

APPENDIX G

Summary of Ecological Incidents Linked to Malathion

Incident Report for Malathion from the Ecological Incident Information System (EIIS)

August 26, 2010

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
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AQUATIC

Agricultural area

I005754-017		RIVERSIDE	CA	1	MA	N/R	Spill	13000
B0000-225	5/17/1973	WAKE	NC	4	MA		SPILL	1000
B0000-218-05	8/2/1975	SUTTER	CA	3	MA		Spray	10000
I002059-002	11/4/1994	CHEROKEE	AL	3	RU	ULV	N/R	Unknown
I002059-001	11/4/1994	CHEROKEE	AL	4	RU	ULV	N/R	30

Cotton

B0000-500-32	9/5/1988		GA	3	UN		N/R	Unknown
B0000-500-16	7/23/1989	BROOKS	GA	2	RU		Spray	Unknown
B0000-500-14	10/6/1989	BROOKS	GA	3	RU	F	Spray	Unknown
B0000-500-29	8/30/1990	BROOKS	GA	3	UN		Spray	Unknown
B0000-600-01	8/8/1998	HAYWOOD	TN	2	RU	N/R	Spray	Many
B0000-503-52	8/11/1998	HOLMES	MS	2	RU	N/R	Spray	Unknown
B0000-600-03	8/13/1998	FAYETTE	TN	1	RU	N/R	Spray	Unknown
B0000-600-04	8/31/1998	HAYWOOD	TN	2	RU	N/R	Spray	16

N/R

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I000636-002	5/5/1970	LINCOLN	MO	2	MI		N/R	Thousands
B0000-300-86	4/14/1973	HORRY	SC	2	UN		N/R	300
B0000-300-27	8/28/1978	BEAUFORT	SC	2	UN		N/R	Unknown
B0000-502-05	4/14/1979	HORRY	SC	3	UN	N/R	N/R	300
B0000-300-30	6/25/1981	BEAUFORT	SC	2	UN		N/R	1500
B0000-300-33	9/22/1982	BEAUFORT	SC	3	UN		N/R	Unknown
B0000-502-14	9/15/1985	BEAUFORT	SC	2	UN	N/R	N/R	1000
I009790-001	9/24/1999	RICHMOND	NY	4	UN	N/R	N/R	1500
<i>Wide area</i>								
I018937-001		Sublette	WY	2	MA		Spray	300
B0000-502-22	8/25/1976	Queen Annes	MD	3	UN	N/R	Spray	Thousands
B0000-502-04	8/12/1977	Charleston	SC	4	RU		Spray	200
B0000-502-25	7/31/1979	HOWARD	MD	4	UN	N/R	N/R	206
B0000-502-26	5/12/1980	Prince Georges	MD	3	RU	N/R	N/R	350
B0000-502-08	5/26/1981	Beaufort	SC	3	UN	N/R	N/R	11
B0000-502-13	8/11/1984	BEAUFORT	SC	2	UN	N/R	Spray	300
I000804-025	7/6/1987	Minnehaha	SD	3	UN	EC	Spray	Thousands

PLANTS

Agricultural area

I017893-021	5/5/2006	Shasta	CA	1	MA		Spray	\$ 49,999 damage
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Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I017719-001	7/12/2006	Shasta	CA	2	MA		Spray	126 acres
N/R								
B0000-500-12	10/15/1987	BERRIEN	GA	2	UN		UNKNOWN	Unknown
Ornamental, woody								
I009262-112	8/2/1999	DEL NORTE	CA	2	UN	F	Spray	35
TERRESTRIAL								
Agricultural area								
I013883-036	6/21/1997	Benton	WA	4	RU			137 hives
Alfalfa								
I000130-001	1/1/1985		OR	3	RU	ULV	SPRAY	Unknown
Cherry								
I014341-043	5/28/2000	Klickitat	WA	4	UN	ULV		56 hives
I014341-044	6/23/2000	Franklin	WA	4	UN		Spray	unknown
I020627-030	6/29/2001	Benton	WA	3	UN			13 bee hives
Cotton								
B0000-600-02	6/17/1998	PANOLA	MS	4	RU	N/R	Spray	Unknown
Industrial site								
I021178-001	7/26/2007		ON	2	MA		Spill	
N/R								
R000-03-002	6/2/1983	CALHOUN	MI	2	UN		N/R	10

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I014409-052	6/18/1992	Yakima	WA	2	UN			Unknown
I017087-001	12/18/2005	Chatham	GA	3	UN			47
<i>Wide area</i>								
I005754-011		Santa Clara	CA	2	RU	EC	N/R	17

TERRESTRIAL/AQUATIC

N/R

I014123-006	5/3/2003	Craven	NC	2	MA		Spill	Approx. 2,000 fish
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Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
AQUATIC					
<i>Agricultural Area</i>					
B0000-218-05	crappie	Centrarchidae	thousands	mortality	Drift
	shad	Clupeidae	hundreds	mortality	Drift
B0000-225	unknown fish		10000	mortality	Spill
I002059-001	largemouth bass	Micropterus salmoides	some out of 30 dead	mortality	Runoff
I002059-002	largemouth bass	Micropterus salmoides	n/r	mortality	Runoff
I005754-017	unknown fish		13000	mortality	Runoff
<i>Cotton</i>					
B0000-500-14	unknown fish		unknown	mortality	N/R
B0000-500-16	bream	Notemigonus crysoleucas	many	mortality	Drift
B0000-500-29	n/r		unknown	mortality	Drift

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
B0000-500-32	american alligator	A. mississippiensis	1	mortality	Runoff
	unknown fish		unknown	mortality	Runoff
B0000-503-52	catfish	Ictaluridae	15	mortality	Drift
B0000-600-01	bream	Notemigonus crysoleucas	hundreds	mortality	Drift
	sunfish	Centrarchidae	hundreds	mortality	Drift
B0000-600-03	bass	Micropterus spp.	unknown	mortality	Drift
	bream	Notemigonus crysoleucas	unknown	mortality	Drift
	crappie	Centrarchidae	unknown	mortality	Drift
B0000-600-04	catfish	Ictaluridae	16	mortality	Drift
N/R					
B0000-300-27	unknown fish		unknown	mortality	
B0000-300-30	blue crab	Callinectes sapidus	500	mortality	Ingestion
	eel	Anguilliformes	500	mortality	Ingestion
	shad	Clupeidae	500	mortality	Ingestion
B0000-300-33	drum	Aplodinotus grunniens	n/r	mortality	Ingestion
	mullet	Mugilidae	n/r	mortality	Ingestion
	spot		n/r	mortality	Ingestion
	trout	Salmonidae	n/r	mortality	Ingestion

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
B0000-300-86	unknown fish		300	mortality	Ingestion
B0000-502-05	bass	Micropterus spp.	100	mortality	Runoff
	bream	Notemigonus crysoleucas	100	mortality	Runoff
	crappie	Centrarchidae	100	mortality	Runoff
B0000-502-14	unknown fish		1000	mortality	N/R
I000636-002	unknown fish		thousands	mortality	Spill
I009790-001	bluegill	Lepomis macrochirus	14	mortality	Drift
	unknown fish		1500	mortality	Treated directly
<i>Wide area</i>					
B0000-502-04	pompano	Trachinotus sp.	200	mortality	Drift
B0000-502-08	bream	Notemigonus crysoleucas	11	mortality	N/R
B0000-502-13	bream	Notemigonus crysoleucas	100	mortality	N/R
	croaker	Seiaenidae sp.	100	mortality	N/R
	spot tail bass		100	mortality	N/R
B0000-502-22	menhaden	Brevoortia sp.	thousands	mortality	Drift
B0000-502-25	american eel	Anguilla rostrata	unknown	mortality	Drift

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
B0000-502-26	crayfish	Decapoda	unknown	mortality	Drift
	golden shiner	Notemigonus crysoleucas	unknown	mortality	Drift
	green sunfish	Lepomis cyanellus	unknown	mortality	Drift
	largemouth bass	Micropterus salmoides	unknown	mortality	Drift
	minnow	Cyprinidae	unknown	mortality	Drift
	pumpkinseed	Lepomis gibbosus	unknown	mortality	Drift
	redfin pickerel	Esox americanus	unknown	mortality	Drift
	warmouth	Lepomis gulosus	unknown	mortality	Drift
	bluegill	Lepomis macrochirus	35	mortality	Runoff
	carp	Cyprinus carpio	100	mortality	Runoff
	golden shiner	Notemigonus crysoleucas	200	mortality	Runoff
	goldfish	Carassius auratus	15	mortality	Runoff
	walleye	Sander vitreus	thousands	mortality	Drift
	yellow perch	Perca flavescens	thousands	mortality	Drift
	rainbow trout	Onchorhynchus mykiss	some of 300	mortality	Flowing water
	whitefish	Coregonus sp.	some of 300	mortality	Flowing water

PLANTS

Agricultural area

I017719-001	wild rice	Zizania aquatica	126 acres	plant damage	Treated directly
I017893-021	alfalfa	Medicago sativa	\$ 49,999	plant damage	Drift, spray

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
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N/R

B0000-500-12

pecan

unknown

defoliation

Drift

Ornamental, woody

I009262-112

rose

Rosa

35 to 40

browning

TERRESTRIAL

Agricultural area

I013883-036

bee

Apidae

137 hives

mortality

N/R

Alfalfa

I000130-001

bee

Apidae

unknown

mortality

Drift

Cherry

I014341-043

honey bee

Apis mellifera

56 hives

mortality

Drift, spray

I014341-044

leafcutter bee

Megachile sp.

unknown

mortality

Drift, spray

I020627-030

bee

Apidae

13 hives

mortality

N/R

Cotton

B0000-600-02

bee

Apidae

unknown

mortality

Drift

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
<i>Industrial site</i>					
I021178-001	unknown fish		5000	mortality	Flowing water
<i>N/R</i>					
I014409-052	bee	Apidae	not given	mortality	N/R
I017087-001	boat-tailed grackle	Cassidix mexicanus	47	mortality	Ingestion
R000-03-002	gray fox squirrel	Sciurus carolinensis	10	mortality	Ingestion
<i>Wide area</i>					
I005754-011	western sandpiper	Calidris mauri	17	mortality	N/R

TERRESTRIAL/AQUATIC

N/R

I014123-006	bowfin	Amia calva	unknown	mortality	Treated directly
	carp	Cyprinus carpio	unknown	mortality	Treated directly
	catfish	Ictaluridae	unknown	mortality	Treated directly
	crappie	Centrarchidae	unknown	mortality	Treated directly
	largemouth bass	Micropterus salmoides	unknown	mortality	Treated directly
	sunfish	Centrarchidae	unknown	mortality	Treated directly
	turtle	Testudines	unknown	mortality	Treated directly
	unknown fish		approx. 2,000	mortality	Treated directly

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
	unknown snake		unkown	mortality	Treated directly