

Appendix J. List of Incidents involving Chlorpyrifos

Incidents of organism mortality (fish kills) in the environment that are attributed, at least in part, to chlorpyrifos. **Sections J.1** and **J.2** list incident information from a query of the EHS Pesticide Database on August 31, 2009. **Section J.1** contains general information about each incident and **Section J.2** species information. **Section J.3** contains summary tables of incidents involving bird kills attributed, at least in part, to chlorpyrifos. The information in **Section J.3** was obtained from the AIMS Database of the American Bird Conservancy on August 31, 2009.

J.1. EIIS Pesticide Summary Report: General Information

Chlorpyrifos (059101)

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
AQUATIC								
<i>Agricultural Area</i>								
I000799-004	4/29/1991	ONSLOW	NC	3	M	N/R	SPRAY	>200
I000758-001	10/1/1993	N/R		4	RU		SOIL INCORP/SURF.AP	5
I004830-001	2/1/1997			4	MA		Broadcast	UNKNOWN
I003795-001	7/1/1997			4	MA		Broadcast	UNKNOWN
I008481-001	3/31/1999			2	UN		N/R	THOUSANDS
I011884-001	7/12/2001			3	MA	N/R	SPILL	UNKNOWN
<i>Berry, strawberry</i>								
I012048-008	8/21/2001			3	MA	N/R	N/R	UNKNOWN
BUILDING								
I000944-001	3/1/1994	N/R		3	MA	F	Broadcast, unincorporated	12
I000946-001	3/1/1994			3	MA	F	SURFACE SPRAY	10
I001849-001	3/14/1994	CADD0	LA	4	MA	EC	Spill	N/R
I004512-001	3/21/1994	CRAWFORD	MO	4	UN			UNKNOWN
I001849-004	4/19/1994	EAST BATON	LA	4	RU	N/R	Soil incorporation	800

Monday, August 31, 2009

Certainty Code: 0=Unrelated, 1=Unlikely, 2=Possible, 3=Probable, 4=Highly Probable.

Legality Code: RU=Registered Use, M=Misuse, MA=Misuse (Accidental), MI=Misuse (Intentional), U=Unknown.

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Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I001108-001	6/1/1994			2	UN	N/R	N/R	28000
I001644-001	12/6/1994			4	MA	EC	Soil incorporation	UNKNOWN
I002217-002	6/1/1995		OH	3	RU	F	N/R	N/R
I002560-001	8/1/1995		FL	3	MA	F	N/R	1175
I003885-001	6/12/1996		AR	4	UN		Spray	N/R
I006108-001	10/4/1997		AL	4	MA	N/R	UNKNOWN	THOUSANDS
I008876-001	5/19/1999	COPIAH	MS	3	RU	N/R	Soil incorporation	THOUSANDS
I013603-003	10/4/2002	Monroe	IN	3	RU			70
<i>Citrus</i>								
I000087-001	7/1/1992		CA	4	M	N/R	SPRAY	UNKNOWN
<i>COMMERCIAL SITE</i>								
I002975-001	1/1/1995		AR	4	MA		SPILL	23243
<i>Construction site</i>								
I000387-001	2/28/1992	HANCOCK	MS	3	RU	N/R	SPRAY	242
<i>Corn</i>								
I000108-001	6/16/1992	SEMINOLE	GA	2	UN	EC	Spray	125
I020252-001	8/7/2008	Louisa	IA	3	UN			15,300
<i>Cotton</i>								
B0000-500-32	9/5/1988		GA	3	RU		Broadcast	Unknown
I000383-002	7/1/1989	Holmes	MS	3	UN		N/R	Extensive Fish Kill

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
<i>Cranberries</i>								
I013530-001	7/14/2001	Plymouth	MA	2	UN	N/R		More than 1000
<i>Cranberry</i>								
I007313-002	7/10/1995	PLYMOUTH	MA	3	RU	N/R	SPRAYING	1000
<i>CREEK</i>								
I003601-002	8/4/1993	NEW CASTLE	DE	4	MI	EC	DRAINING SPRAY TANK	4068
<i>DUMPED INTO DRAIN</i>								
I008956-003	1/1/1994		IA	3	MI	N/R	DUMPING	UNKNOWN
I008956-004	1/1/1994		IA	3	MI	N/R	DUMPING	UNKNOWN
<i>FIELD</i>								
I001305-001	2/1/1994			3	MA	F	SEEPAGE	SIG. #
<i>Golf green</i>								
I000233-001	10/1/1992			3	UN	WDG	N/R	400
<i>Home</i>								
I007070-001			IN	4	MI	EC	Soil incorporation	50
I007072-001			AL	4	MA	N/R	Soil incorporation	300
I000116-004	5/20/1990	NEW CASTLE	DE	4	RU	N/R	N/R	3700
I000311-001	12/1/1992		IN	3	MA	N/R	Broadcast, unincorporated	200
I000470-001	5/1/1993		WV	4	M	SC	GROUND-RODDING	UNKNOWN

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I000636-031	7/21/1993	LINCOLN	MO	4	RU	F	N/R	428
I000642-001	8/17/1993			4	MA	F	SUBSLAB INJECTION	100
I000947-001	3/1/1994			3	MA	F	N/R	200
I002108-001	4/1/1995		KY	3	MA	F	Broadcast, unincorporated	N/R
I002217-001	6/1/1995		OH	3	RU	F	N/R	N/R
<i>Home, exterior</i>								
I007098-001			AL	4	MA	N/R	Soil incorporation	500
I000671-001				3	UN	SC	"rodding"	Unknown
I003721-001			CA	4	MA	EC	Soil incorporation	4
I000911-001	2/11/1992	LAFAYETTE	LA	4	RU		N/R	250
I000010-001	5/1/1992			4	UN	N/R	UNK	UNKNOWN
I000149-001	7/28/1992	ST TAMMANY	LA	4	M	SC	N/R	N/R
I000148-001	8/1/1992	BUNCOMBE	NC	3	RU	SC	INJECTION	500
I000152-001	8/1/1992	PRINCE WILLIAM	VA	4	M		GROUND- RODDING	SMALL
I000187-001	9/1/1992			4	UN	SC	N/R	500
I000125-001	10/1/1992			4	RU	SC	N/R	30
I000950-001	3/1/1994			3	RU	EC	N/R	4
I001849-005	5/20/1994	CADD0	LA	4	RU	EC	N/R	300
I001107-001	7/1/1994			3	RU	N/R	N/R	UNKNOWN

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I001304-001	10/1/1994			3	RU		UNKNOWN	UNKNOWN
I004374-001	5/5/1995	FRANKLIN	MO	4	UN			500
I002326-001	6/1/1995		IN	4	MA	F	N/R	225
I003600-001	6/10/1995	NOBLE	IN	4	UN			300
I003436-001	5/1/1996		MO	4	UN		N/R	3
I003509-001	5/1/1996		KY	4	RU			THOUSANDS
I003744-001	7/1/1996		IL	4	MA			HUNDREDS
I007373-003	6/25/1997	TUSCALOOSA	AL	4	RU		Soil incorporation	297
I005809-001	8/1/1997		WV	4	RU	N/R	N/R	ALL
I005707-001	8/1/1997		KY	4	UN		N/R	UNKNOWN
I007373-002	8/4/1997	JEFFERSON	AL	3	UN		N/R	ALL
I017025-001	12/1/1997	Washington	PA	4	RU		Injection	Thousands
I006452-001	1/1/1998		PA	3	RU	N/R	N/R	2
I007074-001	5/21/1998		FL	4	RU	N/R	Soil incorporated	50
I007747-001	7/14/1998	SHELBY	IN	4	MA			2500
I007868-001	9/18/1998	PUTNAM	WV	3	RU		N/R	500
I008005-001	10/8/1998	MONTGOMERY	OH	4	RU		N/R	UNKNOWN
I009932-001	12/9/1999	ST LOUIS	MO	3	RU	WDG	Broadcast	66
I010287-012	4/26/2000	RIVERSIDE	CA	4	MA	N/R	N/R	30-100
I013302-001	7/14/2002	Morgan	AL	3	RU			40 gallons of fish

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I015212-001	5/8/2004	Medina	OH	3	UN	EC		50
<i>Home/lawn</i>								
I000644-001	8/17/1993			4	RU	F	DRAINAGE TILES	30
I007984-001	6/9/1995	NOBLE	IN	4	MA		DRAINAGE TILES	HUNDREDS
<i>Home/tree</i>								
I009031-001	7/7/1999	CUYAHOGA	OH	4	RU	F	Spray	82
<i>LAKE</i>								
I000636-009	6/4/1991	ST CHARLES	MO	4	MA	F	SPILL	100
I006881-001	4/3/1998	PULASKI	AR	4	UN	N/R	N/R	LARGE KILL - NNSPD.
<i>Municipal operation</i>								
I002370-001	5/1/1995	TARRANT	TX	3	UN	F	UNKNOWN	THOUSANDS
I009966-001	8/13/1997	HAMILTON	TN	4	MA	N/R	Spill	3000
<i>N/R</i>								
I000454-004	6/8/1992	ST JOHN THE	LA	3	UN	N/R	N/R	N/R
I000171-001	6/19/1992	MERCER	NJ	3	UN	N/R	N/R	1000
I002976-001	1/1/1995		AR	4	UN		N/R	500
I002358-001	6/1/1995		IN	3	UN	F	SPILL	UNKNOWN
I002308-001	6/1/1995		TN	3	MA	F	Soil incorporation	139
I003862-001	8/9/1996		AZ	4	UN			UNKNOWN

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I007155-084	9/13/1996		GA	3	MA	F	Broadcast, unincorporated	UNKNOWN
I008657-002	12/18/1996	BERGEN	NJ	2	MI	N/R	DUMPING	SOME KILLED
I009235-001	6/27/1999		AR	4	MI	N/R	DUMPING INTO CREEK	1737
I010025-001	9/3/1999	APPOMATTOX	VA	2	RU	N/R	N/R	HUNDREDS
I009329-001	9/14/1999	JOHNSON	IN	4	UN	N/R	UNKNOWN	HEAVY-8 MI. LONG
I011444-009	4/22/2001	JEFFERSON	AL	3	UN	N/R	N/R	2000-4000
I013170-001	6/27/2002	MONTEREY	CA	1	UN			over 2,000
I013927-001	2/19/2003	IMPERIAL	CA	3	UN		Broadcast	400
I014322-001	3/17/2003	San Joaquin	CA	1	UN			10
I014884-022	10/14/2003	Kings	CA	2	UN			various species
<i>ORCHARD</i>								
I000364-001	2/1/1993			3	M	N/R	INJECTION	>135
I003826-020	9/7/1994	HENDERSON	NC	2	MA	N/R	Spray	UNKNOWN
<i>Ornamental, woody</i>								
I000468-001	6/6/1992	ALLEGHENY	PA	2	RU	WP	N/R	Unknown
I010525-001	7/1/2000	Crittenden	AR	3	UN	N/R	Spray	100 TO 150
<i>Peanut</i>								
I000799-001	7/29/1992	EDGECOMBE	NC	3	RU	EC	Spray	SEVERAL HUNDRED

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I000232-001	10/1/1992			4	RU	F	N/R	300
I000640-001	8/17/1993			4	RU	WDG	N/R	50
I007710-001	1/1/1998	GREENSVILLE	VA	2	RU	WDG	N/R	5 BUCKETS DEAD FISH
<i>Pre-treated slab</i>								
I000454-001	2/17/1992	LAFAYETTE	LA	3	RU	N/R	N/R	N/R
<i>Road</i>								
I008637-001	4/8/1999	SCOTT	KY	3	UN	N/R	N/R	N/R
<i>Soybean</i>								
I020252-001	8/7/2008	Louisa	IA	3	UN			15,300
<i>SPILL</i>								
I004376-002	4/14/1996	CHEROKEE	GA	4	MA			HUNDREDS
<i>Sub-slab</i>								
I013080-001	6/6/2002	Jefferson	AL	4	RU		Pressure	2000
<i>Turf, golf course</i>								
I000910-001	6/7/1992	St. John the Baptist	LA	3	RU	N/R	N/R	Unknown
I000221-001	8/3/1992	BEAUFORT	SC	1	RU	N/R	UNKNOWN	N/R
<i>Turf, residential</i>								
I007150-001			OH	4	RU	N/R	Broadcast, unincorporated	ALL
I007120-001			OH	4	RU	N/R	Broadcast, unincorporated	ALL

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
<i>Warehouse</i>								
I007373-001	10/4/1997	JEFFERSON	AL	4	MA			166000
<i>Wide area</i>								
I014349-001	6/9/2003	Highland	IN	2	RU	ULV		unknown
I019051-003	7/1/2007		IL	3	UN	ULV	Spray	< 17
<i>Yard</i>								
I002188-001	5/1/1995		MO	3	RU	F	Spray	1000
I002357-001	6/1/1995		CA	3	RU	F	Spray	10

PLANTS

<i>Agricultural Area</i>								
I007701-001	9/15/1996	PROWERS	CO	3	RU		AERIAL-BROADCAST	ALL
I007755-016	4/10/1998	MALHEUR	OR	2	RU		T-BAND	40 ACRES
<i>ALFALFA</i>								
I006194-002	1/1/1997		CA	3	RU		N/R	UNKNOWN
I006194-001	1/1/1997		WI	3	RU		N/R	UNKNOWN
I007357-001	1/1/1998		CA	3	RU		N/R	ALL
I010927-003	4/15/1999	GREEN	WI	2	RU	N/R	Spray	UNKNOWN
<i>Citrus, orange</i>								
I010927-002	3/1/1990		CA	2	RU	N/R	Spray	ALL
I013636-039	3/9/2001	KERN	CA	2	RU		Broadcast	200 acres

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I013636-037	4/4/2001	KERN	CA	2	RU		Broadcast	135.03 acres
I013636-034	2/26/2002	FRESNO	CA	2	RU		Broadcast	90 acres
I013636-035	2/26/2002	FRESNO	CA	2	RU		Broadcast	10 acres
I014702-051	3/1/2002	Tulare	CA	2	RU	EC	Broadcast	40 acres
I013636-036	3/15/2002	TULARE	CA	2	RU		Broadcast	21 out of 40 acres
<i>CORN</i>								
I006194-003	1/1/1997		AR	3	RU		N/R	UNKNOWN
I006189-003	1/1/1997		IA	3	RU		N/R	UNKNOWN
I006189-002	1/1/1997		IA	3	RU		N/R	UNKNOWN
I007755-015	4/20/1998	WABASHA	MN	2	RU		T-BAND	300 ACRES
I008078-001	5/3/1998	PLYMOUTH	IA	2	RU	N/R	GROUND/BROAD CAST	50 ACRES
I008078-002	5/10/1998	PLYMOUTH	IA	2	RU	N/R	GROUND/BROAD CAST	FIFTY ACRES
I009508-001	8/3/1999	GREENE	IA	3	RU	N/R	Broadcast	147 ACRES
I011117-012	5/1/2000	YUMA	CO	3	RU	N/R	Spray	144
I010927-001	5/5/2000	DUBUQUE	IA	2	RU	WDG	Soil incorporation	ALL
<i>Corn, field</i>								
I013636-025	4/23/2001	DYER	TN	2	RU		Broadcast	80 acres
I012366-027	5/20/2001	HUTCHINSON	SD	2	UN		Broadcast	140 acres
I013636-001	4/15/2002	PETTIS	MO	2	RU		Broadcast	72 out of 149 acres

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I013636-038	5/15/2002	MACOUPIN	IL	4	M		Broadcast	110 acres
I015748-031	6/8/2004	Tama	IA	3	MA		N/R	30 acres affected
<i>COTTON</i>								
I007740-001	4/1/1997	KERN	CA	2	RU		AERIAL BROADCAST	82 ACRES
I012366-025	4/5/2000	FRESNO	CA	2	UN		Broadcast	751 acres
<i>FIELD</i>								
I002413-001	7/1/1995		MI	2	RU	F	Broadcast	N/R
<i>N/R</i>								
I012366-073	4/9/2001	PIKE	IL	3	RU			20 acres
<i>ONION</i>								
I006194-005	1/1/1997		NY	3	RU		N/R	UNKNOWN
I006194-006	1/1/1997		NY	3	RU		N/R	UNKNOWN
I006194-004	1/1/1997		NY	3	RU		N/R	N/R
I014867-001	7/3/2003	Marion	OR	2	RU	EC		Unknown
<i>Oranges</i>								
I013563-010	6/6/2000	Tulare	CA	2	RU	N/R	N/R	9000 boxes
<i>Ornamental</i>								
I009262-104	8/9/1999	ST CLAIR	IL	3	UN	N/R	Spray	ALL
<i>Soybean</i>								
I015748-029	6/10/2004	Cumberland	NJ	1	UN	EC	N/R	103 acres affected

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
<i>Soybeans</i>								
I016538-001	7/20/2005	Tuscola	MI	1	RU	N/R	N/R	50 acres
<i>Sugar beet</i>								
I006189-001	1/1/1997		ND	3	RU		N/R	UNKNOWN
I016962-029	5/7/2005	Canyon	ID	3	MA	WDG		90 acres
<i>Tree farm/plantation</i>								
I012366-026	5/19/1998	WEXFORD	MI	3	UN		Broadcast	82 acres
<i>Wheat</i>								
I016828-003	11/14/2005	Blaine	OK	2	RU	EC	Spray	unknown
<i>Wide area</i>								
I016728-002	7/1/2005		IL	2	UN	ULV	Spray	Unknown
TERRESTRIAL								
<i>No Data</i>								
I018980-033	1/15/2000	Benton	OR	4	UN			22
I018980-023	1/26/2001	East Baton Rouge	LA	2	UN			600
<i>Agricultural Area</i>								
I005042-014	1/29/1994	BUTTE	CA	1	UN		N/R	1
I005042-001	12/17/1994	SAN JOAQUIN	CA	4	UN	N/R	N/R	1
I005042-015	12/23/1994	STANISLAUS	CA	2	UN		N/R	1
I003826-013	6/6/1995	HENDERSON	NC	3	UN		N/R	N/R

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I003826-014	6/21/1995	POLK	NC	3	UN		N/R	UNKNOWN
I005980-002	6/1/1997	MERCED	CA	3	RU	N/R	N/R	700
<i>Alfalfa</i>								
I016479-001	8/14/1999	Kern	CA	3	RU		Spray	Many bee hives
I016478-001	3/27/2000	Tulare	CA	3	RU		Spray	4 hives
I017850-008	3/17/2006	Noble	OK	1	MA			100
<i>Apple</i>								
I013883-001	4/4/1997	DOUGLAS	WA	4	RU		Spray	90 hives
<i>Bait</i>								
I012661-001	11/13/2001	ONONDAGA	NY	4	UN		Bait	1
<i>Bean</i>								
I014341-017	1/1/1998	Chelan	WA	2	UN			102 hives
<i>BUILDING</i>								
I000103-007	3/1/1990	TALIAFERRO	GA	4	UN	N/R	N/R	7
<i>carrot</i>								
I014409-058	7/27/1992	Adams	WA	2	RU			48 colonies
I014409-059	7/27/1992	Adams	WA	2	RU			72 colonies
<i>Carrot seed</i>								
I014409-063	7/31/1992	Adams	WA	2	RU			Approx. 55 colonies
<i>Corn</i>								

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I003152-001	1/1/1996		IL	3	RU	WDG	N/R	ALL
I020441-001	8/28/2008	Sacramento	CA	3	RU	EC		180 bee hives
<i>DUCK CLUB</i>								
I005417-009	10/26/1989	SOLANO	CA	4	RU			6
<i>FLEA COLLAR</i>								
I002993-009	9/28/1993	GRANT	WI	3	MA		N/R	18
<i>GOLF COURSE</i>								
I001884-001	3/3/1995	SANTA ROSA	FL	4	RU		N/R	1000
<i>GOLF DRIVING RANGE</i>								
I008779-002	2/6/1998	CADD0	LA	3	UN	WDG	Broadcast, unincorporated	UNKNOWN
<i>Home</i>								
I000504-024	3/4/1991	GWINNETT	GA	4	UN	N/R	N/R	16
I005158-001	4/1/1997			4	MA	F	Soil incorporation	2
<i>Home, exterior</i>								
I004430-001	1/1/1996		NC	3	RU	N/R	N/R	MANY
<i>HOME/LAWN</i>								
I006916-001			LA	3	RU		N/R	UNKNOWN
I003131-002	5/24/1985	ALBANY	NY	4	RU			UNKNOWN
I003131-003	4/14/1986	Monroe	NY	4	RU		N/R	2
I003131-006	8/2/1989	ALBANY	NY	4	RU		Spray	2

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I003184-001	3/4/1991	VIRGINIA BEACH	VA	4	MI		N/R	43
I002074-001	2/15/1995	CITRUS	FL	4	UN	N/R	N/R	60
I008454-001	1/13/1999	ALAMEDA	CA	2	UN		Spray	DOZENS
I010831-005	9/9/2000	DADE	FL	3	MA	N/R	Spray	5
<i>HOME/TREE</i>								
I000015-001	6/3/1992	MONTGOMERY	MD	2	RU		Spray	1
<i>N/R</i>								
I000103-015	9/15/1988	FLOYD	GA	3	UN	N/R	N/R	7
B0000-400-66	5/3/1990	ERIE	NY	2	UN		N/R	2
I000200-030	9/1/1991		MN	3	UN	N/R	N/R	SOME SNAKES,1 IGUANA
I000504-002	2/1/1993	SANTA ROSA	FL	4	UN	N/R	N/R	115
I003654-001	2/16/1993	YANCEY	NC	4	UN		N/R	UNKNOWN
I003351-001	12/17/1993	SAN JOAQUIN	CA	4	UN			1
I005042-006	1/2/1994	STANISLAUS	CA	4	UN		N/R	1
I005042-005	1/2/1994	STANISLAUS	CA	4	UN		N/R	1
I003351-010	1/2/1994	STANISLAUS	CA	3	UN			1
I005042-009	1/19/1994	STANISLAUS	CA	2	UN		N/R	1
I003351-012	1/27/1994	STANISLAUS	CA	3	UN			1
I005042-012	1/27/1994	STANISLAUS	CA	2	UN		N/R	1
I003351-018	1/29/1994	BUTTE	CA	3	UN			1

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I005042-013	1/30/1994	San Joaquin	CA	2	UN		N/R	1
I005042-010	2/3/1994	MERCED	CA	3	UN		N/R	1
I005042-003	2/6/1994	MERCED	CA	4	UN	N/R	N/R	1
I005042-011	2/7/1994	STANISLAUS	CA	1	UN		N/R	1
I003351-006	2/12/1994	STANISLAUS	CA	3	UN			1
I005042-002	2/12/1994	STANISLAUS	CA	3	UN	N/R	N/R	1
I005042-007	2/15/1994	MERCED	CA	2	UN		N/R	1
I014407-011	4/18/1994	Grant	WA	3	UN			
I014407-009	4/18/1994	Benton	WA	3	UN			228 colonies
I014407-015	4/25/1994	Grant	WA	3	UN			250 colonies
I014407-020	4/28/1994	Yakima	WA	3	UN			1000 colonies
I001815-001	12/6/1994	ESCAMBIA	FL	3	UN	N/R	N/R	800
I003826-012	6/13/1995	POLK	NC	2	UN	N/R	N/R	UNKNOWN
I003826-015	7/5/1995	HENDERSON	NC	2	MA	N/R	N/R	UNKNOWN
I005294-001	1/1/1996	STANISLAUS	CA	4	UN		N/R	1
I005293-001	1/20/1996	Tuolumne	CA	2	UN			1
I004993-005	1/20/1996	TUOLUMNE	CA	2	UN		N/R	1
I004993-013	8/9/1996	FRESNO	CA	3	UN		N/R	1
I005037-002	10/22/1996		NC	4	UN	N/R	N/R	7
I004934-001	2/24/1997	OKALOOSA	FL	4	UN		N/R	4

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I007107-006	7/19/1997	SANTA CRUZ	CA	4	UN	N/R	N/R	3
I006595-001	1/9/1998	CHARLESTON	SC	4	UN	N/R	N/R	1
I013884-005	4/18/1998	Chelan	WA	3	UN			> 100 hives
I008164-001	7/26/1998	ROSCOMMON	MI	4	UN	N/R	N/R	2
I010002-001	1/14/1999	CONTRA COSTA	CA	3	UN	N/R	N/R	13
I009337-001	10/22/1999	SUFFOLK	NY	2	UN	N/R	N/R	3
I014341-042	1/1/2000	Yakima	WA	2	UN			96 hives
I011532-001	1/10/2001	WESTCHESTER	NY	3	UN	N/R	N/R	2
I011300-002	1/13/2001	EFFINGHAM	GA	4	UN	N/R	N/R	10
I011131-001	1/22/2001	MORGAN	GA	3	UN	N/R	N/R	15
I011879-001	3/24/2001	ORANGE	NY	3	UN	N/R	N/R	1
I014889-001	1/8/2004	Pulaski	GA	3	UN			
<i>ORCHARD</i>								
I003654-018	8/17/1993	HENDERSON	NC	1	UN		Spray	UNKNOWN
I003826-010	6/7/1995	POLK	NC	2	RU	N/R	Spray	UNKNOWN
I003826-027	8/14/1995	HENDERSON	NC	1	RU		N/R	UNKNOWN
I007834-038	3/24/1998	KERN	CA	2	UN	N/R	N/R	\$98,700
<i>Orchard (unspecified)</i>								
I014407-018	4/26/1994	Yakima	WA	3	UN			76 colonies
I014341-006	1/1/1996	Benton	WA	2	UN			1256

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
I014341-008	1/1/1997	Douglas	WA	2	UN			20 hives
I013883-031	4/27/1997	Benton	WA	4	RU			84 bee hives
I013884-028	4/15/1998	Yakima	WA	2	RU			Not given
<i>PARK</i>								
I000097-007	2/20/1990	SAN JUAN		3	MI	N/R	N/R	40
B0000-502-82	2/23/1990			3	MI	N/R	Bait	40
<i>RESIDENTIAL</i>								
I002074-002	2/18/1995	CITRUS	FL	4	UN	N/R	N/R	1
I004701-001	11/1/1996	CHARLESTON	SC	4	RU	N/R	N/R	14
<i>RESIDENTIAL AREA</i>								
I002243-002	2/10/1995	HOUSTON	GA	4	UN	F	N/R	24
<i>TOWN</i>								
I005042-008	1/27/1994	STANISLAUS	CA	4	UN	N/R	N/R	1
<i>Turf</i>								
I013385-001	6/16/2001	BERGEN	NJ	2	RU			4
<i>Turf, golf course</i>								
I003131-001	5/30/1974	SUFFOLK	NY	3	UN		N/R	43
B000177-001	7/8/1992	Arlington	VA	2	UN	N/R	N/R	1
<i>Turf, public area</i>								
B0000-501-11	10/5/1983	HARTFORD	CT	2	UN		N/R	60
<i>Turf, residential</i>								

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
B0000-501-23	7/9/1974		NY	2	UN	N/R	N/R	12
B0000-400-21	1/1/1981		FL	3	UN		N/R	UNKNOWN
I003176-003	5/15/1991	PRINCE WILLIAM	VA	2	RU			23
I000724-001	9/22/1993	Glynn	GA	1	RU			4
<i>URBAN RESIDENTIAL</i>								
I004169-040	3/4/1991	VIRGINIA BEACH	VA	4	UN	N/R	N/R	43
<i>YARD</i>								
I002243-001	2/14/1995	RICHMOND	GA	4	RU	F	N/R	20
TERRESTRIAL/AQUATIC								
<i>BUILDING</i>								
I000962-001	3/1/1994			3	MA	F	Broadcast, unincorporated	N/R
<i>FIELD</i>								
I005604-001	7/1/1997		KS	3	MA	N/R	N/R	ALL
<i>Home</i>								
I000643-001	8/17/1993	N/R		4	RU	F	RODDING	UNDETERMINE D
<i>Home, exterior</i>								
I005607-001	7/1/1997		LA	4	MA	F	N/R	20
<i>N/R</i>								
I014123-006	5/3/2003	Craven	NC	2	MA		Spill	Approx. 2,000 fish

Incident #	Date	County	State	Certainty	Legal.	Formul.	Appl. Method	Total Magnitude
<i>RANCH FARM STREAM</i>								
I000103-016	10/9/1988	HIGHLANDS	FL	4	MA	N/R	SPILL	30655
<i>Soybean</i>								
I000403-001	8/11/1988	TAZEWELL	IL	3	RU	N/R	Broadcast	9242

J.2. EIIS Pesticide Summary Report: Species Information

Chlorpyrifos (059101)

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
AQUATIC					
<i>Agricultural Area</i>					
I000758-001	carp	Cyprinus carpio	1-5	mortality	Runoff
	catfish	Ictaluridae	1- 5	mortality	Runoff
I000799-004	bass	Micropterus spp.	n/r	mortality	Runoff
	bluegill	Lepomis macrochirus	n/r	mortality	Runoff
	unknown fish		n/r	mortality	Runoff
I003795-001	bluegill	Lepomis macrochirus	unknown	mortality	Treated directly
	channel catfish	Ictalurus punctatus	unknown	mortality	Treated directly
	smallmouth bass	Micropterus dolomieu	unknown	mortality	Treated directly
	trout	Salmonidae	unknown	mortality	Treated directly
I004830-001	trout	Salmonidae	unknown	mortality	Ingestion
I008481-001	unknown fish		thousands	mortality	Runoff
I011884-001	unknown fish		unknown	mortality	Runoff
	yabbies	Cherax destructor	unknown	mortality	Runoff

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
<i>Berry, strawberry</i>					
I012048-008	n/r		unknown	mortality	Runoff
	n/r		unknown	mortality	Runoff
<i>BUILDING</i>					
I000944-001	bass	Micropterus spp.	<12	mortality	SUMP PUMP
	bluegill	Lepomis macrochirus	<12	mortality	SUMP PUMP
I000946-001	catfish	Ictaluridae	10	mortality	Runoff
I001108-001	crayfish	Decapoda	28000	mortality	N/R
I001644-001	black bass	Micropterus salmoides	unknown	mortality	Runoff
	carp	Cyprinus carpio		mortality	Runoff
I001849-001	unknown fish		n/r	unknown	Spill
I001849-004	unknown fish		800	mortality	Runoff
I002217-002	unknown fish		n/r	mortality	Runoff
I002560-001	bass	Micropterus spp.	unknown	mortality	Spill
	bluegill	Lepomis macrochirus	unknown	mortality	Spill
	minnow	Cyprinidae	1000	mortality	Spill
	mudfish	Neochanna sp.	unknown	mortality	Spill

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I003885-001	sunfish	Centrarchidae	unknown	mortality	Spill
	unknown fish		unknown	mortality	Runoff
I004512-001	unknown fish		unknown	mortality	N/R
	unknown fish		unknown	mortality	N/R
I006108-001	bass	Micropterus spp.	thousands	mortality	Runoff
	bream	Notemigonus crysoleucas	thousands	mortality	Runoff
	catfish	Ictaluridae	thousands	mortality	Runoff
	crayfish	Decapoda	thousands	mortality	Runoff
I008876-001	bass	Micropterus spp.	a few	mortality	Ingestion
	bream	Notemigonus crysoleucas	thousands	mortality	Ingestion
I013603-003	bluegill	Lepomis macrochirus	60	mortality	Runoff
	smallmouth bass	Micropterus dolomieu	10	mortality	Runoff
<i>Citrus</i>					
I000087-001	black crappie	Pomoxis nigromaculatus	4	mortality	Drift
	catfish	Ictaluridae	5	mortality	Drift
	crayfish	Decapoda	n/r	mortality	Drift
	frog	Anura	n/r	mortality	Drift
	frog	Anura	n/r	mortality	Drift
	hybrid sunfish	Centrarchidae	350	mortality	Drift
	largemouth bass	Micropterus salmoides	17	mortality	Drift

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
<i>COMMERCIAL SITE</i>					
I002975-001	bluegill	Lepomis macrochirus	thousands	mortality	Spill
	catfish	Ictaluridae	thousands	mortality	Spill
	catfish	Ictaluridae	thousands	mortality	Spill
	largemouth bass	Micropterus salmoides	thousands	mortality	Spill
	largemouth bass	Micropterus salmoides		mortality	
	minnow	Cyprinidae	thousands	mortality	
	minnow	Cyprinidae	thousands	mortality	Spill
	sunfish	Centrarchidae	thousands	mortality	Spill
	sunfish	Centrarchidae	thousands	mortality	Spill
	sunfish	Centrarchidae	thousands	mortality	Spill
<i>Construction site</i>					
I000387-001	bream	Notemigonus crysoleucas	242	mortality	
<i>Corn</i>					
I000108-001	bluegill	Lepomis macrochirus	unknown	mortality	Runoff
	bowfin	Amia calva	unknown	mortality	Runoff
	carp	Cyprinus carpio	unknown	mortality	Runoff
I020252-001	bluegill	Lepomis macrochirus	40	mortality	
	bullhead	Ameiurus sp.	778	mortality	
	green sunfish	Lepomis cyanellus	791	mortality	
	johnny darter	Percidae	2710	mortality	

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
<i>Cotton</i>	largemouth bass	Micropterus salmoides	2	mortality	
	minnow	Cyprinidae	7067	mortality	
	stoneroller		3249	mortality	
	white sucker	Catostomus commersoni	1000	mortality	
<i>B0000-500-32</i>	american alligator	A. mississippiensis	1	mortality	Runoff
	unknown fish		unknown	mortality	Runoff
	unknown fish		extensive	mortality	Runoff
<i>I000383-002</i>					
<i>Cranberries</i>					
<i>I013530-001</i>	largemouth bass	Micropterus salmoides	hundreds	mortality	Flowing water
	sunfish	Centrarchidae	hundreds	mortality	Flowing water
<i>Cranberry</i>					
<i>I007313-002</i>	bass	Micropterus spp.	1000	mortality	Drift
	bluegill	Lepomis macrochirus	1000	mortality	Drift
	brown bullhead	Ameiurus nebulosus	1000	mortality	Drift
	chain pickerel	Esox niger	1000	mortality	Drift
	crappie	Centrarchidae	1000	mortality	Drift
	yellow perch	Perca flavescens	1000	mortality	Drift
<i>CREEK</i>					
<i>I003601-002</i>					
	blacknose dace	Rhinichthys atratulus	hundreds	mortality	Flowing water

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
	bluegill	Lepomis macrochirus	hundreds	mortality	Flowing water
	longnose dace	Rhinichthys cataractae	hundreds	mortality	Flowing water
	pumpkinseed	Lepomis gibbosus	hundreds	mortality	Flowing water
	tessellated darter	Etheostoma olmstedii	hundreds	mortality	Flowing water
	white sucker	Catostomus commersoni	hundreds	mortality	Flowing water
<i>DUMPED INTO DRAIN</i>					
I008956-003	n/r		unknown	mortality	Ingestion
I008956-004	n/r		unknown	mortality	Ingestion
<i>FIELD</i>					
I001305-001	unknown fish		significant numbers	mortality	Runoff
<i>Golf green</i>					
I000233-001	unknown fish		400	mortality	Runoff
<i>Home</i>					
I000116-004	bluegill	Lepomis macrochirus	thousands	mortality	Runoff
	crappie	Centrarchidae	thousands	mortality	Runoff
	widemouth bass	Perciformes	thousands	mortality	Runoff
I000311-001	bream	Notemigonus crysoleucas	200	mortality	Runoff
I000470-001	snake	Serpentes	unknown	mortality	Runoff

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I000636-031	unknown fish		unknown	mortality	Runoff
	bass	Micropterus spp.	n/r	mortality	Runoff
	catfish	Ictaluridae	n/r	mortality	Runoff
	crappie	Centrarchidae	n/r	mortality	Runoff
	sunfish	Centrarchidae	n/r	mortality	Runoff
I000642-001	bluegill	Lepomis macrochirus	100	mortality	Spill
I000947-001	bluegill	Lepomis macrochirus	200	mortality	Runoff
I002108-001	bluegill	Lepomis macrochirus	n/r	mortality	Runoff
	catfish	Ictaluridae	n/r	mortality	Runoff
I002217-001	unknown fish		unknown	mortality	Runoff
I007070-001	bluegill	Lepomis macrochirus	50	mortality	Runoff
I007072-001	bass	Micropterus spp.	150	mortality	Runoff
	bream	Notemigonus crysoleucas	150	mortality	Runoff
<i>Home, exterior</i>					
I000010-001	unknown fish		unknown	mortality	Runoff
I000125-001	bluegill	Lepomis macrochirus	30	mortality	Runoff
I000148-001					

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I000149-001	bream	Notemigonus crysoleucas	500	mortality	Runoff
	bluegill	Lepomis macrochirus	unknown	mortality	Runoff
	catfish	Ictaluridae	unknown	mortality	Runoff
I000152-001	crayfish	Decapoda	small number	mortality	Runoff
	frog	Anura	small number	mortality	Runoff
	minnow	Cyprinidae	small number	mortality	Runoff
I000187-001	bass	Micropterus spp.	unknown	mortality	Runoff
	catfish	Ictaluridae	unknown	mortality	Runoff
	crappie	Centrarchidae	unknown	mortality	Runoff
I000671-001	crayfish	Decapoda	unknown	mortality	Runoff
	unknown fish		unknown	mortality	Runoff
I000911-001	catfish	Ictaluridae	500	mortality	Runoff
I000950-001	unknown fish		4	mortality	Runoff
I001107-001	catfish	Ictaluridae	unknown	mortality	Runoff
	minnow	Cyprinidae	unknown	mortality	Runoff
I001304-001	unknown fish		unknown	mortality	Runoff
I001849-005	unknown fish		300	mortality	Runoff

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I002326-001	bass	Micropterus spp.	n/r	mortality	Runoff
	bluegill	Lepomis macrochirus	n/r	mortality	Runoff
	sunfish	Centrarchidae	n/r	mortality	Runoff
I003436-001	perch	Percidae	3	mortality	Runoff
I003509-001	bass	Micropterus spp.	hundreds	mortality	Runoff
	bluegill	Lepomis macrochirus	hundreds	mortality	Runoff
	brim	Centrarchidae	hundreds	mortality	Runoff
I003600-001	bluegill	Lepomis macrochirus	hundreds	mortality	Runoff
	catfish	Ictaluridae		mortality	Runoff
	crayfish	Decapoda	20	mortality	Runoff
	largemouth bass	Micropterus salmoides	25	mortality	Runoff
I003721-001	unknown fish		4	mortality	Runoff
I003744-001	bass	Micropterus spp.	hundreds	mortality	Runoff
I004374-001	bluegill	Lepomis macrochirus	hundreds	mortality	Ingestion
	golden shiner	Notemigonus crysoleucas	hundreds	mortality	Ingestion
I005707-001	unknown fish		unknown	mortality	Ingestion
I005809-001	bluegill	Lepomis macrochirus		mortality	Runoff

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I006452-001	minnow	Cyprinidae	2	mortality	Spill
I007074-001	bream	Notemigonus crysoleucas	50	mortality	Runoff
I007098-001	bass	Micropterus spp.	250	mortality	Runoff
	sunfish	Centrarchidae	250	mortality	Runoff
I007373-002	bass	Micropterus spp.		mortality	Ingestion
	catfish	Ictaluridae		mortality	Ingestion
	sunfish	Centrarchidae		mortality	Ingestion
I007373-003	bluegill	Lepomis macrochirus	224	mortality	Ingestion
	largemouth bass	Micropterus salmoides	5	mortality	Ingestion
	striped bass	Morone saxatilis	9	mortality	Ingestion
I007747-001	bass	Micropterus spp.	thousands	mortality	Ingestion
	bluegill	Lepomis macrochirus	thousands	mortality	Ingestion
	catfish	Ictaluridae	thousands	mortality	Ingestion
I007868-001	n/r		500	mortality	Runoff
I008005-001	n/r		unknown	mortality	Runoff
I009932-001	frog	Anura	6	mortality	Runoff
	goldfish	Carassius auratus	60	mortality	Runoff

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I010287-012	goldfish	Carassius auratus	30 - 100	mortality	Runoff
I013302-001	bass	Micropterus spp.	40 gallons of fish	mortality	Runoff
	bluegill	Lepomis macrochirus	40 gallons of fish	mortality	Runoff
I015212-001	unknown fish		20 to 80 fish	mortality	Runoff
I017025-001	unknown fish		thousands	mortality	Flowing water
<i>Home/lawn</i>					
I000644-001	bluegill	Lepomis macrochirus	30	mortality	Spill
I007984-001	bass	Micropterus spp.	25	mortality	Runoff
	bluegill	Lepomis macrochirus	250	mortality	Runoff
	crayfish	Decapoda	20	mortality	Runoff
<i>Home/tree</i>					
I009031-001	n/r		82	mortality	Ingestion
<i>LAKE</i>					
I000636-009	bluegill	Lepomis macrochirus		mortality	Spill
	crappie	Centrarchidae	n/r	mortality	Spill
	shad	Clupeidae		mortality	Spill
I006881-001					

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
<i>Municipal operation</i>	black bullhead catfish	Ictalurus melas	thousands	mortality	UNKNOWN
	bluegill	Lepomis macrochirus	thousands	mortality	Unknown
	catfish	Ictaluridae	thousands	mortality	N/R
	minnow	Cyprinidae	thousands	mortality	UNKNOWN
	stoneroller		unknown	mortality	UNKNOWN
I002370-001	unknown fish		thousands	mortality	Runoff
I009966-001	madtom	Ictaluridae	8	mortality	Ingestion
	minnow	Cyprinidae	hundreds	mortality	Ingestion
	sunfish	Centrarchidae	102	mortality	Ingestion
<i>N/R</i>					
I000171-001	bass	Micropterus spp.	unknown	mortality	Runoff
	catfish	Ictaluridae	unknown	mortality	Runoff
	crappie	Centrarchidae	unknown	mortality	Runoff
	perch	Percidae	unknown	mortality	Runoff
	sunfish	Centrarchidae	unknown	mortality	Runoff
I000454-004	unknown fish		n/r	mortality	N/R
I002308-001	bass	Micropterus spp.	61	mortality	Runoff
	bluegill	Lepomis macrochirus	75	mortality	Runoff
	catfish	Ictaluridae	3	mortality	Runoff

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I002358-001	unknown fish		unknown	mortality	Spill
I002976-001	bluegill	Lepomis macrochirus	500	mortality	N/R
	largemouth bass	Micropterus salmoides	500	mortality	N/R
	sunfish	Centrarchidae	500	mortality	N/R
I003862-001	catfish	Ictaluridae	6	mortality	
	minnow	Cyprinidae	lots	mortality	
I007155-084	crayfish	Decapoda	unknown	mortality	Drift
I008657-002	unknown fish		unknown	mortality	DUMPING
I009235-001	bass	Micropterus spp.		mortality	
	darter	Etheostoma sp.	hundreds	mortality	Ingestion
	sucker	Catostomidae	thousands	mortality	Ingestion
	sunroller		hundreds	mortality	Ingestion
	unknown snake			mortality	
I009329-001	unknown fish		heavy kill	mortality	Spill
I010025-001	bass	Micropterus spp.	unknown	mortality	Ingestion
	bluegill	Lepomis macrochirus	unknown	mortality	Ingestion
	bream	Notemigonus crysoleucas	unknown	mortality	Ingestion
	sunfish	Centrarchidae	unknown	mortality	Ingestion

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I011444-009	bream	Notemigonus crysoleucas	2000-4000	mortality	Runoff
I013170-001	carp	Cyprinus carpio	unknown	mortality	N/R
	goldfish	Carassius auratus	unknown	mortality	N/R
	sacramento blackfish	Orthodon microlepidotus	unknown	mortality	N/R
	sacramento pikeminnow	Ptychocheilus grandis	unknown	mortality	N/R
	sacramento sucker	Catostomus occidentalis	unknown	mortality	N/R
	sculpin	Cottus sp.	unknown	mortality	N/R
I013927-001	flathead catfish	Pylodictis oilvaris	320	mortality	Drift
	grass carp	Ctenopharyngodon idella	60	mortality	Drift
	largemouth bass	Micropterus salmoides	20	mortality	Drift
I014322-001	carp	Cyprinus carpio	1	incapacitation	Ingestion
	catfish	Ictaluridae	1	incapacitation	Ingestion
	goldfish	Carassius auratus	10	mortality	N/R
I014884-022	bullhead	Ameiurus sp.	over 50	mortality	Flowing water
	carp	Cyprinus carpio	over 100	mortality	Flowing water
	threadfin shad	Dorosoma petenense	over 200	mortality	Flowing water
ORCHARD					
I000364-001	bass	Micropterus spp.	15	mortality	Runoff
	bass	Micropterus spp.	numerous	mortality	Runoff
	bluegill	Lepomis macrochirus	100	mortality	Runoff

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I003826-020	bluegill	Lepomis macrochirus	numerous	mortality	Runoff
	catfish	Ictaluridae	20	mortality	Runoff
	n/r		unknown	mortality	Runoff
<i>Ornamental, woody</i>					
I000468-001	unknown fish		some	mortality	N/R
I010525-001	unknown fish		100 to 150	mortality	Drift
<i>Peanut</i>					
I000232-001	bluegill	Lepomis macrochirus	< 300	mortality	Runoff
I000640-001	crappie	Centrarchidae	< 300	mortality	Runoff
	bream	Notemigonus crysoleucas		mortality	Runoff
	unknown fish		several hundred	mortality	Runoff/drift
I007710-001	bass	Micropterus spp.	4-5 buckets	mortality	Treated directly
	bluegill	Lepomis macrochirus	4-5 buckets	mortality	Treated directly
<i>Pre-treated slab</i>					
I000454-001	unknown fish		n/r	mortality	Runoff
<i>Road</i>					
I008637-001					

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
	unknown fish		n/r	mortality	Contamination
<i>Soybean</i>					
I020252-001	bluegill	Lepomis macrochirus	40	mortality	
	bullhead	Ameiurus sp.	778	mortality	
	green sunfish	Lepomis cyanellus	791	mortality	
	johnny darter	Percidae	2710	mortality	
	largemouth bass	Micropterus salmoides	2	mortality	
	minnow	Cyprinidae	7067	mortality	
	stoneroller		3249	mortality	
	white sucker	Catostomus commersoni	1000	mortality	
<i>SPILL</i>					
I004376-002	cherokee darter	Etheostoma scotti	100	mortality	Spill
	sculpin	Cottus sp.	1157	mortality	Spill
<i>Sub-slab</i>					
I013080-001	bass	Micropterus spp.	> 1000	mortality	Runoff
	bream	Notemigonus crysoleucas	> 1000	mortality	Runoff
<i>Turf, golf course</i>					
I000221-001	bass	Micropterus spp.	n/r	mortality	Runoff
	eel	Anguilliformes	n/r	mortality	Runoff
	mullet	Mugilidae	n/r	mortality	Runoff
I000910-001					

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
<i>Turf, residential</i>	bream	Notemigonus crysoleucas	n/r	mortality	Runoff
	catfish	Ictaluridae	n/r	mortality	Runoff
	garfish	Strongylura exilis	n/r	mortality	Runoff
	minnow	Cyprinidae	n/r	mortality	Runoff
	perch	Percidae	n/r	mortality	Runoff
	sunfish	Centrarchidae	n/r	mortality	Runoff
<i>I007120-001</i>	bass	Micropterus spp.		mortality	Runoff
	bluegill	Lepomis macrochirus		mortality	Runoff
<i>I007150-001</i>	bass	Micropterus spp.		mortality	Runoff
	bluegill	Lepomis macrochirus		mortality	Runoff
<i>Warehouse</i>					
<i>I007373-001</i>	bluegill	Lepomis macrochirus	thousands	mortality	Flowing water
	green sunfish	Lepomis cyanellus	6247	mortality	Flowing water
	largemouth bass	Micropterus salmoides	1489	mortality	Flowing water
	shad	Clupeidae	35916	mortality	Flowing water
	spotted bass	Micropterus punctulatus	986	mortality	Flowing water
	sucker	Catostomodidae	725	mortality	Flowing water
	sunfish	Centrarchidae	thousands	mortality	Flowing water
<i>Wide area</i>					
<i>I014349-001</i>	koi	Cyprinus carpio	unknown	mortality	N/R

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I019051-003	koi	Cyprinus carpio	< 17	mortality	Drift, spray
<i>Yard</i>					
I002188-001	bass	Micropterus spp.	n/r	mortality	Runoff
	bluegill	Lepomis macrochirus	n/r	mortality	Runoff
I002357-001	unknown fish		10	mortality	Drift

PLANTS

Agricultural Area

I007701-001	wheat, winter			plant damage	TREATMENT
I007755-016	sugar beet			pinched ears	TREATMENT

ALFALFA

I006194-001	alfalfa	Medicago sativa	unknown	plant damage	ADDED TO CROP
I006194-002	alfalfa	Medicago sativa	unknown	plant damage	APPLIED TO CROP
I007357-001	alfalfa	Medicago sativa		plant damage	TREATMENT
I010927-003	alfalfa	Medicago sativa	unknown	plant damage	Carryover

Citrus, orange

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I010927-002	orange		all 30 acres	plant damage	Treated directly
I013636-034	orange		90 acres	plant damage	Treated directly
I013636-035	orange		10 acres	plant damage	Treated directly
I013636-036	orange		21 acres out of 40	plant damage	Treated directly
I013636-037	orange		135.03 acres	plant damage	Treated directly
I013636-039	orange		110 acres	plant damage	Treated directly
I014702-051	orange		40 acres	plant damage	Treated directly
<i>CORN</i>					
I006189-002	corn	Zea mays	unknown	plant damage	N/R
I006189-003	corn	Zea mays	unknown	plant damage	N/R
I006194-003	corn	Zea mays	unknown	poor germination	APPLIED TO CROP
I007755-015	corn	Zea mays	300 acres	plant damage	TREATMENT
I008078-001	corn	Zea mays	50 acres	reduced yield	TREATMENT
I008078-002					

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I009508-001	corn	Zea mays	50 acres	reduced yield	TREATMENT
I010927-001	corn	Zea mays	147 acres	plant damage	Treated directly
I011117-012	corn	Zea mays	all 70 acres	mortality	Treated directly
	corn	Zea mays		plant damage	Treated directly
<i>Corn, field</i>					
I012366-027	corn	Zea mays	140 acres	plant damage	Treated directly
I013636-001	corn, field	Zea mays	72 out of 149 acres	plant damage	Treated directly
I013636-025	corn, field	Zea mays	80 acres	plant damage	Treated directly
I013636-038	corn, field	Zea mays	110 acres	plant damage	Treated directly
I015748-031	corn, field	Zea mays	30 acres	plant damage	Treated directly
<i>COTTON</i>					
I007740-001	cotton	Gossypium		bronzing	TREATMENT
I012366-025	cotton	Gossypium	140 acres	plant damage	Treated directly
<i>FIELD</i>					
I002413-001					

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
	blue spruce	Picea pungens	n/r	plant damage	UNKNOWN
<i>N/R</i>					
I012366-073	corn, field	Zea mays	20 acres	plant damage	Treated directly
<i>ONION</i>					
I006194-004	onion		unknown	stunted growth	APPLIED TO THE CROP
I006194-005	onion		unknown	plant damage	APPLIED TO THE CROP
I006194-006	onion		unknown	plant damage	APPLIED TO THE CROP
I014867-001	onion		unknown	plant damage	Treated directly
<i>Oranges</i>					
I013563-010	grape	Vitis	10 acres	plant damage	Treated directly
<i>Ornamental</i>					
I009262-104	unknown plant		unknown	mortality	Treated directly
<i>Soybean</i>					
I015748-029	soybean		103 acres affected	plant damage	Treated directly

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
<i>Soybeans</i>					
I016538-001	soybean		50 acres	plant damage	Treated directly
<i>Sugar beet</i>					
I006189-001	sugar beet		unknown	plant damage	N/R
I016962-029	sugar beet		90 acres	plant damage	Treated directly
<i>Tree farm/plantation</i>					
I012366-026	blue spruce	Picea pungens	82 acres	plant damage	Treated directly
<i>Wheat</i>					
I016828-003	unknown fish		unknown	mortality	Runoff
<i>Wide area</i>					
I016728-002	unknown tree			plant damage	Drift, spray

TERRESTRIAL

No Data

I018980-023	american robin	Turdus migratorius	1	mortality
	blue jay	Cyanocitta cristata	2	mortality
	brown-headed cowbird	Molothrus ater	151	mortality

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I018980-033	cardinal	Richmondena cardinalis	22	mortality	
	mourning dove	Zenaida macroura	1	mortality	
	red-winged blackbird	Agelaius phoeniceus	unknown	mortality	
	cackling goose	Branta hutchinsii	22	mortality	
<i>Agricultural Area</i>					
I003826-013	bee	Apidae	unknown	mortality	Drift
I003826-014	bee	Apidae		mortality	Drift
I005042-001	red-tailed hawk	Buteo jamaicensis	2	mortality	UNKNOWN
I005042-014	red-tailed hawk	Buteo jamaicensis	1	incapacitation	PERCHING
I005042-015	red-tailed hawk	Buteo jamaicensis	1	incapacitation	PERCHING
I005980-002	bee	Apidae	700	mortality	Drift
<i>Alfalfa</i>					
I016478-001	bee	Apidae	4 hives	mortality	Drift, spray
I016479-001	bee	Apidae	164 bee hives	mortality	Treated directly
I017850-008	blackbird	Icteridae	100	mortality	Ingestion
	red-tailed hawk	Buteo jamaicensis	2	mortality	Secondary poisoning

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
<i>Apple</i>					
I013883-001	bee	Apidae	90 hives	mortality	Drift, spray
<i>Bait</i>					
I012661-001	rock dove	Columba livia	1	mortality	Ingestion
<i>Bean</i>					
I014341-017	bee	Apidae	102 hives	mortality	Ingestion
<i>BUILDING</i>					
I000103-007	american robin	Turdus migratorius	7	mortality	Ingestion
<i>carrot</i>					
I014409-058	bee	Apidae	approx. 48 colonies	mortality	N/R
I014409-059	bee	Apidae	72 colonies	mortality	Drift
<i>Carrot seed</i>					
I014409-063	bee	Apidae	approx 55 colonies	mortality	N/R
<i>Corn</i>					
I003152-001	corn	Zea mays		mortality	TREATMENT
I020441-001					

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
	honey bee	Apis mellifera	180 bee hives	mortality	Drift, spray
<i>DUCK CLUB</i>					
I005417-009	duck	Anatidae	6	mortality	Ingestion
<i>FLEA COLLAR</i>					
I002993-009	cedar waxwing	Bombycilla cedrorum	18	mortality	Ingestion
<i>GOLF COURSE</i>					
I001884-001	grackle	Quiscalus sp.	1000	mortality	Ingestion
<i>GOLF DRIVING RANGE</i>					
I008779-002	n/r		unknown	mortality	Ingestion
<i>Home</i>					
I000504-024	american robin	Turdus migratorius	16	mortality	N/R
I005158-001	n/r		2	mortality	UNKNOWN
<i>Home, exterior</i>					
I004430-001	unknown shrub			mortality	
	unknown tree		many	mortality	Drift
<i>HOME/LAWN</i>					
I002074-001					

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I003131-002	american robin	Turdus migratorius	60	mortality	Ingestion
	american robin	Turdus migratorius	unknown	mortality	Ingestion
I003131-003	american robin	Turdus migratorius	2	mortality	Ingestion
	american robin	Turdus migratorius	2	mortality	Ingestion
I003184-001	american robin	Turdus migratorius	43	mortality	Ingestion
	american robin	Turdus migratorius	3	incapacitation	Ingestion
I006916-001	n/r		unknown	mortality	Drift
I008454-001	american robin	Turdus migratorius	100	mortality	
	unknown bird		dozens	mortality	Ingestion
I010831-005	lobster	Decapoda	1	mortality	Drift
	n/r		1	mortality	Drift
	raccoon	Procyon lotor	1	mortality	Drift
	rat	Rattus sp.	1	mortality	Ingestion
	squirrel	Sciuridae	1	mortality	Drift
<i>HOME/TREE</i>					
I000015-001					
	bluebird	Turdidae	1	mortality	Ingestion
<i>N/R</i>					
B0000-400-66					

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I000103-015	mallard	Anas platyrhynchos	2	mortality	Ingestion
	rock dove	Columba livia	1	mortality	Ingestion
	rock dove	Columba livia	1	mortality	Ingestion
I000200-030	iguana	Iguanidae	1	mortality	N/R
	snake	Serpentes	some snakes	mortality	N/R
I000504-002	american robin	Turdus migratorius	100	mortality	Ingestion
	american robin	Turdus migratorius	15	mortality	Ingestion
I001815-001	common grackle	Quiscalus quiscula	most of 800	mortality	Ingestion
	unknown bird		some of 800	mortality	
I003351-001	red-tailed hawk	Buteo jamaicensis	1	mortality	Ingestion
I003351-006	red-tailed hawk	Buteo jamaicensis	1	mortality	Ingestion
I003351-010	red-tailed hawk	Buteo jamaicensis	1	mortality	N/R
I003351-012	red-tailed hawk	Buteo jamaicensis	1	mortality	N/R
I003351-018	red-tailed hawk	Buteo jamaicensis	1	mortality	N/R
I003654-001	american robin	Turdus migratorius	1	mortality	Ingestion
I003826-012					

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I003826-015	bee	Apidae	unknown	mortality	Drift
I004934-001	bee	Apidae	unknown	mortality	Ingestion
I004993-005	american robin	Turdus migratorius	4	mortality	Ingestion
I004993-013	red-tailed hawk	Buteo jamaicensis	1	mortality	N/R
I005037-002	american kestrel	Falco sparverius	1	mortality	N/R
I005042-002	common grackle	Quiscalus quiscula	7	mortality	
I005042-003	red-tailed hawk	Buteo jamaicensis	1	mortality	UNKNOWN
I005042-005	red-tailed hawk	Buteo jamaicensis	1	mortality	Drift
I005042-006	red-tailed hawk	Buteo jamaicensis	1	mortality	PERCHING
I005042-007	red-tailed hawk	Buteo jamaicensis	2	mortality	PERCHING
I005042-009	red-tailed hawk	Buteo jamaicensis	1	mortality	Drift, spray
I005042-010	barn owl	Tyto alba	1	incapacitation	PERCHING
I005042-011	red-tailed hawk	Buteo jamaicensis	1	incapacitation	N/R

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I005042-012	red-tailed hawk	Buteo jamaicensis	1	incapacitation	PERCHING
	red-tailed hawk	Buteo jamaicensis	1	mortality	N/R
I005042-013	red-tailed hawk	Buteo jamaicensis	1	incapacitation	PERCHING
I005293-001	red-tailed hawk	Buteo jamaicensis	1	mortality	N/R
I005294-001	cooper's hawk	Accipiter cooperii	1	mortality	Ingestion
I006595-001	pelican	Pelecanus sp.	1	mortality	Ingestion
I007107-006	goose	Anserinae	3	mortality	N/R
I008164-001	mallard	Anas platyrhynchos	2	mortality	Ingestion
I009337-001	duck	Anatidae	2	mortality	Ingestion
	swan	Anatidae	1	mortality	Ingestion
I010002-001	american robin	Turdus migratorius	9	mortality	N/R
	cedar waxwing	Bombycilla cedrorum	3	mortality	N/R
	house finch	Carpodacus mexicanus	1	mortality	N/R
I011131-001	common grackle	Quiscalus quiscula	large number	mortality	Ingestion
I011300-002	american robin	Turdus migratorius	10	mortality	Ingestion

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
I011532-001	blue jay	Cyanocitta cristata	1	mortality	Ingestion
I011879-001	american crow	Corvus Brachyrhynchos	1	mortality	Ingestion
I013884-005	bee	Apidae	> 100 hives	mortality	N/R
I014341-042	bee	Apidae	96 hives	mortality	N/R
I014407-009	bee	Apidae	228 colonies	mortality	Drift, spray
I014407-011	bee	Apidae		mortality	N/R
I014407-015	bee	Apidae	250 colonies	mortality	N/R
I014407-020	bee	Apidae	1000 colonies	mortality	Drift
I014889-001	pig	Suidae	41	incapacitation	Ingestion
<i>ORCHARD</i>					
I003654-018	bee	Apidae	unknown	mortality	UNKNOWN
I003826-010	bee	Apidae	unknown	mortality	Drift
I003826-027	bee	Apidae	unknown	mortality	Drift
I007834-038					

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
	bee	Apidae	unknown	mortality	Drift
<i>Orchard (unspecified)</i>					
I013883-031	bee	Apidae	84 bee hives	mortality	Ingestion
I013884-028	bee	Apidae	not given	mortality	Ingestion
I014341-006	bee	Apidae	1256	mortality	Ingestion
I014341-008	bee	Apidae	20 hives	mortality	Ingestion
I014407-018	bee	Apidae	76 colonies	mortality	Drift
<i>PARK</i>					
B0000-502-82	pigeon	Columbidae	40	mortality	Ingestion
I000097-007	domestic pigeon	Columba livia	40	mortality	
<i>RESIDENTIAL</i>					
I002074-002	american robin	Turdus migratorius	1	mortality	Ingestion
I004701-001	grackle	Quiscalus sp.	7	mortality	Ingestion
<i>RESIDENTIAL AREA</i>					
I002243-002	american robin	Turdus migratorius	23	mortality	Ingestion

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
<i>TOWN</i>	blue jay	Cyanocitta cristata	1	mortality	Ingestion
I005042-008	red-tailed hawk	Buteo jamaicensis	2	mortality	PERCHING
<i>Turf</i>					
I013385-001	canada goose	Branta canadensis	4	mortality	N/R
<i>Turf, golf course</i>					
B000177-001	bluebird	Turdidae	1	mortality	N/R
I003131-001	canada goose	Branta canadensis	43	mortality	Ingestion
<i>Turf, public area</i>					
B0000-501-11	brown-headed cowbird	Molothrus ater	60	mortality	Ingestion
<i>Turf, residential</i>					
B0000-400-21	american robin	Turdus migratorius	unknown	mortality	Ingestion
B0000-501-23	canada goose	Branta canadensis	12	mortality	Ingestion
I000724-001	boat-tailed grackle	Cassidix mexicanus	3	mortality	Ingestion
	common yellow-throat	Geothlypis trichas	1	mortality	Ingestion
I003176-003	unknown bird		22	mortality	Ingestion

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
<i>URBAN RESIDENTIAL</i>					
I004169-040	american robin	Turdus migratorius	43	mortality	Ingestion
<i>YARD</i>					
I002243-001	american robin	Turdus migratorius	n/r	mortality	Ingestion
	grackle	Quiscalus sp.	n/r	mortality	Ingestion
TERRESTRIAL/AQUATIC					
<i>BUILDING</i>					
I000962-001	american robin	Turdus migratorius	1	mortality	Runoff
	crayfish	Decapoda	n/r	mortality	Runoff
	darter	Etheostoma sp.	n/r	mortality	Runoff
	fox	Canidae	1	mortality	Runoff
	sucker	Catostomodidae	n/r	mortality	Runoff
	trout	Salmonidae	n/r	mortality	Runoff
<i>FIELD</i>					
I005604-001	bluegill	Lepomis macrochirus	unknown	mortality	DIKE BREAK
	perch	Percidae	unknown	mortality	DIKE BREAK
<i>Home</i>					
I000643-001	bream	Notemigonus crysoleucas	undetermined	mortality	Spill

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
	minnow	Cyprinidae	undetermined	mortality	Spill
	salamander	Amphibia	undetermined	mortality	Spill
	scud	Amphipoda	undetermined	mortality	Spill
	sunfish	Centrarchidae	undetermined	mortality	Spill
<i>Home, exterior</i>					
I005607-001	unknown fish		20	mortality	Spill
<i>N/R</i>					
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
	unknown snake		unknown	mortality	Treated directly
<i>RANCH FARM STREAM</i>					
I000103-016	american alligator	A. mississippiensis	unknown	mortality	Spill
	banded water snake		27	mortality	Spill
	black swamp snake		9	mortality	Spill
	bluegill	Lepomis macrochirus	11856	mortality	Spill
	boat-tailed grackle	Cassidix mexicanus	unknown	mortality	Spill

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
	bowfin	Amia calva	75	mortality	Spill
	brown bullhead	Ameiurus nebulosus	187	mortality	Spill
	frog	Anura	313	mortality	Spill
	golden shiner	Notemigonus crysoleucas	2338	mortality	Spill
	lake chubsucker	Erimyzon sucetta	1590	mortality	Spill
	largemouth bass	Micropterus salmoides	617	mortality	Spill
	mosquito fish	Gambusia affinis	748	mortality	Spill
	redeer sunfish	Lepomis microlophus	4133	mortality	Spill
	seminole killifish	Fundulus seminolis	1219	mortality	Spill
	shiner	Cyprinidae	4301	mortality	Spill
	spotted gar	Lepisosteus oculatus	561	mortality	Spill
	spotted sunfish	Lepomis punctatus	1683	mortality	Spill
	turkey vulture	Cathartes aura	unknown	incapacitation	Spill
	turtle, fl soft shell	Trionyx ferox	427	mortality	Spill
	unknown bird		142	mortality	Spill
	warmouth	Lepomis gulosus	411	mortality	Spill
	white ibis	Eudocimus albus	unknown	mortality	Spill
	wood stork	Mycteria americana	unknown	incapacitation	Spill

Soybean

I000403-001

bass	Micropterus spp.	54	mortality	Drift
bullhead	Ameiurus sp.	2	mortality	Drift
carp	Cyprinus carpio	78	mortality	Drift
channel catfish	Ictalurus punctatus	26	mortality	Drift
drum	Aplodinotus grunniens	26	mortality	Drift

Incident #	Species	Scientific Name	Magnitude	Response	Rt. Exposure
	minnow	Cyprinidae	8195	mortality	Drift
	shad	Clupeidae	221	mortality	Drift
	sucker	Catostomodidae	55	mortality	Drift
	sunfish	Centrarchidae	563	mortality	Drift
	white bass	Morone chrysops	17	mortality	Drift

J.3. Summary table of bird incidents attributed to chlorpyrifos from the AIMS Database of the American Bird Conservancy, queried September 1, 2009.

Species	# Events	# Birds Killed	# Birds Sub-lethally Affected
Bald Eagle	284	447	45
Red-tailed Hawk	245	521	25
Mallard	212	3396	117
Canada Goose	212	5686	8
Rock Pigeon	144	867	18
American Crow	141	236	3
Great Horned Owl	113	129	5
Blue Jay	100	153	3
european starling	94	304717	2
American Robin	86	10894	6
Duck	83	44758	7
Golden Eagle	79	181	4
Cooper's Hawk	77	137	3
Common Grackle	75	782	13
Mourning Dove	64	592	
Red-winged Blackbird	58	22991	3
Grackle	51	2029	
Unknown Bird	50	1281	8
Eagle	43	107	
Crow	43	67	
House Sparrow	41	134	
Hawk	38	84	
Wild Turkey	38	209	6
Yellow-rumped Warbler	36	455	
Blackbird	36	3982	
Goose	34	762	4
American Wigeon	32	5706	
House Finch	32	222	
American Kestrel	31	36	
Sparrow	30	1621	
Brown-headed Cowbird	29	1248	1
Eastern Screech-owl	29	28	2
Peregrine Falcon	28	30	1
Common Raven	26	105	7
Northern Cardinal	24	57	
Eastern Bluebird	21	60	
Finch	21	1214	
Brewer's Blackbird	20	984	

Dove	20	234	
Vulture	19	41	
Cedar Waxwing	19	1338	20
Owl	18	52	
Northern Harrier	17	37	
Domestic Chicken	17	37	101
Ring-billed Gull	17	274	5
Magpie	17	73	
Gull	15	758	
Snow Goose	14	1020	
Great Blue Heron	14	66	
Sharp-shinned Hawk	14	14	
Turkey Vulture	13	16	2
Boat-tailed Grackle	13	339	
Savannah Sparrow	12	42	
Barn Owl	12	15	1
Western Meadowlark	11	67	
Chipping Sparrow	11	31	
Herring Gull	11	106	
Killdeer	10	35	
Egret	10	74	
Northern Pintail	10	111	1
Northern Flicker	10	52	
White-throated Sparrow	10	21	
Songbird	9	149	
Waterfowl	9	401	
Red-shouldered Hawk	9	7	3
Barred Owl	9	7	2
Laughing Gull	8	234	
Northern Mockingbird	8	18	
Passerine	8	82	1
Horned Lark	8	109	4
American Coot	8	142	
Dark-eyed Junco	8	26	
Fish Crow	7	14	
Black-billed Magpie	7	54	
Purple Martin	7	78	
Western Bluebird	7	44	
Barn Swallow	7	14	
Song Sparrow	7	9	
Black-crowned Night-heron	7	11	
White-crowned Sparrow	6	6	

American Goldfinch	6	193	
Western Sandpiper	6	58	27
Ferruginous Hawk	6	6	
Lark Sparrow	6	13	1
Lawrence's Goldfinch	6	39	
Quail	6	17	
Black Vulture	6	70	
Snowy Owl	6	8	
Pheasant	6	82	
Osprey	5	6	
Cattle Egret	5	104	1
Teal	5	19	
Raptor	5	77	
Gadwall	5	145	
Greater White-fronted Goose	5	329	
California Gull	5	99	
Muscovy Duck	5	16	
Brant	5	878	
Great-tailed Grackle	5	55	
Black Skimmer	4	25	1
Pekin Duck	4	5	
Least Sandpiper	4	5	4
Sandpiper	4	14	
Dunlin	4	242	
White-winged Dove	4	68	
Inca Dove	4	16	
Green-winged Teal	4	1122	
American Black Duck	4	4	
Black-necked Stilt	4	9	
Meadowlark	4	32	
Blue Grosbeak	4	4	
Blue-winged Teal	4	15	
Cowbird	4	10	
Northern Bobwhite	4	15	
Great Egret	4	16	
Wren	3	3	
American White Pelican	3	1701	
Yellow-billed Magpie	3	10	
Wood Duck	3	4	
Prairie Falcon	3	3	
Northern Gannet	3	9	
Swan	3	4	

Short-eared Owl	3	3	
Eastern Meadowlark	3	3	
Oregon Junco	3	5	
Shrike	3		7
Double-crested Cormorant	3	5	
Tricolored Blackbird	3	3	
Sandhill Crane	3	10	
Rough-legged Hawk	3	2	1
Bronzed Cowbird	2	601	
Grasshopper Sparrow	2	2	
Downy Woodpecker	2	2	
Carolina Wren	2	5	
California Quail	2	2	
Cliff Swallow	2	243	
Franklin's Gull	2	9	
Flycatcher	2	5	
Common Loon	2	3	
American Pipit	2	4	
Band-tailed Pigeon	2	26	3
Glaucous-winged Gull	2	2	
Helmeted Guineafowl	2	2	1
Snowy Egret	2	8	2
Long-eared Owl	2	2	
Shorebird	2	2	
Mute Swan	2	2	
Swainson's Hawk	2	40	
Swallow	2	8	
Hummingbird	2	12	
Swamp Sparrow	2	2	
Northern Goshawk	2	2	
Heron	2	3	
Mallard/muscovy Hybrid	2	7	
Hermit Thrush	2	4	
Summer Tanager	2	2	
Grebe	2	501	
Wood Stork	2	23	1
Purple Finch	2	2	
Western Scrub-jay	2	4	
Green Heron	2	2	
Green Jay	2	3	
Ring-necked Pheasant	2	102	
Ross's Goose	2	6	
Rusty Blackbird	2	2	

Sanderling	2	3	
Brown Pelican	1	1	
Scarlet Tanager	1	1	
Semipalmated Sandpiper	1	1	
Carolina Chickadee	1	5	
Sharp-tailed Grouse	1	1	
Ring-necked Duck	1	1	
Short-billed Dowitcher	1	1	
Brown Thrasher	1		
Sandwich Tern	1	1	
Semipalmated Plover	1	1	
Baltimore Oriole	1	1	
Willet	1		1
White-tailed Kite	1	1	
White Ibis	1	1	
Warbler	1		
Varied Thrush	1		
Trumpeter Swan	1	3	
Tree Swallow	1	2	
Black-billed Cuckoo	1	1	
Towhee	1	1	
Snow Bunting	1		
Tennessee Warbler	1		
Bank Swallow	1	1	
Swainson's Thrush	1		
Common Ground-dove	1	2	
Black-bellied Whistling-duck	1	101	
Redhead	1	1	
Steller's Jay	1	1	
Snowy Plover	1		1
American Woodcock	1	1	
Grosbeak	1	1	
Common Crow	1	2	
Lapland Longspur	1	60	
Jay	1	1	
Eleanora's Falcon	1	20	
American Avocet	1	2	
Hooded Merganser	1	1	
Forster's Tern	1	2	
Fulvous Whistling-duck	1	1	
Lesser Scaup	1	4	
Glaucous Gull	1		

Lesser Yellowlegs	1	1	
Glossy Ibis	1	1	
Green-tailed Towhee	1	1	
Golden-crowned Sparrow	1	1	
Gray Catbird	1	1	
Gray Partridge	1	6	
Great Black-backed Gull	1	1	
Greater Prairie-chicken	1	3	
Greater Antillean Grackle	1	6	
Grouse	1	1	
Nighthawk	1	1	
Cinnamon Teal	1	1	
Plover	1	1	
Hybrid Goose	1	1	
Piping Plover	1	1	
Great Heron	1	1	
Ovenbird	1	1	
Common Moorhen	1	1	
Common Peafowl	1	2	
Eastern Phoebe	1	1	
Common Yellowthroat	1	1	
red-cockaded woodpecker	1	1	
Crested Caracara	1	1	
Mottled Duck	1	1	
dickcissel	1	9	
Mississippi Kite	1	14	3
Merlin	1	1	
Loon	1	35	
Long-billed Curlew	1	1	
Little Blue Heron	1	1	
Northern Saw-whet Owl	1	1	