

8-11-98

PESTICIDE TOXICITY DATABASE REPORT
EEB Oneliner Toxdata File (1991-97)

GUIDE LINE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST %AI	STUDY TIME	DOSE TYPE	TOXICITY LEVEL	95% CL	NOEL/NOEC	SLOPE	STUDY DATE	REV DATE	MRID/ACC	REVIEWER(S)	LAB CA COR
***Acephate Shaughnessy Number: 103301															
N.A.	Green frog	Rana clamitans	Tagpol	S	90	24 hr	LC50 6433	5.8-6.7K	N.R.	N.R.	1976	1981	05019255	R. Balcomb	CCR S
122-2	Marine diatom	Skeletonema costatum	N.R.	S	94	96 hr	EC50 > 50	N/A	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
71-2b	Mallard duck	Anas platyrhynchos	N.R.	D	93.3	14 D	LC50 > 5000	N.R.	N.R.	N.R.	1976	1981	00015957	R. Balcomb	CCC C
71-1	Mallard duck	Anas platyrhynchos	N.R.	O	89	14 D	LD50 350	MGK N.R.	100	N.R.	1970	1977	00014700	L. Windberg	CCC C
71-1	Mallard duck	Anas platyrhynchos	4-6MOS	O	93	14 D	LD50 234	MGK 186-295	< 124	N.R.	1976	1981	00160000	Judson, R.H. et al	DWR S
71-1a	Mallard duck	Anas platyrhynchos	Adult	O	98.5	14 D	LD50 > 1000	MGK N.R.	1000	N.R.	1983	1991	131274	D. Balluff	WLI S
71-4	Mallard duck	Anas platyrhynchos	EarlyLf	R	92.7	16 WK	LOEL 20	N.A.	5	N.R.	1979	1981	00029691	R. Balcomb	WLI C
71-2	Bobwhite quail	Colinus virginianus	N.R.	D	93	8 D	LC50 1280	MGK 1.0-1.5K	625	N.R.	1976	1981	00015956	W.C. Faatz	CCC C
71-1a	Bobwhite quail	Colinus virginianus	9MOS	O	98.6	14 D	LD50 > 2510	MGK N.R.	398	N.R.	1984	1991	144280	D. Balluff	WLI C
71-2a	Bobwhite quail	Colinus virginianus	N.R.	D	97.8	10 D	LC50 > 20000	MGK N.R.	1800	N.R.	1967	1983	00021834	W.C. Faatz	WDR C
71-4	Bobwhite quail	Colinus virginianus	EarlyLf	R	92.7	N.R.	LOEL 80	N.R.	20	N.R.	1979	1981	00029692	R. Balcomb	WLI C
71-1b	Dark-eyed junco	Junco hyemalis	N.R.	O	75	5 hr	LD50 106	MGK N.R.	< 13	N.R.	1981	1981	N.R.	R. Balcomb	REF S
71-2b	Dark-eyed junco	Junco hyemalis	N.R.	D	75	5 D	LC50 < 625	MGK N.R.	N.R.	N.R.	1981	1981	N.R.	R. Balcomb	REF S
71-1	Ring-necked pheasant	Phasianus colchicus	N.R.	O	89	14 D	LD50 140	MGK 105-187	68	N.R.	1970	1981	00014701	L. Windberg	CCC C
72-2	Water flea	Daphnia magna	1st-I	S	75	48 hr	EC50 1.3	PPM 0.67-2.5	< 0.2	1.62	1978	1981	USEPA	R. Balcomb	ABL C
72-2	Water flea	Daphnia magna	N.R.	S	75WP	48 hr	EC50 71.78	PPM N.R.	N.R.	N.R.	1978	1979	ACC235203	E. Fite	CCC C
72-2	Water flea	Daphnia magna	<24 hr	S	75WP	48 hr	EC50 31.5	PPM 23-42	N.R.	N.R.	1975	1980	N.R.	J. McCann	EPA C
72-4b	Water flea	Daphnia magna	EarlyLf	NR	75	21 D	LOEC 375	PPB N.R.	150	N.R.	1978	1982	N.R.	R. Balcomb	EPA C
72-2	Scud	Gammarus pseudolimneaus	Adult	S	94	48 hr	LC50 > 50	PPM N.A.	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-3	Mysid	Mysidopsis bahia	Adult	F	94	96 hr	LC50 3.8	PPM 0.3-190	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA S
72-3	Brown shrimp	Penaeus aztecus	N.R.	S	89	48 hr	LC50 22.9	PPM 9.5-54.9	10	N.R.	1977	1977	00014711	L. Windberg	BIO S
72-3	Pink shrimp	Penaeus duorarum	Adult	S	94	96 hr	LC50 > 10	PPM N.R.	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA S
72-2	Red crayfish	Procambarus clarki	33 g	F	75	120hr	LC50 > 750	PPM N.R.	N.R.	N.R.	1971	1981	00014712	R. Balcomb	BIO C
72-1	Goldfish	Carassius auratus	N.R.	S	77.1	96 hr	LC50 26.67	PPM 24-32	N.R.	N.R.	1970	1983	00034683	W.C. Faatz	ARC S
72-3	Sheepshead minnow	Cyprinodon variegatus	Juv	S	94	96 hr	LC50 > 3200	PPM N.R.	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
72-1	Mosquitofish	Gambusia affinis	N.R.	S	75	96 hr	LC50 6000	PPM N.R.	4000	N.R.	1971	1981	00014709	R. Balcomb	CCC S
72-1	Mosquitofish	Gambusia affinis	N.R.	S	77.1	96 hr	LC50 16.37	PPM 13.7-19.1	N.R.	N.R.	1968	N.R.	00084743	EEB Review	REF S
72-1	Channel catfish	Ictalurus punctatus	2 g	S	94	96 hr	LC50 > 1000	PPM N.R.	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Channel catfish	Ictalurus punctatus	N.R.	S	75	96 hr	LC50 1500	PPM N.R.	< 1000	N.R.	1971	1981	00014708	R. Balcomb	BIO S

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LINE																GOR
***Acephate Shaughnessy Number: 103301																
72-1	Channel catfish	Ictalurus punctatus	N.R.	S	Tech	96 hr	LC50 > 1000	PPM	N.R.	N.A.	N.R.	1975	1981	00014705	R. Balcomb	SBI C
72-3	Pinfish	Lagodon rhomboides	Adult	F	94	96 hr	LC50 85	PPM	7.8-930	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
72-3	Spot	Leiostomus xanthurus	Adult	S	94	96 hr	LC50 > 100	PPM	N.R.	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	S	94	96 hr	LC50 > 50	PPM	N.R.	N.R.	N.R.	1986	1986	40093001	Mayer & Ellersieck	FWS C
72-1	Bluegill sunfish	Lepomis macrochirus	N.R.	S	75	96 hr	LC50 2000	PPM	N.R.	500	N.R.	1970	1977	00014706	R. Balcomb	BIO C
72-1	Bluegill sunfish	Lepomis macrochirus	2.1 g	S	75WP	96 hr	LC50 > 180	PPM	N.R.	N.A.	N.R.	1975	1982	N.R.	J. McCann	EPA C
72-1	Bluegill sunfish	Lepomis macrochirus	N.R.	S	Tech	96 hr	LC50 > 1000	PPM	N.R.	N.A.	N.R.	1970	1981	00014705	R. Balcomb	SBI C
72-1	Largemouth bass	Micropterus salmoides	1.1-3g	S	75	96 hr	LC50 3000	PPM	N.R.	500	N.R.	1971	1981	00014707	R. Balcomb	CCC C
72-1	Cutthroat trout	Oncorhynchus clarki	0.7 g	S	94	96 hr	LC50 > 50	PPM	N/A	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Rainbow trout	Oncorhynchus mykiss	1.1 g	S	97	96 hr	LC50 110	PPM	63-190	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Rainbow trout	Oncorhynchus mykiss	N.R.	S	N.R.	24 hr	LC50 895	PPM	N.R.	N.R.	N.R.	1975	1981	05017149	R. Balcomb	UCL S
72-1	Rainbow trout	Oncorhynchus mykiss	N.R.	S	Tech	24 hr	LC50 880	PPM	N.R.	N.R.	N.R.	1979	1981	05020323	R. Balcomb	FWS S
72-1	Rainbow trout	Oncorhynchus mykiss	N.R.	S	Tech	96 hr	LC50 > 1000	PPM	N.R.	N.A.	N.R.	1970	1981	00014705	R. Balcomb	SBI C
72-1	Rainbow trout	Oncorhynchus mykiss	1.5 g	S	75WP	96 hr	LC50 730	PPM	580-920	N.R.	N.R.	NR	1995	N.R.	B. Montague	FWS S
72-1	Yellow perch	Perca flavescens	2 g	S	94	96 hr	LC50 > 50	PPM	N.R.	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Yellow perch	Perca flavescens	1.8 g	S	75WP	96 hr	LC50 > 100	PPM	N.R.	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Fathead minnow	Pimephales promelas	1.0 g	S	75WP	96 hr	LC50 > 1000	PPM	N.R.	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Atlantic salmon	Salmo salar	Juv	S	97	96 hr	LC50 > 50	PPM	N.R.	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Brook trout	Salvelinus fontinalis	1.5 g	S	94	96 hr	LC50 > 50	PPM	N.R.	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-1	Brook trout	Salvelinus fontinalis	0.2 g	S	75	96 hr	LC50 > 100	PPM	N.R.	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
141-1b	Honey bee	Apis mellifera	adult	C	75	24 hr	LD50 1.2	UGB	N.R.	N.R.	N.R.	1971	1971	N.R.	A. Vaughan	WSU C
141-1	Honey bee	Apis mellifera	Worker	C	75	2 hr	LD50 < 1	LBA	N.R.	N.R.	N.R.	1971	1981	014715	A. Vaughan	CCC C
72-2	Midge	Chironomus plumosus	3rd-I	S	94	48 hr	LC50 > 50	PPM	N/A	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-2	Midge	Chironomus plumosus	3rd-I	S	94	48 hr	LC50 > 1000	PPM	N.R.	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS S
141-3	Lacewing	Chrysopa carnea	N.R.	O	Tech	N.R.	LD50 5.57	PPB	N.R.	N.R.	N.R.	1978	1981	05001012	A. Vaughn	REF S
72-2	Stonefly	Isogenus sp.	Juv	S	94	96 hr	LC50 11.7	PPM	8.7-15.8	< 8.4	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-2	Stonefly	Isogenus sp.	Juv	S	75	96 hr	LC50 12.0	PPM	8.0-17.9	< 8.0	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-2	Stonefly	Pteronarcella badia	1st-Y	S	94	96 hr	LC50 6.4	PPM	5.3-7.8	N.R.	N.R.	1986	1986	40098001	Mayer & Ellersieck	FWS C
72-2	Stonefly	Pteronarcella badia	naiad	S	94	96 hr	LC50 9.5	PPM	7.3-12.3	N.R.	N.R.	1980	1982	40098001	Mayer & Ellersieck	FWS C
72-2	Stonefly	Skwala sp.	naiad	S	94	96 hr	LC50 12	PPM	N.R.	N.R.	N.R.	1980	1982	40094602	Johnson & Finley	FWS S
72-3	Eastern oyster	Crassostrea virginica	Larv	S	94	48 hr	EC50 150	PPM	8.0-300	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C
72-3	Eastern oyster	Crassostrea virginica	EmbLrv	S	Tech	48 hr	EC50 5.41	PPM	3.2-8.9	0.5	N.R.	1970	1977	00014713	L. Windberg	BIO C
123-1b	Begonia	Begonia sp.	Juvpln	VV	15.6	2WKS	EC50 < 0.0075	LB/G	N.R.	N.A.	N.R.	1978	1978	N.R.	R.W. Holst	CCC S
123-1b	Tomato	Lycopersicon esculentum	Juvpln	VV	15.6	5WKS	EC50 < 0.75	LB/G	N.R.	N.A.	N.R.	1978	1978	N.R.	R.W. Holst	CCC S

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LINE			STAGE			TIME	LEVEL								

***Acephate Shaughnessey Number: 103301

***Bifenthrin Shaughnessey Number: 128825

71-1a	Mallard duck	Anas platyrhynchos	N.R.	O	88.3	21 D	LD50 > 2150	MGK	N.R.	N.R.	N.R.	1983	1984 ACC351727	R. Farringer	BLA C
71-2b	Mallard duck	Anas platyrhynchos	8 D	D	88.3	8 D	LC50 1280	PPM	790-2074	< 312	N.R.	1983	1984 ACC351727	R. Farringer	BLA C
71-4b	Mallard duck	Anas platyrhynchos	EryLf	R	88.3	154 D	LOEL > 75	PPM	N.R.	> 75	N.R.	1986	1987 264645	L. Touart	HRC C
71-1a	Bobwhite quail	Colinus virginianus	46-50W	O	88.3	21 D	LD50 1800	MGK	1250-2592	< 464	3.5	1983	1984 ACC351727	R. Farringer	BLA C
71-2a	Bobwhite quail	Colinus virginianus	9 D	D	88.3	8 D	LC50 4450	PPM	3870-5118	< 2500	N.R.	1983	1984 ACC351727	R. Farringer	BLA C
71-4a	Bobwhite quail	Colinus virginianus	EryLf	R	88.3	168 D	LOEL > 75	PPM	N.R.	> 75	N.R.	1986	1987 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	1.69	1983	1984 ACC351727	R. Farringer	EGG C
72-4b	Water flea	Daphnia magna	EryLf	F	70	21 D	LOEC 0.003	PPB	N.R.	0.0013	N.R.	1989	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	0.0025	N.R.	1987	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	N.R.	1986	1987 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	7.7	1983	1984 ACC351727	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	3.5	1983	1984 ACC351727	R. Farringer	EGG C
72-5	Fathead minnow	Pimephales promelas	LifCyc	F	70	368 D	LOEL 0.096	PPB	N.A.	0.04	N.A.	1988	1989 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.	N.R.	1981	1985 VAOTAL01	A. Vaughan	FMC C
141-1	Honey bee	Apis mellifera	Worker	C	2 EC	48 hr	LD50 < 1.0	LBA	N.A.	N.A.	N.A.	1986	1987 ACC264649	A. Vaughan	UCR C
72-3b	Eastern oyster	Crassostrea virginica	Embryo	S	88.3	48 hr	EC50 285	PPB	N.R.	< 0.126	N.R.	1987	1988 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	N.R.	1987	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.	N.R.	1984	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	N.R.	1992	1994 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	3.8	1992	1993 42372802	R. Hirsch	TES C
71-1b	Mallard duck	Anas platyrhynchos	3 MOS	O	85	14 D	LD50 > 2564	MGK	N.R.	N.R.	N.R.	1984	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.	N.R.	1975	1975 00022923	Hill, E.F. et al	FWS C
71-4b	Mallard duck	Anas platyrhynchos	EryLf	R	99.9	26WKS	LOEL > 300	PPM	N.R.	300	N.R.	1986	1986 ACC263701	L. Turner	BLA C
71-4b	Mallard duck	Anas platyrhynchos	EryLf	R	99.9	168 D	LOEL 1000	PPM	N.A.	300	N.A.	1986	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.	N.R.	1984	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.	N.R.	1975	1975 28757	Hill, E.F. et al	FWS C

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LINE			STAGE														
***Carbaryl Shaughnessy Number: 056801																	
71-4a	Bobwhite quail	Colinus virginianus	EarlyLf	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	R. Hirsch	TES C	
72-4b	Water flea	Daphnia magna	EarlyLf	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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GUIDE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STUDY TIME	DOSE	TOXICITY	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY DATE	REV MRID/ DATE	REVIEWER(S)	LAB CA
LINE			STAGE													GOR
***Carbaryl Shaughnessy Number: 056801																
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 & Ellersieck	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 & Ellersieck	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 & Ellersieck	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 & Ellersieck	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 & Ellersieck	FWS C
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	S	30	96 hr	LC50	49	PPM	23-105	N.R.	N.R.	1970	1982 0059202	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	Juv	S	99.5	96 hr	LC50	0.97	PPM	0.77-1.2	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Cutthroat trout	Oncorhynchus clarki	0.6 g	S	99.5	96 hr	LC50	2.4	PPM	1.86-3.0	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Coho salmon	Oncorhynchus kisutch	5.1 g	S	99.5	96 hr	LC50	2.4	PPM	0.8-1.8	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Rainbow trout	Oncorhynchus mykiss	1.5 g	S	99.5	96 hr	LC50	1.2	PPM	1.0-2.0	0.55	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Rainbow trout	Oncorhynchus mykiss	Juv	S	Degr	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	0.86 g	S	44	96 hr	LC50	1.4	PPM	2.7-4.0	N.R.	4.2	1992	1993 4237901	R. Hirsch	TES C
72-1	Rainbow trout	Oncorhynchus mykiss	N.R.	N.R.	81.5	96 hr	LC50	3.3	PPM	N.R.	0.73	N.R.	1992	1994 4237901	R. Hirsch	TES C
72-1	Rainbow trout	Oncorhynchus mykiss	0.85 g	F	81.5	96 hr	LC50	3.3	PPM	2.8-4.2	1.8	N.R.	1971	1971 N.R.	J. McCann	ARC C
72-1	Rainbow trout	Oncorhynchus mykiss	1.2 g	S	50WP	96 hr	LC50	3.45	PPM	2.7-7.7	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	1.6-3.5	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-1	Chinook salmon	Oncorhynchus tshawytscha	Fgling	F	99.5	96 hr	LC50	2.4	PPM	0.28-0.43	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Yellow perch	Perca flavescens	0.9 g	S	99.5	96 hr	LC50	0.35	PPM	4.8-12	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Fathead minnow	Pimephales promelas	0.8 g	S	99.5	96 hr	LC50	7.7	PPM	N.R.	210	N.R.	1972	1982 TOUCAR05	L. Touart	SBI C
72-5	Fathead minnow	Pimephales promelas	LifCyc	SR	99	9 MOS	LOEC	680	PPB	N.R.	210	N.R.	1980	1986 40094602	Johnson & Finley	FWS 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.	1986	1986 40098001	Mayer & Ellersieck	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 & Ellersieck	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 & Ellersieck	FWS 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/DATE	REVIEWER(S)	LAB CA
LINE			STAGE	TYPE		TIME	TYPE	LEVEL					DATE	ACC		GOR

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72-1	Brook trout	Salvelinus fontinalis	0.8 g	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	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	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	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	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	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	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	99.5	96 hr	LC50	5.6	PPB	3.9-8.1	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS S
72-2a	Stonefly	Isoetes sp.	YC-1	S	99.5	96 hr	LC50	3.6	PPB	2.4-5.5	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS S
72-2	Stonefly	Pteronarcella badia	YC-1	S	99.5	96 hr	LC50	1.7	PPB	1.4-2.4	N.R.	N.R.	1986	40098001	Mayer & Ellersieck	FWS S
71-3	Mule deer	Odocoileus hemionus	11 MOS	O	95	N.R.	LD50	< 400	MGK	200-400	< 200	N.R.	1984	00160000	Hudson, R.H. et al	FWS S
72-3b	Eastern oyster	Crassostrea virginica	SPAT	F	99.7	96 hr	EC50	> 2.0	PPM	N.R.	N.R.	N.R.	1986	40228401	F.L. Mayer	EPA C
72-3e	Eastern oyster	Crassostrea virginica	Emblrv	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	99	48 hr	EC50	2.7	PPM	2.4-3.9	< 2.4	7.15	1985	1988 148221	L. Touart	SBI C
72-3	Eastern oyster	Crassostrea virginica	20 mm	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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N.A.	Bullfrog	Rana catesbeiana	N.R.	O	89	N.R.	LD50	2000	MGK	N.R.	N.R.	N.R.	1984	00160000	Hudson, R.H. et al	FWS S
122-2	Green algae	Selenastrum capricornutum	N.A.	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	>90	N.R.	LD50	3.2	MGK	N.R.	N.R.	N.R.	1972	0020560	EEB review	REF S
71-1	Red-winged blackbird	Agelaius phoeniceus	Adult	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	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	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	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	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	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	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	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	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	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	23ME	8 D	LC50	649	PPM	464-908	< 23	N.R.	1978	1980 240993	J. Leitzke	WLI C
71-4b	Mallard duck	Anas platyrhynchos	Erly/Lf	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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LINE			STAGE												
***Diazinon Shaughnessy Number: 057801															
71-4b	Mallard duck	Anas platyrhynchos	EarlyLf	R	100	6WKS	LOEL 16.33	PPM	N.R.	8.3	N.R.	1989	1990 41322901	C. Houseknecht	WLI C
71-1	Canada goose	Branta canadensis	N.R.	O	86.6	14 D	LD50 6.16	MGK	2.9-11.5	N.R.	N.R.	1987	1988 FEODIA08	H. Craven (KEN)	BLA S
71-4	Canada goose	Branta canadensis	EarlyLf	R	86.6	28 D	LOEL 39.3	PPM	N/A	6	N.R.	N.P.	1987 N.R.	EEB review	WLI S
71-1a	Bobwhite quail	Colinus virginianus	16+WKS	O	Tech	14 D	LD50 10	MGK	N.R.	N.R.	N.R.	1986	1987 R00DI002	M. Rostker	CGC S
71-1a	Bobwhite quail	Colinus virginianus	16+WKS	O	14.3G	14 D	LD50 8	MGK	N.R.	N.R.	N.R.	1986	1987 R00DI002	M. Rostker	CGC S
71-1a	Bobwhite quail	Colinus virginianus	2 WKS	O	91	14 D	LD50 5.2	MGK	3.5-7.6	2.2	N.R.	1976	1977 00109015	L.A. Windberg	WLI S
71-2a	Bobwhite quail	Colinus virginianus	10 D	D	99	8 D	LC50 245	PPM	178-324	N.R.	10.7	1975	1986 00022923	Hill, E.F. et al	FWS C
71-2a	Bobwhite quail	Colinus virginianus	7-9WKS	D	48.6	8 D	LC50 140	PPM	97-205	< 80	N.R.	1965	1977 00104923	L.A. Windberg	CGC S
71-1b	Bobwhite quail	Colinus virginianus	20 WKS	O	23 ME	14 D	LD50 472	MGK	380-587	< 251	N.R.	1978	1980 ACC240993	J. Leitzke	WLI S
71-2a	Bobwhite quail	Colinus virginianus	14 D	D	23 ME	8 D	LC50 1515	PPM	1147-2002	129	N.R.	1978	1980 ACC240993	J. Leitzke	WLI C
71-1a	Bobwhite quail	Colinus virginianus	2 WKS	O	Tech	8 D	LD50 5.2	MGK	3.5-7.6	< 2.2	N.R.	1976	1987 109015	M. Rostker	WLI S
71-4a	Bobwhite quail	Colinus virginianus	EarlyLf	R	100	6WKS	LOEC > 32	PPM	N.R.	32	N.R.	1989	1990 41322901	C. Houseknecht	WLI C
71-1a	Bobwhite quail	Coturnix japonica	14 D	O	Tech	14 D	LD50 167	MGK	N.R.	N.R.	N.R.	1986	1987 R00DI003	M. Rostker	FWS S
71-1a	Japanese quail	Coturnix japonica	14 D	D	48 EC	8 D	LC50 101	PPM	N.R.	N.R.	N.R.	1986	1987 R00DI003	M. Rostker	FWS S
71-2	Japanese quail	Coturnix japonica	6 D	D	99.0	8 D	LC50 47	PPM	40-54	N.R.	6.96	1975	1986 00022923	Hill, E.F. et al	FWS S
71-2	Japanese quail	Coturnix japonica	Adult	O	14.7	14 D	LD50 6.85	MGK	4.3-10	< 2.15	N.R.	1988	1989 40895306	G. Houseknecht	BLA S
71-1	Brown-headed cowbird	Molothrus ater	Adult	O	88.2	14 D	LD50 69	MGK	46.5-115	< 10	2.02	1988	1989 40895303	C. Houseknecht	BLA S
71-1	Brown-headed cowbird	Molothrus ater	Adult	O	48.1	14 D	LD50 46.4	MGK	29.4-71	< 10	N.R.	1988	1989 40895309	C. Houseknecht	BLA S
71-1	Brown-headed cowbird	Molothrus ater	Adult	D	88.2	8 D	LC50 38.0	PPM	26-57	8.0	3.9	1988	1989 40895304	C. Houseknecht	BLA S
71-2	Brown-headed cowbird	Molothrus ater	Adult	D	48.1	8 D	LC50 42.0	PPM	31-57	15	5.3	1988	1989 40895310	C. Houseknecht	BLA S
71-1	House sparrow	Passer domesticus	N.R.	O	>90	N.R.	LD50 7.5	MGK	N.R.	N.R.	N.R.	1972	N.R. 0020560	EEB review	REF S
71-1	House sparrow	Passer domesticus	Adult	O	14.3G	N.R.	LD50 1.8	MGK	N.R.	N.R.	N.R.	1984	1987 R00DI001	M. Rostker	REF S
71-1	Ring-necked pheasant	Phasianus colchicus	3-4MOS	O	89	14 D	LD50 4.33	MGK	3.02-6.2	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS S
71-2	Ring-necked pheasant	Phasianus colchicus	22 D	D	99	8 D	LC50 244.0	PPM	177-322	N.R.	6.8	1975	1975 00022923	Hill, E.F. et al	FWS C
72-2a	Water flea	Daphnia magna	1st-I	S	Tech	48 hr	EC50 0.96	PPB	.83-1.1	0.56	N.R.	1987	1988 00109022	L.A. Windberg	CGC C
72-2b	Water flea	Daphnia magna	<24 hr	S	48	48 hr	EC50 1.1	PPB	1.0-1.3	< .89	11.8	1987	1990 40509803	C. Houseknecht	SBI C
72-2	Water flea	Daphnia magna	48 hr	S	23 ME	48 hr	EC50 0.5	PPB	0.4-0.59	N.R.	N.R.	1982	1987 ACC240993	W. Paatz	UCE C
72-2	Water flea	Daphnia magna	<24 hr	S	Tech	48 hr	EC50 0.96	PPB	0.83-1.1	0.56	N.R.	1976	1987 109022	M. Rostker	AES C
72-4b	Water flea	Daphnia magna	EarlyLf	S	87.7	21 D	LOEC 0.32	PPB	N.R.	0.17	N.A.	1988	1989 40782302	C. Houseknecht	REF S
72-2a	Water flea	Daphnia pulex	1st-I	S	89	48 hr	EC50 0.8	PPB	0.6-1.1	N.R.	N.R.	1980	1980 40094602	Johnson & Finley	FWS C
72-2	Scud	Gammarus fasciatus	N.R.	S	89	96 hr	LC50 0.2	PPB	.15-.28	N.R.	N.R.	1980	1980 40094602	Johnson & Finley	FWS C
72-3c	Mysid	Myxidopsis bahia	24 hr	F	87.7	96 hr	LC50 4.2	PPB	3.7-4.8	< 2.7	N.R.	1988	1989 40625501	J. Noles	SBI C
72-3c	Grass shrimp	Palaemonetes pugio	Juv	F	95.1	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	95.1	48 hr	LC50 28	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S

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LINE																	
***Diazinon Shaughnessey Number: 057801																	
72-2	Daphnid	Simnocephalus sp.	1st-I	S	89	48 hr	EC50	1.4	PPB	1.2-1.6	N.R.	1980	1980	40094602	Johnson & Finley	FWS C	
72-3a	Sheepshead minnow	Cyprinodon variegatus	0.38 g	F	89	96 hr	LC50	1470	PPB	1070-3300	< 160	1979	1987	ROODI008	M. Rostker	EPA C	
72-3	Sheepshead minnow	Cyprinodon variegatus	Juv	F	95.1	96 hr	LC50	150	PPB	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C	
72-4a	Sheepshead minnow	Cyprinodon variegatus	EarlyLf	F	>89	4 WKS	MATC	< 0.47	PPB	N.R.	N.R.	1979	1987	ROODI008	M. Rostker	EPA C	
72-1	Flagfish	Jordanella floridae	N.R.	F	92.4	96 hr	LC50	1600	PPB	N.R.	N.R.	1977	1987	ROODI007	M. Rostker	EPA C	
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	S	91	96 hr	LC50	136	PPB	100-186	< 100	1964	1977	00104923	L.A. Windberg	REF C	
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	F	92.5	96 hr	LC50	460	PPB	N.R.	N.R.	1977	1987	ROODI007	M. Rostker	EPA C	
72-1	Bluegill sunfish	Lepomis macrochirus	Juv	S	48	96 hr	LC50	220	PPB	170-320	< 55	1987	1988	40509802	C. Houseknecht	SBI C	
72-1	Bluegill sunfish	Lepomis macrochirus	0.8 g	S?	23 ME	96 hr	LC50	500	PPB	390-670	N.A.	1978	1980	240993	W. Faatz	UCE C	
72-1	Bluegill sunfish	Lepomis macrochirus	1.0 g	S	92	96 hr	LC50	168	PPB	120-220	N.R.	1980	1980	40094602	Johnson & Finley	FWS C	
72-1	Bluegill sunfish	Lepomis macrochirus	0.28 g	S	48	96 hr	LC50	100	PPB	80-140	N.R.	1977	1994	N.R.	J. McCann	ARC C	
72-3	Striped mullet	Mugil cephalus	Juv	F	95.5	48 hr	LC50	150	PPB	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA S	
72-1	Cutthroat trout	Oncorhynchus clarki	2.0 g	S	92	96 hr	LC50	1700	PPB	1390-2000	N.R.	1980	1980	40094602	Johnson & Finley	FWS C	
72-1	Rainbow trout	Oncorhynchus mykiss	1.2 g	S	89	96 hr	LC50	90	PPB	N.R.	N.R.	1980	1980	40094602	Johnson & Finley	FWS C	
72-1	Rainbow trout	Oncorhynchus mykiss	1.6 g	S	23ME	96 hr	LC50	635	PPB	420-960	N.R.	1978	1987	ROODI009	M. Rostker	UCE C	
72-1	Rainbow trout	Oncorhynchus mykiss	N.R.	S	91	96 hr	LC50	400	PPB	230-700	N.R.	1965	1977	228039	M.A. Windberg	CGC S	
72-1	Rainbow trout	Oncorhynchus mykiss	Juv	S	48	96 hr	LC50	1800	PPB	1400-2900	230	1987	1988	40509801	C. Houseknecht	SBI C	
72-1	Rainbow trout	Oncorhynchus mykiss	0.91 g	S	48	96 hr	LC50	1650	PPB	1100-2400	N.R.	1977	1994	N.R.	J. McCann	ARC C	
72-1	Rainbow trout	Oncorhynchus mykiss	Juv	F	92	96 hr	LC50	7800	PPB	N.R.	N.R.	1977	1987	ROODI007	M. Rostker	EPA C	
72-1	Fathead minnow	Pimephales promelas	EarlyLf	F	87.7	34 D	MATC	< 0.092	PPB	N.R.	N.R.	1988	1989	40782301	C. Houseknecht	SBI S	
72-4a	Fathead minnow	Pimephales promelas	EarlyLf	F	92.5	25 D	LOEC	< 3.2	PPB	N.A.	< 3.2	1977	1987	ROODI007	M. Rostker	EPA S	
72-4a	Fathead minnow	Pimephales promelas	3.0 cm	S	N.R.	24 hr	LC50	1100	PPB	N.R.	N.R.	1968	1979	05000811	M. Rexrode	REF S	
72-1	Guppy	Poecilia reticulata	Juv	F	92	96 hr	LC50	770	PPB	N.R.	N.R.	1977	1987	ROODI007	M. Rostker	EPA C	
72-1	Brook trout	Salvelinus fontinalis	Juv	F	92	96 hr	LC50	600	PPB	N.A.	< 0.55	1977	1987	ROODI007	M. Rostker	EPA S	
72-4a	Brook trout	Salvelinus fontinalis	EarlyLf	F	92.5	8 MOS	LOEC	< 0.55	PPB	N.A.	< 0.55	1977	1987	ROODI007	M. Rostker	EPA S	
72-1	Lake trout	Salvelinus namaycush	3.2 g	S	92	96 hr	LC50	600	PPB	400-900	N.R.	1980	1980	40094602	Johnson & Finley	FWS C	
141-1	Predatory mites	Amblyseius hibisci	Adult	C	25 WP	24 hr	LD50	< .005	LB/G	N.R.	N.R.	1964	1980	05004148	A. Vaughan	IEF C	
141-1	Mite	Amblyseius fallacis	Adult	C	50 WP	48 hr	LD50	< 0.01	LB/G	N.R.	< 0.005	1972	1980	05009345	A. Vaughan	REF C	
141-1	Honey bee	Apis mellifera	Adult	C	Tech	48 hr	LD50	0.37	UGB	N.R.	N.R.	1975	1981	0036935	A. Vaughan	UCD S	
141-2	Honey bee	Apis mellifera	Adult	C	35	N.R.	LD50	.77	LBA	N.R.	N.R.	1967	1980	0500896	A. Vaughan	REF S	
141-1	Honey bee	Apis mellifera	Adult	C	Tech	48 hr	LD50	0.2	UGB	N.R.	N.R.	1968	1981	05004151	A. Vaughan	REF S	
141-1	Honey bee	Apis mellifera	Worker	C	N.R.	24 hr	LD50	0.22	UGB	N.R.	N.R.	1964	1980	05004151	A. Vaughan	REF C	
141-2	Honey bee	Apis mellifera	Worker	FO	40 WP	24 hr	LD50	< 0.25	LBA	N.R.	< 0.12	1967	1980	05008936	A. Vaughan	REF C	
72-2a	Stonefly larvae	Pteronarcys sp.	YC2	S	89	96 hr	LC50	25	PPB	20-30	N.R.	1980	1980	40094602	Johnson & Finley	FWS C	
72-3b	Eastern oyster	Crassostrea virginica	Juv	F	95.1	96 hr	EC50	> 1000	PPB	N.R.	N.R.	1986	1986	40228401	F.L. Mayer	EPA C	

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LINE							TIME	TYPE		LEVEL												GOR

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72-3b	Eastern oyster	Crassostrea virginica	SPAT	F	87.7	96 hr	EC50	880	PPB		630-1100	210	N.R.	1988	1989	40625302				J. Noles	SBI	C
123-1b	Onion	Allium cepa	Juvpin	VW	87.7	21 D	EC25	> 7.0	LBA		N.R.	7.0	N.R.	1988	1989	40803002				C. Lewis	PAL	C
123-1a	Oat	Avena sativa	Seedlg	SE	87.7	6 D	EC25	5.26	LBA		N.R.	< 5.3	N.R.	1988	1989	40803001				C. Lewis	PAL	C
123-1b	Cucumber	Cucumis sativus	Juvpin	VW	87.7	21 D	EC25	3.23	LBA		N.R.	3.2	N.R.	1988	1989	40803002				C. Lewis	PAL	C
123-1a	Carrot	Daucus carota	Seedlg	SE	87.7	6 D	EC25	9.03	LBA		N.R.	7.0	N.R.	1988	1989	40803001				C. Lewis	PAL	C
123-1b	Carrot	Daucus carota	Juvpin	VW	87.7	21 D	EC25	> 7.01	LBA		N.R.	7.01	N.R.	1988	1989	40803002				C. Lewis	PAL	C
123-1b	Lettuce	Lactuca sativa	Juvpin	VW	87.7	21 D	EC25	> 7.01	LBA		N.R.	7.01	N.R.	1988	1989	40803002				C. Lewis	PAL	C
123-1a	Tomato	Lycopersicon esculentum	Seedlg	SG	87.7	6 D	EC25	22.1	LBA		N.R.	5.3	N.R.	1988	1989	40803001				C. Lewis	PAL	C
123-1b	Tomato	Lycopersicon esculentum	Juvpin	VW	87.7	21 D	EC25	> 7.0	LBA		N.R.	3.5	N.R.	1988	1989	40803002				C. Lewis	PAL	C

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N.A.	Bullfrog	Rana catesbeiana	N.R.	O	94.5	14 D	LD50	> 400	MGK		N.R.	N.R.	N.R.	1984	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	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	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	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	1988	RIOCHP11				D. Rieder	REF	S
71-1a	Chukar	Alectoris chukar	3-5MOS	O	99	14 D	LD50	60.7	MGK		43.8-84.1	N.R.	N.R.	1984	1984	00160000				Hudson, R.H. et al	FWS	S
71-1a	Mallard duck	Anas platyrhynchos	Female	O	99	14 D	LD50	75.6	MGK		35.4-161.0	N.R.	N.R.	1984	1984	00160000				Hudson, R.H. et al	FWS	C
71-2b	Mallard duck	Anas platyrhynchos	5-7 D	D	99	8 D	LC50	136	PPM		84-212	10	N.R.	1965	1983	0095007				M. Rexrode	DOW	C
71-2b	Mallard duck	Anas platyrhynchos	10 D	D	97	8 D	LC50	940	PPM		N.R.	N.R.	N.R.	1975	1975	00022923				Hill, E.F. et al	FWS	C
71-2b	Mallard duck	Anas platyrhynchos	14 D	D	96.8	8 D	LC50	591	PPM		380-920	56	2.46	1978	1980	0046954				E. Zucker	WLI	C
71-2b	Mallard duck	Anas platyrhynchos	10 D	D	25.6	8 D	LC50	4223	PPM		2869-11,466	156	3.08	N.R.	1991	41965501				K. Valente	WLI	C
71-2b	Mallard duck	Anas platyrhynchos	14 D	D	N.R.	8 D	LC50	357	PPM		293-436	56.4	N.R.	1977	1980	0095447				E. Zucker	WLI	S
71-4b	Mallard duck	Anas platyrhynchos	Erylf	R	96.7	29 D	LOEL	125	PPM		N.R.	25	N.R.	1977	1980	00046952				E. Zucker	WLI	S
71-4b	Mallard duck	Anas platyrhynchos	Erylf	R	96.8	154 D	LOEC	60	PPM		N.A.	30	N.A.	1990	1992	42144901				W. Rabert	HRC	S
71-4b	Mallard duck	Anas platyrhynchos	Erylf	R	96.7	8 WKS	LOEC	100	PPM		N.A.	46	N.A.	1977	1980	046953				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	1984	00160000				Hudson, R.H. et al	FWS	S
71-1a	California quail	Callipepla californica	5-7MOS	O	94.5	14 D	LD50	68.3	MGK		40.7-115.0	N.R.	N.R.	1984	1984	00160000				Hudson, R.H. et al	FWS	S
71-1a	Bobwhite quail	Colinus virginianus	Adult	O	Tech	14 D	LD50	32	MGK		24-43	N.R.	N.R.	1987	1988	RIOCHP12				D. Rieder	FWS	C
71-2a	Bobwhite quail	Colinus virginianus	14 D	D	96.8	8 D	LC50	423	PPM		345-519	100	N.R.	1978	1980	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	1988	RIOCHP12				D. Rieder	REF	S
71-2a	Bobwhite quail	Colinus virginianus	7 D	D	99	8 D	LC50	721	PPM		N.R.	50	N.R.	1965	1983	0095123				M. Rexrode	DOW	C

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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 0046351	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	N.R.	< 25	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. Yarnhure	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.	1986	1988 0095125	D. Rieder	REF S	

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***Chlorpyrifos Shaughnessy Number: 059101

72-1	Channel catfish	Ictalurus punctatus	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	Leiostomus xanthurus	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	Lepomis cyanellus	Adult	S	99	36 hr	LC50	22.5	PPB	N.R.	N.R.	N.R.	1966	1988 0095125	D. Rieder	REF S
72-1	Bluegill sunfish	Lepomis macrochirus	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	Lepomis macrochirus	1.85g	S	99	96 hr	LC50	3.0	PPB	N.R.	N.R.	N.R.	1965	1983 0095013	M. Rexrode	DOW S
72-1	Bluegill sunfish	Lepomis macrochirus	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	Lepomis macrochirus	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	Lepomis macrochirus	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	Lepomis macrochirus	0.9 g	S	25 W	96 hr	LC50	108	PPB	N.R.	N.R.	N.R.	1966	1983 0095296	M. Rexrode	FWS C
72-3	California grunion	Leuresthes tenuis	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	Menidia beryllina	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	Menidia beryllina	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	Menidia menidia	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	Menidia menidia	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	Menidia menidia	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	Menidia menidia	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	Menidia peninsulae	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	Menidia peninsulae	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	Menidia peninsulae	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	Morone saxatilis	N.R.	S	99	96 hr	LC50	< 1000	PPB	N.R.	N.R.	N.R.	1974	1979 0500819	M. Rexrode	REF S
72-3	Striped mullet	Mugil cephalus	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	Notemigonus crysoleucas	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	Oncorhynchus clarki	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	Oncorhynchus mykiss	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	Oncorhynchus mykiss	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	Oncorhynchus mykiss	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	Oncorhynchus mykiss	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	Opsanus beta	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	Pimephales promelas	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	Pimephales promelas	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	Pimephales promelas	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	Pimephales promelas	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	Pimephales promelas	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	Pimephales promelas	EryLf	F	10	32 D	LOEC	4.8	PPB	N.A.	2.2	N.A.	1982	1985 RIOCHP05	M. Rexrode	REF S

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GUIDE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STUDY TIME	DOSE TOXICITY	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV DATE	MRID/ DATE ACC	REVIEWER(S)	LAB CA	GOR
***Chlorpyrifos Shaughnessey Number: 059101																
72-4a	Fathead minnow	Pimephales promelas	ErlyLf	F	10	30 D	LOEC 2.8	PPB	N.A.	1.29	N.A.	1988	1988 RICHPO7	M. Rexrode	EPA S	
72-5	Fathead minnow	Pimephales promelas	LifCyc	F	99.7	238 D	LOEC 1.09	PPB	N.A.	0.588	N.A.	1993	1995 42834401	W. Rabert	ETC C	
72-1	Lake trout	Salvelinus namaycush	2.9 g	S	97	96 hr	LC50 73	PPB	45-121	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S	
72-2	Mosquito	Aedes aegypti	3rd-I	S	99.9	24 hr	LC50 7.1	PPB	6.3-8.2	N.R.	N.R.	1972	1980 ACC242149	J. Felkel	REF S	
141-1	Honey bee	Apis mellifera	Adult	C	Tech	96 hr	LD50 0.114	UGB	N.R.	N.R.	N.R.	1976	1984 0066220	A. Vaughan	UCR C	
141-1	Honey bee	Apis mellifera	Worker	O	Tech	96 hr	LD50 0.25	UGB	N.R.	N.R.	N.R.	1978	1984 05001991	A. Vaughan	REF C	
141-1	Honey bee	Apis mellifera	Worker	C	Tech	24 hr	LD50 0.059	UGB	N.R.	N.R.	N.R.	1978	1983 05001991	A. Vaughan	REF C	
141-1	Honey bee	Apis mellifera	Adult	C	Tech	18 hr	LD50 0.01	UGB	N.R.	0.001	N.R.	1969	1984 5011163	A. Vaughan	REF C	
141-2	Honey bee	Apis mellifera	Adult	FO	4 EC	3 D	LC50 > 0.5	LBA	N.R.	N.R.	N.R.	1980	1984 00074486	A. Vaughan	UCR C	
141-2	Honey bee	Apis mellifera	Adult	FO	4 EC	24 hr	LC50 < 0.5	LBA	N.R.	N.R.	N.R.	1973	1983 00040602	A. Vaughan	WSU C	
72-2a	Stonely	Claassenia sabulosa	YC-2	S	97	96 hr	LC50 0.57	PPB	0.4-0.8	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C	
141-2	Leafcutter bee	Megachile rotundata	Adult	FO	4 EC	24 hr	LC50 < 0.25	LBA	N.R.	< 0.25	N.R.	1973	1983 00040602	A. Vaughan	WSU C	
141-2	Alkali bee	Nomia melanderi	Adult	FO	4 EC	24 hr	LC50 0.5	LBA	N.R.	< 0.25	N.R.	1973	1983 00040602	A. Vaughan	WSU C	
72-2a	Stonely	Pteronarcys californica	YC-2	S	97	96 hr	LC50 10	PPB	7-13	N.R.	N.R.	1980	1980 40094602	Johnson & Finley	FWS C	
141-1	Ladybird beetle	Stethorus punctum	Adult	C	4 EC	48 hr	LD50 > 0.25	LBA	N.R.	< 0.25	N.R.	1973	1984 00059461	A. Vaughan	REF C	
71-3	Domestic goat	Capra hircus	N.R.	O	94.5	14 D	LD50 500	MGK	N.R.	N.R.	N.R.	1984	1984 00160000	Mudson, R.H. et al	FWS S	
71-3	Albino rat	Rattus norvegicus	N.R.	O	99	14 D	LD50 151	MGK	179-252	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS S	
72-3b	Eastern oyster	Crassostrea virginica	SPAT	F	92	96 hr	EC50 34	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA C	
72-3	Eastern oyster	Crassostrea virginica	SPAT	F	Degr	96 hr	EC50 10.2	PPM	9.6-10.7	4.53	8.5	N.R.	1992 42245903	K. Valente	WLI C	
72-3	Eastern oyster	Crassostrea virginica	SPAT	F	95	96 hr	EC50 84	PPB	77-91	41	4.8	1989	1992 42144905	W. Rabert	SBI S	
***Fenoxycarb Shaughnessey Number: 125301																
71-1	Mallard duck	Anas platyrhynchos	N.R.	O	95	14 D	LD50 > 3000	MGK	N.R.	N.R.	N.R.	1985	1985 ACC071855	D. Rieder	NR C	
71-2b	Mallard duck	Anas platyrhynchos	Juv	D	95	8 D	LC50 > 20000	PPM	N.R.	N.R.	N.R.	1985	1985 ACC071855	D. Rieder	NR C	
71-1	Mallard duck	Anas platyrhynchos	Adult	O	95	14 D	LD50 > 3000	MGK	N.A.	< 3000	N.A.	1982	1983 ACC071855	D. Rieder	HRC C	
71-2b	Mallard duck	Anas platyrhynchos	13 D	D	95	8 D	LC50 > 20000	PPM	N.A.	N.R.	N.A.	1982	1983 ACC071855	D. Rieder	HRC C	
71-1	Bobwhite quail	Colinus virginianus	N.R.	O	95	14 D	LD50 > 7000	MGK	N.R.	N.R.	N.R.	1985	1985 ACC071855	D. Rieder	NR C	
71-2a	Bobwhite quail	Colinus virginianus	Juv	D	95	8 D	LC50 11574	PPM	N.R.	N.R.	N.R.	1985	1985 ACC071782	D. Rieder	NR C	
71-1	Bobwhite quail	Colinus virginianus	Juv	O	95	14 D	LD50 > 7000	MGK	N.A.	< 3000	N.A.	1982	1983 ACC248412	D. Rieder	HRC C	
71-2a	Bobwhite quail	Colinus virginianus	15 D	D	95	8 D	LC50 11574	PPM	N.R.	N.R.	N.R.	1982	1983 ACC071782	D. Rieder	HRC C	
72-2	Water flea	Daphnia magna	1st-I	S	95	48 hr	EC50 0.4	PPM	N.R.	N.R.	N.R.	1985	1985 ACC071855	D. Rieder	NR C	
72-4b	Water flea	Daphnia magna	ErlyLf	F	99	21 D	LOEC 0.0023	PPB	N.A.	0.0016	N.A.	1987	1989 40361808	J. Niles	ABL 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			STAGE	TYPE		TIME	LEVEL					DATE	DATE		GOR

***Fenoxycarb Shaughnessey Number: 125301

72-2	Water flea	Daphnia magna	<24 hr	S	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	LifCyc	F	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	0.07 g	SR	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	Larvae	SR	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	Juv	N.R.	95	96 hr LC50	2.7	PPM	N.R.	N.R.	N.R.	NR	1985 ACC071855	D. Rieder	NR S
72-1	Carp	Cyprinus carpio	3 g	S	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	Juv	N.R.	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	4.2 g	S	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	0.02 g	SR	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	0.03g	SR	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	Juv	N.R.	95	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	EryLlf	F	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	EryLlf	F	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	4.05 g	S	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	EryLlf	F	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	EryLlf	F	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	EmbLrv	SR	96	48 hr EC50	0.15	PPM	0.1-0.17	< 0.02	2.3	1985	1985 ACC528864	D. Rieder	EVS C

***Fenpropathrin Shaughnessey Number: 127901

71-1a	Mallard duck	Anas platyrhynchos	14 D	O	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	14 D	D	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	EryLlf	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	14 D	D	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	EryLlf	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	1st-I	S	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	1st-I	S	30	48 hr EC50	2.9	PPB	2.3-3.6	N.R.	N.R.	NR	1983 250159	R. Farringer	EGG C
72-4b	Water flea	Daphnia magna	LifCyc	F	98	21 D LOEC	< 0.35	PPB	N.R.	0.2	N.R.	1985	1986 259678	D. Rieder	ABL C
72-3c	Myxid	Mysidopsis bahia	Juv	S	90	96 hr LC50	0.021	PPB	0.018-0.025	0.013	N.R.	1987	1990 40974404	D. Rieder	SBI C
72-3f	Myxid	Mysidopsis bahia	Juv	S	31.5	96 hr LC50	0.33	PPB	N.R.	0.069	N.R.	1987	1990 40974405	D. Rieder	SBI C
72-4b	Myxid	Mysidopsis bahia	LifCyc	S	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 pugnator	Adult	S	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	Juv	S	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 LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV MRID/ DATE	REVIEWER(S)	LAB CA GOR	
***Fenprothrin Shaughnessy Number: 127901												
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												
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 F. 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 LC50 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.	1980	1981 ACC243466 C. Bowen	UCR C
72-3 Pinfish	Lagodon rhomboides	Juv	S	96.2	96 hr LC50 0.2	PPM	0.16-0.24	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												
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/	SLOPE	STUDY	REV	MRID/	REVIEWER(S)	LAB CA
LINE			STAGE	TYPE		TIME	TYPE	LEVEL			NOEC		DATE	DATE	ACC		/GOR

***Imidacloprid Shaughnessey Number: 129059

71-4b	Mallard duck	Anas platyrhynchos	EarlyLf	R	94.8	21WKS	LOEC	61	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	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	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	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	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	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	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	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	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	0.0260-0.046	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	0.138-0.046N.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	105-Inf.	58.2	6.82	1990	1994	42055318	D. Lateulere	TES C
72-1	Bluegill sunfish	Lepomis macrochirus	0.46 g	S	97.4	96 hr	LC50	> 105	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	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	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	N.A.	< 1.2	N.A.	1991	1994	42480520	D. Lateulere	ABL S
141-1	Honey bee	Apis mellifera	Adult	C	99.8	48 hr	LD50	0.078	UGB	N.R.	0.05	N.R.	1990	1994	42273003	D. Lateulere	HRC C
141-1	Honey bee	Apis mellifera	Adult	O	99.8	48 hr	LD50	0.0039	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	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	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	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	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	N.A.	< 0.025	N.A.	1991	1994	42480503	D. Lateulere	WSU S

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N.A.	Fowler's toad	Bufo woodhousei	Tadpol	S	Tech	96 hr	LC50	420	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	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	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	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	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	2953-4117	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	N.A.	110	N.A.	1995	1995	43501501	J. Edwards	WLI C

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GUIDE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE STAGE	TEST TYPE	%AI	STUDY TIME	DOSE TYPE	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY DATE	REV MRID/ DATE	REVIEWER(S)	LAB CA
71-2a	Japanese quail	Coturnix japonica	14 D	D	95	8 D	LC50	2962	2453-3656	N.R.	5.27	1975	1975 00022923	Hill, E.F. et al	FWS S
71-1	Horned lark	Eremophila alpestris	Adult	O	95	14 D	LD50	403	247-658	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS S
71-1a	Ring-necked pheasant	Phasianus colchicus	3 MOS	O	95	14 D	LD50	167	120-231	N.R.	N.R.	1984	1984 00160000	Hudson, R.H. et al	FWS S
71-2	Ring-necked pheasant	Phasianus colchicus	10 D	D	95	8 D	LC50	2639	2220-3098	N.R.	5.12	1975	1975 00022923	Hill, E.F. et al	FWS C
72-2a	Sowbug	Asellus brevicaudus	Adult	S	95	96 hr	LC50	3000	1500-8500	N.R.	N2a	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-3	Blue crab	Callinectes sapidus	Juv	F	95	48 hr	LC50	> 1000	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-2c	Seed shrimp	Cypridopsis vidua	Adult	S	95	48 hr	LC50	47	32-69	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-2a	Water flea	Daphnia magna	1st-I	S	95	48 hr	EC50	1.0	0.7-1.4	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-2a	Water flea	Daphnia magna	1st-I	F	57EC	48 hr	EC50	2.2	1.9-2.5	0.19	N.R.	1989	1989 41029701	H. Craven (KBN)	ABL C
72-4b	Water flea	Daphnia magna	LifCyc	F	94	21 D	LOEC	< 0.10	N.A.	0.06	N.A.	1990	1992 41718401	T. Bailey	ABL C
72-2a	Water flea	Daphnia pulex	1st-I	S	95	48 hr	EC50	1.8	1.4-2.4	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-2a	Scud	Gammarus fasciatus	Adult	F	95	96 hr	LC50	0.5	N.R.	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-2a	Scud	Gammarus lacustris	N.R.	S	Tech	48 hr	LC50	1.8	1.3-2.4	N.R.	N.R.	1969	1980 05009242	C. Laird	FWS C
72-3c	Mysid	Mysidopsis bahia	2,3 D	F	94	96 hr	LC50	2.2	N.R.	0.87	6.71	1990	1990 41183201	E. Montague	ABL C
72-3c	Mysid	Mysidopsis bahia	Juv	F	94	96 hr	LC50	2.2	1.5-2.6	1.5	N.R.	1990	1990 41474501	H. Craven (KBN)	ABL C
72-2a	Crayfish	Orconectes nais	1-2 I	S	95	96 hr	LC50	180	140-230	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-2a	Glass shrimp	Palaemonetes kadiakensis	Adult	F	95	96 hr	LC50	12	N.R.	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-3c	Pink shrimp	Penaeus duorarum	Juv	F	95	48 hr	LC50	280	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-2a	Daphnid	Simocephalus serrulatus	1st-I	S	95	48 hr	EC50	0.59	0.44-0.79	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Goldfish	Carassius auratus	0.9 g	S	95	96 hr	LC50	10700	8340-13800	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-3	Sheepshead minnow	Cyprinodon variegatus	0.03 g	F	95	96 hr	LC50	33.0	14-63	N.R.	N.R.	1989	1989 41174301	B. Montague	ABL C
72-3	Sheepshead minnow	Cyprinodon variegatus	0.16 g	F	57EC	96 hr	LC50	55	47-64	14	N.R.	1989	1989 41252101	A. Roybal	ABL C
72-1	Carp	Cyprinus carpio	0.6 g	S	95	96 hr	LC50	6590	4920-88200	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-3	Longnose killifish	Fundulus similis	Juv	F	95	48 hr	LC50	150	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-1	Black bullhead	Ictalurus melas	1.2 g	S	95	96 hr	LC50	11700	9600-14100	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Channel catfish	Ictalurus punctatus	1.5 g	S	95	96 hr	LC50	7620	5820-99700	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-3	Spot	Leiostomus xanthurus	Juv	F	95	48 hr	LC50	320	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-1	Green sunfish	Lepomis cyanellus	.8 g	S	95	96 hr	LC50	1460	900-2340	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Bluegill sunfish	Lepomis macrochirus	0.4 g	S	95	96 hr	LC50	20	16-25	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Redear sunfish	Lepomis microlophus	3.2g	S	95	96 hr	LC50	62	58-67	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Largemouth bass	Micropterus salmoides	1.4 g	S	95	96 hr	LC50	250	220-310	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-3	Striped bass	Morone saxatilis	0.93g	S	25	96 hr	LC50	60	N.R.	N.R.	N.R.	1971	1987 156311	L.A. Lyon	REF S
72-3	Striped mullet	Mugil cephalus	Juv	F	95	48 hr	LC50	330	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA S
72-1	Cutthroat trout	Oncorhynchus clarkii	.3 g	S	95	96 hr	LC50	1740	112-269	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C

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GUIDE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST TYPE	%AI	STUDY TIME	DOSE	TOXICITY	TOX LEVEL	95% CL	NOEL/ NOEC	SLOPE	STUDY REV DATE	MRID/ DATE ACC	REVIEWER(S)	LAB CA GOR
LINE			STAGE													
***Malathion Shaughnessey Number: 057701																
72-1	Coho salmon	Oncorhynchus kisutch	1.0 g	S	95	96 hr	LC50	170	PPB	150-180	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Rainbow trout	Oncorhynchus mykiss	1.0g	S	95	96 hr	LC50	4	PPB	2-7	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-4a	Rainbow trout	Oncorhynchus mykiss	Early	F	94	97day	LOEC	44	PPB	N.R.	2	N.R.	1989	1990 41422401	H. Craven (KBN)	ABL C
72-1	Yellow perch	Perca flavescens	1.4 g	S	95	96 h	LC50	263	PPB	205-338	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Fathead minnow	Pimephales promelas	.9g	S	95	96 hr	LC50	8650	PPB	6450-11500	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Brown trout	Salmo trutta	1.1 g	S	95	96 hr	LC50	101	PPB	84-115	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Lake trout	Salvelinus namaycush	1.1g	S	95	96 hr	LC50	76	PPB	47-123	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-1	Walleye	Stizostedion vitreum v.	1.3 g	S	95	96 hr	LC50	64	PPB	59-70	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-1	Tilapia	Tilapia mossambica	0.85 g	S	95	96 hr	LC50	2000	PPB	N.R.	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
141-1	Honey bee	Apis mellifera	Adult	C	Tech	96 hr	LD50	0.709	UGB	N.R.	N.R.	8.04	1987	1979 0001999	A. Vaughan	UCR C
141-1	Honey bee	Apis mellifera	Adult	C	Tech	N.R.	LD50	0.27	UGB	0.22-0.29	N.R.	N.R.	1988	1980 05004151	A. Vaughan	REF C
141-2	Honey bee	Apis mellifera	worker	FO	57EC	8 hr	LD50	< 1.6	LBA	N.A.	< 1.6	N.A.	1989	1989 41208001	A. Vaughan	MLI C
141-1	Honey bee	Apis mellifera	Adult	O	Tech	48 hr	LD50	0.38	UGB	N.R.	N.R.	N.R.	1988	1980 05004003	A. Vaughan	REF C
141-1	Honey bee	Apis mellifera	Adult	C	Tech	48 hr	LD50	0.20	UGB	N.R.	N.R.	N.R.	1978	NR 05001391	A. Vaughan	REF C
72-2a	Snipefly	Atherix variegata	Late I	S	95	96 hr	LC50	385.0	PPB	246-602	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-2a	Stonefly	Claassenia sabulosa	YC-2	S	95	96 hr	LC50	2.8	PPB	1.4-4.3	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-2a	Caddisfly	Hydropsyche sp.	Juv	S	95	96 hr	LC50	5.0	PPB	2.9-8.6	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-2a	Stonefly	Isoperla sp.	Naiad	S	95	96 hr	LC50	0.69	PPB	0.2-2.4	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-2a	Damselfly	Lestes congener	Juv	S	95	96 hr	LC50	10	PPB	6.5-15.0	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-2a	Caddisfly	Limnephilus sp.	Late I	S	95	96 hr	LC50	1.3	PPB	0.77-2.0	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS S
72-2a	Stonefly	Pteronarcella badia	YC-2	S	95	96 hr	LC50	1.1	PPB	0.78-1.5	N.R.	N.R.	1986	1986 40098001	Mayer & Ellersieck	FWS C
72-3b	Eastern oyster	Crassostrea virginica	Juv	F	95	96 hr	EC50	> 1000	PPB	N.R.	N.R.	N.R.	1986	1986 40228401	F.L. Mayer	EPA C
72-3b	Eastern oyster	Crassostrea virginica	Juv	F	57E	96 hr	EC50	3120	PPB	N.R.	260	1.09	1990	1990 6153061B	Nimish Vyas	ESE S
72-3e	Eastern oyster	Crassostrea virginica	SPAT	F	60.3	96 hr	EC50	2900	PPB	1300-4800	1360	N.R.	1992	1995 42249901	J. Edwards	ESE C

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71-1	Mallard duck	Anas platyrhynchos	14WKS	O	Tech	14 D	LD50	> 19.8	MGK	N.A.	N.R.	N.A.	1979	1988 00088885	D. Johnson	HRC S
71-1	California quail	Callipepla californica	5-6WOS	O	100	14 D	LD50	> 2000	MGK	N.A.	N.R.	N.A.	1984	1984 00160000	Hudson, R.H. et al	FWS S
71-1	Ring-necked pheasant	Phasianus colchicus	14WKS	O	Tech	14 D	LD50	> 187	MGK	N.A.	N.R.	N.A.	1979	1988 00088885	D. Johnson	HRC S
72-2	Water flea	Daphnia magna	<24 hr	F	93	96 hr	EC50	0.40	PPB	0.33-0.47	< 0.23	5.2	1991	1996 43752202	T. Bailey	TES IN
72-4	Water flea	Daphnia magna	LifCyc	F	86.85	21 D	LOEC	0.062	PPB	N.A.	< 0.062	N.A.	1992	1992 42052501	Tracy Perry	SEI IN
72-2	Water flea	Daphnia magna	<24 hr	S	90	48 hr	EC50	3.1	PPB	2.4-3.9	0.41	3.26	1978	1989 40991210	C. Houseknecht	B.O 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			STAGE	TYPE		TIME	TYPE		LEVEL				DATE	ACC		GOR
***Resmethrin Shaughnessy Number: 097801																
72-2	Water flea	Daphnia magna	<24 hr	S	40	48 hr	EC50	110	PPB	N.R.	18	7.83	1984	1990 41153302	D. Balluff	ABL C
72-3	Pink shrimp	Penaeus duorarum	1.54 g	S	40	96 hr	LC50	1.2	PPB	0.79-1.6	< 0.78	4.9	1985	1995 40991214	T. Bailey	SBI S
72-3	Pink shrimp	Penaeus duorarum	Adult	S	90	96 hr	LC50	1.3	PPB	1.0-1.9	0.5	5.81	1983	1989 40991217	C. Houseknecht	SBI C
72-1	White sucker	Catostomus commersoni	0.7 g	F	84	96 hr	LC50	3.25	PPB	2.61-4.05	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	White sucker	Catostomus commersoni	Finglg	F	84	96 hr	EC25	2.33	PPB	2.04-2.67	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-3	Sheepshead minnow	Cyprinodon variegatus	9 mg	S	96	96 hr	LC50	11	PPB	6.25-25.00	N.R.	N.R.	1983	1989 40991218	C. Houseknecht	SBI C
72-1	Carp	Cyprinus carpio	4.8 cm	S	88	96 hr	LC50	3.95	PPB	3.34-4.68	3.0	4.47	1984	1989 40991203	C. Houseknecht	NFR S
72-1	Northern pike	Esox lucius	Finglg	F	84	96 hr	LC50	1.05	PPB	0.87-1.26	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Channel catfish	Ictalurus punctatus	0.7 g	S	84	96 hr	LC50	16.6	PPB	9.6-28.6	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Channel catfish	Ictalurus punctatus	Finglg	F	84	96 hr	LC50	3.2	PPB	2.54-4.03	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Green sunfish	Lepomis cyanellus	4.3 cm	S	88	96 hr	LC50	4.55	PPB	3.25-6.36	N.R.	N.R.	1984	1989 40991203	C. Houseknecht	NFR C
72-1	Bluegill sunfish	Lepomis macrochirus	0.6 g	S	84	96 hr	LC50	1.7	PPB	0.31-9.3	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Bluegill sunfish	Lepomis macrochirus	1.0 g	F	84	96 hr	LC50	0.75	PPB	0.63-0.9	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Bluegill sunfish	Lepomis macrochirus	Finglg	F	84	96 hr	LC50	2.62	PPB	2.14-3.19	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1b	Bluegill sunfish	Lepomis macrochirus	0.23 g	S	40	96 hr	LC50	8.0	PPB	5.6-10	5.6	N.R.	1984	1990 40991201	D. Balluff	ABL S
72-1	Largemouth bass	Micropterus salmoides	Finglg	F	84	96 hr	LC50	0.66	PPB	0.55-0.78	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Coho salmon	Oncorhynchus kisutch	0.5 g	S	84	96 hr	LC50	1.77	PPB	0.55-5.77	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Coho salmon	Oncorhynchus kisutch	Finglg	F	84	24 hr	LC50	0.76	PPB	0.64-0.92	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS S
72-1	Rainbow trout	Oncorhynchus mykiss	1.4 g	S	84	96 hr	LC50	1.8	PPB	0.95-3.49	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Rainbow trout	Oncorhynchus mykiss	2.5 g	F	84	96 hr	LC50	0.45	PPB	0.33-0.61	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Rainbow trout	Oncorhynchus mykiss	0.2 g	S	84	96 hr	LC50	0.28	PPB	0.24-0.32	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1c	Rainbow trout	Oncorhynchus mykiss	2.63 g	F	93	96 hr	LC50	0.82	PPB	0.73-0.93	0.25	12.1	1991	1996 43752201	T. Bailey	TES C
72-1c	Rainbow trout	Oncorhynchus mykiss	4.8 cm	S	88	96 hr	LC50	3.14	PPB	2.76-3.58	2.0	N.R.	1984	1989 40991203	C. Houseknecht	NFR C
72-4a	Rainbow trout	Oncorhynchus mykiss	EarlyLf	F	90	52 D	LOEC	0.59	PPB	N.A.	0.32	N.A.	1985	1989 40991223	C. Houseknecht	SBI S
72-1d	Rainbow trout	Oncorhynchus mykiss	1.1 g	S	40	96 hr	LC50	5.6	PPB	3.2-10	3.2	N.R.	1984	1990 40991202	D. Balluff	ABL C
72-11	Yellow perch	Perca flavescens	Finglg	F	84	96 hr	LC50	0.51	PPB	0.44-0.6	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Yellow perch	Perca flavescens	6.6 cm	S	88	96 hr	LC50	2.36	PPB	1.96-2.84	1.00	8.28	1984	1989 40991203	C. Houseknecht	NFR S
72-1	Fathead minnow	Pimephales promelas	0.4 g	S	84	96 hr	LC50	6.6	PPB	5.22-8.35	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Fathead minnow	Pimephales promelas	0.70g	S	84	96 hr	LC50	2.96	PPB	0.89-9.89	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Fathead minnow	Pimephales promelas	0.8 g	F	84	96 hr	LC50	2.7	PPB	2.09-3.48	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-4a	Fathead minnow	Pimephales promelas	EarlyLf	F	90	30 D	LOEC	0.59	PPB	N.A.	0.3	N.A.	1985	1989 40991212	C. Houseknecht	SBI S
72-1	Brown trout	Salmo trutta	Finglg	F	84	96 hr	LC50	0.75	PPB	0.61-0.92	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS S
72-1	Lake trout	Salvelinus namaycush	0.7 g	S	84	96 hr	LC50	1.68	PPB	1.14-2.48	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C
72-1	Lake trout	Salvelinus namaycush	Finglg	F	84	96 hr	LC50	0.74	PPB	0.58-0.94	N.R.	N.R.	1986	1986 40098001	Mayer & Eilersieck	FWS C

06/11/98

GUIDE	COMMON NAME	SCIENTIFIC NAME	AGE/SIZE	TEST %AI	STUDY DOSE TOXICITY	TOX	95% CL	NOEL/ NOEC	SLOPE	STUDY REV MRID/ DATE	REVIEWER(S)	LAB CA
LINE			STAGE	TYPE	TIME TYPE	LEVEL				DATE		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	2120-139,000	N.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	7590-67000	N.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	0.038-0.094	N.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.		N.R.	1987	1987 40161135	R. Lee	ICI C

Tox One-Liner Report

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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>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>
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 & Ellersieck 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 & Ellersieck 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 & Ellersieck 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 & Ellersieck 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 & Ellersieck 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 & Ellersieck 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 & Ellersieck S	C
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 & Ellersieck 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 & Ellersieck 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 & Ellersieck 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 & Ellersieck 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 & Ellersieck 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 & Ellersieck 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 & Ellersieck C	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	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	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	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	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	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	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	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	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	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. 1966	REF Cope S	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	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	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	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	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	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	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	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	C

<u>CHEMICAL</u>	<u>SHAUGHNESS</u>	<u>CAS-NO</u>	<u>USEPATTERN</u>										
Pyrethrin	069001	8003-34-7	Insecticide										
<u>COMMONNAME</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	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	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	1.7 g	57.4	F	96 hr	LC50 5.1	PPB	3.1- Infiniti	3.1	N.A.	43082303	1994 1994	SBI C. Laird	C
Water flea	ErlyLf	57.4	F	21 D	LOEC 2.0	PPB	N.A.	0.86	N.A.	43252702	1994 1995	SBI K. Valente	C
Pathead minnow	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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<u>CHEMICAL</u>	<u>SHAUGHNESS</u>	<u>CAS-NO</u>	<u>USE/PATTERN</u>											
Pyrethrin/Piperonyl butoxide	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>
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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