE TEST %AI STUDY DOSE TOXICITY TOX LEVEL 95% CL NOEL/ NOEC SLOPE STUDY REV MRID/ REVIEWER(S) LAB CA
 LINE GOR

***Phenoxycarb Shaughnessy Number: 125301

LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE TEST %AI	STUDY DOSE TOXICITY TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV MRID/ REVIEWER(S)	LAB CA		
72-2	Water flea	Daphnia magna	95	48 hr EC50 0.4	PPM	0.31-0.55	0.05	1.75	1982	1983 ACC071855 D. Rieder	RCC C
72-4b	Water flea	Daphnia magna	99	21 D LOEC 0.0023	PPB	N.A.	0.0016	N.A.	1987	1989 40361808 J. Noles	ABL C
72-3	Grass shrimp	Palaemonetes pugio	96	96 hr LC50 2.2	PPM	1.7-2.5	< 0.8	3.6	1985	1985 ACC528864 D. Rieder	EVS C
72-3	Grass shrimp	Palaemonetes pugio	96	96 hr LC50 2.2	PPM	1.75-2.57	< 0.86	3.64	1985	1985 528864 D. Rieder	EVS C
72-1	Carp	Cyprinus carpio	N.R.	96 hr LC50 2.7	PPM	N.R.	N.R.	N.R.	NR	1985 ACC071855 D. Rieder	NR S
72-1	Carp	Cyprinus carpio	95	96 hr LC50 2.7	PPM	2.2-3.0	2.2	N.R.	1982	1983 ACC071855 D. Rieder	RCC S
72-1	Bluegill sunfish	Lepomis macrochirus	95	96 hr LC50 1.86	PPM	N.R.	N.R.	N.R.	NR	1985 ACC071855 D. Rieder	NR C
72-1a	Bluegill sunfish	Lepomis macrochirus	95	96 hr LC50 1.86	PPM	1.4-2.4	1.0	3.2	1982	1983 ACC071855 D. Rieder	RCC C
72-3	Atlantic silverside	Menidia menidia	96	96 hr LC50 1.07	PPM	0.9-1.2	< 0.9	27.1	1985	1985 ACC528864 D. Rieder	EVS C
72-3	Atlantic silverside	Menidia menidia	96	96 hr LC50 1.074	PPM	0.94-1.18	0.9	27.2	1985	1985 ACC528864 D. Rieder	EVS C
72-1	Rainbow trout	Oncorhynchus mykiss	N.R.	96 hr LC50 1.6	PPM	N.R.	N.R.	N.R.	NR	1985 ACC071855 D. Rieder	NR C
72-4a	Rainbow trout	Oncorhynchus mykiss	93	74 D LOEC < 0.062	PPM	N.A.	< 0.062	N.A.	1987	1989 40361806 J. Noles	ABL S
72-4a	Rainbow trout	Oncorhynchus mykiss	94.7	96 D LOEC < 0.092	PPM	N.A.	0.048	N.A.	1990	1990 41492001 H. Winnik	ABL C
72-1c	Rainbow trout	Oncorhynchus mykiss	95	96 hr LC50 1.6	PPM	1.4-1.7	0.5	N.R.	1981	1983 ACC071855 D. Rieder	HRC C
72-4a	Rainbow trout	Oncorhynchus mykiss	93	60 D LOEC 0.097	PPM	N.A.	0.062	N.A.	1987	1989 40361806 J. Noles	ABL S
72-4a	Rainbow trout	Oncorhynchus mykiss	94.5	74 D LOEC 0.092	PPM	N.A.	0.048	N.A.	1990	1990 41492001 H. Winnik	ABL C
72-3b	Eastern oyster	Crassostrea virginica	96	48 hr EC50 0.15	PPM	0.1-0.17	< 0.02	2.3	1985	1985 ACC528864 D. Rieder	EVS C

***Fenpropathrin Shaughnessy Number: 127901

LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE TEST %AI	STUDY DOSE TOXICITY TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV MRID/ REVIEWER(S)	LAB CA		
71-1a	Mallard duck	Anas platyrhynchos	89	14 D LD50 1089	MGK	695-1706	N.R.	N.R.	1975	1983 249939 R. Farringer	TFI C
71-2b	Mallard duck	Anas platyrhynchos	89	8 D LC50 9026	PPM	6791-11,996	N.R.	N.R.	1975	1983 249939 P. Farringer	TFI C
71-4b	Mallard duck	Anas platyrhynchos	R	Tech 1 Gen LOEL 500	PPM	N.R.	125	N.R.	1986	1987 265373 D. Rieder	WLI C
71-2a	Bobwhite quail	Colinus virginianus	89	8 D LC50 > 10000	PPM	N.R.	N.R.	N.R.	1975	1983 249939 R. Farringer	TFI C
71-4a	Bobwhite quail	Colinus virginianus	R	Tech 1 Gen LOEL 125	PPM	N.R.	25	N.R.	1986	1987 265374 D. Rieder	WLI C
72-2a	Water flea	Daphnia magna	91.4	48 hr EC50 0.53	PPB	0.46-0.63	N.R.	N.R.	1981	1983 249939 R. Farringer	EGG C
72-2b	Water flea	Daphnia magna	30	48 hr EC50 2.9	PPB	2.3-3.6	N.R.	N.R.	N.R.	1983 250159 R. Farringer	EGG C
72-4b	Water flea	Daphnia magna	98	21 D LOEC < 0.35	PPB	N.R.	0.2	N.R.	1985	1986 259678 D. Rieder	ABL C
72-3c	Mysid	Mysidopsis bahia	90	96 hr LC50 0.021	PPB	0.018-.025	0.013	N.R.	1987	1990 40974404 D. Rieder	SBI C
72-3f	Mysid	Mysidopsis bahia	31.5	96 hr LC50 0.33	PPB	N.R.	0.069	N.R.	1987	1990 40974405 D. Rieder	SBI C
72-4b	Mysid	Mysidopsis bahia	98.6	28 D LOEC 0.024	PPB	N.R.	0.012	N.R.	1988	1990 40974407 D. Rieder	SBI C
72-3	Fiddler crab	Uca pugiator	91.4	96 hr LC50 5.2	PPB	3.7-7.1	N.R.	N.R.	1981	1983 249939 R. Farringer	EGG C
72-3a	Sheepshead minnow	Cyprinodon variegatus	91.4	96 hr LC50 3.1	PPB	2.4-4.0	N.R.	N.R.	1981	1983 249939 R. Farringer	EGG C

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GUIDE COMMON NAME SCIENTIFIC NAME AGE/SIZE TEST %AI STUDY DOSE TOXICITY TOX 95% CL NOEL/ NOEC SLOPE STUDY REV MRID/ REVIEWER(S) LAB CA
 LINE DATE DATE ACC GOR

***Fenprothrin Shaughnessy Number: 127901

LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STUDY TIME	DOSE TYPE	TOXICITY LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY DATE	REV DATE	MRID/ ACC	REVIEWER(S)	LAB CA
72-3d	Sheepshead minnow	Cyprinodon variegatus	Juv	S	31.5	96 hr	LC50 15	PPB	N.R.	7.1	N.R.	1987	1990	40974406	D. Rieder	SBI C
72-1	Channel catfish	Ictalurus punctatus	Juv	S	91.4	96 hr	LC50 5.5	PPB	4.5-6.8	N.R.	N.R.	1981	1983	249939	R. Farringer	EGG C
72-1	Channel catfish	Ictalurus punctatus	Juv	S	30	96 hr	LC50 22	PPB	13-36	N.R.	N.R.	1981	1983	250159	R. Farringer	EGG C
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	S	91.4	96 hr	LC50 2.2	PPB	1.3-3.6	N.R.	N.R.	1981	1983	249939	R. Farringer	EGG C
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	S	30	96 hr	LC50 7.7	PPB	4.6-13.0	N.R.	N.R.	1981	1983	250159	R. Farringer	EGG C
72-1	Rainbow trout	Oncorhynchus mykiss	Juv	S	89	96 hr	LC50 2.3	PPB	1.7-3.1	N.R.	N.R.	1981	1983	249939	R. Farringer	EGG C
72-1	Rainbow trout	Oncorhynchus mykiss	Juv	S	30	96 hr	LC50 10	PPB	7.8-13.0	N.R.	N.R.	1981	1983	250159	R. Farringer	EGG C
72-1	Fathead minnow	Pimephales promelas	N.R.	F	93.7	96 hr	LC50 2.37	PPB	2.04-2.83	1.3	6.85	1990	1993	41525901	D. Rieder	SBI S
72-5	Fathead minnow	Pimephales promelas	LifCyc	F	93.7	260 D	LOEC 0.14	PPB	N.R.	0.06	N.R.	1990	1993	41525901	D. Rieder	SBI S
72-3b	Eastern oyster	Crassostrea virginica	SPAT	F	90	96 hr	EC50 > 125	PPB	N.R.	30	N.R.	1988	1989	40974405	D. Rieder	SBI S

***Pyrimidinone Shaughnessy Number: 118401

LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STUDY TIME	DOSE TYPE	TOXICITY LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY DATE	REV DATE	MRID/ ACC	REVIEWER(S)	LAB CA
123-2	Green algae	Chlorella sp.	N.A.	S	96.2	96 hr	EC50 5.0	PPB	4.4-5.6	N.R.	N.R.	1986	1986	40228401	F. L. Mayer	EPA C
123-2	Green algae	Dunaliella tertiolecta	N.A.	S	96.2	96 hr	EC50 18	PPB	16-20	N.R.	N.R.	1986	1986	40228401	H. L. Mayer	EPA C
123-2	Marine haptophyte	Isochrysis galbana	N.A.	S	96.2	96 hr	EC50 2.9	PPB	2.7-3.1	N.R.	N.R.	1986	1986	40228401	F. L. Mayer	EPA C
123-2	Marine diatom	Skeletonema costatum	N.A.	S	96.2	96 hr	EC50 0.24	PPB	0.23-0.25	N.R.	N.R.	1986	1986	40228401	F. L. Mayer	EPA C
123-2	Marine diatom	Thalassiosira pseudonana	N.A.	S	96.2	96 hr	EC50 0.26	PPB	0.25-0.26	N.R.	N.R.	1986	1986	40228401	F. L. Mayer	EPA C
71-2b	Mallard duck	Anas platyrhynchos	14 D	D	92	8 D	LD50 4355	PPM	2877-6592	N.R.	N.R.	1979	1979	ACC098982	M. Rexrode	WLI C
71-1	Mallard duck	Anas platyrhynchos	20WKS	O	92	14 D	LD50 > 2510	MGK	N.A.	N.A.	N.A.	1979	1979	ACC098982	M. Rexrode	WLI C
71-2a	Bobwhite quail	Colinus virginianus	14 D	D	92	8 D	LC50 1136	PPM	908-1420	< 1000	N.R.	1979	1979	ACC098982	M. Rexrode	WLI C
71-1	Bobwhite quail	Colinus virginianus	22WKS	O	92	14 D	LD50 1828	MGK	983-3402	< 398	1.78	1979	1979	ACC098982	M. Rexrode	WLI C
72-2	Water flea	Daphnia magna	1st-I	S	92	48 hr	EC50 1.14	PPM	0.9-1.39	0.32	3.5	1980	1980	ACC099492	S. Hopkins	UCR C
72-1	Channel catfish	Ictalurus punctatus	0.2 g	S	92	96 hr	LC50 0.09	PPM	0.08-0.11	0.056	N.R.	1986	1986	ACC243466	C. Bowen	UCR C
72-3	Pinfish	Lagodon rhomboides	Juv	S	96.2	96 hr	LC50 0.2	PPM	0.16-.24	N.R.	N.R.	1986	1986	40228401	F. L. Mayer	EPA C
72-1	Bluegill sunfish	Lepomis macrochirus	0.5 g	S	92	96 hr	LC50 1.7	PPM	1.4-2.1	0.56	6.7	1979	1979	ACC099492	S. Hopkins	UCR C
72-1	Rainbow trout	Oncorhynchus mykiss	0.6 g	S	92	96 hr	LC50 0.16	PPM	0.13-0.19	0.10	N.R.	1979	1979	N.R.	R. Balcomb	UCR C
72-1	Rainbow trout	Oncorhynchus mykiss	0.9 g	S	92	96 hr	LC50 0.15	PPM	0.12-0.18	0.056	7.6	1980	1980	ACC243466	C. Bowen	UCR C
141-1	Honey bee	Apis mellifera	Adult	C	96.8	48 hr	LD50 67	UGB	52-96	N.R.	1.6	1990	1990	41607801	A. Vaughan	WLI C

***Imidacloprid Shaughnessy Number: 129059

LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STUDY TIME	DOSE TYPE	TOXICITY LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY DATE	REV DATE	MRID/ ACC	REVIEWER(S)	LAB CA
122-2	Green algae	Scenedesmus subspicatus	N.R.	S	92.8	4 D	LOEC > 10	PPM	N.A.	10	N.A.	1989	1994	42256374	H. Craven (KBN)	RAY S

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GUIDE COMMON NAME SCIENTIFIC NAME AGE/SIZE TEST %AI STUDY DOSE TOXICITY TOX 95% CL NOEL/ NOEC SLOPE STUDY REV MRID/ REVIEWER(S) LAB CA /GOR

LINE ***Imidacloprid Shaughnessey Number: 129059

LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STUDY TIME	DOSE TYPE	TOXICITY LEVEL	TOX	95% CL	NOEL/ NOEC	SLOPE	STUDY DATE	REV MRID/ DATE ACC	REVIEWER(S)	LAB CA /GOR
71-4b	Mallard duck	Anas platyrhynchos	EarlyLf	R	94.8	21WKS	LOEC 61	PPM	PPM	N.A.	< 61	N.A.	1991	1994 42055313	D. Lateulere	MCC S
71-2b	Mallard duck	Anas platyrhynchos	10 D	D	94.8	8 D	LC50 > 4797	PPM	PPM	N.A.	69	N.A.	1990	1994 42055311	D. Lateulere	MCC C
71-4b	Mallard duck	Anas platyrhynchos	EarlyLf	R	95.8	1 gen	LOEC < 61	PPM	PPM	N.A.	< 61	N.A.	1992	1996 42480502	D. Lateulere	MIL S
71-2a	Bobwhite quail	Colinus virginianus	20 WKS	O	97.4	14 D	LD50 152.3	MGK	MGK	102.7-227.025		N.R.	1990	1994 42055308	D. Lateulere	MCC C
71-2a	Bobwhite quail	Colinus virginianus	10 D	D	94.8	8 D	LC50 1535.87	PPM	PPM	796.8-4774.569		N.R.	1990	1994 42055310	D. Lateulere	MCC C
71-4a	Bobwhite quail	Colinus virginianus	EarlyLf	R	94.8	20WKS	LOEC 243	PPM	PPM	N.A.	126	N.A.	1991	1994 42055312	D. Lateulere	MCC C
71-1	House sparrow	Passer domesticus	Adult	O	2.5	7 D	LD50 41.0	MGK	MGK	24-260	3.0	N.R.	1990	1994 42055309	D. Lateulere	MCC S
72-2	Water flea	Daphnia magna	<24 hr	S	95.4	48 hr	EC50 85.2	PPM	PPM	75-113	42	11	1990	1994 42055317	D. Lateulere	ABL C
72-4b	Water flea	Daphnia magna	EarlyLf	SR	95.9	21 D	LOEC 3.6	PPM	PPM	N.A.	1.8	N.A.	1990	1994 42055321	D. Lateulere	ABL S
72-3	Mysid	Mysidopsis bahia	Juv	F	96.2	96 hr	LC50 0.038	PPM	PPM	0.0260-.046	0.032	N.R.	1990	1994 42055319	D. Lateulere	TES S
72-3	Mysid	Mysidopsis bahia	<24 hr	S	22.7	96 hr	LC50 0.159	PPM	PPM	0.138-0.046	N.R.	N.R.	1992	1994 42528301	D. Lateulere	TES C
72-3	Sheepshead minnow	Cyprinodon variegatus	Juv	S	96.2	96 hr	LC50 163	PPM	PPM	105-Inf.	58.2	6.82	1990	1994 42055318	D. Lateulere	TES C
72-1	Blugill sunfish	Lepomis macrochirus	0.46 g	S	97.4	96 hr	LC50 > 105	PPM	PPM	N.A.	25	N.A.	1990	1994 42055314	D. Lateulere	ABL C
72-1	Rainbow trout	Oncorhynchus mykiss	1.0 g	S	97.4	96 hr	LC50 > 83	PPM	PPM	N.A.	42	N.A.	1990	1994 42055315	D. Lateulere	ABL C
72-1	Rainbow trout	Oncorhynchus mykiss	1.3 g	S	95.3	96 hr	LC50 229.1	PPM	PPM	N.R.	52.1	N.R.	1988	1994 42055316	D. Lateulere	BAY S
72-4a	Rainbow trout	Oncorhynchus mykiss	EarlyLf	F	95	98 D	LOEC 1.2	PPM	PPM	N.A.	< 1.2	N.A.	1991	1994 42480520	B. Lateulere	ABL S
141-1	Honey bee	Apis mellifera	Adult	C	99.8	48 hr	LD50 0.078	UGB	UGB	N.R.	0.05	N.R.	1990	1994 42275003	D. Lateulere	HRC C
141-1	Honey bee	Apis mellifera	Adult	O	99.8	48 Hr	LD50 0.0039	UGB	UGB	N.R.	0.0015	N.R.	1990	1994 42273003	D. Lateulere	HRC C
141-2	Honey bee	Apis mellifera	Worker	C	N.R.	48 hr	LD50 0.0439	UGB	UGB	N.R.	N.R.	N.R.	1991	1994 42480503	D. Lateulere	WSU S
141-2	Honey bee	Apis mellifera	Worker	FO	N.R.	8 hr	LD50 > 0.1	LBA	LBA	N.A.	< 0.025	N.A.	1991	1994 42480503	D. Lateulere	WSU S
141-2	Honey bee	Apis mellifera	Adult	FO	20.8	24 hr	LD50 > 0.5	LBA	LBA	N.A.	< 0.5	N.A.	1992	1996 42632901	D. Lateulere	WSU C
141-2	Leafcutter bee	Megachile rotundata	Worker	FO	N.R.	8 hr	LD50 > 0.1	LBA	LBA	N.A.	< 0.025	N.A.	1991	1994 42480503	D. Lateulere	WSU S
141-2	Alkali bee	Nomia melanderi	Worker	FO	N.R.	8 hr	LD50 > 0.1	LBA	LBA	N.A.	< 0.025	N.A.	1991	1994 42480503	D. Lateulere	WSU S

***Malathion Shaughnessey Number: 057701

N.A.	Fowler's toad	Bufo woodhousei	Tadpol	S	Tech	96 hr	LC50 420	PPB	PPB	90-980	N.R.	N.R.	1970	1987 84757	L. Lyon	FWS S
N.A.	Chorus frog	Pseudacris triseriata	Tadpol	S	Tech	96 hr	LC50 200	PPB	PPB	90-270	N.R.	N.R.	1970	1987 84757	L. Lyon	FWS S
71-1a	Mallard duck	Anas platyrhynchos	3 MOS	O	95	14 D	LD50 1485	MGK	MGK	1020-2150	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS C
71-2b	Mallard duck	Anas platyrhynchos	16 D	D	95	8 D	LC50 > 5000	PPM	PPM	N.R.	N.R.	N.R.	1975	1975 00022923	Hill, E.F. et al	FWS C
71-4b	Mallard duck	Anas platyrhynchos	EarlyLf	R	94.0	20WKS	LOEC < 2400	PPM	PPM	N.A.	1200	N.A.	1993	1996 42782101	J. Goodyear	BIA C
71-2a	Bobwhite quail	Colinus virginianus	14 D	D	95	8 D	LC50 3497	PPM	PPM	2959-4117	N.R.	5.93	1975	1975 00022923	Hill, E.F. et al	FWS C
71-4a	Bobwhite quail	Colinus virginianus	EarlyLf	R	96.4	21WKS	LOEC 350	PPM	PPM	N.A.	110	N.A.	1995	1995 43501501	J. Edwards	WLI C

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GUIDE LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE STAGE	TEST TYPE	%AI	STUDY TIME	DOSE TYPE	TOXICITY	TOX LEVEL	95% CL	NOEL/NOEC	SLOPE	STUDY DATE	REV MRID/DATE	ACC	REVIEWER(S)	LAB GOR
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***Malathion Shaughnessy Number: 057701

71-2a	Japanese quail	Coturnix japonica	14 D	D	95	8 D	LC50	2962	PPM	2453-3656	N.R.	5.27	1975	00022923		Hill, E.F. et al	FWS S.
71-1	Horned lark	Eremophila alpestris	Adult	O	95	14 D	LD50	403	MGK	247-658	N.R.	N.R.	1984	00160000		Hudson, R.H. et al	FWS S
71-1a	Ring-necked pheasant	Phasianus colchicus	3 MOS	O	95	14 D	LD50	167	MGK	120-231	N.R.	N.R.	1984	00160000		Hudson, R.H. et al	FWS S
71-2	Ring-necked pheasant	Phasianus colchicus	10 D	D	95	8 D	LC50	2639	PPM	2220-3098	N.R.	5.12	1975	00022923		Hill, E.F. et al	FWS C
72-2a	Sowbug	Asellus brevicaudus	Adult	S	95	96 hr	LC50	3000	PPB	1500-8500	N.R.	N7a	1986	40098001		Mayer & Eilersieck	FWS S
72-3	Blue crab	Callinectes sapidus	Juv	F	95	48 hr	LC50 > 1000		PPB	N.R.	N.R.	N.R.	1986	40228401		F.L. Mayer	EPA S
72-2c	Seed shrimp	Cypridopsis vidua	Adult	S	95	48 hr	LC50	47	PPB	32-69	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS S
72-2a	Water flea	Daphnia magna	1st-I	S	95	48 hr	EC50	1.0	PPB	0.7-1.4	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS C
72-2a	Water flea	Daphnia magna	1st-I	F	57EC	48 hr	EC50	2.2	PPB	1.9-2.5	0.19	N.R.	1989	41029701		H. Craven (KBN)	ABL C
72-4b	Water flea	Daphnia magna	LifCyc	F	94	21 D	LOEC < 0.10		PPB	N.A.	0.06	N.A.	1990	41718401		T. Bailey	ABL C
72-2a	Water flea	Daphnia pulex	1st-I	S	95	48 hr	EC50	1.8	PPB	1.4-2.4	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS C
72-2a	Scud	Gammarus fasciatus	Adult	F	95	96 hr	LC50	0.5	PPB	N.R.	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS C
72-2a	Scud	Gammarus lacustris	N.R.	S	Tech	48 hr	LC50	1.8	PPB	1.3-2.4	N.R.	N.R.	1980	05009242		C. Laird	FWS C
72-3c	Mysid	Mysidopsis bahia	2,3 D	F	94	96 hr	LC50	2.2	PPB	N.R.	0.87	6.71	1990	41183201		E. Montague	ABL C
72-3c	Mysid	Mysidopsis bahia	Juv	F	94	96 hr	LC50	2.2	PPB	1.5-2.6	1.5	N.R.	1990	41474501		H. Craven (KBN)	ABL C
72-2a	Crayfish	Orconectes nais	1-2 I	S	95	96 hr	LC50	180	PPB	140-230	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS S
72-2a	Glass shrimp	Palaemonetes kadiakensis	Adult	F	95	96 hr	LC50	12	PPB	N.R.	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS S
72-3c	Pink shrimp	Penaeus duorarum	Juv	F	95	48 hr	LC50	280	PPB	N.R.	N.R.	N.R.	1986	40228401		F.L. Mayer	EPA S
72-2a	Daphnid	Simocephalus serrulatus	1st-I	S	95	48 hr	EC50	0.59	PPB	0.44-0.79	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS C
72-1	Goldfish	Carassius auratus	0.9 g	S	95	96 hr	LC50	10700	PPB	8340-13800	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS S
72-3	Sheepshead minnow	Cyprinodon variegatus	0.03 g	F	95	96 hr	LC50	33.0	PPB	14-63	N.R.	N.R.	1989	41174301		B. Montague	ABL C
72-3	Sheepshead minnow	Cyprinodon variegatus	0.16 g	F	57EC	96 hr	LC50	55	PPB	47-64	14	N.R.	1989	41252101		A. Roybal	ABL C
72-1	Carp	Cyprinus carpio	0.6 g	S	95	96 hr	LC50	6590	PPB	4920-88200	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS S
72-3	Longnose killifish	Fundulus similis	Juv	F	95	48 hr	LC50	150	PPB	N.R.	N.R.	N.R.	1986	40228401		F.L. Mayer	EPA S
72-1	Black bullhead	Ictalurus melas	1.2 g	S	95	96 hr	LC50	11700	PPB	9600-14100	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS C
72-1	Channel catfish	Ictalurus punctatus	1.5 g	S	95	96 hr	LC50	7620	PPB	5820-99700	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS C
72-3	Spot	Leiostomus xanthurus	Juv	F	95	48 hr	LC50	320	PPB	N.R.	N.R.	N.R.	1986	40228401		F.L. Mayer	EPA S
72-1	Green sunfish	Lepomis cyanellus	.8 g	S	95	96 hr	LC50	1460	PPB	900-2340	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS C
72-1	Bluegill sunfish	Lepomis macrochirus	0.4 g	S	95	96 hr	LC50	20	PPB	16-25	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS C
72-1	Redear sunfish	Lepomis microlophus	3.2g	S	95	96 hr	LC50	62	PPB	58-67	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS C
72-1	Largemouth bass	Micropterus salmoides	1.4 g	S	95	96 hr	LC50	250	PPB	220-310	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS C
72-3	Striped bass	Morone saxatilis	0.93g	S	25	96 hr	LC50	60	PPB	N.R.	N.R.	N.R.	1971	156311		L.A. Lyon	REF S
72-3	Striped mullet	Mugil cephalus	Juv	F	95	48 hr	LC50	330	PPB	N.R.	N.R.	N.R.	1986	40228401		F.L. Mayer	EPA S
72-1	Cutthroat trout	Oncorhynchus clarkii	.3 g	S	95	96 hr	LC50	1740	PPB	112-269	N.R.	N.R.	1986	40098001		Mayer & Eilersieck	FWS C

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GUIDE COMMON NAME SCIENTIFIC NAME AGE/SIZE TEST %AI STAGE TYPE STUDY DOSE TOXICITY TOX LEVEL 95% CL NOEL/ NOEC SLOPE STUDY REV MRID/ RVIEWER(S) LAB CA GOR

***Malathion Shaughnessey Number: 057701

LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STAGE	TYPE	STUDY TIME	DOSE	TOXICITY	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV DATE	MRID/ RVIEWER(S)	LAB CA	GOR	
72-1	Coho salmon	Oncorhynchus kisutch	1.0 g	S	95		S	96 hr	LC50	170	PPB	160-180	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Rainbow trout	Oncorhynchus mykiss	1.0g	S	95		S	96 hr	LC50	4	PPB	2-7	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C	
72-4a	Rainbow trout	Oncorhynchus mykiss	EryLf	F	94		F	97day	LOEC	44	PPB	N.R.	2	N.R.	1989	41422401	H. Craven (KBN)	ABL C	
72-1	Yellow perch	Perca flavescens	1.4 g	S	95		S	96 h	LC50	263	PPB	205-338	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Fathead minnow	Pimephales promelas	.9g	S	95		S	96 hr	LC50	8650	PPB	6450-11500	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Brown trout	Salmo trutta	1.1 g	S	95		S	96 hr	LC50	101	PPB	84-115	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Lake trout	Salvelinus namaycush	1.1g	S	95		S	96 hr	LC50	76	PPB	47-123	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C	
72-1	Walleye	Stizostedion vitreum v.	1.3 g	S	95		S	96 hr	LC50	64	PPB	59-70	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS S	
72-1	Tilapia	Tilapia mossambica	0.85 g	S	95		S	96 hr	LC50	2000	PPB	N.R.	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS S	
141-1	Honey bee	Apis mellifera	Adult	C	Tech		C	96 hr	LD50	0.709	UGB	N.R.	N.R.	8.04	1979	0001999	A. Vaughan	UCR C	
141-1	Honey bee	Apis mellifera	Adult	C	Tech		C	N.R.	LD50	0.27	UGB	0.22-0.29	N.R.	N.R.	1988	05004151	A. Vaughan	REF C	
141-2	Honey bee	Apis mellifera	worker	FO	57EC		FO	8 hr	LD50	< 1.6	LBA	N.A.	< 1.6	N.A.	1989	41208001	A. Vaughan	MLI C	
141-1	Honey bee	Apis mellifera	Adult	O	Tech		O	48 hr	LD50	0.38	UGB	N.R.	N.R.	N.R.	1988	05004003	A. Vaughan	REF C	
141-1	Honey bee	Apis mellifera	Adult	C	Tech		C	48 hr	LD50	0.20	UGB	N.R.	N.R.	N.R.	1978	NR	05001991	A. Vaughan	REF C
141-1	Honey bee	Apis mellifera	Late I	S	95		S	96 hr	LC50	385.0	PPB	246-602	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS S	
72-2a	Snipefly	Atherix variegata	YC-2	S	95		S	96 hr	LC50	2.8	PPB	1.4-4.3	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS S	
72-2a	Stonefly	Claassenia sabulosa	Juv	S	95		S	96 hr	LC50	5.0	PPB	2.9-8.6	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS S	
72-2a	Caddisfly	Hydropsyche sp.	Juv	S	95		S	96 hr	LC50	0.69	PPB	0.2-2.4	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS S	
72-2a	Stonefly	Isoperla sp.	Naiad	S	95		S	96 hr	LC50	10	PPB	6.5-15.0	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS S	
72-2a	Damselfly	Lestes congener	Juv	S	95		S	96 hr	LC50	1.3	PPB	0.77-2.0	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS S	
72-2a	Caddisfly	Limnephilus sp.	Late I	S	95		S	96 hr	LC50	1.1	PPB	0.78-1.5	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C	
72-2a	Stonefly	Pteronarcella badia	Juv	F	95		F	96 hr	EC50	> 1000	PPB	N.R.	N.R.	N.R.	1986	40228401	F. L. Mayer	EPA C	
72-3b	Eastern oyster	Crassostrea virginica	Juv	F	57E		F	96 hr	EC50	3120	PPB	N.R.	260	1.09	1990	6153061B	Nimish Vyas	ESE S	
72-3b	Eastern oyster	Crassostrea virginica	Juv	F	60.3		F	96 hr	EC50	2900	PPB	1300-4800	1360	N.R.	1992	42249901	J. Edwards	ESE C	
72-3e	Eastern oyster	Crassostrea virginica	SPAT	F	60.3		F	96 hr	EC50	2900	PPB	1300-4800	1360	N.R.	1992	42249901	J. Edwards	ESE C	

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71-1	Mallard duck	Anas platyrhynchos	14WKS	O	Tech		O	14 D	LD50	> 19.8	MGK	N.A.	N.R.	N.A.	1979	00088885	D. Johnson	HRC S
71-1	California quail	Callipepla californica	5-6WOS	O	100		O	14 D	LD50	> 2000	MGK	N.A.	N.R.	N.A.	1984	00160000	Hudson, R.H. et al	FWS S
71-1	Ring-necked pheasant	Phasianus colchicus	14WKS	O	Tech		O	14 D	LD50	> 187	MGK	N.A.	N.R.	N.A.	1979	00088885	D. Johnson	HRC S
72-2	Water flea	Daphnia magna	<24 hr	F	93		F	96 hr	EC50	0.40	PPB	0.33-0.47	< 0.23	5.2	1991	43752202	T. Bailey	TES IN
72-4	Water flea	Daphnia magna	LifCyc	F	86.85		F	21 D	LOEC	0.062	PPB	N.A.	< 0.062	N.A.	1992	42052501	Tracy Perry	SBI IN
72-2	Water flea	Daphnia magna	<24 hr	S	90		S	48 hr	EC50	3.1	PPB	2.4-3.9	0.41	3.26	1978	40991210	C. Houseknecht	B.O.C

GUIDE LINE	COMMON NAME	SCIENTIFIC NAME	AGE/STAGE	SIZE	TEST TYPE	%AI	STUDY TIME	DOSE TYPE	TOX LEVEL	95% CL	NOEL/NOEC	SLOPE	STUDY DATE	REV MRID/DATE ACC	REVIEWER(S)	LAB CA GOR
72-2	Water flea	Daphnia magna	<24 hr	S	40		48 hr	EC50	110	N.R.	18	7.83	1990	41153302	D. Balluff	ABL C
72-3	Pink shrimp	Penaeus duorarum	1.54 g	S	40		96 hr	LC50	1.2	0.79-1.6	< 0.78	4.9	1995	40991214	T. Bailey	SBI S
72-3	Pink shrimp	Penaeus duorarum	Adult	S	90		96 hr	LC50	1.3	1.0-1.9	0.5	5.81	1989	40991217	C. Houseknecht	SBI C
72-1	White sucker	Catostomus commersoni	0.7 g	F	84		96 hr	LC50	3.25	2.61-4.05	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	White sucker	Catostomus commersoni	Finglg	F	84		96 hr	EC25	2.33	2.04-2.67	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-3	Sheepshead minnow	Cyprinodon variegatus	9 mg	S	96		96 hr	LC50	11	6.25-25.00	N.R.	N.R.	1989	40991218	C. Houseknecht	SBI C
72-1	Carp	Cyprinus carpio	4.8 cm	S	88		96 hr	LC50	3.95	3.34-4.68	3.0	4.47	1989	40991203	C. Houseknecht	NFR S
72-1	Northern pike	Esox lucius	Finglg	F	84		96 hr	LC50	1.05	0.87-1.26	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Channel catfish	Ictalurus punctatus	0.7 g	S	84		96 hr	LC50	16.6	9.6-28.6	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Channel catfish	Ictalurus punctatus	Finglg	F	84		96 hr	LC50	3.2	2.54-4.03	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Green sunfish	Lepomis cyanellus	4.3 cm	S	88		96 hr	LC50	4.55	3.25-6.36	N.R.	N.R.	1989	40991203	C. Houseknecht	NFR C
72-1	Bluegill sunfish	Lepomis macrochirus	0.6 g	S	84		96 hr	LC50	1.7	0.31-9.3	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Bluegill sunfish	Lepomis macrochirus	1.0 g	F	84		96 hr	LC50	0.75	0.63-0.9	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Bluegill sunfish	Lepomis macrochirus	Finglg	F	84		96 hr	LC50	2.62	2.14-3.19	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1b	Bluegill sunfish	Lepomis macrochirus	0.23 g	S	40		96 hr	LC50	8.0	5.6-10	5.6	N.R.	1990	40991201	D. Balluff	ABL S
72-1	Largemouth bass	Micropterus salmoides	Finglg	F	84		96 hr	LC50	0.66	0.55-0.78	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Coho salmon	Oncorhynchus kisutch	0.5 g	S	84		96 hr	LC50	1.77	0.55-5.77	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Coho salmon	Oncorhynchus kisutch	Finglg	F	84		24 hr	LC50	0.76	0.64-0.92	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS S
72-1	Rainbow trout	Oncorhynchus mykiss	1.4 g	S	84		96 hr	LC50	1.8	0.95-3.49	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Rainbow trout	Oncorhynchus mykiss	2.5 g	F	84		96 hr	LC50	0.45	0.33-0.61	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Rainbow trout	Oncorhynchus mykiss	0.2 g	S	84		96 hr	LC50	0.28	0.24-0.32	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1c	Rainbow trout	Oncorhynchus mykiss	2.63 g	F	93		96 hr	LC50	0.82	0.73-0.93	0.25	12.1	1991	43752201	T. Bailey	TES C
72-1c	Rainbow trout	Oncorhynchus mykiss	4.8 cm	S	88		96 hr	LC50	3.14	2.76-3.58	2.0	N.R.	1989	40991203	C. Houseknecht	NFR C
72-4a	Rainbow trout	Oncorhynchus mykiss	ErlyLf	F	90		52 D	LOEC	0.59	N.A.	0.32	N.A.	1989	40991223	C. Houseknecht	SBI S
72-1d	Rainbow trout	Oncorhynchus mykiss	1.1 g	S	40		96 hr	LC50	5.6	3.2-10	3.2	N.R.	1990	40991202	D. Balluff	ABL C
72-11	Yellow perch	Perca flavescens	Finglg	F	84		96 hr	LC50	0.51	0.444-0.6	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Yellow perch	Perca flavescens	6.6 cm	S	88		96 hr	LC50	2.36	1.96-2.84	1.00	8.28	1989	40991203	C. Houseknecht	NFR S
72-1	Fathead minnow	Pimephales promelas	0.4 g	S	84		96 hr	LC50	6.6	5.22-8.35	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Fathead minnow	Pimephales promelas	0.70g	S	84		96 hr	LC50	2.96	0.89-9.89	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Fathead minnow	Pimephales promelas	0.8 g	F	84		96 hr	LC50	2.7	2.09-3.48	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-4a	Fathead minnow	Pimephales promelas	ErlyLf	F	90		30 D	LOEC	0.59	N.A.	0.3	N.A.	1989	40991212	C. Houseknecht	SBI S
72-1	Brown trout	Salmo trutta	Finglg	F	84		96 hr	LC50	0.75	0.61-0.92	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS S
72-1	Lake trout	Salvelinus namaycush	0.7 g	S	84		96 hr	LC50	1.68	1.14-2.48	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C
72-1	Lake trout	Salvelinus namaycush	Finglg	F	84		96 hr	LC50	0.74	0.58-0.94	N.R.	N.R.	1986	40098001	Mayer & Eilersieck	FWS C

***Resmethrin Shaughnessy Number: 097801

06/11/98

GUIDE COMMON NAME SCIENTIFIC NAME AGE/SIZE TEST %AI STAGE TYPE TEST %AI STUDY DOSE TOXICITY TOX 95% CL NOEL/ NOEC SLOPE STUDY REV MRID/ DATE DATE ACC REVIEWER(S) LAB CA GOR

***Resmethrin Shaughnessey Number: 097801

141-1 Honey bee Apis mellifera Worker C N.R. 48 hr LD50 0.063 UGB N.R. N.R. 1976 1988 VAORES01 A. Vaughan UCR C
 72-3b Eastern oyster Crassostrea virginica SPAT F 18.36 96 hr EC50 1790 PPB N.R. N.R. 1984 1990 40991221 T. Bailey SBI IN

***Tefluthrin Shaughnessey Number: 128912

71-1a Mallard duck Anas platyrhynchos >16WKS Q 93 14 D LD50 4190 MGK 2120-139,000N.R. 1.533 1985 1986 261402 T.M. Armitage HRC C
 71-2b Mallard duck Anas platyrhynchos 1 D D 93 8 D LC50 2317 PPM 1600-3100 N.R. 3.48 1985 1986 261402 T.M. Armitage HRC C
 71-4b Mallard duck Anas platyrhynchos ErlyLf R 94.4 20WKS LOEL > 25 PPM N.R. 25 N.R. 1987 1987 40161124 R. Lee ICI C
 71-2a Bobwhite quail Colinus virginianus 8 D D 93 8 D LC50 15000 PPM 7590-67000N.R. 1.80 1985 1986 261402 T.M. Armitage HRC C
 71-4a Bobwhite quail Colinus virginianus ErlyLf R 94.4 20WKS LOEL > 25 PPM N.R. 25 N.R. 1987 1987 40161125 R. Lee ICI C
 72-2a Water flea Daphnia magna 1st-I S 98.3 48 hr EC50 0.07 PPB 0.05-0.1 N.R. 1.789 1984 1986 261402 T.M. Armitage JHR C
 72-2b Water flea Daphnia magna 1st-I S 1.5 48 hr EC50 0.185 PPB 0.159-.212 N.R. 4.655 1987 1987 40161132 R. Lee ICI C
 72-4b Water flea Daphnia magna ErlyLf F 99.7 21 D LOEC 0.0255 PPB N.R. 0.0088 N.R. 1987 1987 40161138 R. Lee ICI S
 72-4b Water flea Daphnia magna ErlyLf F 97.4 21 D MATC 0.024 PPB N.R. 0.0079 N.R. 1989 1990 41229501 C.R. Houseknecht JHR C
 72-3c Mysid Mysidopsis bahia Juv F 98.5 96 hr LC50 0.053 PPB 0.046-.063 N.R. 7.58 1987 1987 40161136 R. Lee ICI C
 72-3a Sheepshead minnow Cyprinodon variegatus 0.53 g F 94.4 96 hr LC50 0.13 PPB 0.11-0.16 0.06 N.R. 1986 1987 40161137 R. Lee ICI C
 72-1 Bluegill sunfish Lepomis macrochirus 0.5 g F 90.4 96 hr LC50 0.13 PPB 0.091-.18 N.R. N.R. 1985 1986 261402 T.M. Armitage ICI C
 72-1 Bluegill sunfish Lepomis macrochirus 0.61 g S 1.5G 96 hr LC50 8.8 PPB 7.2-10.4 5.8 N.R. 1987 1987 40161127 R. Lee ICI C
 72-1 Rainbow trout Oncorhynchus mykiss 2.33g F 90.4 96 hr LC50 0.06 PPB 0.038-0.094N.R. N.R. 1985 1986 261402 T.M. Armitage ICI C
 72-1 Rainbow trout Oncorhynchus mykiss 3.6 g S 1.5G 96 hr LC50 7.5 PPB 5.7-10.2 N.R. N.R. 1987 1987 40161126 R. Lee ICI C
 72-3b Pacific oyster Crassostrea gigas N.R. S 93 96 hr EC50 > 1000 PPB N.R. N.R. 1987 1987 40161135 R. Lee ICI C

Tox One-Liner Report

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CHEMICAL

Pyrethrin

SHAUGHNESS

069001

CAS-NO

8003-34-7

USEPATTERN

Insecticide

<u>COMMONNAME</u>	<u>SCIENTIFIC NAME</u>	<u>AGE/SIZE</u>	<u>%AI</u>	<u>METHOD</u>	<u>DOSETYPE</u>	<u>TOXICITY</u>	<u>LEVEL</u>	<u>CL'S</u>	<u>NOEL</u>	<u>SLOPE</u>	<u>EPA-ID</u>	<u>STUDY/REV-DATE</u>	<u>LAB REVIEWER</u>	<u>CATEGOR</u>
Scud	Gammarus fasciatus	Juv	20	S	96 hr LC50	1.4	PPB	0.92-2.13	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C
Rainbow trout	Oncorhynchus mykiss	0.6g	6.25	S	96 hr LC50	68	PPB	55.46-83.37	N.R.	N.R.	USEPALAB	1976 1976	ARC J. McCann	C
Rainbow trout	Oncorhynchus mykiss	Finglg	20	F	96 hr LC50	20	PPB	13-30.6	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C
Bluegill sunfish	Lepomis macrochirus	.25g	6.25	S	96 hr LC50	49	PPB	40-60	N.R.	N.R.	USEPALAB	1976 1976	ARC J. McCann	C
Coho salmon	Oncorhynchus kisutch	Finglg	20	F	96 hr LC50	23	PPB	17.8-29.6	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C
Brown trout	Salmo trutta	Finglg	20	F	96 hr LC50	19.4	PPB	16.5-22.9	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C
Lake trout	Salvelinus namaycush	Finglg	20	F	96 hr LC50	19.7	PPB	15.4-25.3	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C
Channel catfish	Ictalurus punctatus	0.7g	20	S	96 hr LC50	8.96	PPB	6.7-12.00	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C
Largemouth bass	Micropterus salmoides	Adult	20	S	96 hr LC50	33	PPB	28.7-37.9	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck S	S
Yellow perch	Perca flavescens	Finglg	20	F	96 hr LC50	44.5	PPB	36.4-53.3	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C
Honey bee	Apis mellifera	7 D	57.8	C	48 hr LD50	.022	UGB	N.R.	N.R.	1.3	41968803	1991 1991	WLI R. Felthousen	
Water flea	Daphnia magna	N.R.	0.3	S	48 hr EC50	265	PPB	N.R.	N.R.	N.R.	EPA 67838	1975 1975	ARC J. McCann	S
Fathead minnow	Pimephales promelas	Finglg	20	F	96 hr LC50	74	PPB	42.5-121	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C
Chinook salmon	Oncorhynchus tshawytscha	Finglg	20	S	96 hr LC50	44.5	PPB	37.7-52.5	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C
Atlantic salmon	Salmo salar	0.6g	20	S	96 hr LC50	40	PPB	30.1-53.1	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C
Bluegill sunfish	Lepomis macrochirus	Finglg	20	F	96 hr LC50	104	PPB	80.3-134	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C
Bluegill sunfish	Lepomis macrochirus	Finglg	20	S	96 hr LC50	41	PPB	35.4-47.4	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck C	C

CHEMICALSHAUGHNESSCAS-NOUSE/PATTERN

Pyrethrin

069001

8003-34-7

Insecticide

<u>COMMONNAME</u>	<u>SCIENTIFIC NAME</u>	<u>AGE/SIZE</u>	<u>%AI</u>	<u>METHOD</u>	<u>DOSE/TYPE</u>	<u>TOXICITY</u>	<u>LEVEL</u>	<u>CL'S</u>	<u>NOEL</u>	<u>SLOPE</u>	<u>EPA-ID</u>	<u>STUDY/REV-DATE</u>	<u>LAB REVIEWER</u>	<u>CATEGOR</u>
Smallmouth bass	Micropterus dolomieu	N.R.	20	F	96 hr	LC50 22	PPB	18-26.8	N.R.	N.R.	40098001	1986 1986	FWS Mayer & Eilersieck	C
Mallard duck	Anas platyrhynchos	3-4MOS	20	O	24 hr	LD50 >10000	MGK	N.R.	N.R.	N.R.	00160000	1970 1984	FWS Hudson, R.H. et al	S
Mallard duck	Anas platyrhynchos	10 D	20	D	8 D	LC50 >5000	PPM	N.R.	N.R.	N.R.	00022923	1975 1975	FWS Hill, E.F. et al	C
Japanese quail	Coturnix japonica	5 MOS	20	O	24 hr	LD50 7070	MGK	996-50,200	N.R.	N.R.	00160000	1984 1985	FWS Hudson, R.H. et al	S
Japanese quail	Coturnix japonica	10 D	20	D	8 D	LC50 >5000	PPM	N.R.	N.R.	N.R.	00022923	1975 1975	FWS Hill, E.F. et al	S
Ring-necked pheasant	Phasianus colchicus	10 D	20	D	8 D	LC50 >5000	PPM	N.R.	N.R.	N.R.	00022923	1975 1975	FWS Hill, E.F. et al	S
Bobwhite quail	Colinus virginianus	10-D	57.6	D	8 D	LC50 >5620	PPM	N.R.	3160	N.R.	41968801	1991 1991	WLI R. Felthousen	C
Mallard duck	Anas platyrhynchos	10-D	57.6	D	8 D	LC50 >5620	PPM	N.R.	1780	N.R.	41968802	1991 1991	FWS R. Felthousen	C
Water flea	Daphnia magna	N.R.	N.R.	S	48 hr	EC50 25	PPB	18-32	N.R.	N.R.	N.R.	1968 1968	REF Sanders	S
Daphnid	Simocephalus serrulatus	N.R.	N.R.	S	48 hr	EC50 42	PPB	34-55	N.R.	N.R.	N.R.	1968 1968	REF Sanders	S
Stonefly	Pteronarcys californica	N.R.	N.R.	S	48 hr	LC50 6.4	PPB	4.8-8.6	N.R.	N.R.	N.R.	N.R.	REF Cope	S
Bluegill sunfish	Lepomis macrochirus	N.R.	66.2	F	96 hr	LC50 3.4	PPB	3.0-4.6	1.7	N.R.	43082302	1994 1995	SBI C. Laird	C
Rainbow trout	Oncorhynchus mykiss	1.7 g	57.4	F	96 hr	LC50 5.1	PPB	N.A.	3.1	N.A.	43082303	1994 1995	SBI C. Laird	C
Water flea	Daphnia magna	<=24hr	57.4	F	48 hr	EC50 11.6	PPB	9.6-14.2	3.7	10.3	43082305	1994 1994	SBI C. Laird	C
Bluegill sunfish	Lepomis macrochirus	1.9 g	57.4	F	96 hr	LC50 10	PPB	7.8-14.0	5.4	N.A.	43082301	1994 1995	SBI C. Laird	C
Rainbow trout	Oncorhynchus mykiss	1.7 g	66.2	F	96 hr	LC50 3.2	PPB	3.1-3.8	N.A.	6.01	43082304	1994 1995	SBI C. Laird	C
Sheepshead minnow	Cyprinodon variegatus	0.43 g	57.4	F	96 hr	LC50 16.0	PPB	14.5-17.7	7.4	13.18	43082307	1994 1995	SBI C. Laird	C
Eastern oyster	Crassostrea virginica	SPAT	57.4	F	96 hr	EC50 86	PPB	72-100	<14	1.7	43082309	1994 1995	SBI C. Laird	C
Mysid	Mysidopsis bahia	<=24hr	57.4	F	96 hr	LC50 1.4	PPB	1.1-1.8	0.29	4.105	43082311	1994 1995	SBI C. Laird	C

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CHEMICAL

SHAUGHNESS

CAS-NO

USEPATTERN

Pyrethrin 069001 8003-34-7 Insecticide

<u>COMMONNAME</u>	<u>SCIENTIFIC NAME</u>	<u>AGE/SIZE</u>	<u>%AI</u>	<u>METHOD</u>	<u>DOSETYPE</u>	<u>TOXICITY</u>	<u>LEVEL</u>	<u>CL'S</u>	<u>NOEL</u>	<u>SLOPE</u>	<u>EPA-ID</u>	<u>STUDY/REV-DATE</u>	<u>LAB REVIEWER</u>	<u>CATEGOR</u>
Bluegill sunfish	Lepomis macrochirus	1.9 g	57.4	F	96 hr LC50	18.7	PPB	15-25	5.4	N.A.	43082301	1994 1994	SBI C. Laird	C
Eastern oyster	Crassostrea virginica	SPAT	57.4	F	96 hr EC50	79.8	PPB	60.9-119	<14	N.A.	43082309	1994 1994	SBI C. Laird	C
Rainbow trout	Oncorhynchus mykiss	1.7 g	57.4	F	96 hr LC50	5.1	PPB	3.1- Infini	3.1	N.A.	43082303	1994 1994	SBI C. Laird	C
Water flea	Daphnia magna	ErlyLf	57.4	F	21 D LOEC	2.0	PPB	N.A.	0.86	N.A.	43252702	1994 1995	SBI K. Valente	C
Fathead minnow	Pimephales promelas	ErlyLf	57.4	F	35 D LOEC	3.0	PPB	N.A.	1.9	N.A.	43252701	1994 1995	SBI K. Valente	C

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SHAUGHNESS

CAS-NO

USEPATTERN

8003-34-7
Insecticide

069001

Pyrethrin/Piperonyl butoxide

069001

<u>COMMONNAME</u>	<u>SCIENTIFIC NAME</u>	<u>AGE/SIZE</u>	<u>%AI</u>	<u>METHOD</u>	<u>DOSETYPE</u>	<u>TOXICITY</u>	<u>LEVEL</u>	<u>CL'S</u>	<u>NOEL</u>	<u>SLOPE</u>	<u>EPA-ID</u>	<u>STUDY/REV-DATE</u>	<u>LAB REVIEWER</u>	<u>CATEGOR</u>
Bluegill sunfish	Lepomis macrochirus	0.66 g	1/10	F	96 hr	LC50 3.4	PPB	3.0-4.6	1.7	N.A.	43082302	1994 1994	SBI C. Laird	C
Eastern oyster	Crassostrea virginica	SPAT	1/10	F	96 hr	EC50 26	PPB	21-32	<3.1	0.54	43082310	1992 1992	SBI C. Laird	C
Water flea	Daphnia magna	<=24hr	1/10	F	48 hr	EC50 6.7	PPB	5.7-7.9	0.55	4.86	43082306	1994 1995	SBI C. Laird	C
Sheepshead minnow	Cyprinodon variegatus	0.43 g	1/10	F	96 hr	LC50 3.8	PPB	3.4-4.5	1.6	8.35	43082308	1994 1995	SBI C. Laird	C
Mysid	Mysidopsis bahia	<=24hr	1/10	F	96 hr	LC50 0.14	PPB	0.084-0.25	0.084	N.A.	43082312	1994 1995	SBI C. Laird	C

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