

APPENDIX H: Accepted ECOTOX studies sorted by Effect

Table H-1. Freshwater and Marine fish data from ECOTOX. Data are arranged in alphabetical order by Effect Group. The code list for ECOTOX can be found at: <http://cfpub.epa.gov/ecotox/blackbox/help/codelist.pdf>

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Cyprinodon variegatus Sheepshead Minnow	BCM	BCM	MLDH	NOAEL		4	d	0.017496	mg/L	97.2	116333
Bifenthrin	Cyprinodon variegatus Sheepshead Minnow	BCM	ENZ	CTLS	NOAEL		4	d	0.017496	mg/L	97.2	116333
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	GLUC	LOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	ENZ	ASAT	LOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	AMMO	LOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	HMGL	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	PCLV	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	MCPV	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	MCHG	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	MCHC	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	PRTL	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	ALBM	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	GLOB	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	TRIG	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	ENZ	LADH	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	ENZ	GGTR	NOAEL		4	d	0.00575	mg/L	10	156441

Table H-1: Freshwater and Marine Fish Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	MGCO	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	ENZ	AATT	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	ENZ	CRKI	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	LACT	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	ENZ	ALPH	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	CACO	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	BCM	BCM	PCON	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	MCPV	LOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	MCHG	LOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	GLUC	LOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	ENZ	LADH	LOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	ENZ	CRKI	LOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	AMMO	LOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	ENZ	ALPH	LOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	HMGL	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	PCLV	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	MCHC	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	ALBM	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	TRIG	NOAEL		4	d	0.00147	mg/L	10	156655

Table H-1: Freshwater and Marine Fish Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	ENZ	ASAT	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	GRO	ENZ	AATT	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	ENZ	GGTR	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	CACO	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	MGCO	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	PCON	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	PRTL	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	GLOB	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	BCM	BCM	LACT	NOAEL		4	d	0.00147	mg/L	10	156655
cis-Bifenthrin	Danio rerio Zebra Danio	BEH	BEH	ACTV	LOAEL		0.875	d	0.04975	mg/L	99.5	120563
cis-Bifenthrin	Danio rerio Zebra Danio	BEH	~BEH	SWIM	LOAEL		3.875	d	0.04975	mg/L	99.5	120563
cis-Bifenthrin	Danio rerio Zebra Danio	BEH	~BEH	SWIM	NOAEL	LOAEL	4.875	d	0.04975	mg/L	99.5	120563
Bifenthrin	Pimephales promelas Fathead Minnow	BEH	BEH	SWIM	LOAEL		1	d	0.00003	mg/L	7.9	156434
Bifenthrin	Pimephales promelas Fathead Minnow	BEH	BEH	SWIM	NOAEL	LOAEL	1	d	0.00007	mg/L	99	155999
Bifenthrin	Pimephales promelas Fathead Minnow	BEH	BEH	SWIM	NOAEL	LOAEL	1	d	0.00007	mg/L	99	156434
Bifenthrin	Alburnus alburnus Bleak	CEL	CEL	RBCE	LOAEL		7	d	4.9375E-05	ml/L	7.9	156440
Bifenthrin	Carassius auratus ssp. gibelio Carp	CEL	CEL	RBCE	NOAEL	LOAEL	7	d	4.9375E-05	ml/L	7.9	156440
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	MONO	LOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	MONO	LOAEL		4	d	0.00575	mg/L	10	156441

Table H-1: Freshwater and Marine Fish Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	LEUK	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	RBCE	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	LEUK	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	LMPH	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	LMPH	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	NEUT	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	NEUT	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	NEUT	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	NEUT	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	CEL	CEL	LEUK	NOAEL		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	CEL	HIS	DEGN,VCLZ	NOAEL		4	d	0.00575	mg/L	10	156441
cis-Bifenthrin	Danio rerio Zebra Danio	CEL	HIS	EDMA	EC50		3.875	d	0.25472	mg/L	99.5	120563
cis-Bifenthrin	Danio rerio Zebra Danio	CEL	GEN	VT1M	LOAEL		2.875	d	0.14925	mg/L	99.5	120563
cis-Bifenthrin	Danio rerio Zebra Danio	CEL	GEN	VT1M	LOAEL		3.875	d	0.14925	mg/L	99.5	120563
Bifenthrin	Danio rerio Zebra Danio	CEL	HIS	EDMA	NOAEL	LOAEL	6	dpf	0.0495	mg/L	99	119950
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	NEUT	LOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	NEUT	LOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	RBCE	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	LEUK	NOAEL		4	d	0.00147	mg/L	10	156655

Table H-1: Freshwater and Marine Fish Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	LMPH	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	MONO	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	MONO	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	NEUT	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	CCHG	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	LMPH	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	NEUT	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	CEL	CEL	CCHG	NOAEL		4	d	0.00147	mg/L	10	156655
Bifenthrin	Perca fluviatilis Perch	CEL	CEL	RBCE	LOAEL		7	d	4.9375E-05	ml/L	7.9	156440
Bifenthrin	Pimephales promelas Fathead Minnow	CEL	GEN	GEXP	LOEC		1	d	0.00007	mg/L	99	155999
cis-Bifenthrin	Danio rerio Zebra Danio	GRO	DVP	ABNM	EC50		3.875	d	0.108455	mg/L	99.5	120563
cis-Bifenthrin	Danio rerio Zebra Danio	GRO	DVP	ABNM	EC50		2.875	d	0.283575	mg/L	99.5	120563
cis-Bifenthrin	Danio rerio Zebra Danio	GRO	DVP	ABNM	LOAEL		2.875	d	0.04975	mg/L	99.5	120563
cis-Bifenthrin	Danio rerio Zebra Danio	GRO	DVP	ABNM	LOAEL		3.875	d	0.04975	mg/L	99.5	120563
Bifenthrin	Pimephales promelas Fathead Minnow	GRO	~GRO	WGHT	NOAEL		7	d	0.00035	mg/L	99	156434
Bifenthrin	Pimephales promelas Fathead Minnow	GRO	~GRO	WGHT	NOAEL		7	d	0.00016	mg/L	7.9	156434
Bifenthrin	Cyprinodon variegatus Sheepshead Minnow	MOR	MOR	MORT	LC50		4	d	0.01925143	mg/L	97.2	116333
Bifenthrin	Cyprinodon variegatus Sheepshead Minnow	MOR	MOR	MORT	MATC		4	d	0.01086696	mg/L	97.2	116333
Bifenthrin	Cyprinodon variegatus Sheepshead Minnow	MOR	MOR	MORT	NOEC	LOEC	4	d	0.00486	mg/L	97.2	116333

Table H-1: Freshwater and Marine Fish Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC0		1	d	0.005	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC0		4	d	0.0025	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC0		3	d	0.0025	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC0		2	d		mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC100		3	d		mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC100		4	d		mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC100		1	d		mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC100		2	d		mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC50		2	d	0.0075	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC50		4	d	0.00575	mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC50		1	d		mg/L	10	156441
Bifenthrin	Cyprinus carpio Common Carp	MOR	MOR	MORT	LC50		3	d		mg/L	10	156441
cis-Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	HTCH	ET50			d	0.14925	mg/L	99.5	120563
Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	MORT	LC50		6	dpf	0.1881	mg/L	99	119950
Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	MORT	LC50		1	d	0.0065	mg/L	90	151326
Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	MORT	LC50		2	d	0.0039	mg/L	90	151326
Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	MORT	LC50		3	d	0.0034	mg/L	90	151326
Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	MORT	LC50		4	d	0.0032	mg/L	90	151326
Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	MORT	LC95		4	d	0.0128	mg/L	90	151326

Table H-1: Freshwater and Marine Fish Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	MORT	LC95		3	d	0.0182	mg/L	90	151326
Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	MORT	LC95		2	d	0.0191	mg/L	90	151326
Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	MORT	LC95		1	d	0.0319	mg/L	90	151326
cis-Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	HTCH	LOAEL		1.9583	d	0.04975	mg/L	99.5	120563
Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	MORT	NOAEL	LOAEL	6	dpf	0.297	mg/L	99	119950
cis-Bifenthrin	Danio rerio Zebra Danio	MOR	MOR	MORT	NR-ZERO		3.875	d	0.0995	mg/L	99.5	120563
Bifenthrin	Dorosomace pedianum Gizzard Shad	MOR	MOR	MORT	LC50		8	d	0.000521	mg/L	24	7251
Bifenthrin	Dorosomace pedianum Gizzard Shad	MOR	MOR	MORT	LC50		8	d	0.000207	mg/L	24	7251
Bifenthrin	Dorosomace pedianum Gizzard Shad	MOR	MOR	MORT	LC50		8	d	0.000521	mg/L	100	18313
Bifenthrin	Dorosomace pedianum Gizzard Shad	MOR	MOR	MORT	LC50		8	d	0.000207	mg/L	100	18313
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	MOR	MOR	MORT	LC0		4	d	0.00104	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	MOR	MOR	MORT	LC100		4	d	0.00209	mg/L	10	156655
Bifenthrin	Oncorhynchus mykiss Rainbow Trout	MOR	MOR	MORT	LC50		4	d	0.00147	mg/L	10	156655
Bifenthrin	Oryzias latipes Japanese Medaka	MOR	MOR	MORT	NR-ZERO		10	d	0.00000995	mg/L	99.5	115542
Bifenthrin	Pimephales promelas Fathead Minnow	MOR	MOR	MORT	LC10		1	d	0.00092	mg/L	99	156434
Bifenthrin	Pimephales promelas Fathead Minnow	MOR	MOR	MORT	LC10		1	d	0.00299	mg/L	7.9	156434
Bifenthrin	Pimephales promelas Fathead Minnow	MOR	MOR	MORT	LC50		1	d	0.0019	mg/L	99	156434
Bifenthrin	Pimephales promelas Fathead Minnow	MOR	MOR	MORT	LC50		1	d	0.00485	mg/L	7.9	156434
Bifenthrin	Pimephales promelas Fathead Minnow	MOR	MOR	MORT	NOEC	LOEC	1	d	0.003	mg/L	7.9	156434

Table H-1: Freshwater and Marine Fish Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Pimephales promelas Fathead Minnow	MOR	MOR	MORT	NOEC	LOEC	1	d	0.0005	mg/L	99	156434
Bifenthrin	Carassius auratus ssp. gibelio Carp	PHY	PHY	OXYG	NOAEL	LOAEL	14	d	0.00009875	ml/L	7.9	156440
Bifenthrin	Danio rerio Zebra Danio	PHY	INJ	CURV	LOAEL		6	dpf	0.0495	mg/L	99	119950
Bifenthrin	Danio rerio Zebra Danio	PHY	ITX	CONV	LOEL		3.875	d	0.099	mg/L	99	119950

Table H-2. Freshwater and Marine invertebrate data from ECOTOX. Data are arranged in alphabetical order by Effect Group. The code list for ECOTOX can be found at: <http://cfpub.epa.gov/ecotox/blackbox/help/codelist.pdf>.

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Hyalella azteca Scud	ACC	ACC	RSDE	BCF			d	0.0000065	mg/L	99	156712
Bifenthrin	Corbicula amurensis Asiatic Clam	BCM	BCM	VITE	NOAEL	LOAEL	1	d	0.002	mg/L	100	115651
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	BCM	ENZ	CTLS	NOAEL		4	d	0.00015552	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	BCM	BCM	MLDH	NOAEL		4	d	0.00015552	mg/L	97.2	116333
Bifenthrin	Daphnia magna Water Flea	BEH	BEH	SWIM	EC50		1	d	0.0031752	mg/L	98	120298
Bifenthrin	Daphnia magna Water Flea	BEH	BEH	ACTV	EC50		1	d	0.0031752	mg/L	98	81338
Bifenthrin	Culex quinquefasciatus Southern House Mosquito	GRO	MOR	MORT	LC50			em	0.009	mg/L	93.7	62487
cis-Bifenthrin	Daphnia magna Water Flea	GRO	GRO	LGTH	NOAEL		21	d	0.0000398	mg/L	99.5	156442

Table H-2: Freshwater and Marine Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Daphnia magna Water Flea	GRO	GRO	LGTH	NOAEL	LOAEL	21	d	0.000245	mg/L	98	81338
Bifenthrin	Daphnia magna Water Flea	GRO	GRO	LGTH	NOEC	LOEC	21	d	0.0000196	mg/L	98	81338
Bifenthrin	Aedes aegypti Yellow Fever Mosquito	MOR	MOR	HTCH	NR-LETH		1	d	0.04	AI %	8	81447
Bifenthrin	Aedes albopictus Mosquito	MOR	MOR	MORT	LC50		1	d	0.0052	mg/L	93.7	16077
Bifenthrin	Anopheles sinensis Mosquito	MOR	MOR	MORT	LC50		1	d	0.009	mg/L	93	156571
Bifenthrin	Anopheles sinensis Mosquito	MOR	MOR	MORT	LC90		1	d	0.1	mg/L	93	156571
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.000076788	mg/L	97.2	81339
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.000139968	mg/L	97.2	81339
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.000049	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.0000588	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00011858	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00017248	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00011074	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00009408	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00007546	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.000147	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00004802	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00027538	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00003626	mg/L	98	109530

Table H-2: Freshwater and Marine Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00004998	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00010486	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.000098	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.0000735	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00025284	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	LC50		4	d	0.00012446	mg/L	98	109530
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	NR-LETH		2	d	0.0003	mg/L	100	99604
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	NR-LETH		2	d	0.0003	mg/L	100	99604
Bifenthrin	Ceriodaphnia dubia Water Flea	MOR	MOR	MORT	NR-LETH		2	d	0.0003	mg/L	100	99604
Bifenthrin	Chironomus tentans Midge	MOR	MOR	MORT	LC50		10	d	0.000258	mg/L	98	110374
Bifenthrin	Chironomus tentans Midge	MOR	MOR	MORT	LC50		10	d	0.000608	mg/L	98	110374
Bifenthrin	Chironomus tentans Midge	MOR	MOR	MORT	LC50		10	d	0.000314	mg/L	98	110374
Bifenthrin	Chironomus tentans Midge	MOR	MOR	MORT	LC50		10	d	0.000402	mg/L	98	110374
Bifenthrin	Chironomus tentans Midge	MOR	MOR	MORT	LC50		4	d	0.02615	mg/L	100	90039
Bifenthrin	Culex pipiens ssp. quinquefasciata Mosquito	MOR	MOR	MORT	LC50		1	d	0.0051844	mg/L	99.7	100122
Bifenthrin	Culex pipiens ssp. quinquefasciata Mosquito	MOR	MOR	MORT	LC50		1	d	0.0034895	mg/L	99.7	100122
Bifenthrin	Culex quinquefasciatus Southern House Mosquito	MOR	MOR	MORT	LC50		1	d	0.0021	mg/L	100	11492
Bifenthrin	Culex quinquefasciatus Southern House Mosquito	MOR	MOR	MORT	LC50		1	d	0.00452	mg/L	90.4	66182

Table H-2: Freshwater and Marine Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Culex quinquefasciatus Southern House Mosquito	MOR	MOR	MORT	LC50		1	d	0.16272	mg/L	90.4	66182
Bifenthrin	Culex quinquefasciatus Southern House Mosquito	MOR	MOR	MORT	LC90			em	0.021	mg/L	93.7	62487
Bifenthrin	Culex pipiens ssp. pallens Mosquito	MOR	MOR	MORT	LC50		1	d	0.0000016	mg/L	100	61915
Bifenthrin	Culex pipiens ssp. pallens Mosquito	MOR	MOR	MORT	LC90		1	d	0.0000078	mg/L	100	61915
cis-Bifenthrin	Daphnia magna Water Flea	MOR	MOR	LFSP	EC50		21	d	0.000030845	mg/L	99.5	156442
Bifenthrin	Daphnia magna Water Flea	MOR	MOR	SURV	IC25		70	d	0.00022	mg/L	100	156445
Bifenthrin	Daphnia magna Water Flea	MOR	MOR	SURV	IC50		70	d	0.00055	mg/L	100	156445
Bifenthrin	Daphnia magna Water Flea	MOR	MOR	MORT	LC50		2	d	0.00086	mg/L	100	156445
Bifenthrin	Daphnia magna Water Flea	MOR	MOR	MORT	LC50		4	d	0.001372	mg/L	98	81338
Bifenthrin	Daphnia magna Water Flea	MOR	MOR	MORT	LC50		2	d	0.012152	mg/L	98	81338
cis-Bifenthrin	Daphnia magna Water Flea	MOR	MOR	LFSP	LOAEL		21	d	0.0000199	mg/L	99.5	156442
Bifenthrin	Daphnia magna Water Flea	MOR	MOR	SURV	LOAEL		70	d	0.00069	mg/L	100	156445
cis-Bifenthrin	Daphnia magna Water Flea	MOR	MOR	LFSP	NOAEL		21	d	0.00000995	mg/L	99.5	156442
Bifenthrin	Daphnia magna Water Flea	MOR	MOR	SURV	NOAEL		70	d	0.00034	mg/L	100	156445
Bifenthrin	Daphnia magna Water Flea	MOR	MOR	SURV	NOAEL	LOAEL	21	d	0.000735	mg/L	98	81338
Bifenthrin	Daphnia magna Water Flea	MOR	MOR	SURV	NOEC		21	d	0.00049	mg/L	98	81338
cis-Bifenthrin	Daphnia magna Water Flea	MOR	MOR	MORT	NR-LETH		4.7	d	0.0000796	mg/L	99.5	156442
Bifenthrin	Hyalella azteca Scud	MOR	MOR	MORT	LC50		4	d	0.0000233	mg/L	99	156712
Bifenthrin	Hyalella azteca Scud	MOR	MOR	MORT	LC50		4	d	0.0000093	mg/L	100	90039

Table H-2: Freshwater and Marine Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Hyalella azteca Scud	MOR	MOR	MORT	LR50		4	d	0.00003	mmol/kg	99	156712
Bifenthrin	Hyalella azteca Scud	MOR	MOR	MORT	LR50		4	d	0.0115	mmol/kg	99	156712
Bifenthrin	Hyalella azteca Scud	MOR	MOR	MORT	LR50		4	d	0.000065	mmol/kg	99	156712
Bifenthrin	Hyalella azteca Scud	MOR	MOR	MORT	NR-LETH		4	d	0.00006	mg/L	100	99604
Bifenthrin	Hyalella azteca Scud	MOR	MOR	MORT	NR-LETH		4	d	0.00006	mg/L	100	99604
Bifenthrin	Hydrophilus sp. Black Beetle	MOR	MOR	MORT	LC50		1	d	0.0054	mg/L	94	9304
Bifenthrin	Hydropsychidae Caddisfly Family	MOR	MOR	MORT	LC50		1	d	0.0072	mg/L	94	9304
Bifenthrin	Odonata Dragonfly Order	MOR	MOR	MORT	LC50		1	d	0.0011	mg/L	94	9304
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	LC10		1	d	0.000027	mg/L	99.7	156443
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	LC10		4	d	0.000008	mg/L	99.7	156443
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	LC50		1	d	0.000049	mg/L	99.7	156443
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	LC50		4	d	0.000019	mg/L	99.7	156443
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	LC50		1	d	0.00020412	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	LC50		1	d	0.000329508	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	LC50		4	d	0.00001944	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	LC50		4	d	0.000012636	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	LOEC		1	d	0.00005	mg/L	99.7	156443

Table H-2: Freshwater and Marine Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	LOEC		4	d	0.000025	mg/L	99.7	156443
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	MATC		1	d	0.000035	mg/L	99.7	156443
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	MATC		4	d	0.000018	mg/L	99.7	156443
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	MATC		4	d	0.000017496	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	MATC		4	d	0.000008748	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	MATC		1	d	0.000344088	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	MATC		1	d	0.000085536	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	NOEC		1	d	0.000025	mg/L	99.7	156443
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	NOEC		4	d	0.0000125	mg/L	99.7	156443
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	NOEC	LOEC	1	d	0.000243	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	NOEC	LOEC	4	d	0.00001215	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	NOEC	LOEC	4	d	0.000006075	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	NOEC	LOEC	1	d	0.00006075	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	NR-LETH		1	d	0.000972	mg/L	97.2	116333
Bifenthrin	Palaemonetes pugio Daggerblade Grass Shrimp	MOR	MOR	MORT	NR-LETH		1	d	0.0000486	mg/L	97.2	116333

Table H-2: Freshwater and Marine Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Proclotron sp. Mayfly	MOR	MOR	MORT	LC50		2	d	0.0000843	mg/L	100	90039
cis-Bifenthrin	Daphnia magna Water Flea	POP	POP	IRIN	LOAEL		21	d	0.0000199	mg/L	99.5	156442
Bifenthrin	Daphnia magna Water Flea	POP	POP	IRIN	LOAEL		21	d	0.000245	mg/L	98	81338
cis-Bifenthrin	Daphnia magna Water Flea	POP	POP	IRIN	NOAEL		21	d	0.00000995	mg/L	99.5	156442
Bifenthrin	Daphnia magna Water Flea	POP	POP	IRIN	NOAEL		21	d	0.000098	mg/L	98	81338
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	EC50		21	d	0.000018905	mg/L	99.5	156442
Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	IC25		70	d	0.00037	mg/L	100	156445
Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	IC50		70	d	0.00049	mg/L	100	156445
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	TFPG	LOAEL		21	d	0.0000398	mg/L	99.5	156442
Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	LOAEL		70	d	0.00069	mg/L	100	156445
Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	LOAEL		70	d	0.00069	mg/L	100	156445
Bifenthrin	Daphnia magna Water Flea	REP	REP	FCND	LOAEL		21	d	0.000049	mg/L	98	81338
Bifenthrin	Daphnia magna Water Flea	REP	REP	TFPG	LOAEL		21	d	0.000098	mg/L	98	81338
Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	LOAEL		21	d	0.000098	mg/L	98	81338
Bifenthrin	Daphnia magna Water Flea	REP	REP	TFPG	LOAEL		21	d	0.00049	mg/L	98	81338
Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	LOAEL		21	d	0.000245	mg/L	98	81338
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	LOEC		21	d	0.0000199	mg/L	99.5	156442
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	LOEC		21	d	0.0000199	mg/L	99.5	156442
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	LOEC		21	d	0.0000199	mg/L	99.5	156442

Table H-2: Freshwater and Marine Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	MATC		21	d	0.00001393	mg/L	99.5	156442
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	MATC		21	d	0.00001393	mg/L	99.5	156442
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	MATC		21	d	0.00001393	mg/L	99.5	156442
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	TFPG	NOAEL		21	d	0.0000199	mg/L	99.5	156442
Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	NOAEL		70	d	0.00034	mg/L	100	156445
Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	NOAEL		70	d	0.00034	mg/L	100	156445
Bifenthrin	Daphnia magna Water Flea	REP	REP	TFPG	NOAEL		21	d	0.000098	mg/L	98	81338
Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	NOAEL		21	d	0.00049	mg/L	98	81338
Bifenthrin	Daphnia magna Water Flea	REP	REP	TFPG	NOAEL		21	d	0.000245	mg/L	98	81338
Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	NOAEL		21	d	0.000098	mg/L	98	81338
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	NOEC		21	d	0.00000995	mg/L	99.5	156442
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	NOEC		21	d	0.00000995	mg/L	99.5	156442
cis-Bifenthrin	Daphnia magna Water Flea	REP	REP	PROG	NOEC		21	d	0.00000995	mg/L	99.5	156442
Bifenthrin	Daphnia magna Water Flea	REP	REP	FCND	NOEC	LOEC	21	d	0.00000392	mg/L	98	81338

Table H-3. Plant and Fungi data from ECOTOX. Data are arranged in alphabetical order by Effect Group. The code list for ECOTOX can be found at: <http://cfpub.epa.gov/ecotox/blackbox/help/codelist.pdf>.

Table H-3: Plant and Fungi Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Brassica napus Colza	BCM	BCM	OLCO	NOAEL		56	d	0.04	Al lb/acre	100	73097
Bifenthrin	Brassica napus Colza	BCM	BCM	OLCO	NOAEL		72	d	0.08	Al lb/acre	100	73097
Bifenthrin	Brassica nigra Black Mustard	BCM	BCM	OLCO	NOEL		60.88	d	0.04014	lb/acre	100	63601
Bifenthrin	Gerbera jamesonii Transvaal Daisy	BCM	BCM	CHLO	NOAEL		56	d	1080	ppm	100	86883
Bifenthrin	Hordeum vulgare Barley	BCM	BCM	WTCO	NOAEL			hv	0.025	Al lb/acre	100	88845
Bifenthrin	Abelmoschus esculentus Okra	GRO	MPH	WGHT	NOAEL			hv	0.005	%	100	87464
Bifenthrin	Abelmoschus esculentus Okra	GRO	MPH	WGHT	NOAEL			hv	0.005	%	100	87464
Bifenthrin	Brassica napus Colza	GRO	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	155334
Bifenthrin	Brassica nigra Black Mustard	GRO	MPH	WGHT	LOEL		60.88	d	0.04014	lb/acre	100	63601
Bifenthrin	Brassica oleracea ssp. italica Broccoli	GRO	GRO	WGHT	NOAEL			hv	0.08	Al lb/acre	10	92323
Bifenthrin	Citrus sinensis Orange	GRO	GRO	WGHT	NOAEL		154	d	0.54	g/m2	100	156605
Bifenthrin	Citrus sinensis Orange	GRO	GRO	WGHT	NOAEL		154	d	0.54	g/m2	100	156605
Bifenthrin	Cynodon dactylon Bermudagrass	GRO	GRO	HGHT	NOAEL		17	d	0.12	Al lb/acre	100	90192
Bifenthrin	Gerbera jamesonii Transvaal Daisy	GRO	DVP	TFLW	NOAEL	LOAEL	56	d	270	ppm	100	86883
Bifenthrin	Gerbera jamesonii Transvaal Daisy	GRO	GRO	WGHT	NOAEL		56	d	1080	ppm	100	86883
Bifenthrin	Gerbera jamesonii Transvaal Daisy	GRO	MPH	AREA	NOAEL		56	d	1080	ppm	100	86883
Bifenthrin	Gossypium hirsutum Cotton	GRO	GRO	GGRO	NOAEL			hv	0.04	Al lb/acre	100	88773
Bifenthrin	Hordeum vulgare Barley	GRO	MPH	SHPE	NOAEL			hv	0.025	Al lb/acre	100	88845
Bifenthrin	Hordeum vulgare Barley	GRO	MPH	SHPE	NOAEL			hv	0.025	Al lb/acre	100	88845

Table H-3: Plant and Fungi Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Ipomoea batatas Sweet Potato	GRO	GRO	WGHT	NOAEL		210	d	0.1	L/ha	10	156732
Bifenthrin	Zea mays Corn	GRO	GRO	BMAS	NOAEL	LOAEL	42	d	10	ppm	100	152310
Bifenthrin	Zea mays Corn	GRO	GRO	BMAS	NOAEL		42	d	25	ppm	100	152310
Bifenthrin	Cucumis melo Honeydew	PHY	PHY	WILT	NOAEL		89	d	0.04	lb/acre	100	105074
Bifenthrin	Dendrobium sp. Orchid	PHY	INJ	DAMG	NOAEL		91.32	d	479.305708	ppm	100	102694
Bifenthrin	Dendrobium sp. Orchid	PHY	INJ	DAMG	NOAEL		91.32	d	479.305708	ppm	100	102694
Bifenthrin	Dendrobium sp. Orchid	PHY	INJ	DAMG	NOAEL		91.32	d	479.305708	ppm	100	102694
Bifenthrin	Gerbera jamesonii Transvaal Daisy	PHY	PHY	PSYN	NOAEL		56	d	1080	ppm	100	86883
Bifenthrin	Gerbera jamesonii Transvaal Daisy	PHY	INJ	GINJ	NOAEL		56	d	1080	ppm	100	86883
Bifenthrin	Veronia galamensis Ironweed	PHY	INJ	GINJ	NOAEL		34	d	1.99808	lb/acre	100	73987
Bifenthrin	Zea mays Corn	PHY	INJ	DAMG	NOEL		26	d	0.06	Al lb/acre	100	79275
Bifenthrin	AlliumcepaCommon Onion	POP	POP	BMAS	NOAEL			hv	0.1	Al lb/acre	100	88723
Bifenthrin	Arachis hypogaea Peanut	POP	POP	BMAS	NOEL			hv	0.02	Al lb/acre	100	79285
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL		37	d	0.04	Al lb/acre	100	151454
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL		71	d	0.04	Al lb/acre	100	155234
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL		71	d	0.04	Al lb/acre	100	155234
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL		71	d	0.04	Al lb/acre	100	155234
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL		71	d	0.04	Al lb/acre	100	155234
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	106191

Table H-3: Plant and Fungi Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	2	155336
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	2	155337
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	155338
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL		82	d	0.04	Al lb/acre	2	156649
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL		65	d	0.04	Al lb/acre	100	96173
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL		56	d	0.04	Al lb/acre	100	73097
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL		72	d	0.08	Al lb/acre	100	73097
Bifenthrin	Brassica napus Colza	POP	POP	BMAS	NOAEL		44	d	0.04	ai oz/acre	100	151453
Bifenthrin	Brassica nigra Black Mustard	POP	POP	BMAS	NOEL		60.88	d	0.04014	lb/acre	100	63601
Bifenthrin	Brassica oleracea Cabbage	POP	POP	BMAS	NOAEL		37	d	0.08	Al lb/acre	10	82736
Bifenthrin	Brassica oleracea ssp. italica Broccoli	POP	POP	BMAS	NOAEL			hv	0.08	Al lb/acre	10	92323
Bifenthrin	Brassica rapa var. rapa Turnip	POP	POP	BMAS	NOAEL			hv	0.025	Al lb/acre	100	88850
Bifenthrin	Cajanus cajan Pigeonpea	POP	POP	ABND	NOAEL		120	d	0.0712	lb/acre	100	100338
Bifenthrin	Cucumis melo Honeydew	POP	POP	BMAS	NOAEL			hv	0.08	Al lb/acre	100	97787
Bifenthrin	Cucumis melo Honeydew	POP	POP	BMAS	NOAEL		97	d	0.04	lb/acre	100	105074
Bifenthrin	Cucurbitapepo var. ovifera Field Pumpkin	POP	POP	BMAS	NOAEL			hv	0.0534	lb/acre	100	156493
Bifenthrin	Cucurbitapepo var. ovifera Field Pumpkin	POP	POP	BMAS	NOAEL			hv	0.0534	lb/acre	100	156493
Bifenthrin	Fungi Fungi Kingdom	POP	POP	ABND	LOAEL		60	d	7.9	ml/8.5 L	100	156704
Bifenthrin	Fungi Fungi Kingdom	POP	POP	ABND	NOAEL		60	d	7.9	ml/8.5 L	100	156704

Table H-3: Plant and Fungi Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Glomussp.Mycorrhizae Fungi	POP	POP	ABND	NOAEL		42	d	25	ppm	100	152310
Bifenthrin	Glycine max Soybean	POP	POP	BMAS	NOAEL		38	d	0.03	Al lb/acre	100	110060
Bifenthrin	Glycine max Soybean	POP	POP	BMAS	NOAEL		38	d	0.04	Al lb/acre	100	110060
Bifenthrin	Glycine max Soybean	POP	POP	BMAS	NOAEL		38	d	0.04	Al lb/acre	100	110060
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	LOEL			hv	0.099904	lb/acre	100	81336
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	154719
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	88773
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOAEL			hv	0.05	Al lb/acre	100	154721
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOAEL		82	d	0.05	Al lb/acre	100	154722
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOAEL			hv	0.05	Al lb/acre	100	154720
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOAEL			hv	0.05	Al lb/acre	100	103831
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOAEL		97	d	0.05	Al lb/acre	100	155315
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOAEL			hv	0.08	Al lb/acre	100	154730
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOAEL		124	d	0.1	Al lb/acre	100	97788
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOAEL			hv	0.5	Al lb/acre	100	154718
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOEL			hv	0.0534	lb/acre	100	81334
Bifenthrin	Gossypium hirsutum Cotton	POP	POP	BMAS	NOEL			hv	0.0534	lb/acre	100	81334
Bifenthrin	Hordeum vulgare Barley	POP	POP	BMAS	NOAEL			hv	0.025	Al lb/acre	100	88845
Bifenthrin	Ipomoea batatas Sweet Potato	POP	POP	ABND	NOAEL		210	d	0.1	L/ha	10	156732

Table H-3: Plant and Fungi Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Medicago sativa Alfalfa	POP	POP	BMAS	NOAEL		49	d	0.1	Al lb/acre	2	150705
Bifenthrin	Medicago sativa Alfalfa	POP	POP	BMAS	NOEL			hv	0.03	Al lb/acre	100	79777
Bifenthrin	Nicotiana tabacum Tobacco	POP	POP	BMAS	NOAEL			hv		lb/acre	100	153291
Bifenthrin	Nicotiana tabacum Tobacco	POP	POP	BMAS	NOAEL			hv		lb/acre	100	153291
Bifenthrin	Nicotiana tabacum Tobacco	POP	POP	BMAS	NOAEL			hv		lb/acre	100	153291
Bifenthrin	Phaseolus vulgaris Bean	POP	POP	BMAS	NOAEL		49	d	0.025	Al lb/acre	2	107205
Bifenthrin	Phaseolus vulgaris Bean	POP	POP	BMAS	NOAEL		17	d	0.04	Al lb/acre	100	153381
Bifenthrin	Phaseolus vulgaris Bean	POP	POP	BMAS	NOAEL		16	d	0.04	Al lb/acre	100	153489
Bifenthrin	Phaseolus vulgaris Bean	POP	POP	BMAS	NOAEL		43	d	0.03204	lb/acre	100	81364
Bifenthrin	Phaseolus vulgaris Bean	POP	POP	BMAS	NOAEL		46	d	0.03204	lb/acre	100	81364
Bifenthrin	Pisum sativum Pea	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	150663
Bifenthrin	Pisum sativum Pea	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	97677
Bifenthrin	Solanum lycopersicum lycopersicum Tomato	POP	POP	BMAS	NOAEL		95	d	0.1	Al lb/acre	10	98097
Bifenthrin	Solanum melongena Aubergine	POP	POP	ABND	LOEL		84	d	0.000001	%	0.01	81332
Bifenthrin	Solanum tuberosum Potato	POP	POP	BMAS	NOAEL			hv	0.025	Al lb/acre	100	88871
Bifenthrin	Solanum tuberosum Potato	POP	POP	BMAS	NOAEL		187	d	0.04	Al lb/acre	100	154747
Bifenthrin	Solanum tuberosum Potato	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	154748
Bifenthrin	Solanum tuberosum Potato	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	155166
Bifenthrin	Solanum tuberosum Potato	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	97784

Table H-3: Plant and Fungi Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Triticum aestivum Bread Wheat	POP	POP	BMAS	NOAEL			hv	0.03	Al lb/acre	2	88698
Bifenthrin	Triticum aestivum Bread Wheat	POP	POP	BMAS	NOAEL			hv	0.03	Al lb/acre	100	88699
Bifenthrin	Triticum aestivum Bread Wheat	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	87875
Bifenthrin	Vigna unguiculata Black-Eyed Pea	POP	POP	BMAS	NOAEL			hv	0.0267	lb/acre	100	155382
Bifenthrin	Vigna unguiculata Black-Eyed Pea	POP	POP	BMAS	NOAEL			hv	0.0267	lb/acre	100	155382
Bifenthrin	Vigna unguiculata Black-Eyed Pea	POP	POP	BMAS	NOAEL			hv	0.0267	lb/acre	100	155382
Bifenthrin	Zea mays Corn	POP	POP	ABND	NOAEL		1	gs	0.023	Al lb/acre	0.2	121335
Bifenthrin	Zea mays Corn	POP	POP	BMAS	NOAEL			hv	0.04	Al lb/acre	100	96170
Bifenthrin	Zea mays Corn	POP	POP	BMAS	NOAEL		152	d	0.06	Al lb/acre	2	102135
Bifenthrin	Zea mays Corn	POP	POP	BMAS	NOAEL			hv	0.08	Al lb/acre	100	155340
Bifenthrin	Zea mays Corn	POP	POP	BMAS	NOAEL			hv	0.08	Al lb/acre	100	156612
Bifenthrin	Zea mays Corn	POP	POP	BMAS	NOAEL			hv	0.08	Al lb/acre	100	156612
Bifenthrin	Zea mays Corn	POP	POP	BMAS	NOAEL			hv	0.08	Al lb/acre	100	156612
Bifenthrin	Zea mays Corn	POP	POP	BMAS	NOAEL			hv	0.08	Al lb/acre	100	156614
Bifenthrin	Zea mays Corn	POP	POP	BMAS	NOAEL			hv	0.08	Al lb/acre	100	156614
Bifenthrin	Zea mays Corn	POP	POP	BMAS	NOAEL			hv	0.08	Al lb/acre	100	156614
Bifenthrin	Cynodon dactylon Bermudagrass	REP	REP	INFL	NOAEL		17	d	0.12	Al lb/acre	100	90192
Bifenthrin	Gerbera jamesonii Transvaal Daisy	REP	REP	INFL	NOAEL		56	d	1080	ppm	100	86883
Bifenthrin	Phaseolus vulgaris Bean	REP	REP	TPRD	NOAEL		34	d	0.03	Al lb/acre	100	121210

Table H-3: Plant and Fungi Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Solanum melongena Aubergine	REP	REP	FRUT	NOAEL		28	d	0.0534	lb/acre	100	156562
Bifenthrin	Solanum melongena Aubergine	REP	REP	FRUT	NOAEL		49	d	0.0534	lb/acre	100	156562
Bifenthrin	Solanum melongena Aubergine	REP	REP	FRUT	NOAEL		49	d	0.0534	lb/acre	100	156562
Bifenthrin	Solanum melongena Aubergine	REP	REP	FRUT	NOAEL		49	d	0.0534	lb/acre	100	156562
Bifenthrin	Zea mays Corn	REP	REP	SEED	NOAEL		19	d	0.04	Al lb/acre	10	154851

Table H-4 . Avian data from ECOTOX. Data are arranged in alphabetical order by Effect Group. The code list for ECOTOX can be found at: <http://cfpub.epa.gov/ecotox/blackbox/help/codelist.pdf>.

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Gallus domesticus Domestic Chicken	BCM	BCM	HMGL	NOEL		7	d	100	ppm	100	81436
Bifenthrin	Gallus domesticus Domestic Chicken	BCM	ENZ	GOTR	NOEL		7	d	100	ppm	100	81436
Bifenthrin	Gallus domesticus Domestic Chicken	BCM	BCM	HMGL	NOEL		30	d	50	ppm	100	81436
Bifenthrin	Gallus domesticus Domestic Chicken	CEL	CEL	RBCE	NOEL		7	d	100	ppm	100	81436
Bifenthrin	Gallus domesticus Domestic Chicken	CEL	CEL	RBCE	NOEL		30	d	50	ppm	100	81436

Table H-5. Mammal data from ECOTOX. Data are arranged in alphabetical order by Effect Group. The code list for ECOTOX can be found at: <http://cfpub.epa.gov/ecotox/blackbox/help/codelist.pdf>.

Table H-5: Mammalian Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCPV	LOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCPV	LOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCPV	LOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	PCLV	LOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	PCLV	LOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	PCLV	LOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	PCLV	LOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCHC	LOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCHC	LOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCHC	LOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCHG	LOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCHG	LOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCHG	LOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCPV	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	HMGL	NOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	HMGL	NOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	HMGL	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	HMGL	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	ALBM	NOAEL		28	d	2.42	ppm	2.5	81426

Table H-5: Mammalian Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Mus musculus House Mouse	BCM	BCM	ALGL	NOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	ALGL	NOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	ALGL	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	ALGL	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	GLOB	NOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	GLOB	NOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	GLOB	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	GLOB	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	ALBM	NOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	ALBM	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	ALBM	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	PRCO	NOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	PRCO	NOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	PRCO	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	PRCO	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCHC	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	BCM	BCM	MCHG	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Oryctola guscuniculus European Rabbit	BCM	BCM	HMGL	LOEL		15	d	6	ppm	100	81435
Bifenthrin	Oryctola guscuniculus European Rabbit	BCM	ENZ	URSE	LOEL		15	d	6	ppm	100	81435

Table H-5: Mammalian Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Rattus norvegicus Norway Rat	BCM	HRM	TRII	LOAEL		21	d	0.05	mg/org	10	81333
Bifenthrin	Rattus norvegicus Norway Rat	BCM	HRM	THYR	LOAEL		21	d	0.05	mg/org	10	81333
Bifenthrin	Rattus norvegicus Norway Rat	BCM	ENZ	CP1A	LOAEL		5	d	1.7	mg/kg bdwt	100	120914
Bifenthrin	Rattus norvegicus Norway Rat	BCM	HRM	TSHT	LOEL		21	d	0.005	mg	10	81333
Bifenthrin	Rattus norvegicus Norway Rat	BEH	BEH	NMVM	ED30		0.0833	d	2.8569	mg/kg bdwt	89	83149
Bifenthrin	Rattus norvegicus Norway Rat	BEH	BEH	ACTV	ED50		0.2083	d	0.2	mg/kg bdwt	89	156512
Bifenthrin	Rattus norvegicus Norway Rat	BEH	BEH	ACTV	ED50		0.3333	d	6	mg/kg bdwt	89	156512
Bifenthrin	Rattus norvegicus Norway Rat	BEH	BEH	ACTV	ER50		0.3333	d	0.0158	mg/kg bdwt	89	156512
Bifenthrin	Rattus norvegicus Norway Rat	BEH	BEH	ACTV	ER50		0.2083	d	0.0785	mg/kg bdwt	89	156512
Bifenthrin	Rattus norvegicus Norway Rat	BEH	BEH	GPST	LOAEL		0.3333	d	40	mg/kg bdwt	100	119956
Bifenthrin	Rattus norvegicus Norway Rat	BEH	BEH	GPST	NOAEL		0.3333	d	55	mg/kg bdwt	100	119956
Bifenthrin	Rattus norvegicus Norway Rat	BEH	BEH	CRDN	NOAEL		0.3333	d	55	mg/kg bdwt	100	119956
Bifenthrin	Rattus norvegicus Norway Rat	BEH	BEH	SRED	NOAEL		0.3333	d	55	mg/kg bdwt	100	119956
Bifenthrin	Rattus norvegicus Norway Rat	BEH	BEH	NMVM	NOEL		0.0833	d	1.1392	mg/kg bdwt	89	83149
Bifenthrin	Mus musculus House Mouse	CEL	CEL	LEUK	LOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	CEL	CEL	LEUK	LOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	CEL	HIS	LESI	LOAEL			d	600	ppm	100	81335
Bifenthrin	Mus musculus House Mouse	CEL	CEL	LEUK	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	CEL	CEL	LEUK	NOAEL		7	d	2.42	ppm	2.5	81426

Table H-5: Mammalian Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Mus musculus House Mouse	CEL	CEL	RBCE	NOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	CEL	CEL	RBCE	NOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	CEL	CEL	RBCE	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	CEL	CEL	RBCE	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	CEL	HIS	LESI	NOAEL			d	500	ppm	100	81335
Bifenthrin	Oryctola guscuniculus European Rabbit	CEL	CEL	RBCE	LOEL		15	d	6	ppm	100	81435
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	LOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	LOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	LOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		28	d	2.42	ppm	2.5	81426

Table H-5: Mammalian Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	MPH	WGHT	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	GRO	WGHT	NOAEL		21	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	GRO	WGHT	NOAEL		14	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	GRO	WGHT	NOAEL		7	d	2.42	ppm	2.5	81426
Bifenthrin	Mus musculus House Mouse	GRO	GRO	WGHT	NOAEL		28	d	2.42	ppm	2.5	81426
Bifenthrin	Rattus norvegicus Norway Rat	GRO	MPH	WGHT	LOAEL		7	d	13.5	mg/kg bdwt	100	116324
Bifenthrin	Rattus norvegicus Norway Rat	GRO	MPH	WGHT	LOAEL		7	d	13.5	mg/kg bdwt	100	116324
Bifenthrin	Rattus norvegicus Norway Rat	GRO	MPH	WGHT	LOAEL		7	d	13.5	mg/kg bdwt	100	116324
Bifenthrin	Rattus norvegicus Norway Rat	GRO	MPH	WGHT	LOAEL		7	d	13.5	mg/kg bdwt	100	116324
Bifenthrin	Rattus norvegicus Norway Rat	GRO	MPH	WGHT	LOAEL		7	d	13.5	mg/kg bdwt	100	116324
Bifenthrin	Rattus norvegicus Norway Rat	GRO	GRO	WGHT	LOEL		21	d	0.005	mg	10	81333
Bifenthrin	Rattus norvegicus Norway Rat	GRO	GRO	WGHT	NOAEL		0.3333	d	55	mg/kg bdwt	100	119956
Bifenthrin	Rattus norvegicus Norway Rat	MOR	MOR	MORT	NR-ZERO		2	d	12	mg/kg bdwt	89	116332
Bifenthrin	Rattus norvegicus Norway Rat	MOR	MOR	MORT	NR-ZERO		2	d	12	mg/kg bdwt	89	116332
Bifenthrin	Rattus norvegicus Norway Rat	MOR	MOR	MORT	NR-ZERO		7	d	13.5	mg/kg bdwt	100	116324
Bifenthrin	Rattus norvegicus Norway Rat	MOR	MOR	MORT	NR-ZERO		2	d	16	mg/kg bdwt	89	116332

Table H-5: Mammalian Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Rattus norvegicus Norway Rat	MOR	MOR	MORT	NR-ZERO		2	d	20	mg/kg bdwt	89	116332
Bifenthrin	Rattus norvegicus Norway Rat	MOR	MOR	MORT	NR-ZERO		2	d	20	mg/kg bdwt	89	116332
Bifenthrin	Rattus norvegicus Norway Rat	MOR	MOR	MORT	NR-ZERO		2	d	20	mg/kg bdwt	89	116332
Bifenthrin	Rattus norvegicus Norway Rat	MOR	MOR	MORT	NR-ZERO		2	d	20	mg/kg bdwt	89	116332
Bifenthrin	Rattus norvegicus Norway Rat	MOR	MOR	MORT	NR-ZERO		2	d	26	mg/kg bdwt	89	116332
Bifenthrin	Rattus norvegicus Norway Rat	PHY	PHY	BTMP	LOAEL		0.3333	d	40	mg/kg bdwt	100	119956
Bifenthrin	Rattus norvegicus Norway Rat	PHY	ITX	IMBL	LOAEL		0.3333	d	55	mg/kg bdwt	100	119956
Bifenthrin	Rattus norvegicus Norway Rat	PHY	ITX	IMBL	NOAEL		0.3333	d	40	mg/kg bdwt	100	119956

Table H-6. Terrestrial Invertebrate data from ECOTOX. Data are arranged in alphabetical order by Effect Group. The code list for ECOTOX can be found at: <http://cfpub.epa.gov/ecotox/blackbox/help/codelist.pdf>.

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	BCM	ENZ	LADH	LOAEL		2	d	100	ppm	100	156657
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	BCM	BCM	GLUC	LOAEL		2	d	100	ppm	100	156657
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	BCM	BCM	GLYC	LOAEL		2	d	100	ppm	100	156657
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	BCM	ENZ	ALPH	LOAEL		2	d	100	ppm	100	156657
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	BCM	ENZ	MLTS	LOAEL		2	d	10	ppm	100	156651
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	BCM	BCM	TFAA	LOAEL		2	d	10	ppm	100	156651

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	BCM	ENZ	ACPH	LOAEL		2	d	10	ppm	100	156651
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	BCM	BCM	GLYC	LOAEL		2	d	10	ppm	100	156651
Bifenthrin	Diabrotica virgifera ssp. virgifera Western Corn Rootworm	BEH	FDB	FDNG	LOAEL		0.0104	d	0.83	mg/ml	99	71181
Bifenthrin	Diabrotica virgifera ssp. virgifera Western Corn Rootworm	BEH	FDB	FDNG	LOAEL		0.0208	d	0.83	mg/ml	99	71181
Bifenthrin	Diabrotica virgifera ssp. virgifera Western Corn Rootworm	BEH	FDB	FCNS	LOAEL		0.25	d	0.83	mg/ml	99	71181
Bifenthrin	Diaprepes abbreviatus Root Weevil	BEH	FDB	FCNS	NOAEL		3	d	100	ppm	100	121370
Bifenthrin	Encarsia pergandiella Parasitic Wasp	BEH	AVO	CHEM	LOAEL		16	d	48	ppm	100	156650
Bifenthrin	Encarsia pergandiella Parasitic Wasp	BEH	AVO	CHEM	LOAEL		16	d	12	ppm	100	156650
Bifenthrin	Malacosoma americanum Eastern Tent Caterpillar	BEH	AVO	CHEM	NOAEL		0.125	d	80000	ppm	100	156608
Bifenthrin	Meloidogyne incognita Root-Knot Nematode	BEH	BEH	PNPY	LOEL		0.1667	d	10	ppm	100	81337
Bifenthrin	Meloidogyne incognita Root-Knot Nematode	BEH	BEH	PNPY	LOEL		0.125	d	50	ppm	100	81337
Bifenthrin	Orchidophilus aterrimus Orchid Weevil	BEH	FDB	FCNS	LOAEL		5	d	200	ppm	100	156585
Bifenthrin	Orchidophilus aterrimus Orchid Weevil	BEH	FDB	FCNS	LOAEL		2	d	200	ppm	100	156585
Bifenthrin	Popillia japonica Japanese Beetle	BEH	AVO	FOOD	LOAEL		0.5833	d	0.234	ml/L	23.4	119926
Bifenthrin	Popillia japonica Japanese Beetle	BEH	AVO	FOOD	LOAEL		0.5833	d	0.13351	ml/L	7.9	119926
Bifenthrin	Popillia japonica Japanese Beetle	BEH	FDB	FCNS	LOAEL		0.75	d	0.234	ml/L	23.4	119926
Bifenthrin	Popillia japonica Japanese Beetle	BEH	FDB	FCNS	LOAEL		0.25	d	0.234	ml/L	23.4	119926

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Popillia japonica Japanese Beetle	BEH	FDB	FCNS	LOAEL		0.75	d	0.13351	ml/L	7.9	119926
Bifenthrin	Popillia japonica Japanese Beetle	BEH	FDB	FCNS	LOAEL		0.25	d	0.13351	ml/L	7.9	119926
Bifenthrin	Rhyzopertha dominica Lesser Grain Borer	BEH	FDB	FCNS	LOAEL		30	d	0.4	ppm	100	87665
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	BEH	BEH	DIGG	LOAEL		1	d	0.00792	ppm	99	99827
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	BEH	BEH	DIGG	LOAEL		1	d	0.792	ppm	99	99827
Bifenthrin	Spodoptera exigua Beet Armyworm	BEH	FDB	FCNS	LOAEL		1	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera exigua Beet Armyworm	BEH	FDB	FCNS	LOAEL		1	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera exigua Beet Armyworm	BEH	FDB	FCNS	LOAEL		1	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera exigua Beet Armyworm	BEH	FDB	FCNS	LOAEL		1	d	0.005	AI %	25.1	66667
Bifenthrin	Technomyrmex albipes White Footed Ant	BEH	FDB	FDNG	NOAEL		49	d	600	ppm	100	115774
Bifenthrin	Trichoplusia ni Cabbage Looper	BEH	FDB	FCNS	LOAEL		1	d	30	ppm	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	BEH	FDB	FCNS	LOAEL		1	d	0.03	ug/cm2	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	BEH	FDB	FCNS	LOAEL		1	d	0.03	ug/cm2	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	BEH	FDB	FCNS	LOAEL		1	d	0.03	ug/cm2	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	BEH	FDB	FCNS	LOAEL		3	d	30	ppm	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	BEH	FDB	FCNS	LOAEL		3	d	0.03	ug/cm2	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	BEH	FDB	FCNS	LOAEL		1	d	30	ppm	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	BEH	FDB	FCNS	LOAEL		3	d	0.03	ug/cm2	100	113275
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	CEL	GEN	DNAC	LOAEL		2	d	100	ppm	100	156657

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	CEL	GEN	DNAC	NOAEL		2	d	200	ppm	100	156657
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	CEL	GEN	DNAC	NOAEL		2	d	20	ppm	100	156651
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	CEL	GEN	RNAC	NOAEL	LOAEL	2	d	10	ppm	100	156651
Bifenthrin	Aphidius rhopalosiphi Parasitic Wasp	GRO	DVP	EMRG	NOAEL			d	7.5	AI g/ha	100	110131
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	GRO	DVP	DVLP	LOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	GRO	DVP	DVLP	LOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	GRO	GRO	WGHT	LOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	GRO	DVP	DVLP	LOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	GRO	GRO	WGHT	NOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	GRO	GRO	WGHT	NOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Encarsia pergandiella Parasitic Wasp	GRO	DVP	EMRG	LOAEL		14	d	200	ppm	100	156650
Bifenthrin	Encarsia pergandiella Parasitic Wasp	GRO	DVP	EMRG	LOAEL		14	d	200	ppm	100	156650
Bifenthrin	Encarsia pergandiella Parasitic Wasp	GRO	DVP	EMRG	LOAEL		21	d	200	ppm	100	156650
Bifenthrin	Encarsia pergandiella Parasitic Wasp	GRO	DVP	EMRG	LOAEL		14	d	200	ppm	100	156650
Bifenthrin	Eretmocerus mundus Parasitic Wasp	GRO	DVP	EMRG	LOAEL			em	20	ppm	100	107124
Bifenthrin	Eretmocerus mundus Parasitic Wasp	GRO	DVP	EMRG	LOAEL			em	20	ppm	100	107124
Bifenthrin	Eretmocerus tejanus Parasitoid Chalcid	GRO	DVP	EMRG	LOAEL			em	20	ppm	100	107124

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Eretmocerus tejanus Parasitoid Chalcid	GRO	DVP	EMRG	LOAEL			em	20	ppm	100	107124
Bifenthrin	Harmonia axyridis Asian Lady Beetle	GRO	DVP	EMRG	LOAEL			d	0.045	Al kg/ha	100	156619
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	GRO	DVP	EMRG	LOAEL			em	17.14	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	GRO	DVP	EMRG	LOAEL			em	17.14	ppm	100	156656
Bifenthrin	Nephaspis oculatus Ladybird Beetle	GRO	DVP	EMRG	LOAEL			em	48	ppm	100	51585
Bifenthrin	Thyridopteryx ephemeriformis Bagworm	GRO	GRO	WGHT	LOAEL		4	d	75	ppm	100	156552
Bifenthrin	Thyridopteryx ephemeriformis Bagworm	GRO	GRO	WGHT	LOAEL		8	d	75	ppm	100	156552
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	GRO	GRO	WGHT	LOAEL		2	d	100	ppm	100	156657
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	GRO	GRO	WGHT	NOAEL	LOAEL	2	d	100	ppm	100	156657
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	GRO	GRO	WGHT	NOAEL		2	d	20	ppm	100	156651
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	GRO	GRO	WGHT	NOAEL	LOAEL	2	d	10	ppm	100	156651
Bifenthrin	Tuta absoluta Tomato Leaf Miner	GRO	MOR	MORT	LC50		2	d	99.97	ppm	100	156584
Bifenthrin	Aedes aegypti Yellow Fever Mosquito	MOR	MOR	MORT	NR-LETH		1	d	118	mg/m2	12.5	74330
Bifenthrin	Aedes aegypti Yellow Fever Mosquito	MOR	MOR	MORT	NR-LETH		7	d	8.86	ug/cm2	100	116099
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	LOAEL		5	d	0.04	oz/1000 ft2	100	121305
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	LOAEL		5	d	0.005	oz/1000 ft2	10	121305
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	SURV	LOAEL		3	d	0.1	Al lb/acre	10	156580
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	SURV	LOAEL		5	d	0.1	Al lb/acre	10	156581

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	LOAEL		3	d	0.1	Al lb/acre	10	156586
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	LOAEL		1	d	0.1	Al lb/acre	10	156588
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	LOAEL		1	d	0.1	Al lb/acre	10	156557
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	LOAEL		5	d	0.06	oz/1000 ft2	100	121305
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	SURV	LOAEL		3	d	0.09	Al lb/acre	100	156524
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	SURV	LOAEL		3	d	0.09	Al lb/acre	100	156524
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	NR-LETH		5	d	0.08	oz/1000 ft2	100	121305
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	NR-LETH		5	d	0.005	oz/1000 ft2	10	121305
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	NR-LETH		3	d	0.1	Al lb/acre	10	156580
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	NR-LETH		5	d	0.1	Al lb/acre	10	156581
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	NR-LETH		5	d	0.1	Al lb/acre	10	156586
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	NR-LETH		3	d	0.1	Al lb/acre	10	156588
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	NR-LETH		3	d	0.1	Al lb/acre	10	156557
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	NR-LETH		5	d	0.06	oz/1000 ft2	100	121305
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	NR-LETH		3	d	0.09	Al lb/acre	100	156524
Bifenthrin	Agrotis ipsilon Cutworm	MOR	MOR	MORT	NR-LETH		3	d	0.09	Al lb/acre	100	156524
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	LOAEL		1	d	0.79	ml/92.9 m2	7.9	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	LOAEL		0.1667	d	0.79	ml/92.9 m2	7.9	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	LOAEL		1	d	2.3	ml/92.9 m2	10	117717

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	LOAEL		0.1667	d	2.3	ml/92.9 m2	10	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	LOAEL		0.1667	d	2.3	ml/92.9 m2	10	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	LOAEL		1	d	0.79	ml/92.9 m2	7.9	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	LOAEL		0.1667	d	0.79	ml/92.9 m2	7.9	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	LOAEL		1	d	2.3	ml/92.9 m2	10	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	LOAEL		0.1667	d	2.3	ml/92.9 m2	10	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	LOAEL		1	d	0.79	ml/92.9 m2	7.9	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	LOAEL		0.1667	d	0.79	ml/92.9 m2	7.9	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	LOAEL		1	d	2.3	ml/92.9 m2	10	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	LOAEL		0.1667	d	2.3	ml/92.9 m2	10	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	LOAEL		1	d	0.79	ml/92.9 m2	7.9	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	LOAEL		1	d	2.3	ml/92.9 m2	10	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	LOAEL		0.1667	d	2.3	ml/92.9 m2	10	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	LOAEL		1	d	0.79	ml/92.9 m2	7.9	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	LOAEL		0.1667	d	0.79	ml/92.9 m2	7.9	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	LOAEL		1	d	2.3	ml/92.9 m2	10	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	LOAEL		0.1667	d	2.3	ml/92.9 m2	10	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	NOAEL		1	d	0.79	ml/92.9 m2	7.9	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	NOAEL		0.1667	d	0.79	ml/92.9 m2	7.9	117717

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	MORT	NOAEL		1	d	2.3	ml/92.9 m2	10	117717
Bifenthrin	Alphitobius diaperinus Lesser Mealworm	MOR	MOR	TKNO	NOAEL		0.1667	d	0.79	ml/92.9 m2	7.9	117717
Bifenthrin	Anthonomus grandis ssp. grandis Boll Weevil	MOR	MOR	MORT	LD50		2	d	0.03	ug/org	100	154612
Bifenthrin	Anthonomus grandis ssp. grandis Boll Weevil	MOR	MOR	MORT	LD50		7	d	0.02	ug/org	100	154612
Bifenthrin	Anthonomus grandis ssp. grandis Boll Weevil	MOR	MOR	MORT	LD50		2	d	0.07	ug/org	100	154612
Bifenthrin	Anthonomus grandis ssp. grandis Boll Weevil	MOR	MOR	MORT	LD50		7	d	0.05	ug/org	100	154612
Bifenthrin	Anthonomus grandis ssp. grandis Boll Weevil	MOR	MOR	MORT	NR-LETH		2	d	112	Al g/ha	100	156558
Bifenthrin	Anthonomus grandis ssp. grandis Boll Weevil	MOR	MOR	MORT	NR-LETH		3	d	112	Al g/ha	100	156558
Bifenthrin	Anthonomus grandis ssp. grandis Boll Weevil	MOR	MOR	MORT	NR-LETH		2	d	112	Al g/ha	100	156558
Bifenthrin	Anthonomus grandis ssp. grandis Boll Weevil	MOR	MOR	MORT	NR-LETH		2	d	112	Al g/ha	100	156558
Bifenthrin	Aphelinus semiflavus Parasitic Wasp	MOR	MOR	MORT	NR-LETH		0.5	d	2000	ppm	100	156539
Bifenthrin	Aphidius rhopalosiphi Parasitic Wasp	MOR	MOR	SURV	NOAEL			d	7.5	Al g/ha	100	110131
Bifenthrin	Aphidius rhopalosiphi Parasitic Wasp	MOR	MOR	MORT	NR-LETH		1	d	7.5	Al g/ha	100	110131
Bifenthrin	Aphidius rhopalosiphi Parasitic Wasp	MOR	MOR	MORT	NR-LETH		1	d	7.5	Al g/ha	100	110131
Bifenthrin	Aphytis melinus Red Scale Parasite	MOR	MOR	MORT	LC50		2	d	0.49	ppm	10	59334
Bifenthrin	Aphytis melinus Red Scale Parasite	MOR	MOR	MORT	LC50		2	d	0.001	ppm	100	108456
Bifenthrin	Apis mellifera Honey Bee	MOR	MOR	TKNO	ED50		1.0104	d	1650.24	ppm	7.9	156510

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Apis mellifera Honey Bee	MOR	MOR	TKNO	ED50		1.0208	d	47.93	ppm	7.9	156510
Bifenthrin	Apis mellifera Honey Bee	MOR	MOR	TKNO	ED50		1.0417	d	4.8	ppm	7.9	156510
Bifenthrin	Apis mellifera Honey Bee	MOR	MOR	TKNO	ED50		2	d	0.42	ppm	7.9	156510
Bifenthrin	Apis mellifera Honey Bee	MOR	MOR	MORT	LD50		1	d	34	ppm	100	63845
Bifenthrin	Apis mellifera Honey Bee	MOR	MOR	MORT	LOAEL		2	d	0.056	AI kg/ha	10	99620
Bifenthrin	Apis mellifera Honey Bee	MOR	MOR	MORT	LOAEL		2	d	0.056	AI kg/ha	100	99620
Bifenthrin	Apis mellifera Honey Bee	MOR	MOR	MORT	NOAEL		2	d	0.056	AI kg/ha	100	99620
Bifenthrin	Apis mellifera Honey Bee	MOR	MOR	MORT	NR-ZERO		1.0104	d	2.3305	ml/L	7.9	156510
Bifenthrin	Apis mellifera Honey Bee	MOR	MOR	MORT	NR-ZERO		1.0417	d	2.3305	ml/L	7.9	156510
Bifenthrin	Apis mellifera Honey Bee	MOR	MOR	MORT	NR-ZERO		1.0208	d	2.3305	ml/L	7.9	156510
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	MOR	MOR	MORT	LC5		2	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	MOR	MOR	MORT	LC50		2	d	16.7	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	MOR	MOR	HTCH	LOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	MOR	MOR	HTCH	NOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	MOR	MOR	HTCH	NOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	800	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	800	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	800	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	800	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	200	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	800	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	800	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	800	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	800	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	600	ppm	100	81336

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	1000	ppm	100	81336
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	MOR	MOR	MORT	LC50		1	d	400	ppm	100	81336
Bifenthrin	Bombus terrestris Buff Tailed Bumblebee	MOR	MOR	MORT	LC50		3	d	0.36	ppm	100	156528
Bifenthrin	Bombus terrestris Buff Tailed Bumblebee	MOR	MOR	MORT	NOEC	LOEC	3	d	0.03	ppm	100	156528
Bifenthrin	Bombus terrestris Buff Tailed Bumblebee	MOR	MOR	MORT	NR-LETH		77	d	30	ppm	100	156528
Bifenthrin	Bombyx mori Silkworm	MOR	MOR	MORT	LC50		1	d	0.09	ppm	90	114962
Bifenthrin	Bombyx mori Silkworm	MOR	MOR	MORT	LC50		2	d	0.06	ppm	90	114962
Bifenthrin	Bombyx mori Silkworm	MOR	MOR	MORT	LC95		1	d	0.29	ppm	90	114962
Bifenthrin	Bombyx mori Silkworm	MOR	MOR	MORT	LC95		2	d	0.09	ppm	90	114962
Bifenthrin	Cardiochiles nigriceps Braconid Wasp	MOR	MOR	MORT	NR-LETH		1	d	0.084	AI kg/ha	100	155866
Bifenthrin	Cardiochiles nigriceps Braconid Wasp	MOR	MOR	MORT	NR-LETH		1	d	0.084	AI kg/ha	100	155866
Bifenthrin	Cardiochiles nigriceps Braconid Wasp	MOR	MOR	MORT	NR-LETH		1	d	0.084	AI kg/ha	100	93416
Bifenthrin	Cardiochiles nigriceps Braconid Wasp	MOR	MOR	MORT	NR-LETH		1	d	0.084	AI kg/ha	100	93416
Bifenthrin	Chilo suppressalis Striped Riceborer	MOR	MOR	MORT	LD50		2	d	0.00475	ug/org	95	109085
Bifenthrin	Chilo suppressalis Striped Riceborer	MOR	MOR	MORT	LD50		2	d	0.001805	ug/org	95	109085
Bifenthrin	Chilo suppressalis Striped Riceborer	MOR	MOR	MORT	LD50		2	d	0.00304	ug/org	95	109085
Bifenthrin	Choristoneura rosaceana Oblique Banded Leaf Roller	MOR	MOR	MORT	LC50		5	d	3.06	ppm	100	70966
Bifenthrin	Choristoneura rosaceana Oblique Banded Leaf Roller	MOR	MOR	MORT	LC50		5	d	0.45	ppm	100	70966
Bifenthrin	Choristoneura rosaceana Oblique	MOR	MOR	MORT	LC90		5	d	9.24	ppm	100	70966

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
	Banded Leaf Roller											
Bifenthrin	Choristoneura rosaceana Oblique Banded Leaf Roller	MOR	MOR	MORT	LC90		5	d	1.03	ppm	100	70966
Bifenthrin	Conotrachelus nenuphar Plum Curculio	MOR	MOR	MORT	LOAEL		1	d	112	AI mg/ha	100	156707
Bifenthrin	Culex quinquefasciatus Southern House Mosquito	MOR	MOR	MORT	NR-LETH		1	d	118	mg/m2	12.5	74330
Bifenthrin	Culex quinquefasciatus Southern House Mosquito	MOR	MOR	MORT	NR-LETH		1	d	0.7663	ml/L	7.9	156510
Bifenthrin	Cydia pomonella Coddling Moth	MOR	MOR	MORT	LC50		4	d	2.54	ppm	100	156602
Bifenthrin	Cydia pomonella Coddling Moth	MOR	MOR	MORT	LC50		4	d	0.306	ppm	100	156602
Bifenthrin	Cydia pomonella Coddling Moth	MOR	MOR	MORT	LC50		4	d	0.043	ppm	100	156602
Bifenthrin	Cylas formicarius Sweetpotato Weevil	MOR	MOR	MORT	LC50		1	d	0.51	ug/eu	98	88219
Bifenthrin	Cylas formicarius Sweetpotato Weevil	MOR	MOR	MORT	LC50		1	d	0.22	ug/eu	98	88219
Bifenthrin	Cylas formicarius Sweetpotato Weevil	MOR	MOR	MORT	LC90		1	d	2.28	ug/eu	98	88219
Bifenthrin	Cylas formicarius Sweetpotato Weevil	MOR	MOR	MORT	LC90		1	d	0.56	ug/eu	98	88219
Bifenthrin	Diabrotica virgifera ssp. virgifera Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.87	ng/mg bdwt	91.3	156572
Bifenthrin	Diabrotica virgifera ssp. virgifera Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.99	ng/mg bdwt	91.3	156572
Bifenthrin	Diabrotica virgifera ssp. virgifera Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.27	ng/mg bdwt	91.3	156572
Bifenthrin	Diabrotica virgifera ssp. virgifera Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.44	ng/mg bdwt	91.3	156572
Bifenthrin	Diabrotica virgifera ssp. virgifera Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.34	ng/mg bdwt	91.3	156572

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.55	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.81	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.42	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.39	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.65	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.71	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.37	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD50		1	d	0.24	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	2.65	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	2.07	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	0.7	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	1.07	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	0.78	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	1.14	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	1.49	ng/mg bdwt	91.3	156572

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	0.86	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	1.04	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	1.55	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	1.81	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	1	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	MOR	MOR	MORT	LD90		1	d	0.76	ng/mg bdwt	91.3	156572
Bifenthrin	<i>Diaeretiella rapae</i> Parasitoid Wasp	MOR	MOR	MORT	NOAEL	LOAEL	0.5	d	400	ppm	100	156539
Bifenthrin	<i>Diaeretiella rapae</i> Parasitoid Wasp	MOR	MOR	MORT	NR-LETH		0.5	d	50000	ppm	100	156539
Bifenthrin	<i>Diaprepes abbreviatus</i> Root Weevil	MOR	MOR	MORT	LC50		3	d	20	ppm	25.1	121370
Bifenthrin	<i>Diaprepes abbreviatus</i> Root Weevil	MOR	MOR	MORT	LC50		3	d	15	ppm	25.1	121370
Bifenthrin	<i>Diaprepes abbreviatus</i> Root Weevil	MOR	MOR	SURV	LOAEL		7	d	0.276	AI kg/ha	100	156605
Bifenthrin	<i>Diaprepes abbreviatus</i> Root Weevil	MOR	MOR	SURV	LOAEL		3	d	0.54	g/m2	100	156605
Bifenthrin	<i>Diaprepes abbreviatus</i> Root Weevil	MOR	MOR	SURV	LOAEL		3	d	0.56	AI kg/ha	100	156605
Bifenthrin	<i>Diaprepes abbreviatus</i> Root Weevil	MOR	MOR	MORT	NR-LETH		3	d	25.1	ppm	25.1	121370
Bifenthrin	<i>Diaprepes abbreviatus</i> Root Weevil	MOR	MOR	MORT	NR-LETH		3	d	25.1	ppm	25.1	121370
Bifenthrin	<i>Earias vittella</i> Rough Bollworm	MOR	MOR	MORT	LC50		2	d	0.024	ppm	100	156518
Bifenthrin	<i>Earias vittella</i> Rough Bollworm	MOR	MOR	MORT	LC50		2	d	0.27	ppm	100	156518

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC50		2	d	0.44	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC50		2	d	1.18	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC50		2	d	4.6	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC50		2	d	6.57	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC50		2	d	5.87	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC50		2	d	7.42	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC50		2	d	8	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC90		2	d	0.11	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC90		2	d	0.96	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC90		2	d	3.13	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC90		2	d	5.75	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC90		2	d	17.5	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC90		2	d	33.1	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC90		2	d	32.5	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC90		2	d	42.7	ppm	100	156518
Bifenthrin	Earias vittella Rough Bollworm	MOR	MOR	MORT	LC90		2	d	52.1	ppm	100	156518
Bifenthrin	Encarsia formosa Parasitic Wasp	MOR	MOR	MORT	LC50		2	d	0.015	ppm	100	108456
Bifenthrin	Encarsia formosa Parasitic Wasp	MOR	MOR	SURV	LOAEL		2	d	0.09	AI kg/ha	100	112076
Bifenthrin	Encarsia formosa Parasitic Wasp	MOR	MOR	MORT	NR-LETH		4	d	0.09	AI kg/ha	100	112076

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Encarsia pergandiella Parasitic Wasp	MOR	MOR	MORT	LOAEL		0.1667	d	48	ppm	100	156650
Bifenthrin	Encarsia pergandiella Parasitic Wasp	MOR	MOR	MORT	LOAEL		1	d	48	ppm	100	156650
Bifenthrin	Encarsia pergandiella Parasitic Wasp	MOR	MOR	MORT	LOAEL		1	d	48	ppm	100	156650
Bifenthrin	Encarsia pergandiella Parasitic Wasp	MOR	MOR	MORT	LOAEL		1	d	48	ppm	100	156650
Bifenthrin	Encarsia pergandiella Parasitic Wasp	MOR	MOR	SURV	LOAEL		2	d	0.09	AI kg/ha	100	112076
Bifenthrin	Encarsia pergandiella Parasitic Wasp	MOR	MOR	MORT	NR-LETH		1	d	48	ppm	100	156650
Bifenthrin	Encarsia pergandiella Parasitic Wasp	MOR	MOR	MORT	NR-LETH		1	d	48	ppm	100	156650
Bifenthrin	Encarsia pergandiella Parasitic Wasp	MOR	MOR	MORT	NR-LETH		2	d	0.09	AI kg/ha	100	112076
Bifenthrin	Eretmocerus mundus Parasitic Wasp	MOR	MOR	SURV	LOAEL		2	d	0.09	AI kg/ha	100	112076
Bifenthrin	Eretmocerus sp. Parasitic Wasp	MOR	MOR	SURV	LOAEL		2	d	0.09	AI kg/ha	100	112076
Bifenthrin	Eretmocerus sp. Parasitic Wasp	MOR	MOR	MORT	NR-LETH		4	d	0.09	AI kg/ha	100	112076
Bifenthrin	Eretmocerus eremicus Chalcid Wasp	MOR	MOR	MORT	LC50		2	d	0.011	ppm	100	108456
Bifenthrin	Gonatocerus ashmeadi Chalcid Wasp	MOR	MOR	MORT	LC50		2	d	0.01	ppm	100	108456
Bifenthrin	Harmonia axyridis Asian Lady Beetle	MOR	MOR	SURV	LOAEL			d	0.045	AI kg/ha	100	156619
Bifenthrin	Harmonia axyridis Asian Lady Beetle	MOR	MOR	SURV	LOAEL			d	0.045	AI kg/ha	100	156619
Bifenthrin	Harmonia axyridis Asian Lady Beetle	MOR	MOR	SURV	LOAEL			d	0.045	AI kg/ha	100	156619
Bifenthrin	Harmonia axyridis Asian Lady Beetle	MOR	MOR	HTCH	LOAEL			d	0.045	AI kg/ha	100	156619
Bifenthrin	Harmonia axyridis Asian Lady Beetle	MOR	MOR	MORT	NR-LETH		0.33	d	0.045	AI kg/ha	100	156619
Bifenthrin	Harmonia axyridis Asian Lady Beetle	MOR	MOR	MORT	NR-LETH		0.33	d	0.045	AI kg/ha	100	156619

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Harmonia axyridis Asian Lady Beetle	MOR	MOR	MORT	NR-LETH		0.33	d	0.045	AI kg/ha	100	156619
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	20.5	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	8.68	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	6.37	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	16.6	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	11.2	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	34.8	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	6.38	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	2.64	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	38.4	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	31.4	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50			d	0.00166	%	10	154623
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	0.91	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	2.6	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	6.4	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	8.3	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	6.6	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	2	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	17	ppm	100	155003

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	12	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	6.5	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	3.6	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	0.67	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	3.2	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	14	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC50		2	d	8.9	ppm	100	155003
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC90		2	d	141	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC90		2	d	95	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC90		2	d	24	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC90		2	d	23.8	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC90		2	d	76.7	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC90		2	d	68.8	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC90		2	d	145	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC90		2	d	25.6	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC90		2	d	31.2	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC90		2	d	211	ppm	100	109371
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LC90			d	0.01981	%	10	154623
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LD50		2	d	0.031	ug/org	92	119665

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LD50		2	d	0.591	ug/org	92	119665
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LD50		2	d	0.36	ppm	95.05	119770
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LD50		2	d	12	ppm	95.05	119770
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LD50		2	d	0.45	ug/org	93.3	108057
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LD50		2	d	0.03	ug/org	93.3	108057
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LOAEL		1	d	247.1	Al g/ha	100	63369
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LOAEL		7	d	247.1	Al g/ha	100	63369
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LOAEL		1	d	247.1	Al g/ha	100	63369
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	LOAEL		1	d	247.1	Al g/ha	100	63369
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	NOAEL		1	d	247.1	Al g/ha	100	63369
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	NOAEL		1	d	247.1	Al g/ha	100	63369
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	NOAEL		7	d	247.1	Al g/ha	100	63369
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	NOAEL		7	d	247.1	Al g/ha	100	63369
Bifenthrin	Helicoverpa armigera Old World Bollworm	MOR	MOR	MORT	NOAEL		1	d	247.1	Al g/ha	100	63369
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LC50		2	d	0.13	ug/eu	95.9	154437
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LC50		1	d	0.17	ug/eu	95.9	154437
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LC50		2	d	1.25	ug/eu	95.9	154437
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LC50		1	d	1.54	ug/eu	95.9	154437
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LC90		2	d	0.38	ug/eu	95.9	154437

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LC90		1	d	0.51	ug/eu	95.9	154437
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LC90		2	d	5.8	ug/eu	95.9	154437
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LC90		1	d	3.01	ug/eu	95.9	154437
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LD50		2	d	3.67	ppm	94.7	156551
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LD50		2	d	2.32	ppm	94.7	156551
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LD50		2	d	5.22	ppm	94.7	156551
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LD50		2	d	2.1	ppm	94.7	156551
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LD50		2	d	2.82	ppm	94.7	156551
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LD50		2	d	0.17	ppm	94.7	156551
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LD50		2	d	0.28	ppm	94.7	156551
Bifenthrin	Helicoverpa zea Corn Earworm	MOR	MOR	MORT	LD50		2	d	1.03	ppm	94.7	156551
Bifenthrin	Heliothis virescens Budworm	MOR	MOR	MORT	LD50		1	d	0.66	ppm	100	111156
Bifenthrin	Heliothis virescens Budworm	MOR	MOR	MORT	LD50		2	d	15.75	ppm	100	91585
Bifenthrin	Heliothis virescens Budworm	MOR	MOR	MORT	LD50		2	d	1.321	ppm	100	91585
Bifenthrin	Heliothis virescens Budworm	MOR	MOR	MORT	LD90		2	d	60.107	ppm	100	91585
Bifenthrin	Heliothis virescens Budworm	MOR	MOR	MORT	LD90		2	d	2.143	ppm	100	91585
Bifenthrin	Heptageniidae Mayfly Family	MOR	MOR	MORT	LD50		1	d	0.22	AI ng/mg bdwt	94	9304
Bifenthrin	Hippodamia convergens Convergent Lady Beetle	MOR	MOR	MORT	LD50		1	d	6.5	AI ng/mg bdwt	94	9304

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Hydrophilus sp. Black Beetle	MOR	MOR	MORT	LD50		1	d	4	AI ng/mg bdwt	94	9304
Bifenthrin	Hydropsychidae Caddisfly Family	MOR	MOR	MORT	LD50		1	d	3.2	AI ng/mg bdwt	94	9304
Bifenthrin	Hylurgopinus rufipes Native Elm Bark Beetle	MOR	MOR	MORT	NR-LETH		2	d	0.06	AI %	100	156623
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC50		4	d	0.92	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC50		5	d	0.63	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC50		7	d	0.31	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC50		10	d	0.18	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC50		3	d	2.32	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC50		1	d	17.4	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC50		2	d	8.57	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC90		4	d	4.18	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC90		5	d	3.2	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC90		10	d	1.38	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC90		3	d	12.42	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC90		7	d	1.9	ppm	100	156656
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC90		1	d	118.1	ppm	100	156656

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Hypocryphalus mangiferae Mango Bark Beetle	MOR	MOR	MORT	LC90		2	d	95.12	ppm	100	156656
Bifenthrin	Linepithema humile Argentine Ant	MOR	MOR	SVVS	LT90		0.0229	d	0.1352875	ppm	7.9	87964
Bifenthrin	Linepithema humile Argentine Ant	MOR	MOR	SVVS	LT90		0.0236	d	0.1352875	ppm	7.9	87964
Bifenthrin	Linepithema humile Argentine Ant	MOR	MOR	SVVS	LT90		0.0069	d	1.0823	ppm	7.9	87964
Bifenthrin	Linepithema humile Argentine Ant	MOR	MOR	SVVS	LT90		0.0118	d	1.0823	ppm	7.9	87964
Bifenthrin	Linepithema humile Argentine Ant	MOR	MOR	SVVS	LT90		0.0069	d	0.270575	ppm	7.9	87964
Bifenthrin	Linepithema humile Argentine Ant	MOR	MOR	SVVS	LT90		0.016	d	0.270575	ppm	7.9	87964
Bifenthrin	Linepithema humile Argentine Ant	MOR	MOR	SVVS	LT90		0.0069	d	0.54115	ppm	7.9	87964
Bifenthrin	Linepithema humile Argentine Ant	MOR	MOR	SVVS	LT90		0.0104	d	0.54115	ppm	7.9	87964
Bifenthrin	Liriomyza trifolii Serpentine Leafminer	MOR	MOR	MORT	NOAEL	LOAEL	13	d	0.06	Al lb/acre	100	82728
Bifenthrin	Liriomyza trifolii Serpentine Leafminer	MOR	MOR	MORT	NOAEL			lvp	59.9132135	ppm	10	119452
Bifenthrin	Liriomyza trifolii Serpentine Leafminer	MOR	MOR	MORT	NOAEL		12	d	59.9132135	ppm	10	119452
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	87	ng/org	>95	152401
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	1.8	ng/org	>95	155217
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	11.04	ng/org	>95	155217
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	12.88	ng/org	>95	155217
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	28.71	ng/org	>95	155217
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	41.83	ng/org	>95	155217
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	43.05	ng/org	>95	155217

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	244.67	ng/org	>95	155217
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	71.1	ng/org	>95	155217
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	25.3	ng/org	>95	156577
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	87.1	ng/org	>95	156577
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	3.1	ng/org	>95	156577
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	LD50		1	d	638	ng/org	>95	156577
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	MOR	MOR	MORT	NOAEL		2	d	130	AI g/ha	100	152401
Bifenthrin	Lygus lineolaris Tarnished Plant Bug	MOR	MOR	MORT	LOAEL		1	d	0.15	AI lb/acre	100	156640
Bifenthrin	Lygus lineolaris Tarnished Plant Bug	MOR	MOR	MORT	LOAEL		1	d	0.1	AI lb/acre	10	156769
Bifenthrin	Lygus lineolaris Tarnished Plant Bug	MOR	MOR	MORT	NR-LETH		1	d	0.15	AI lb/acre	100	156640
Bifenthrin	Lygus lineolaris Tarnished Plant Bug	MOR	MOR	MORT	NR-LETH		1	d	0.2	AI lb/acre	10	156769
Bifenthrin	Lymantria dispar European Gypsy Moth	MOR	MOR	SURV	LOAEL		7	d	29.95660675	ppm	100	153431
Bifenthrin	Malacosoma americanum Eastern Tent Caterpillar	MOR	MOR	MORT	LOAEL		21	d	240000	ppm	100	156608
Bifenthrin	Malacosoma americanum Eastern Tent Caterpillar	MOR	MOR	MORT	LOAEL		1	d	80000	ppm	100	156608
Bifenthrin	Malacosoma americanum Eastern Tent Caterpillar	MOR	MOR	MORT	LOAEL		1	d	80000	ppm	100	156608
Bifenthrin	Malacosoma americanum Eastern Tent Caterpillar	MOR	MOR	MORT	LOAEL		1	d	80000	ppm	100	156608
Bifenthrin	Malacosoma americanum Eastern Tent Caterpillar	MOR	MOR	MORT	NOAEL		21	d	240000	ppm	100	156608
Bifenthrin	Malacosoma americanum Eastern	MOR	MOR	MORT	NR-LETH		1	d	80000	ppm	100	156608

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
	Tent Caterpillar											
Bifenthrin	Malacosoma americanum Eastern Tent Caterpillar	MOR	MOR	MORT	NR-LETH		3	d	80000	ppm	100	156608
Bifenthrin	Malacosoma americanum Eastern Tent Caterpillar	MOR	MOR	MORT	NR-LETH		1	d	80000	ppm	100	156608
Bifenthrin	Malacosoma americanum Eastern Tent Caterpillar	MOR	MOR	MORT	NR-LETH		2	d	80000	ppm	100	156608
Bifenthrin	Meligethes sp.Pollen Beetle	MOR	MOR	MORT	LT50		0.225	d	0.004	AI ug/cm2	100	156489
Bifenthrin	Meligethes sp.Pollen Beetle	MOR	MOR	MORT	LT50			d	0.02	AI ug/cm2	100	156489
Bifenthrin	Meligethes sp.Pollen Beetle	MOR	MOR	MORT	LT50			d	0.1	AI ug/cm2	100	156489
Bifenthrin	Meligethes sp.Pollen Beetle	MOR	MOR	MORT	LT50			d	0.5	AI ug/cm2	100	156489
Bifenthrin	Meloidogyne incognita Root-Knot Nematode	MOR	MOR	HTCH	LOAEL		0.125	d	50	ppm	100	93105
Bifenthrin	Meloidogyne incognita Root-Knot Nematode	MOR	MOR	MORT	LOAEL		0.25	d	10	ppm	100	93105
Bifenthrin	Meloidogyne incognita Root-Knot Nematode	MOR	MOR	MORT	LOAEL		0.125	d	50	ppm	100	93105
Bifenthrin	Microplitis croceipes Braconid Parasitoid Wasp	MOR	MOR	SURV	LOAEL		1	d	0.067	AI kg/ha	100	101645
Bifenthrin	Microplitis croceipes Braconid Parasitoid Wasp	MOR	MOR	MORT	NR-LETH		1	d	0.084	AI kg/ha	100	155866
Bifenthrin	Microplitis croceipes Braconid Parasitoid Wasp	MOR	MOR	MORT	NR-LETH		1	d	0.084	AI kg/ha	100	155866
Bifenthrin	Microplitis croceipes Braconid Parasitoid Wasp	MOR	MOR	MORT	NR-LETH		1	d	0.084	AI kg/ha	100	93416
Bifenthrin	Microplitis croceipes Braconid Parasitoid Wasp	MOR	MOR	MORT	NR-LETH		1	d	0.084	AI kg/ha	100	93416
Bifenthrin	Musca domestica House Fly	MOR	MOR	MORT	LD50		1	d	42	AI ng/mg bdwt	94	9304

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Myzus persicae Green Peach Aphid	MOR	MOR	MORT	NR-LETH		0.5	d	2000	ppm	100	156539
Bifenthrin	Nephaspis oculatus Ladybird Beetle	MOR	MOR	MORT	LOAEL		1	d	48	ppm	100	51585
Bifenthrin	Nephaspis oculatus Ladybird Beetle	MOR	MOR	MORT	LOAEL		1	d	48	ppm	100	51585
Bifenthrin	Nephaspis oculatus Ladybird Beetle	MOR	MOR	HTCH	LOAEL		4	d	48	ppm	100	51585
Bifenthrin	Nephaspis oculatus Ladybird Beetle	MOR	MOR	MORT	LOAEL		1	d	48	ppm	100	51585
Bifenthrin	Nephaspis oculatus Ladybird Beetle	MOR	MOR	MORT	LOAEL		1	d	48	ppm	100	51585
Bifenthrin	Odonata Dragonfly Order	MOR	MOR	MORT	LD50		1	d	0.1	AI ng/mg bdwt	94	9304
Bifenthrin	Oligonychus pratensis Banks Grass Mite	MOR	MOR	MORT	LC50		1	d	1.17	ug/eu	100	103051
Bifenthrin	Oligonychus pratensis Banks Grass Mite	MOR	MOR	MORT	LC50		1	d	0.2	ug/eu	100	63628
Bifenthrin	Orchidophilus aterrimus Orchid Weevil	MOR	MOR	MORT	LOAEL		5	d	200	ppm	100	156585
Bifenthrin	Orchidophilus aterrimus Orchid Weevil	MOR	MOR	MORT	LOAEL		2	d	200	ppm	100	156585
Bifenthrin	Orchidophilus aterrimus Orchid Weevil	MOR	MOR	MORT	NR-LETH		5	d	200	ppm	100	156585
Bifenthrin	Oryzaephilus surinamensis Flat Bark Beetle	MOR	MOR	MORT	NR-LETH			d	0.2	ppm	100	151569
Bifenthrin	Ostrinia nubilalis European Corn Borer	MOR	MOR	MORT	LC50		7	d	2.33	ppm	100	103842
Bifenthrin	Ostrinia nubilalis European Corn Borer	MOR	MOR	MORT	LC50		7	d	11.6	ppm	100	103842
Bifenthrin	Ostrinia nubilalis European Corn Borer	MOR	MOR	MORT	LC50		7	d	22.1	ppm	100	103842
Bifenthrin	Ostrinia nubilalis European Corn Borer	MOR	MOR	MORT	LD50		1	d	1.1	AI ng/mg bdwt	94	9304
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	MOR	MOR	MORT	NR-LETH		5	d	95.8611416	ppm	10	156596

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	MOR	MOR	MORT	NR-LETH		5	d	95.8611416	ppm	15	156596
Bifenthrin	Panonychus ulmi European Red Mite	MOR	MOR	MORT	LC50		1	d	207.7	ppm	100	156705
Bifenthrin	Panonychus ulmi European Red Mite	MOR	MOR	MORT	LC50		1	d	84.4	ppm	100	156705
Bifenthrin	Panonychus ulmi European Red Mite	MOR	MOR	MORT	LC50		1	d	226.8	ppm	100	156705
Bifenthrin	Panonychus ulmi European Red Mite	MOR	MOR	MORT	LC50		1	d	25.1	ppm	100	156705
Bifenthrin	Panonychus ulmi European Red Mite	MOR	MOR	MORT	LC90		1	d	954.5	ppm	100	156705
Bifenthrin	Panonychus ulmi European Red Mite	MOR	MOR	MORT	LC90		1	d	1355.5	ppm	100	156705
Bifenthrin	Panonychus ulmi European Red Mite	MOR	MOR	MORT	LC90		1	d	1031.1	ppm	100	156705
Bifenthrin	Panonychus ulmi European Red Mite	MOR	MOR	MORT	LC90		1	d	177.5	ppm	100	156705
Bifenthrin	Philaenus spumarius Meadow Spittlebug	MOR	MOR	MORT	LOAEL		1	d	0.15	Al lb/acre	100	156640
Bifenthrin	Philaenus spumarius Meadow Spittlebug	MOR	MOR	MORT	LOAEL		1	d	0.1	Al lb/acre	10	156769
Bifenthrin	Philaenus spumarius Meadow Spittlebug	MOR	MOR	MORT	NR-LETH		1	d	0.15	Al lb/acre	100	156640
Bifenthrin	Philaenus spumarius Meadow Spittlebug	MOR	MOR	MORT	NR-LETH		1	d	0.2	Al lb/acre	10	156769
Bifenthrin	Phyllocnistis citrella Citrus Leafminer	MOR	MOR	MORT	NR-LETH		5	d	0.0015	Al %	2	105005
Bifenthrin	Phyllocnistis citrella Citrus Leafminer	MOR	MOR	MORT	NR-ZERO		3	d	0.0015	Al %	2	105005
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		1	d	0.04	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		1	d	0.06	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		2	d	0.08	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		2	d	0.1	ml/L	100	111671

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		2	d	0.12	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		2	d	0.14	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		2	d	0.17	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		1	d	0.04	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		1	d	0.06	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		1	d	0.08	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		1	d	0.1	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		1	d	0.12	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		1	d	0.14	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT25		1	d	0.17	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		1	d	0.04	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		1	d	0.06	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		1	d	0.08	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		1	d	0.1	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		1	d	0.12	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		1	d	0.14	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		1	d	0.17	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		3	d	0.04	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		3	d	0.06	ml/L	100	111671

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		2	d	0.08	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		2	d	0.1	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		2	d	0.12	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		2	d	0.14	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT50		2	d	0.17	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		2	d	0.14	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		2	d	0.17	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		2	d	0.04	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		2	d	0.06	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		2	d	0.08	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		2	d	0.1	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		2	d	0.12	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		5	d	0.04	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		5	d	0.06	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		4	d	0.08	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		4	d	0.1	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		4	d	0.12	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		4	d	0.14	ml/L	100	111671
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	MOR	MOR	MORT	LT75		4	d	0.17	ml/L	100	111671

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Plutella xylostella Diamondback Moth	MOR	MOR	MORT	LC50		2	d	187	ppm	100	156543
Bifenthrin	Plutella xylostella Diamondback Moth	MOR	MOR	MORT	LC50		2	d	46.6	ppm	100	156543
Bifenthrin	Plutella xylostella Diamondback Moth	MOR	MOR	MORT	LD50		2	d	0.75	ppm	100	103261
Bifenthrin	Plutella xylostella Diamondback Moth	MOR	MOR	MORT	LD50		2	d	140.6	ppm	100	103261
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	MORT	LOAEL		1	d	0.04	Al lb/acre	10	87899
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	MORT	LOAEL		1	d	0.04	Al lb/acre	10	87899
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	SURV	LOAEL		2	d		ppm	100	156592
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	SURV	LOAEL		2	d	588.9	ppm	100	156592
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	TKNO	LOAEL		0.25	d	0.234	ml/L	23.4	119926
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	TKNO	LOAEL		0.25	d	0.13351	ml/L	7.9	119926
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	MORT	LT50		1.4463	d		ppm	100	156592
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	MORT	LT50		1.3042	d	130.4	ppm	100	156592
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	MORT	LT50		0.7938	d		ppm	100	156592
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	MORT	LT50		4.295	d		ppm	100	156592
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	MORT	LT50		1.4196	d	588.9	ppm	100	156592
Bifenthrin	Popillia japonica Japanese Beetle	MOR	MOR	MORT	LT50		1.275	d	249.8	ppm	100	156592
Bifenthrin	Rhyzopertha dominica Lesser Grain Borer	MOR	MOR	MORT	NR-LETH			d	0.2	ppm	100	151569
Bifenthrin	Scarabaeidae Scarab Beetle Family	MOR	MOR	SURV	NOAEL	LOAEL	30	d	3.75	lb/1000 ft2	100	156627
Bifenthrin	Scarabaeidae Scarab Beetle Family	MOR	MOR	SURV	NOAEL		30	d	5	lb/1000 ft2	100	156627

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Scarabaeidae Scarab Beetle Family	MOR	MOR	SURV	NOAEL		30	d	5	lb/1000 ft2	100	156627
Bifenthrin	Scarabaeidae Scarab Beetle Family	MOR	MOR	SURV	NOAEL		30	d	5	lb/1000 ft2	100	156627
Bifenthrin	Scarabaeidae Scarab Beetle Family	MOR	MOR	SURV	NOAEL		30	d	4.6	lb/1000 ft2	100	156627
Bifenthrin	Scarabaeidae Scarab Beetle Family	MOR	MOR	SURV	NOAEL		30	d	4.6	lb/1000 ft2	100	156627
Bifenthrin	Scolytus multistriatus European Elm Bark Beetle	MOR	MOR	MORT	LOAEL		0.0417	d	63.088	ppm	10	155352
Bifenthrin	Scolytus multistriatus European Elm Bark Beetle	MOR	MOR	MORT	LOAEL		0.1667	d	63.088	ppm	10	155352
Bifenthrin	Scolytus multistriatus European Elm Bark Beetle	MOR	MOR	MORT	LOAEL		0.3333	d	63.088	ppm	10	155352
Bifenthrin	Scolytus multistriatus European Elm Bark Beetle	MOR	MOR	MORT	LOAEL		1.6667	d	252.352	ppm	10	156624
Bifenthrin	Scolytus multistriatus European Elm Bark Beetle	MOR	MOR	MORT	LOAEL		1.7917	d	252.352	ppm	10	156624
Bifenthrin	Scolytus multistriatus European Elm Bark Beetle	MOR	MOR	MORT	NR-ZERO		0.6667	d	252.352	ppm	10	156624
Bifenthrin	Simulium vittatum Blackfly	MOR	MOR	MORT	LD50		1	d	1.1	AI ng/mg bdwt	94	9304
Bifenthrin	Sitophilus oryzae Rice Weevil	MOR	MOR	MORT	NR-LETH			d	1	ppm	100	151569
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	MOR	MOR	MORT	LC50		1	d	0.0319176	ppm	99	99827
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	MOR	MOR	MORT	LOAEL		1	d	0.792	ppm	99	99827
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	MOR	MOR	SURV	LOAEL		1	d	0.792	ppm	99	99827
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	MOR	MOR	MORT	NOAEL	LOAEL	1	d	0.00792	ppm	99	99827
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	MOR	MOR	MORT	NR-LETH		1	d	0.0792	ppm	99	99827

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	MOR	MOR	MORT	NR-LETH		7	d	11.35	Al g	0.3	100273
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	MOR	MOR	MORT	NR-LETH		7	d	1	Al lb/acre	0.2	99595
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	MOR	MOR	MORT	NR-LETH		7	d	1	Al lb/acre	100	99595
Bifenthrin	Sphenophorus venatus ssp. vestitus Hunting Billbug	MOR	MOR	MORT	LC50		5	d	0.38	ppm	100	156768
Bifenthrin	Sphenophorus venatus ssp. vestitus Hunting Billbug	MOR	MOR	MORT	LC95		5	d	2.4	ppm	100	156768
Bifenthrin	Sphenophorus venatus ssp. vestitus Hunting Billbug	MOR	MOR	MORT	LD50		1	d	542	ppm	>95	156768
Bifenthrin	Sphenophorus venatus ssp. vestitus Hunting Billbug	MOR	MOR	MORT	LD95		1	d	4599	ppm	>95	156768
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	2.23	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	4.84	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	2.53	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	7.18	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	4.84	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	5.55	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	7.88	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	3.41	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	6.23	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	9.72	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	9.51	ppm	100	156519

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	15.4	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	19.2	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	27.9	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	47.5	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	54.9	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	43.8	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	67.6	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	76.2	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	73.4	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	115	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	33.9	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	175	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC50		2	d	87.7	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	9.82	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	18.2	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	11.9	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	24.5	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	19.1	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	17.4	ppm	100	156519

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	28.8	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	21.2	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	25.3	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	37.1	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	49	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	66.8	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	124	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	139	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	167	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	257	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	220	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	348	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	340	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	336	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	552	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	108	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	725	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	LC90		2	d	358	ppm	100	156519
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	TDTH	LOAEL		1.8	d	0.005	AI %	25.1	66667

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	TDTH	LOAEL		2.1	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	TDTH	LOAEL		1.8	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	TDTH	LOAEL		1	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	TDTH	LOAEL		1.2	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	NR-LETH		1	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	NR-LETH		1	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	NR-LETH		2	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	NR-LETH		1	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera exigua Beet Armyworm	MOR	MOR	MORT	NR-LETH		2	d	0.005	AI %	25.1	66667
Bifenthrin	Spodoptera frugiperda Fall Armyworm	MOR	MOR	MORT	LOAEL			lvp	0.045	AI kg/ha	100	153510
Bifenthrin	Spodoptera frugiperda Fall Armyworm	MOR	MOR	MORT	LOAEL		2	d	0.045	AI kg/ha	100	153510
Bifenthrin	Spodoptera frugiperda Fall Armyworm	MOR	MOR	MORT	LOAEL		1	d	0.045	AI kg/ha	100	153510
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	26.4	ppm	100	152980
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	11.4	ppm	100	152980
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	1.291	ppm	100	156603
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	25.36	ppm	100	156603
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	119.4	ppm	100	156603
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	34.68	ppm	100	156603
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	34.52	ppm	100	156603

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	65.33	ppm	100	156603
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	44.73	ppm	100	156603
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	32.6	ppm	100	156603
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	115.3	ppm	100	156603
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	130.9	ppm	100	156603
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC50		2	d	30.21	ppm	100	156603
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC90		2	d	69.7	ppm	100	152980
Bifenthrin	Spodoptera litura Common Cutworm	MOR	MOR	MORT	LC90		2	d	50.1	ppm	100	152980
Bifenthrin	Stelidota geminata Strawberry Sap Beetle	MOR	MOR	MORT	LOAEL		1	d	0.15	Al lb/acre	100	156640
Bifenthrin	Stelidota geminata Strawberry Sap Beetle	MOR	MOR	MORT	LOAEL		1	d	0.1	Al lb/acre	10	156769
Bifenthrin	Stelidota geminata Strawberry Sap Beetle	MOR	MOR	MORT	NR-LETH		1	d	0.15	Al lb/acre	100	156640
Bifenthrin	Stelidota geminata Strawberry Sap Beetle	MOR	MOR	MORT	NR-LETH		1	d	0.1	Al lb/acre	10	156769
Bifenthrin	Stethorus gilvifrons Ladybird Beetle	MOR	MOR	MORT	LC50		1	d	54.3	ppm	100	156705
Bifenthrin	Stethorus gilvifrons Ladybird Beetle	MOR	MOR	MORT	LC50		1	d	198.9	ppm	100	156705
Bifenthrin	Stethorus gilvifrons Ladybird Beetle	MOR	MOR	MORT	LC50		1	d	33.9	ppm	100	156705
Bifenthrin	Stethorus gilvifrons Ladybird Beetle	MOR	MOR	MORT	LC50		1	d	18.3	ppm	100	156705
Bifenthrin	Stethorus gilvifrons Ladybird Beetle	MOR	MOR	MORT	LC90		1	d	174.9	ppm	100	156705
Bifenthrin	Stethorus gilvifrons Ladybird Beetle	MOR	MOR	MORT	LC90		1	d	5288.1	ppm	100	156705
Bifenthrin	Stethorus gilvifrons Ladybird Beetle	MOR	MOR	MORT	LC90		1	d	592.5	ppm	100	156705

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Stethorus gilvifrons Ladybird Beetle	MOR	MOR	MORT	LC90		1	d	126.6	ppm	100	156705
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	MOR	MOR	MORT	LC50		1	d	5.4	ug/eu	100	63628
Bifenthrin	Theridion impressum Spider	MOR	MOR	MORT	LOAEL		4	d	2	Al ml/org	100	68414
Bifenthrin	Thyridopteryx ephemeraeformis Bagworm	MOR	MOR	MORT	LOAEL		4	d	75	ppm	100	156552
Bifenthrin	Thyridopteryx ephemeraeformis Bagworm	MOR	MOR	MORT	NOAEL		8	d	75	ppm	100	156552
Bifenthrin	Tiphia vernalis Spring Tiphia	MOR	MOR	MORT	LOAEL		2	d	0.22	Al kg/ha	100	95857
Bifenthrin	Tiphia vernalis Spring Tiphia	MOR	MOR	MORT	LOAEL		2	d	0.22	Al kg/ha	100	95857
Bifenthrin	Tiphia vernalis Spring Tiphia	MOR	MOR	MORT	LOAEL		1	d	0.22	Al kg/ha	100	95857
Bifenthrin	Tiphia vernalis Spring Tiphia	MOR	MOR	MORT	LOAEL		1	d	0.22	Al kg/ha	100	95857
Bifenthrin	Tiphia vernalis Spring Tiphia	MOR	MOR	MORT	LOAEL		1	d	0.22	Al kg/ha	100	95857
Bifenthrin	Tiphia vernalis Spring Tiphia	MOR	MOR	MORT	LOAEL		1	d	0.22	Al kg/ha	100	95857
Bifenthrin	Tiphia vernalis Spring Tiphia	MOR	MOR	MORT	NR-LETH		2	d	0.22	Al kg/ha	100	95857
Bifenthrin	Tiphia vernalis Spring Tiphia	MOR	MOR	MORT	NR-LETH		2	d	0.22	Al kg/ha	100	95857
Bifenthrin	Tiphia vernalis Spring Tiphia	MOR	MOR	MORT	NR-LETH		1	d	0.22	Al kg/ha	100	95857
Bifenthrin	Tiphia vernalis Spring Tiphia	MOR	MOR	MORT	NR-LETH		1	d	0.22	Al kg/ha	100	95857
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC10		2	d	22.387	ppm	10	156658
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC10		2	d	83.176	ppm	10	156658
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC10		2	d	13.183	ppm	10	156658

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC10		2	d	7.943	ppm	10	156658
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC20		2	d	32.359	ppm	10	156658
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC20		2	d	158.489	ppm	10	156658
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC20		2	d	20.893	ppm	10	156658
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC20		2	d	18.197	ppm	10	156658
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC50		2	d	537	ppm	100	156657
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC50		2	d	589	ppm	100	156657
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC50		2	d	257.04	ppm	10	156658
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC50		2	d	501.187	ppm	10	156658
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC50		2	d	52.481	ppm	10	156658
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC50		2	d	57.544	ppm	10	156658
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC50		2	d	1352	ppm	100	156561
Bifenthrin	Tribolium castaneum Rust-Red Flour Beetle	MOR	MOR	MORT	LC50		3	d	330	ppm	100	156561
Bifenthrin	Tribolium confusum Confused Flour Beetle	MOR	MOR	MORT	NR-LETH		14.2083	d	0.021	AI g/m3	100	70501
Bifenthrin	Tribolium confusum Confused Flour Beetle	MOR	MOR	MORT	NR-LETH		14.2083	d	0.021	AI g/m3	100	70501
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	LOAEL		1	d	30	ppm	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	LOAEL		1	d	0.03	ug/cm2	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	LOAEL		1	d	0.03	ug/cm2	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	LOAEL		1	d	0.03	ug/cm2	100	113275

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	LOAEL		3	d	30	ppm	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	LOAEL		3	d	0.03	ug/cm2	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	LOAEL		1	d	30	ppm	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	NOAEL		3	d	0.03	ug/cm2	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	NR-LETH		1	d	30	ppm	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	NR-LETH		1	d	0.03	ug/cm2	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	NR-LETH		3	d	30	ppm	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	NR-LETH		3	d	0.03	ug/cm2	100	113275
Bifenthrin	Trichoplusia ni Cabbage Looper	MOR	MOR	MORT	NR-LETH		3	d	30	ppm	100	113275
Bifenthrin	Tuta absoluta Tomato Leaf Miner	MOR	MOR	MORT	LC50		2	d	8.8	ppm	100	156584
Bifenthrin	Tuta absoluta Tomato Leaf Miner	MOR	MOR	MORT	LC50		2	d	32.14	ppm	100	156584
Bifenthrin	Tuta absoluta Tomato Leaf Miner	MOR	MOR	MORT	LC50		2	d	14.68	ppm	100	156584
Bifenthrin	Tuta absoluta Tomato Leaf Miner	MOR	MOR	MORT	LC50		2	d	32.18	ppm	100	156584
Bifenthrin	Tuta absoluta Tomato Leaf Miner	MOR	MOR	MORT	LC50		2	d	26.86	ppm	100	156584
Bifenthrin	Tuta absoluta Tomato Leaf Miner	MOR	MOR	MORT	LC50		2	d	26.5	ppm	100	156584
Bifenthrin	Xanthogaleruca luteola Elm Leaf Beetle	MOR	MOR	MORT	LOAEL		1	d	2.5	fl oz/100 gal	100	156645
Bifenthrin	Xanthogaleruca luteola Elm Leaf Beetle	MOR	MOR	MORT	LOAEL		2	d	2.5	fl oz/100 gal	100	156646
Bifenthrin	Callirhytis cornigera Parasitic Wasp	PHY	IMM	PRNF	NOAEL		33	d	190	ppm	100	87491
Bifenthrin	Malacosoma americanum Eastern Tent Caterpillar	PHY	PHY	EXCR	LOAEL		4	d	80000	ppm	100	156608

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Popillia japonica Japanese Beetle	PHY	ITX	IMBL	LOAEL		2	d		ppm	100	156592
Bifenthrin	Popillia japonica Japanese Beetle	PHY	ITX	IMBL	LOAEL		2	d	588.9	ppm	100	156592
Bifenthrin	Popillia japonica Japanese Beetle	PHY	ITX	IMBL	LOAEL		2	d	588.9	ppm	100	156592
Bifenthrin	Popillia japonica Japanese Beetle	PHY	ITX	IMBL	NOAEL		2	d		ppm	100	156592
Bifenthrin	Thyridopteryx ephemeraeformis Bagworm	PHY	PHY	EXCR	LOAEL		8	d	75	ppm	100	156552
Bifenthrin	Formicidae Ant Family	POP	POP	ABND	LOAEL		23	d	119.826427	ppm	100	106260
Bifenthrin	Formicidae Ant Family	POP	POP	ABND	LOAEL		1	d	0.5	fl oz/1000 ft2	100	108993
Bifenthrin	Formicidae Ant Family	POP	POP	ABND	LOAEL		1	d	2.3	lb/1000 ft2	100	108993
Bifenthrin	Formicidae Ant Family	POP	POP	ABND	LOAEL		9	d	119.826427	ppm	100	106260
Bifenthrin	Formicidae Ant Family	POP	POP	ABND	NOAEL		7	d	0.56	Al kg/ha	100	156605
Bifenthrin	Formicidae Ant Family	POP	POP	ABND	NOAEL		42	d	0.2	Al lb/acre	100	108994
Bifenthrin	Formicidae Ant Family	POP	POP	ABND	NOAEL		42	d	0.4	Al lb/acre	0.2	108994
Bifenthrin	AcaloleptavastatorFig Longicorn Beetle	POP	POP	ABND	LOAEL		213.08	d	1000	ml/100 L	100	156710
Bifenthrin	Acalymma vittatum Striped Cucumber Beetle	POP	POP	ABND	LOAEL		16	d	0.01	Al lb/acre	10	88718
Bifenthrin	Acalymma vittatum Striped Cucumber Beetle	POP	POP	ABND	LOAEL		17	d	0.04	lb/acre	100	105074
Bifenthrin	Acarophenax lacunatus Parasitic Mite	POP	POP	IRIN	NOAEL		23	d	0.4	ppm	100	87665
Bifenthrin	Acyrtosiphon pisum Pea Aphid	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	100	150663
Bifenthrin	Acyrtosiphon pisum Pea Aphid	POP	POP	ABND	LOAEL		6	d	0.04	Al lb/acre	100	97677

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		7	d	0.00313	Al lb/acre	0.3	156573
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		7	d	0.00313	Al lb/acre	100	156610
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		4	d	0.05	Al lb/acre	100	156611
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		4	d	0.05	Al lb/acre	100	156611
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		4	d	0.025	Al lb/acre	100	156611
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	CNTL	LOAEL		1	d	0.2	Al lb/acre	100	156568
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	CNTL	LOAEL		3	d	0.2	Al lb/acre	100	156568
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		7	d	0.00313	Al lb/acre	100	156573
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		2	d	0.003	Al lb/acre	100	156566
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	CNTL	LOAEL		7	d	0.1	Al lb/acre	10	156591
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		4	d	0.0125	Al lb/acre	100	156611
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		4	d	0.1	Al lb/acre	100	156611
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		3	d	0.025	Al lb/acre	100	156556
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		7	d	0.00313	Al lb/acre	100	156610
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		7	d	0.025	Al lb/acre	100	156563
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		3	d	0.00313	Al lb/acre	100	156549
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		7	d	0.025	Al lb/acre	100	156563
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		1	d	0.2	Al lb/acre	100	156587
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		3	d	0.1	Al lb/acre	100	156589

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOAEL		7	d	0.1	Al lb/acre	100	156589
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOEL		4	d	0.01	Al lb/acre	100	82449
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	LOEL		4	d	0.01	Al lb/acre	100	82449
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	NOAEL		7	d	0.0125	Al lb/acre	100	156573
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	NOAEL		56	d	0.1	Al lb/acre	100	82728
Bifenthrin	Agrotis ipsilon Cutworm	POP	POP	ABND	NOAEL		14	d	0.1	Al lb/acre	100	156589
Bifenthrin	Agrotis sp. Cutworm	POP	POP	ABND	LOAEL		35	d	0.06	Al lb/acre	2	102135
Bifenthrin	Agrotis ypsilon Greasy Cutworm	POP	POP	ABND	NOAEL	LOAEL	3	d	0.015	Al lb/acre	100	121414
Bifenthrin	Ambrosiodmus lecontei Ambrosia Beetle	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Amrasca biguttula ssp. biguttula Jassid	POP	POP	CNTL	LOAEL			d	0.005	%	100	87464
Bifenthrin	Amrasca biguttula ssp. biguttula Jassid	POP	POP	CNTL	LOAEL			d	0.005	%	100	87464
Bifenthrin	Amyelois transitella Navel Orangeworm	POP	POP	ABND	LOAEL		115	d	0.08	Al lb/acre	10	110769
Bifenthrin	Amyelois transitella Navel Orangeworm	POP	POP	ABND	LOAEL		129	d	0.06	Al lb/acre	10	156756
Bifenthrin	Anasa tristis Squash Bug	POP	POP	ABND	LOAEL		49	d	0.01	Al lb/acre	10	88718
Bifenthrin	Anthonomus grandis Boll Weevil	POP	POP	ABND	NOAEL		15	d	0.09	Al kg/ha	100	92637
Bifenthrin	Anthonomus grandis Boll Weevil	POP	POP	ABND	NOAEL		10	d	0.09	Al kg/ha	100	92637
Bifenthrin	Anthonomus grandis ssp. grandis Boll Weevil	POP	POP	CNTL	LOAEL		27	d	0.068	Al kg/ha	100	154612
Bifenthrin	Anthonomus grandis ssp. grandis Boll Weevil	POP	POP	CNTL	LOAEL		46	d	0.068	Al kg/ha	100	154612
Bifenthrin	Aphelinidae Parasitic Wasp Family	POP	POP	ABND	LOAEL		7	d	62.5	Al g/ha	100	109059

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Aphididae Aphid Family	POP	POP	ABND	LOAEL		25	d	0.08	Al lb/acre	10	92323
Bifenthrin	Aphididae Aphid Family	POP	POP	ABND	LOAEL		39	d	0.08	Al lb/acre	10	92323
Bifenthrin	Aphididae Aphid Family	POP	POP	CNTL	LOEL		13	d	0.03	Al lb/acre	100	79777
Bifenthrin	Aphididae Aphid Family	POP	POP	ABND	NOAEL		11	d	0.08	Al lb/acre	10	92323
Bifenthrin	Aphididae Aphid Family	POP	POP	ABND	NOAEL		14	d	0.08	Al lb/acre	10	92323
Bifenthrin	Aphididae Aphid Family	POP	POP	ABND	NOAEL		18	d	0.08	Al lb/acre	10	92323
Bifenthrin	Aphididae Aphid Family	POP	POP	ABND	NOAEL		21	d	0.08	Al lb/acre	10	92323
Bifenthrin	Aphididae Aphid Family	POP	POP	ABND	NOAEL		3	d	0.08	Al lb/acre	10	92323
Bifenthrin	Aphididae Aphid Family	POP	POP	ABND	NOAEL		46	d	0.08	Al lb/acre	10	92323
Bifenthrin	Aphididae Aphid Family	POP	POP	ABND	NOAEL		6	d	0.08	Al lb/acre	10	92323
Bifenthrin	Aphididae Aphid Family	POP	POP	ABND	NOAEL		27	d	0.08	Al lb/acre	10	92323
Bifenthrin	Aphis glycines Soybean Aphid	POP	POP	ABND	LOAEL		13	d	0.03	Al lb/acre	100	110060
Bifenthrin	Aphis glycines Soybean Aphid	POP	POP	ABND	LOAEL		3	d	0.03	Al lb/acre	100	110060
Bifenthrin	Aphis glycines Soybean Aphid	POP	POP	ABND	LOAEL		7	d	0.03	Al lb/acre	100	110060
Bifenthrin	Aphis glycines Soybean Aphid	POP	POP	ABND	LOAEL		13	d	0.04	Al lb/acre	100	110060
Bifenthrin	Aphis glycines Soybean Aphid	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	110060
Bifenthrin	Aphis glycines Soybean Aphid	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	110060
Bifenthrin	Aphis glycines Soybean Aphid	POP	POP	ABND	LOAEL		13	d	0.04	Al lb/acre	100	110060
Bifenthrin	Aphis glycines Soybean Aphid	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	110060

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Aphis glycines Soybean Aphid	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	110060
Bifenthrin	Aphis gossypii Cotton Aphid	POP	POP	ABND	LOAEL		23	d	119.826427	ppm	100	106260
Bifenthrin	Aphis gossypii Cotton Aphid	POP	POP	CNTL	LOAEL			d	0.005	%	100	87464
Bifenthrin	Aphis gossypii Cotton Aphid	POP	POP	CNTL	LOAEL			d	0.005	%	100	87464
Bifenthrin	Aphis gossypii Cotton Aphid	POP	POP	ABND	LOAEL		18	d	0.06	Al lb/acre	100	153418
Bifenthrin	Aphis gossypii Cotton Aphid	POP	POP	ABND	LOAEL		26	d	0.1	Al lb/acre	100	156576
Bifenthrin	Aphis gossypii Cotton Aphid	POP	POP	ABND	LOAEL		1	d	200	ppm	100	153518
Bifenthrin	Aphis gossypii Cotton Aphid	POP	POP	ABND	LOAEL		9	d	119.826427	ppm	100	106260
Bifenthrin	Aphis gossypii Cotton Aphid	POP	POP	ABND	NOAEL		30	d	0.04	Al lb/acre	100	88773
Bifenthrin	Arachnida Spider/Mite Class	POP	POP	ABND	LOAEL		1	d	0.04	Al lb/acre	100	87876
Bifenthrin	Arachnida Spider/Mite Class	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	87876
Bifenthrin	Arachnida Spider/Mite Class	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	87876
Bifenthrin	Araneidae Crab Or Web Spider Family	POP	POP	ABND	NOAEL		0.0417	d	25	ppm	100	156659
Bifenthrin	Arthropoda Arthropod Phylum	POP	POP	ABND	LOAEL		0.0417	d	25	ppm	100	156659
Bifenthrin	Arthropoda Arthropod Phylum	POP	POP	ABND	LOAEL		7	d	62.5	Al g/ha	100	109059
Bifenthrin	Arthropoda Arthropod Phylum	POP	POP	ABND	NOAEL		46	d	44.6	Al g/ha	100	121355
Bifenthrin	Arthropoda Arthropod Phylum	POP	POP	ABND	NOAEL		42	d	44.8	Al g/ha	100	121353
Bifenthrin	Arthropoda Arthropod Phylum	POP	POP	ABND	NOAEL		28	d	90	Al g/ha	100	154810
Bifenthrin	Aspidiotus anningensis Scale	POP	POP	ABND	LOAEL		121.76	d	80	Al g/ha	100	156634

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	ABND	LOAEL		69	d	0.05	Al lb/acre	100	156567
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	ABND	LOAEL		69	d	0.1	Al lb/acre	100	156567
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	CNTL	LOAEL		48	d	0.2	Al lb/acre	100	156582
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	CNTL	LOAEL		14	d	0.1	Al lb/acre	10	156583
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	CNTL	LOAEL		48	d	0.1	Al lb/acre	10	156583
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	ABND	LOAEL		58	d	0.1	Al lb/acre	100	156599
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	ABND	LOAEL		58	d	0.1	Al lb/acre	100	156599
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	ABND	NOAEL		18	d	0.1	Al lb/acre	100	156565
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	ABND	NOAEL		18	d	0.1	Al lb/acre	100	156565
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	ABND	NOAEL		18	d	0.1	Al lb/acre	0.2	156565
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	ABND	NOAEL		18	d	0.1	Al lb/acre	0.2	156565
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	ABND	NOAEL		18	d	0.1	Al lb/acre	100	156565
Bifenthrin	Ataenius spretulus Scarab Beetle	POP	POP	ABND	NOAEL		18	d	0.1	Al lb/acre	0.2	156565
Bifenthrin	Bemisia argentifolii Silverleaf Whitefly	POP	POP	ABND	LOAEL		32	d	119.826427	ppm	10	156754
Bifenthrin	Bemisia argentifolii Silverleaf Whitefly	POP	POP	ABND	NOAEL		78	d	119.826427	ppm	10	156754
Bifenthrin	Bemisia argentifolii Silverleaf Whitefly	POP	POP	ABND	NOAEL		78	d	119.826427	ppm	10	156754
Bifenthrin	Bemisia argentifolii Silverleaf Whitefly	POP	POP	ABND	NOAEL		78	d	119.826427	ppm	10	156754
Bifenthrin	Bemisia argentifolii Silverleaf Whitefly	POP	POP	ABND	NOAEL		78	d	119.826427	ppm	10	156754
Bifenthrin	Bemisia argentifolii Silverleaf Whitefly	POP	POP	ABND	NOAEL		78	d	119.826427	ppm	10	156754

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Bemisia argentifolii Silverleaf Whitefly	POP	POP	ABND	NOAEL		78	d	119.826427	ppm	10	156754
Bifenthrin	Bemisia argentifolii Silverleaf Whitefly	POP	POP	ABND	NOAEL		78	d	119.826427	ppm	10	156754
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	LOAEL		94	d	0.1	Al lb/acre	10	98097
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	LOAEL		99	d	0.1	Al lb/acre	10	98097
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	LOAEL		94	d	0.1	Al lb/acre	10	98097
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	LOAEL		94	d	0.1	Al lb/acre	10	98097
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	LOAEL		94	d	0.1	Al lb/acre	10	98097
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	LOAEL		94	d	0.1	Al lb/acre	10	98097
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	LOAEL		80	d	0.08	Al lb/acre	100	97787
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	LOAEL		25	d	0.06	Al lb/acre	100	153418
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	LOAEL		25	d	0.06	Al lb/acre	100	153418
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	LOAEL		18	d	0.06	Al lb/acre	100	153418
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	LOAEL		26	d	0.1	Al lb/acre	100	156576
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	NOAEL		3	d	62.5	Al g/ha	100	109059
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	NOAEL		3	d	62.5	Al g/ha	100	109059
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	NOAEL		80	d	0.08	Al lb/acre	100	97787
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	NOAEL		127	d	0.1	Al lb/acre	100	97788
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	NOAEL		7	d	62.5	Al g/ha	100	109059
Bifenthrin	Bemisia tabaci Sweetpotato Whitefly	POP	POP	ABND	NOAEL		7	d	62.5	Al g/ha	100	109059

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Brevicoryne brassicae Cabbage Aphid	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	100	151454
Bifenthrin	Brevicoryne brassicae Cabbage Aphid	POP	POP	ABND	LOAEL		2	d	0.04	ai oz/acre	100	151453
Bifenthrin	Brevicoryne brassicae Cabbage Aphid	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	106191
Bifenthrin	Brevicoryne brassicae Cabbage Aphid	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	100	121488
Bifenthrin	Brevicoryne brassicae Cabbage Aphid	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	2	155336
Bifenthrin	Brevicoryne brassicae Cabbage Aphid	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	155334
Bifenthrin	Brevicoryne brassicae Cabbage Aphid	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	2	155337
Bifenthrin	Brevicoryne brassicae Cabbage Aphid	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	155338
Bifenthrin	Bruchus pisorum Pea Weevil	POP	POP	ABND	LOAEL			hv	0.04	Al lb/acre	100	150663
Bifenthrin	Bruchus pisorum Pea Weevil	POP	POP	ABND	LOAEL		1	gs	0.04	Al lb/acre	100	97677
Bifenthrin	Cacopsylla pyricola Pear Psyllid	POP	POP	ABND	NOAEL		66	d	0.08	Al lb/acre	10	156648
Bifenthrin	Cacopsylla pyricola Pear Psyllid	POP	POP	ABND	NOAEL		78	d	0.1	Al lb/acre	10	156629
Bifenthrin	Callirhytis cornigera Parasitic Wasp	POP	POP	ABND	LOAEL		60.88	d	190	ppm	100	87491
Bifenthrin	Callirhytis cornigera Parasitic Wasp	POP	POP	ABND	LOAEL		33	d	190	ppm	100	87491
Bifenthrin	Callirhytis cornigera Parasitic Wasp	POP	POP	ABND	NOAEL		410	d	190	ppm	100	87491
Bifenthrin	Callirhytis cornigera Parasitic Wasp	POP	POP	ABND	NOAEL		60.88	d	190	ppm	100	87491
Bifenthrin	Callirhytis cornigera Parasitic Wasp	POP	POP	ABND	NOAEL		60.88	d	190	ppm	100	87491
Bifenthrin	Callirhytis cornigera Parasitic Wasp	POP	POP	ABND	NOAEL		60.88	d	190	ppm	100	87491
Bifenthrin	Callirhytis cornigera Parasitic Wasp	POP	POP	ABND	NOAEL		60.88	d	190	ppm	100	87491

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Carpophilus lugubris Dusky Sap Beetle	POP	POP	ABND	NOAEL		18	d	0.04	Al lb/acre	100	150692
Bifenthrin	Carpophilus lugubris Dusky Sap Beetle	POP	POP	ABND	NOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Carpophilus lugubris Dusky Sap Beetle	POP	POP	ABND	NOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Carpophilus lugubris Dusky Sap Beetle	POP	POP	ABND	NOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Celama sorghiella Sorghum Webworm	POP	POP	ABND	LOAEL		15	d	0.015	Al lb/acre	100	88706
Bifenthrin	Cerotoma trifurcata Bean Leaf Beetle	POP	POP	ABND	LOAEL		16	d	0.033	Al lb/acre	100	153489
Bifenthrin	Cerotoma trifurcata Bean Leaf Beetle	POP	POP	ABND	NOAEL		5	d	36	Al g/ha	100	81364
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	100	151454
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL		2	d	0.04	ai oz/acre	100	151453
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	100	155234
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	100	155234
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	100	155234
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL			d	0.04	Al lb/acre	100	155234
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	100	121488
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL			gs	0.04	Al lb/acre	2	155336
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	155334
Bifenthrin	Ceutorhynchus assimilis Cabbage	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	2	155337

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
	Seedpod Weevil											
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL			gs	0.04	Al lb/acre	100	155338
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL		3	d	0.02	Al lb/acre	100	96173
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	73097
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	100	73097
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOEL		30.44	d	0.045	Al kg/ha	100	63601
Bifenthrin	Ceutorhynchus assimilis Cabbage Seedpod Weevil	POP	POP	ABND	LOEL		30.44	d	0.045	Al kg/ha	100	63601
Bifenthrin	Chirothrips sp. Thrip	POP	POP	ABND	NOAEL	LOAEL	2	d	0.08	Al lb/acre	100	90192
Bifenthrin	Chromaphis juglandicola Walnut Aphid	POP	POP	ABND	NOAEL		90	d	0.1	Al lb/acre	10	156756
Bifenthrin	Clavigralla sp. Coreid Bug	POP	POP	ABND	LOAEL		48	d	30	Al g/ha	100	155382
Bifenthrin	Clavigralla sp. Coreid Bug	POP	POP	ABND	LOAEL		48	d	30	Al g/ha	100	155382
Bifenthrin	Clavigralla sp. Coreid Bug	POP	POP	ABND	LOAEL		48	d	30	Al g/ha	100	155382
Bifenthrin	Clavigralla sp. Coreid Bug	POP	POP	ABND	LOAEL		48	d	30	Al g/ha	100	155382
Bifenthrin	Clavigralla sp. Coreid Bug	POP	POP	ABND	LOAEL		48	d	30	Al g/ha	100	155382
Bifenthrin	Clavigralla sp. Coreid Bug	POP	POP	ABND	LOAEL		48	d	30	Al g/ha	100	155382
Bifenthrin	Clavigralla sp. Coreid Bug	POP	POP	ABND	LOAEL		48	d	30	Al g/ha	100	155382
Bifenthrin	Clavigralla sp. Coreid Bug	POP	POP	ABND	LOAEL		48	d	30	Al g/ha	100	155382

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Clavigralla sp. Coreid Bug	POP	POP	ABND	LOAEL		48	d	30	Al g/ha	100	155382
Bifenthrin	Coccus viridis Green Scale	POP	POP	ABND	NOAEL		1	d	200	ppm	100	153518
Bifenthrin	Coleoptera Beetle Order	POP	POP	ABND	LOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Coleoptera Beetle Order	POP	POP	ABND	LOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Coleoptera Beetle Order	POP	POP	ABND	LOAEL		0.0417	d	25	ppm	100	156659
Bifenthrin	Coleoptera Beetle Order	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Coleotechnites variella Gelechiid Moth	POP	POP	ABND	LOAEL		3	d	252.352	ppm	10	153439
Bifenthrin	Conotrachelus nenuphar Plum Curculio	POP	POP	ABND	NOAEL		121.76	d	25	Al g/ha	10	89749
Bifenthrin	Curculio sp. Weevil	POP	POP	ABND	LOAEL		60	d	7.9	ml/8.5 L	100	156704
Bifenthrin	Curculio sp. Weevil	POP	POP	ABND	LOAEL		60	d	7.9	ml/8.5 L	100	156704
Bifenthrin	Curculio sp. Weevil	POP	POP	ABND	LOAEL		60	d	7.9	ml/8.5 L	100	156704
Bifenthrin	Curculio sp. Weevil	POP	POP	ABND	NOAEL		60	d	7.9	ml/8.5 L	100	156704
Bifenthrin	Curculionidae Snout Beetle Family, Weevil	POP	POP	ABND	LOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Curculionidae Snout Beetle Family, Weevil	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Curculionidae Snout Beetle Family, Weevil	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Cyclocephala immaculata Southern Masked Chafer	POP	POP	ABND	NOAEL		368	d	2	Al lb/acre	0.2	156597
Bifenthrin	Cydia pomonella Coddling Moth	POP	POP	ABND	LOAEL		115	d	0.08	Al lb/acre	10	110769
Bifenthrin	Cydia pomonella Coddling Moth	POP	POP	ABND	LOAEL		19	d	0.08	Al lb/acre	10	156648
Bifenthrin	Cydia pomonella Coddling Moth	POP	POP	ABND	LOAEL		66	d	0.08	Al lb/acre	10	156648

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Cydia pomonella Coddling Moth	POP	POP	ABND	LOAEL		38	d	0.06	Al lb/acre	10	156629
Bifenthrin	Cydia pomonella Coddling Moth	POP	POP	ABND	LOAEL		84	d	0.06	Al lb/acre	10	156629
Bifenthrin	Cydia pomonella Coddling Moth	POP	POP	ABND	LOAEL		129	d	0.06	Al lb/acre	10	156756
Bifenthrin	Cydia pomonella Coddling Moth	POP	POP	ABND	LOAEL		121.76	d	25	Al g/ha	10	89749
Bifenthrin	Daktulosphæra vitifoliae Grape Phylloxera	POP	POP	ABND	LOAEL		40	d	0.04	Al lb/acre	10	87892
Bifenthrin	Daktulosphæra vitifoliae Grape Phylloxera	POP	POP	ABND	LOAEL		68	d	0.04	Al lb/acre	10	87892
Bifenthrin	Diabrotica sp. Corn Rootworm	POP	POP	ABND	LOAEL		1	gs	0.05	Al lb/acre	0.2	156595
Bifenthrin	Diabrotica sp. Corn Rootworm	POP	POP	ABND	LOAEL		1	gs	0.05	Al lb/acre	0.2	156595
Bifenthrin	Diabrotica sp. Corn Rootworm	POP	POP	ABND	LOAEL		1	gs	0.023	Al lb/acre	100	156559
Bifenthrin	Diabrotica sp. Corn Rootworm	POP	POP	ABND	LOAEL		1	gs	0.023	Al lb/acre	100	156559
Bifenthrin	Diabrotica sp. Corn Rootworm	POP	POP	ABND	NOAEL		1	gs	0.023	Al lb/acre	100	156559
Bifenthrin	Diabrotica undecimpunctata Spotted Cucumber Beetle	POP	POP	ABND	LOAEL		16	d	0.01	Al lb/acre	10	88718
Bifenthrin	Diabrotica virgifera Leaf Beetle	POP	POP	ABND	LOAEL		7	d	0.08	Al lb/acre	100	156612
Bifenthrin	Diabrotica virgifera Leaf Beetle	POP	POP	ABND	LOAEL		7	d	0.08	Al lb/acre	100	156612
Bifenthrin	Diabrotica virgifera Leaf Beetle	POP	POP	ABND	LOAEL		7	d	0.08	Al lb/acre	100	156612
Bifenthrin	Diabrotica virgifera Leaf Beetle	POP	POP	ABND	NOAEL		20	d	0.08	Al lb/acre	100	156613
Bifenthrin	Diabrotica virgifera ssp. virgifera Western Corn Rootworm	POP	POP	ABND	LOAEL		2	d	44.8	Al g/ha	100	121353
Bifenthrin	Diabrotica virgifera ssp. virgifera Western Corn	POP	POP	ABND	LOAEL		3	d	89.7	Al g/ha	100	154811

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
	Rootworm											
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	POP	POP	ABND	NOAEL		4	d	44.6	Al g/ha	100	121355
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	POP	POP	ABND	NOAEL		7	d	0.08	Al lb/acre	100	156614
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	POP	POP	ABND	NOAEL		14	d	0.08	Al lb/acre	100	156614
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	POP	POP	ABND	NOAEL		21	d	0.08	Al lb/acre	100	156614
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	POP	POP	ABND	NOAEL		7	d	0.08	Al lb/acre	100	156614
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	POP	POP	ABND	NOAEL		14	d	0.08	Al lb/acre	100	156614
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	POP	POP	ABND	NOAEL		21	d	0.08	Al lb/acre	100	156614
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	POP	POP	ABND	NOAEL		7	d	0.08	Al lb/acre	100	156614
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	POP	POP	ABND	NOAEL		14	d	0.08	Al lb/acre	100	156614
Bifenthrin	<i>Diabrotica virgifera</i> ssp. <i>virgifera</i> Western Corn Rootworm	POP	POP	ABND	NOAEL		21	d	0.08	Al lb/acre	100	156614
Bifenthrin	<i>Diaeretiella rapae</i> Parasitoid Wasp	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	151454
Bifenthrin	<i>Diaphania hyalinata</i> Melonworm Moth	POP	POP	ABND	NOAEL		39	d	0.1	Al lb/acre	100	153418
Bifenthrin	<i>Diaphania nitidalis</i> Pickleworm	POP	POP	ABND	LOAEL		18	d	0.06	Al lb/acre	100	153418
Bifenthrin	<i>Diaphania nitidalis</i> Pickleworm	POP	POP	ABND	LOAEL		26	d	0.1	Al lb/acre	100	156576
Bifenthrin	<i>Diaphania</i> sp. Moth	POP	POP	ABND	LOAEL		26	d	0.1	Al lb/acre	100	156576

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Diaprepes abbreviatus Root Weevil	POP	POP	ABND	NOAEL		84	d	0.54	g/m2	100	156605
Bifenthrin	Diaprepes abbreviatus Root Weevil	POP	POP	ABND	NOAEL		84	d	0.54	g/m2	100	156605
Bifenthrin	Earias vittella Rough Bollworm	POP	POP	ABND	LOAEL			d	0.005	%	100	87464
Bifenthrin	Earias vittella Rough Bollworm	POP	POP	ABND	LOAEL			d	0.005	%	100	87464
Bifenthrin	Earias vittella Rough Bollworm	POP	POP	ABND	LOAEL			gs	25	AI g/ha	100	112463
Bifenthrin	Elateridae Click Beetle Family	POP	POP	ABND	LOAEL		90	d	0.3	AI lb/acre	100	156574
Bifenthrin	Elateridae Click Beetle Family	POP	POP	ABND	LOAEL		100	d	0.3	AI lb/acre	100	156574
Bifenthrin	Elateridae Click Beetle Family	POP	POP	ABND	LOAEL		103	d	0.3	AI lb/acre	100	156574
Bifenthrin	Elateridae Click Beetle Family	POP	POP	ABND	LOAEL		113	d	0.3	AI lb/acre	100	156574
Bifenthrin	Elateridae Click Beetle Family	POP	POP	ABND	LOAEL		1	gs	0.023	AI lb/acre	0.2	121335
Bifenthrin	Elateridae Click Beetle Family	POP	POP	ABND	NOAEL		109	d	0.3	AI lb/acre	100	156574
Bifenthrin	Elateridae Click Beetle Family	POP	POP	ABND	NOAEL		95	d	0.3	AI lb/acre	100	156574
Bifenthrin	Elateridae Click Beetle Family	POP	POP	ABND	NOAEL		84	d	0.3	AI lb/acre	100	156574
Bifenthrin	Encarsia citrina Oystershell Scale Parasitoid	POP	POP	ABND	LOAEL		121.76	d	80	AI g/ha	100	156634
Bifenthrin	Endopiza viteana Grape Berry Moth	POP	POP	ABND	LOAEL		89	d	0.5	AI lb/acre	10	88518
Bifenthrin	Euetheola humilis Sugarcane Beetle	POP	POP	ABND	LOAEL		48	d	0.06	AI lb/acre	2	102135
Bifenthrin	Frankliniella fusca Tobacco Thrip	POP	POP	ABND	LOAEL		37	d	0.08	AI lb/acre	10	82736
Bifenthrin	Gelechiidae Lepidoptera Family	POP	POP	ABND	LOEL			hv	60	AI g/ha	100	81334
Bifenthrin	Gelechiidae Lepidoptera Family	POP	POP	ABND	LOEL			hv	60	AI g/ha	100	81334

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Geocoris sp. Big-Eye Bug	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	87876
Bifenthrin	Geocoris sp. Big-Eye Bug	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	87876
Bifenthrin	Geocoris sp. Big-Eye Bug	POP	POP	ABND	LOAEL		2	d	0.08	Al lb/acre	100	90192
Bifenthrin	Geocoris sp. Big-Eye Bug	POP	POP	ABND	NOAEL		1	d	0.04	Al lb/acre	100	87876
Bifenthrin	Glyptoscelis squamulata Leaf Beetle	POP	POP	CNTL	LOAEL		1	d	0.05	Al lb/acre	10	156520
Bifenthrin	Grapholita prunivora Lesser Appleworm	POP	POP	ABND	NOAEL		121.76	d	25	Al g/ha	10	89749
Bifenthrin	Harmonia axyridis Asian Lady Beetle	POP	POP	ABND	LOAEL			d	0.045	Al kg/ha	100	156619
Bifenthrin	Harmonia axyridis Asian Lady Beetle	POP	POP	ABND	LOAEL			d	0.045	Al kg/ha	100	156619
Bifenthrin	Helicoverpa armigera Old World Bollworm	POP	POP	ABND	LOAEL		120	d	80	Al g/ha	100	100338
Bifenthrin	Helicoverpa armigera Old World Bollworm	POP	POP	ABND	LOAEL		120	d	80	Al g/ha	100	100338
Bifenthrin	Helicoverpa sp. Bud Worm	POP	POP	ABND	LOAEL		60.88	d	60	Al g/ha	100	156493
Bifenthrin	Helicoverpa sp. Bud Worm	POP	POP	ABND	LOAEL		60.88	d	60	Al g/ha	100	156493
Bifenthrin	Helicoverpa sp. Bud Worm	POP	POP	ABND	LOAEL		60.88	d	60	Al g/ha	100	156493
Bifenthrin	Helicoverpa sp. Bud Worm	POP	POP	ABND	LOAEL		60.88	d	60	Al g/ha	100	156493
Bifenthrin	Helicoverpa sp. Bud Worm	POP	POP	ABND	LOAEL		60.88	d	60	Al g/ha	100	156493
Bifenthrin	Helicoverpa sp. Bud Worm	POP	POP	ABND	NOAEL			gs	60	Al g/ha	100	156493
Bifenthrin	Helicoverpa sp. Bud Worm	POP	POP	ABND	NOAEL		76.1	d	60	Al g/ha	100	156493
Bifenthrin	Helicoverpa sp. Bud Worm	POP	POP	ABND	NOAEL		60.88	d	60	Al g/ha	100	156493

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		20	d	0.033	Al lb/acre	100	88097
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		15	d	0.015	Al lb/acre	100	88706
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		15	d	0.015	Al lb/acre	100	88706
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		19	d	0.03	Al lb/acre	10	89059
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		19	d	0.04	Al lb/acre	10	154851
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		27	d	0.03	Al lb/acre	100	151097
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	87877
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	87877
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		10	d	0.5	Al lb/acre	100	154718
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		56	d	0.05	Al lb/acre	100	154721
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		17	d	0.025	Al lb/acre	100	121395
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		18	d	0.02	Al lb/acre	100	150320
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		18	d	0.033	Al lb/acre	100	150692
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		23	d	0.033	Al lb/acre	2	150698
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		23	d	0.04	Al lb/acre	2	150698
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		23	d	0.04	Al lb/acre	2	150698
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		19	d	0.04	Al lb/acre	100	154719
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		14	d	0.05	Al lb/acre	100	154722
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		41	d	0.05	Al lb/acre	100	154720

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		26	d	0.08	Al lb/acre	100	154730
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		26	d	0.025	Al lb/acre	100	121427
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		7	d	0.1	Al lb/acre	100	88100
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		20	d	0.03	Al lb/acre	100	150649
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		20	d	0.03	Al lb/acre	100	150649
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		1	gs	0.033	Al lb/acre	100	155255
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		26	d	0.05	Al lb/acre	100	103831
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		8	d	0.05	Al lb/acre	100	155315
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		24	d	0.02	Al lb/acre	100	121381
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		24	d	0.03	Al lb/acre	100	121381
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		22	d	0.025	Al lb/acre	100	121276
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		29	d	0.025	Al lb/acre	100	97876
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		29	d	0.025	Al lb/acre	100	97876
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		24	d		Al lb/acre	100	89061
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		11	d	0.05	Al lb/acre	100	89061
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOAEL		22	d	0.03	Al lb/acre	100	121276

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOEL		3	d	0.02	Al lb/acre	100	79285
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOEL		3	d	0.02	Al lb/acre	100	79285
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOEL		3	d	0.02	Al lb/acre	100	79285
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	LOEL		3	d	0.02	Al lb/acre	100	79285
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	NOAEL		20	d	0.04	Al lb/acre	100	88097
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	NOAEL		15	d	0.04	Al lb/acre	10	121401
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	NOAEL		27	d	0.03	Al lb/acre	100	151097
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	NOAEL		27	d	0.03	Al lb/acre	100	151097
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	NOAEL		1	d	0.04	Al lb/acre	100	87877
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	NOAEL		20	d	0.04	Al lb/acre	100	150685
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	NOAEL		20	d	0.04	Al lb/acre	100	150685
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	NOAEL		20	d	0.03	Al lb/acre	100	150649
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	NOAEL		29	d	0.03	Al lb/acre	100	97876
Bifenthrin	Helicoverpa zea Corn Earworm	POP	POP	ABND	NOAEL		22	d	0.1	Al lb/acre	100	156755
Bifenthrin	Heliothis virescens Budworm	POP	POP	ABND	LOAEL		28	d		Al kg/ha	100	153291
Bifenthrin	Heliothis virescens Budworm	POP	POP	ABND	LOAEL		14	d		Al kg/ha	100	153291
Bifenthrin	Heliothis virescens Budworm	POP	POP	ABND	LOAEL		42	d		Al kg/ha	100	153291
Bifenthrin	Heliothis virescens Budworm	POP	POP	ABND	LOAEL		10	d	0.045	Al kg/ha	100	154978
Bifenthrin	Heliothis virescens Budworm	POP	POP	ABND	LOAEL		3	d	0.045	Al kg/ha	100	154978

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	<i>Heliothis virescens</i> Budworm	POP	POP	ABND	LOAEL		4	d	0.045	Al kg/ha	100	154978
Bifenthrin	<i>Heliothis virescens</i> Budworm	POP	POP	ABND	LOAEL		15	d	2.4	fl oz/10 gal	100	156626
Bifenthrin	<i>Heliothis virescens</i> Budworm	POP	POP	ABND	NOAEL		40	d	2.4	fl oz/10 gal	100	156625
Bifenthrin	Hemiptera True Bug Order	POP	POP	ABND	NOAEL		0.0417	d	25	ppm	100	156659
Bifenthrin	Homoptera Scale Insect Order	POP	POP	ABND	NOAEL		9	d	119.826427	ppm	100	106260
Bifenthrin	Homoptera Scale Insect Order	POP	POP	ABND	NOAEL		23	d	119.826427	ppm	100	106260
Bifenthrin	<i>Hoplocampa testudinea</i> European Apple Sawfly	POP	POP	ABND	NOAEL		121.76	d	25	Al g/ha	10	89749
Bifenthrin	<i>Hypera postica</i> Weevil	POP	POP	ABND	LOAEL		3	d	0.03	Al lb/acre	100	151105
Bifenthrin	<i>Hypera postica</i> Weevil	POP	POP	ABND	LOAEL		8	d	0.1	Al lb/acre	2	150705
Bifenthrin	<i>Hypera postica</i> Weevil	POP	POP	ABND	LOEL		2	d	0.03	Al lb/acre	100	79777
Bifenthrin	<i>Hypothenemus</i> sp. Beetle	POP	POP	ABND	LOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	<i>Hypothenemus</i> sp. Beetle	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	<i>Hypothenemus</i> sp. Beetle	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	<i>Incurvaria capittella</i> Currant Shoot Borer	POP	POP	ABND	LOAEL			d	50	Al g/ha	10	156541
Bifenthrin	<i>Incurvaria capittella</i> Currant Shoot Borer	POP	POP	ABND	LOAEL			d	50	Al g/ha	10	156541
Bifenthrin	Insecta Insect Class	POP	POP	ABND	LOAEL		37	d	0.08	Al lb/acre	10	82736
Bifenthrin	Insecta Insect Class	POP	POP	ABND	LOAEL		17	d	0.025	Al lb/acre	100	121395
Bifenthrin	Insecta Insect Class	POP	POP	ABND	LOAEL		18	d	0.033	Al lb/acre	100	150692
Bifenthrin	Insecta Insect Class	POP	POP	ABND	LOAEL		16	d	0.25	Al lb/acre	100	155348

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Insecta Insect Class	POP	POP	ABND	LOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Insecta Insect Class	POP	POP	ABND	LOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Insecta Insect Class	POP	POP	ABND	LOAEL		60	d	7.9	ml/8.5 L	100	156704
Bifenthrin	Insecta Insect Class	POP	POP	ABND	LOAEL		60	d	7.9	ml/8.5 L	100	156704
Bifenthrin	Insecta Insect Class	POP	POP	ABND	LOAEL		60	d	7.9	ml/8.5 L	100	156704
Bifenthrin	Insecta Insect Class	POP	POP	ABND	NOAEL		60	d	7.9	ml/8.5 L	100	156704
Bifenthrin	Keiferia lycopersicella Tomato Pinworm	POP	POP	ABND	LOAEL		63	d	71.8958562	ppm	10	156644
Bifenthrin	Keiferia lycopersicella Tomato Pinworm	POP	POP	ABND	NOAEL			d	119.826427	ppm	10	156754
Bifenthrin	Keiferia lycopersicella Tomato Pinworm	POP	POP	ABND	NOAEL			d	119.826427	ppm	10	156754
Bifenthrin	Lasius neoniger Ant	POP	POP	ABND	NOAEL		14	d	0.2	Al lb/acre	100	110933
Bifenthrin	Lasius neoniger Ant	POP	POP	ABND	NOAEL		21	d	0.2	Al lb/acre	100	110933
Bifenthrin	Lasius neoniger Ant	POP	POP	ABND	NOAEL		28	d	0.2	Al lb/acre	100	110933
Bifenthrin	Lasius neoniger Ant	POP	POP	ABND	NOAEL		7	d	0.2	Al lb/acre	100	110933
Bifenthrin	Lasius neoniger Ant	POP	POP	ABND	NOAEL		14	d	0.2	Al lb/acre	100	110933
Bifenthrin	Lasius neoniger Ant	POP	POP	ABND	NOAEL		21	d	0.2	Al lb/acre	100	110933
Bifenthrin	Lasius neoniger Ant	POP	POP	ABND	NOAEL	LOAEL	7	d	0.1	Al lb/acre	100	110933
Bifenthrin	Lasius neoniger Ant	POP	POP	ABND	NOAEL		28	d	0.2	Al lb/acre	100	110933
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		28	d	0.04	Al lb/acre	100	121350
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		47	d	0.04	Al lb/acre	100	121350

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		20	d	0.033	Al lb/acre	100	88097
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		7	d	0.0031	Al lb/acre	100	156594
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		7	d	0.0031	Al lb/acre	0.3	156594
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		7	d	0.00313	Al lb/acre	100	156610
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		115	d	0.08	Al lb/acre	10	110769
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		1	gs	0.1	Al lb/acre	10	156527
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		129	d	0.06	Al lb/acre	10	156756
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		23	d	0.033	Al lb/acre	2	150698
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		23	d	0.04	Al lb/acre	2	150698
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		23	d	0.04	Al lb/acre	2	150698
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		16	d	0.033	Al lb/acre	100	153489
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		41	d	0.05	Al lb/acre	100	154720
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		26	d	0.025	Al lb/acre	100	121427
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		20	d	0.03	Al lb/acre	100	150649
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		20	d	0.03	Al lb/acre	100	150649
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		1	gs	0.033	Al lb/acre	100	155255
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		33	d	0.05	Al lb/acre	100	91337
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		24	d	0.02	Al lb/acre	100	121381
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		24	d	0.03	Al lb/acre	100	121381

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		22	d	0.025	Al lb/acre	100	121276
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		22	d	0.03	Al lb/acre	100	121276
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		7	d	0.00313	Al lb/acre	100	156610
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		7	d	0.0031	Al lb/acre	100	156594
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	LOAEL		42	d	0.025	Al lb/acre	2	107205
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL			hv	0.08	Al lb/acre	10	92323
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL		29	d	0.4	Al lb/acre	100	156550
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL		29	d	0.4	Al lb/acre	100	156550
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL		29	d	0.2	Al lb/acre	100	156550
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL		29	d	0.2	Al lb/acre	100	156550
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL		0.0417	d	25	ppm	100	156659
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL		30	d	0.075	Al lb/acre	10	156641
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL		20	d	0.04	Al lb/acre	100	150685
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL		20	d	0.04	Al lb/acre	100	150685
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL		20	d	0.03	Al lb/acre	100	150649
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL			d	0.44834	kg/ha	0.2	156540
Bifenthrin	Lepidoptera Moth And Butterfly Order	POP	POP	ABND	NOAEL		91	d	0.44834	kg/ha	0.2	156540
Bifenthrin	Leptinotarsa decemlineata Colorado Potato Beetle	POP	POP	ABND	LOAEL		11	d	0.025	Al lb/acre	100	88871
Bifenthrin	Leptinotarsa decemlineata Colorado Potato Beetle	POP	POP	ABND	LOAEL		68	d	0.04	Al lb/acre	100	154747

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Leptinotarsa decemlineata Colorado Potato Beetle	POP	POP	ABND	LOAEL		5	d	0.04	Al lb/acre	100	154748
Bifenthrin	Leptinotarsa decemlineata Colorado Potato Beetle	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	155166
Bifenthrin	Leptinotarsa decemlineata Colorado Potato Beetle	POP	POP	ABND	LOAEL		26	d	0.04	Al lb/acre	100	97784
Bifenthrin	Leptinotarsa decemlineata Colorado Potato Beetle	POP	POP	ABND	LOAEL		26	d	0.04	Al lb/acre	100	97784
Bifenthrin	Leucinodes orbonalis Fruit Borer	POP	POP	CNTL	LOEL		84	d	0.000001	%	0.01	81332
Bifenthrin	Limonius californicus Sugarbeet Wireworm	POP	POP	ABND	NOAEL		1	gs	0.1	Al lb/acre	100	88760
Bifenthrin	Limothrips denticornis Barley Thrip	POP	POP	ABND	LOAEL		4	d	0.025	Al lb/acre	100	88845
Bifenthrin	Lipaphis erysimi Turnip Aphid	POP	POP	ABND	LOAEL		25	d	0.05	Al lb/acre	10	154852
Bifenthrin	Liriomyza trifolii Serpentine Leafminer	POP	POP	ABND	LOAEL		64	d	0.1	Al lb/acre	100	151434
Bifenthrin	Liriomyza trifolii Serpentine Leafminer	POP	POP	ABND	LOEL		12	d	0.1	Al lb/acre	100	82466
Bifenthrin	Liriomyza trifolii Serpentine Leafminer	POP	POP	ABND	NOAEL		20	d	0.1	Al lb/acre	100	82728
Bifenthrin	Liriomyza trifolii Serpentine Leafminer	POP	POP	ABND	NOAEL		34	d	0.1	Al lb/acre	100	112601
Bifenthrin	Liriomyzasp.Leaf Miner Fly	POP	POP	ABND	NOAEL		91	d	0.1	Al lb/acre	10	98097
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		37	d	0.05	Al lb/acre	100	156554
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		42	d	0.13	Al lb/acre	100	155278
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		25	d	0.025	Al lb/acre	100	156564
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		25	d	0.025	Al lb/acre	0.2	156564
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		63	d	0.13	Al lb/acre	100	156570

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		49	d	0.13	Al lb/acre	100	156570
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		44	d	0.1	Al lb/acre	100	155268
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		36	d	0.05	Al lb/acre	100	156547
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		37	d	0.025	Al lb/acre	100	156554
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		37	d	0.05	Al lb/acre	100	156554
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		35	d	0.1	Al lb/acre	100	156590
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	LOAEL		59	d	0.05	Al lb/acre	100	156555
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	NOAEL		36	d	0.1	Al lb/acre	0.2	156547
Bifenthrin	Listronotus maculicollis Bluegrass Weevil	POP	POP	ABND	NOAEL	LOAEL	59	d	0.025	Al lb/acre	100	156555
Bifenthrin	Lumbricidae Oligochaete Family	POP	POP	BMAS	NOAEL		7	d	0.11	Al kg/ha	100	39542
Bifenthrin	Lumbricidae Oligochaete Family	POP	POP	ABND	NOAEL		21	d	0.11	Al kg/ha	100	39542
Bifenthrin	Lumbricidae Oligochaete Family	POP	POP	ABND	NOAEL		7	d	0.11	Al kg/ha	100	39542
Bifenthrin	Lumbricidae Oligochaete Family	POP	POP	BMAS	NOAEL		21	d	0.11	Al kg/ha	100	39542
Bifenthrin	Lumbricidae Oligochaete Family	POP	POP	BMAS	NOAEL		21	d	0.11	Al kg/ha	100	39542
Bifenthrin	Lumbricidae Oligochaete Family	POP	POP	BMAS	NOAEL		7	d	0.11	Al kg/ha	100	39542
Bifenthrin	Lumbricidae Oligochaete Family	POP	POP	ABND	NOAEL		21	d	0.11	Al kg/ha	100	39542
Bifenthrin	Lumbricidae Oligochaete Family	POP	POP	ABND	NOAEL		7	d	0.11	Al kg/ha	100	39542
Bifenthrin	Lygus lineolaris Tarnished Plant Bug	POP	POP	ABND	NOAEL		121.76	d	25	Al g/ha	10	89749
Bifenthrin	Lygussp.Plant Bug	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	100	151454

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Lygus sp. Plant Bug	POP	POP	ABND	LOAEL		2	d	0.04	lb/acre	100	121488
Bifenthrin	Lymantria dispar European Gypsy Moth	POP	POP	ABND	LOAEL		7	d	0.16	oz/acre	10	156632
Bifenthrin	Maladera insanabilis Scarab Beetle	POP	POP	ABND	LOAEL		74	d	0.1	L/ha	10	156732
Bifenthrin	Manduca sexta Hawk Moth	POP	POP	ABND	LOAEL		40	d		kg/ha	100	153291
Bifenthrin	Manduca sexta Hawk Moth	POP	POP	ABND	LOAEL		28	d		kg/ha	100	153291
Bifenthrin	Manduca sexta Hawk Moth	POP	POP	ABND	LOAEL		70	d		kg/ha	100	153291
Bifenthrin	Maruca testulalis Bean Pod Borer	POP	POP	ABND	LOAEL		25	d	30	g/ha	100	155382
Bifenthrin	Maruca testulalis Bean Pod Borer	POP	POP	ABND	LOAEL		27	d	30	g/ha	100	155382
Bifenthrin	Maruca testulalis Bean Pod Borer	POP	POP	ABND	LOAEL		25	d	30	g/ha	100	155382
Bifenthrin	Megalurothrips sjostedti Bean Flower Thrip	POP	POP	ABND	LOAEL		25	d	30	g/ha	100	155382
Bifenthrin	Megalurothrips sjostedti Bean Flower Thrip	POP	POP	ABND	LOAEL		27	d	30	g/ha	100	155382
Bifenthrin	Megalurothrips sjostedti Bean Flower Thrip	POP	POP	ABND	LOAEL		25	d	30	g/ha	100	155382
Bifenthrin	Melanagromyza aobtusata Pigeonpea Podfly	POP	POP	ABND	LOAEL		120	d	80	g/ha	100	100338
Bifenthrin	Melanagromyza aobtusata Pigeonpea Podfly	POP	POP	ABND	NOAEL		120	d	80	g/ha	100	100338
Bifenthrin	Melanoplus femurrubrum Redlegged Grasshopper	POP	POP	ABND	LOAEL		1	d	0.06	lb/acre	100	88124
Bifenthrin	Melanoplus femurrubrum Redlegged Grasshopper	POP	POP	ABND	LOAEL		8	d	0.06	lb/acre	100	88124
Bifenthrin	Miridae Leaf Bug Family	POP	POP	ABND	NOAEL		121.76	d	25	g/ha	10	89749

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Murgantia histrionica Harlequin Bug	POP	POP	ABND	LOAEL		37	d	0.08	Al lb/acre	10	82736
Bifenthrin	Myzus persicae Green Peach Aphid	POP	POP	ABND	LOAEL		28	d		Al kg/ha	100	153291
Bifenthrin	Myzus persicae Green Peach Aphid	POP	POP	ABND	LOAEL		14	d		Al kg/ha	100	153291
Bifenthrin	Myzus persicae Green Peach Aphid	POP	POP	ABND	LOAEL		42	d		Al kg/ha	100	153291
Bifenthrin	Nabis sp. Damsel Bug	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	87876
Bifenthrin	Nabis sp. Damsel Bug	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	87876
Bifenthrin	Nabis sp. Damsel Bug	POP	POP	ABND	LOAEL		2	d	0.08	Al lb/acre	100	90192
Bifenthrin	Nabis sp. Damsel Bug	POP	POP	ABND	NOAEL		1	d	0.04	Al lb/acre	100	87876
Bifenthrin	Neuroptea Lacewing Order	POP	POP	ABND	NOAEL		0.0417	d	25	ppm	100	156659
Bifenthrin	Nezara viridula Stink Bug	POP	POP	ABND	NOAEL			d	119.826427	ppm	10	156754
Bifenthrin	Nezara viridula Stink Bug	POP	POP	ABND	NOAEL			d	119.826427	ppm	10	156754
Bifenthrin	Noctuidae Moth Family	POP	POP	ABND	LOAEL		3	d	0.06	Al lb/acre	100	92328
Bifenthrin	Noctuidae Moth Family	POP	POP	ABND	LOAEL		3	d	0.06	Al lb/acre	100	89145
Bifenthrin	Noctuidae Moth Family	POP	POP	ABND	LOAEL		3	d	0.06	Al lb/acre	100	89145
Bifenthrin	Noctuidae Moth Family	POP	POP	ABND	LOAEL		3	d	0.06	Al lb/acre	100	89145
Bifenthrin	Oligonychus pratensis Banks Grass Mite	POP	POP	ABND	LOAEL		20	d	0.08	Al lb/acre	100	156613
Bifenthrin	Oligonychus pratensis Banks Grass Mite	POP	POP	ABND	LOAEL		21	d	0.08	Al lb/acre	100	156614
Bifenthrin	Oligonychus pratensis Banks Grass Mite	POP	POP	ABND	LOAEL		21	d	0.08	Al lb/acre	100	156614
Bifenthrin	Oligonychus pratensis Banks Grass Mite	POP	POP	ABND	LOAEL		21	d	0.08	Al lb/acre	100	156614

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Oligonychus pratensis Banks Grass Mite	POP	POP	ABND	NOAEL		28	d	90	AI g/ha	100	154810
Bifenthrin	Oligonychus pratensis Banks Grass Mite	POP	POP	ABND	NOAEL		7	d	0.08	AI lb/acre	100	156614
Bifenthrin	Oligonychus pratensis Banks Grass Mite	POP	POP	ABND	NOAEL		14	d	0.08	AI lb/acre	100	156614
Bifenthrin	Oligonychus pratensis Banks Grass Mite	POP	POP	ABND	NOAEL		7	d	0.08	AI lb/acre	100	156614
Bifenthrin	Oligonychus pratensis Banks Grass Mite	POP	POP	ABND	NOAEL		14	d	0.08	AI lb/acre	100	156614
Bifenthrin	Oligonychus pratensis Banks Grass Mite	POP	POP	ABND	NOAEL		7	d	0.08	AI lb/acre	100	156614
Bifenthrin	Oligonychus pratensis Banks Grass Mite	POP	POP	ABND	NOAEL		14	d	0.08	AI lb/acre	100	156614
Bifenthrin	Orius tricolor Minute Flour Bug	POP	POP	ABND	NOAEL		32	d	0.12	AI lb/acre	100	90192
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		32	d	0.08	AI lb/acre	100	121279
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		36	d	0.08	AI lb/acre	100	121283
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		36	d	0.04	AI lb/acre	100	121286
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		20	d	0.033	AI lb/acre	100	88097
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		45	d	0.04	AI lb/acre	100	154729
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		27	d	0.03	AI lb/acre	100	151097
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		27	d	0.03	AI lb/acre	100	151097
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		27	d	0.03	AI lb/acre	100	151097
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL			d	0.04	AI lb/acre	100	96170
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		27	d	0.025	AI lb/acre	100	121348
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		24	d	0.025	AI lb/acre	100	121348

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		20	d	0.025	Al lb/acre	100	121348
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		50	d	0.08	Al lb/acre	100	155251
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		34	d	0.05	Al lb/acre	100	154721
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		30	d	0.01	Al lb/acre	100	88670
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		30	d	0.01	Al lb/acre	100	88670
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		30	d	0.01	Al lb/acre	100	88670
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		36	d	0.02	Al lb/acre	100	150326
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		36	d	0.02	Al lb/acre	100	150326
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		14	d	0.04	Al lb/acre	100	150381
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		31	d	0.02	Al lb/acre	100	150325
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		18	d	0.033	Al lb/acre	100	150692
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		30.44	d	0.02	Al lb/acre	100	150697
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		30.44	d	0.02	Al lb/acre	2	150697
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		23	d	0.033	Al lb/acre	2	150698
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		23	d	0.04	Al lb/acre	2	150698
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		23	d	0.04	Al lb/acre	2	150698
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		40	d	90	Al g/ha	100	154810
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		26	d	0.025	Al lb/acre	100	121427
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		16	d	0.25	Al lb/acre	100	155348

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Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		20	d	0.04	Al lb/acre	100	150685
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		20	d	0.033	Al lb/acre	100	150685
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		1	gs	0.033	Al lb/acre	100	155255
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		55	d	0.05	Al lb/acre	100	103831
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		35	d	0.05	Al lb/acre	100	155315
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		24	d	0.02	Al lb/acre	100	121381
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		24	d	0.03	Al lb/acre	100	121381
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL			d	0.08	Al lb/acre	100	155340
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		22	d	0.025	Al lb/acre	100	121276
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		24	d	0.025	Al lb/acre	100	106182
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		24	d	0.03	Al lb/acre	100	106182
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL			d	0.033	Al lb/acre	100	150708
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		33	d	0.045	Al kg/ha	100	150375
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		20	d	0.08	Al lb/acre	100	156613
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		36	d	0.08	Al lb/acre	2	156642
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		86	d	0.08	Al lb/acre	100	156612
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		86	d	0.08	Al lb/acre	100	156612

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Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		86	d	0.08	Al lb/acre	100	156612
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL			d	0.04	Al lb/acre	100	79778
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL		22	d	0.03	Al lb/acre	100	121276
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOAEL			d	0.022	Al kg/ha	100	79800
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	LOEL		26	d	0.03	Al lb/acre	100	79275
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	NOAEL		31	d	0.03	Al lb/acre	100	121210
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	NOAEL		17	d	0.04	Al lb/acre	100	153381
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	NOAEL		17	d	0.04	Al lb/acre	100	153381
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	NOAEL		41	d	0.05	Al lb/acre	100	154720
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	NOAEL		20	d	0.03	Al lb/acre	100	150649
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	NOAEL		20	d	0.03	Al lb/acre	100	150649
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	NOAEL		20	d	0.03	Al lb/acre	100	150649
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	NOAEL		59	d	0.08	Al lb/acre	100	156614
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	NOAEL		59	d	0.08	Al lb/acre	100	156614
Bifenthrin	Ostrinia nubilalis European Corn Borer	POP	POP	ABND	NOAEL		59	d	0.08	Al lb/acre	100	156614
Bifenthrin	Otiorhynchus ovatus Strawberry Root Weevil	POP	POP	ABND	LOAEL		7	d	0.1	Al lb/acre	10	156530
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL		7	d	0.1	Al lb/acre	10	156532
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL		7	d	0.1	Al lb/acre	10	156532
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL		3	d	0.1	Al lb/acre	10	156533

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Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL		7	d	0.1	Al lb/acre	10	156531
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL		6	d	0.1	Al lb/acre	10	156534
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL		6	d	0.1	Al lb/acre	10	156534
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL		3	d	0.1	Al lb/acre	10	156521
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL		3	d	0.1	Al lb/acre	10	154836
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL		3	d	0.1	Al lb/acre	10	154836
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL		7	d		Al kg/ha	100	153359
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL			d		Al kg/ha	100	153359
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	LOAEL			d	119.826427	ppm	100	156745
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	NOAEL		3	d	0.1	Al lb/acre	10	156531
Bifenthrin	Otiorhynchus sulcatus Black Vine Weevil	POP	POP	ABND	NOAEL			d	25	ppm	100	156745
Bifenthrin	Otiorhynchussp.Weevil	POP	POP	ABND	LOAEL		2	d	0.1	Al lb/acre	10	156526
Bifenthrin	Oulema melanopus Cereal Leaf Beetle	POP	POP	ABND	LOAEL		1	d	0.03	Al lb/acre	2	88698
Bifenthrin	Oulema melanopus Cereal Leaf Beetle	POP	POP	ABND	LOAEL		5	d	0.03	Al lb/acre	100	88699
Bifenthrin	Oulema melanopus Cereal Leaf Beetle	POP	POP	ABND	LOAEL		7	d	0.03	Al lb/acre	100	88699
Bifenthrin	Oulema melanopus Cereal Leaf Beetle	POP	POP	ABND	LOAEL		12	d	0.03	Al lb/acre	100	88699
Bifenthrin	Oulema melanopus Cereal Leaf Beetle	POP	POP	ABND	LOAEL		1	d	0.03	Al lb/acre	100	88699
Bifenthrin	Oulema melanopus Cereal Leaf Beetle	POP	POP	ABND	LOAEL		1	d	0.04	Al lb/acre	100	87875
Bifenthrin	Oulema melanopus Cereal Leaf Beetle	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	87875

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Oulema melanopus Cereal Leaf Beetle	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	87875
Bifenthrin	Oulema melanopus Cereal Leaf Beetle	POP	POP	ABND	NOAEL		16	d	0.03	Al lb/acre	100	88699
Bifenthrin	Panonychus ulmi European Red Mite	POP	POP	ABND	LOAEL		46	d	50	Al g/ha	10	89749
Bifenthrin	Panonychus ulmi European Red Mite	POP	POP	ABND	NOAEL		61	d	50	Al g/ha	10	89749
Bifenthrin	Panonychus ulmi European Red Mite	POP	POP	ABND	NOAEL		67	d	50	Al g/ha	10	89749
Bifenthrin	Panonychus ulmi European Red Mite	POP	POP	ABND	NOAEL		75	d	50	Al g/ha	10	89749
Bifenthrin	Panonychus ulmi European Red Mite	POP	POP	ABND	NOAEL		88	d	50	Al g/ha	10	89749
Bifenthrin	Panonychus ulmi European Red Mite	POP	POP	ABND	NOAEL		95	d	50	Al g/ha	10	89749
Bifenthrin	Panonychus ulmi European Red Mite	POP	POP	ABND	NOAEL		730	d	50	Al g/ha	10	89749
Bifenthrin	Papaipema nebris Stalk Borer	POP	POP	CNTL	LOAEL		14	d	0.02	Al lb/acre	100	88664
Bifenthrin	Papaipema nebris Stalk Borer	POP	POP	CNTL	LOAEL		38	d	0.02	Al lb/acre	100	88664
Bifenthrin	Pentalonia nigronervosa Banana Aphid	POP	POP	ABND	LOAEL		1	d	200	ppm	100	153518
Bifenthrin	Pentalonia nigronervosa Banana Aphid	POP	POP	ABND	LOAEL		9	d	119.826427	ppm	100	106260
Bifenthrin	Pentalonia nigronervosa Banana Aphid	POP	POP	ABND	NOAEL		23	d	119.826427	ppm	100	106260
Bifenthrin	Phyllophaga anxia Cranberry White Grub	POP	POP	ABND	LOAEL		167.42	d	0.302	Al kg/378 L	100	156604
Bifenthrin	Phyllophaga anxia Cranberry White Grub	POP	POP	ABND	LOAEL		152.2	d	0.22	Al kg/ha	100	156604
Bifenthrin	Phyllophaga anxia Cranberry White Grub	POP	POP	ABND	LOAEL		152.2	d	0.22	Al kg/ha	100	156604
Bifenthrin	Phyllophaga anxia Cranberry White Grub	POP	POP	ABND	LOAEL		167.42	d	0.302	Al kg/378 L	100	156604

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	POP	POP	ABND	LOAEL		14	d	0.025	Al lb/acre	100	88850
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	POP	POP	ABND	LOAEL		6	d	0.025	Al lb/acre	100	88850
Bifenthrin	Phyllotreta cruciferae Crucifer Flea Beetle	POP	POP	ABND	NOAEL		82	d	0.04	Al lb/acre	2	156649
Bifenthrin	Pieris rapae Cabbage White	POP	POP	ABND	LOAEL			d	0.033	Al lb/acre	100	88141
Bifenthrin	Plathypena scabra Green Cloverworm	POP	POP	ABND	LOAEL		1	d	0.04	Al lb/acre	100	87876
Bifenthrin	Plathypena scabra Green Cloverworm	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	87876
Bifenthrin	Plathypena scabra Green Cloverworm	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	87876
Bifenthrin	Plutella xylostella Diamondback Moth	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	151454
Bifenthrin	Plutella xylostella Diamondback Moth	POP	POP	CNTL	LOAEL		4	d	0.05	Al lb/acre	100	90586
Bifenthrin	Plutella xylostella Diamondback Moth	POP	POP	ABND	LOAEL		30	d	0.05	Al lb/acre	10	156641
Bifenthrin	Plutella xylostella Diamondback Moth	POP	POP	ABND	LOAEL		3	d	0.04	Al lb/acre	100	106191
Bifenthrin	Plutella xylostella Diamondback Moth	POP	POP	ABND	LOAEL		2	d	0.04	Al lb/acre	100	121488
Bifenthrin	Plutella xylostella Diamondback Moth	POP	POP	ABND	LOAEL			d	0.033	Al lb/acre	100	88141
Bifenthrin	Plutella xylostella Diamondback Moth	POP	POP	ABND	NOAEL			d	1	L/1041 L/ha	100	116392
Bifenthrin	Plutella xylostella Diamondback Moth	POP	POP	ABND	NOAEL		14	d	0.1	Al lb/acre	100	88100
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL			d	820	ppm	100	109041
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL			d	410	ppm	100	109041
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL			d	270	ppm	100	109041
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL			d	270	ppm	100	109041

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL			d	140	ppm	100	109041
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL			d	140	ppm	100	109041
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL			d	820	ppm	100	109041
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL			d	410	ppm	100	109041
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL			d	270	ppm	100	109041
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL			d	270	ppm	100	109041
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL		37	d	0.11	AI kg/ha	1.75	156643
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL		37	d	0.11	AI kg/ha	1.75	156643
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL		36	d	0.126324	AI lb/acre	0.2	156544
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL		91.32	d	226.8	AI lb/acre	7.9	121195
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL		37	d	0.28	AI kg/ha	0.2	156643
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	LOAEL		21	d	29.95660675	ppm	100	119731
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		53	d	0.1	AI lb/acre	100	156575
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		53	d	0.1	AI lb/acre	100	156575
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		53	d	0.1	AI lb/acre	0.3	156575
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		53	d	0.1	AI lb/acre	0.3	156575
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL	LOAEL	29	d	0.2	AI lb/acre	100	156550
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		29	d	0.2	AI lb/acre	100	156550
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		37	d	0.11	AI kg/ha	10	156643

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL	LOAEL	37	d	0.11	Al kg/ha	10	156643
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		37	d	0.56	Al kg/ha	0.2	156643
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		37	d	0.28	Al kg/ha	0.2	156643
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		37	d	0.56	Al kg/ha	0.2	156643
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		53	d	0.1	Al lb/acre	100	156575
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		53	d	0.1	Al lb/acre	100	156575
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		368	d	2	Al lb/acre	0.2	156597
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		42	d	0.2	Al lb/acre	0.2	156546
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		36	d	0.2	Al lb/acre	0.2	156548
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		40	d	0.2	Al lb/acre	0.2	156600
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		96	d	0.2	Al lb/acre	100	156598
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		96	d	0.4	Al lb/acre	0.2	156598
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		77	d	0.05	Al lb/acre	100	156628
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		77	d	0.05	Al lb/acre	100	156628
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		41	d	0.2	Al lb/acre	100	156545
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		41	d	0.1	Al lb/acre	100	156545
Bifenthrin	Popillia japonica Japanese Beetle	POP	POP	ABND	NOAEL		31	d	239.652854	ppm	100	156631
Bifenthrin	Pseudococcidae Mealybug Family	POP	POP	ABND	NOAEL		1	d	200	ppm	100	153518
Bifenthrin	Pyralidae Grass Moth Family	POP	POP	ABND	LOAEL		4	d	0.05	Al lb/acre	100	156611

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Pyralidae Grass Moth Family	POP	POP	ABND	LOAEL		4	d	0.05	Al lb/acre	100	156611
Bifenthrin	Pyralidae Grass Moth Family	POP	POP	ABND	LOAEL		4	d	0.025	Al lb/acre	100	156611
Bifenthrin	Pyralidae Grass Moth Family	POP	POP	ABND	LOAEL		4	d	0.0125	Al lb/acre	100	156611
Bifenthrin	Pyralidae Grass Moth Family	POP	POP	ABND	LOAEL		4	d	0.1	Al lb/acre	100	156611
Bifenthrin	Pyralidae Grass Moth Family	POP	POP	ABND	LOAEL		7	d	0.1	Al lb/acre	100	156639
Bifenthrin	Rhizotrogus majalis European Chafer	POP	POP	ABND	LOAEL		77	d	0.05	Al lb/acre	0.2	156523
Bifenthrin	Rhizotrogus majalis European Chafer	POP	POP	ABND	NOAEL		77	d	0.05	Al lb/acre	100	156523
Bifenthrin	Rhizotrogus majalis European Chafer	POP	POP	ABND	NOAEL		31	d	0.2	Al lb/acre	100	156636
Bifenthrin	Rhyzopertha dominica Lesser Grain Borer	POP	POP	ABND	LOAEL		30	d	0.4	ppm	100	87665
Bifenthrin	Scarabaeidae Scarab Beetle Family	POP	POP	ABND	NOAEL		52	d	1.4	Al lb/acre	100	156569
Bifenthrin	Sceliodes cordalis Eggfruit Caterpillar	POP	POP	ABND	LOAEL		49	d	60	Al g/ha	100	156562
Bifenthrin	Sceliodes cordalis Eggfruit Caterpillar	POP	POP	ABND	LOAEL		28	d	60	Al g/ha	100	156562
Bifenthrin	Sceliodes cordalis Eggfruit Caterpillar	POP	POP	ABND	LOAEL		28	d	60	Al g/ha	100	156562
Bifenthrin	Sceliodes cordalis Eggfruit Caterpillar	POP	POP	ABND	LOAEL		28	d	60	Al g/ha	100	156562
Bifenthrin	Sciothrips cardamomi Cardamom Thrip	POP	POP	ABND	LOAEL		23	d	119.826427	ppm	100	106260
Bifenthrin	Sciothrips cardamomi Cardamom Thrip	POP	POP	ABND	LOAEL		9	d	119.826427	ppm	100	106260
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	POP	POP	ABND	LOAEL		7	d	0.56	Al kg/ha	100	156605
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	POP	POP	ABND	LOAEL		7	d	0.44834	kg/ha	0.2	156540
Bifenthrin	Solenopsis invicta Red Imported Fire Ant	POP	POP	ABND	LOAEL		7	d	0.44834	kg/ha	0.2	156540

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Sphenophorus parvulus Bluegrass Billbug	POP	POP	ABND	LOAEL		48	d	0.1	Al lb/acre	100	156638
Bifenthrin	Sphenophorus parvulus Bluegrass Billbug	POP	POP	ABND	LOAEL		48	d	0.05	Al lb/acre	100	156638
Bifenthrin	Sphenophorus parvulus Bluegrass Billbug	POP	POP	ABND	LOAEL		48	d	0.05	Al lb/acre	100	156638
Bifenthrin	Sphenophorus parvulus Bluegrass Billbug	POP	POP	ABND	LOAEL		48	d	0.05	Al lb/acre	100	156638
Bifenthrin	Sphenophorus venatus ssp. vestitus Hunting Billbug	POP	POP	ABND	NOAEL		21	d	123	Al g/ha	100	156768
Bifenthrin	Sphenophorus venatus ssp. vestitus Hunting Billbug	POP	POP	ABND	NOAEL		21	d	123	Al g/ha	100	156768
Bifenthrin	Spodoptera eridania Southern Army Worm	POP	POP	ABND	LOAEL			d	119.826427	ppm	10	156754
Bifenthrin	Spodoptera eridania Southern Army Worm	POP	POP	ABND	LOAEL			d	119.826427	ppm	10	156754
Bifenthrin	Spodoptera exigua Beet Armyworm	POP	POP	ABND	LOAEL		12	d	0.1	Al lb/acre	100	151434
Bifenthrin	Spodoptera exigua Beet Armyworm	POP	POP	ABND	LOAEL		60	d	0.06	Al lb/acre	100	112601
Bifenthrin	Spodoptera exigua Beet Armyworm	POP	POP	ABND	LOAEL		3	d	0.06	Al lb/acre	100	155303
Bifenthrin	Spodoptera exigua Beet Armyworm	POP	POP	ABND	LOEL			hv	0.1	Al lb/acre	100	82466
Bifenthrin	Spodoptera exigua Beet Armyworm	POP	POP	ABND	NOAEL	LOAEL	56	d	0.06	Al lb/acre	100	82728
Bifenthrin	Spodoptera exigua Beet Armyworm	POP	POP	ABND	NOAEL		11	d	0.06	Al lb/acre	100	155303
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		29	d	0.025	Al lb/acre	100	88712
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		42	d	0.025	Al lb/acre	100	88712
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		15	d	0.015	Al lb/acre	100	88706

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		15	d	0.015	Al lb/acre	100	88706
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		40	d	0.5	Al lb/acre	100	154718
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		33	d	0.05	Al lb/acre	100	154722
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		41	d	0.05	Al lb/acre	100	154720
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		26	d	0.05	Al lb/acre	100	103831
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		24	d	0.02	Al lb/acre	100	121381
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		24	d	0.03	Al lb/acre	100	121381
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		22	d	0.025	Al lb/acre	100	121276
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	LOAEL		22	d	0.03	Al lb/acre	100	121276
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	NOAEL		18	d	0.04	Al lb/acre	100	150692
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	NOAEL		5	d	0.08	Al lb/acre	100	150665
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	NOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	NOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	NOAEL		16	d	0.25	Al lb/acre	100	155348
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	NOAEL		20	d	0.04	Al lb/acre	100	150685
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	NOAEL		20	d	0.04	Al lb/acre	100	150685
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	NOAEL		20	d	0.03	Al lb/acre	100	150649
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	NOAEL		20	d	0.03	Al lb/acre	100	150649
Bifenthrin	Spodoptera frugiperda Fall Armyworm	POP	POP	ABND	NOAEL		20	d	0.03	Al lb/acre	100	150649

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Spodoptera sp. Army Worm	POP	POP	ABND	LOAEL		63	d	71.8958562	ppm	10	156644
Bifenthrin	Stigmella malella Leaf Miner	POP	POP	ABND	LOAEL		1	gs	4	Al g/hl	10	156779
Bifenthrin	Stigmella malella Leaf Miner	POP	POP	ABND	LOAEL		1	gs	1.25	Al g/hl	10	156779
Bifenthrin	Stigmella malella Leaf Miner	POP	POP	ABND	LOAEL		1	gs	4	Al g/hl	10	156779
Bifenthrin	Technomyrmex albipes White Footed Ant	POP	POP	ABND	LOAEL		1	d	200	ppm	100	153518
Bifenthrin	Technomyrmex albipes White Footed Ant	POP	POP	ABND	LOAEL		23	d	600	ppm	100	115774
Bifenthrin	Technomyrmex albipes White Footed Ant	POP	POP	ABND	LOAEL		43	d	600	ppm	100	115774
Bifenthrin	Tetranychidae Mite Family	POP	POP	ABND	LOAEL		19	d	0.08	Al lb/acre	10	156648
Bifenthrin	Tetranychidae Mite Family	POP	POP	ABND	NOAEL		78	d	0.1	Al lb/acre	10	156629
Bifenthrin	Tetranychidae Mite Family	POP	POP	ABND	NOAEL		90	d	0.1	Al lb/acre	10	156756
Bifenthrin	Tetranychidae Mite Family	POP	POP	ABND	NOAEL		46	d	44.6	Al g/ha	100	121355
Bifenthrin	Tetranychidae Mite Family	POP	POP	ABND	NOAEL		14	d	89.7	Al g/ha	100	154811
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	POP	POP	ABND	LOAEL		7	d	44.8	Al g/ha	100	121353
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	POP	POP	ABND	LOAEL		2	d	0.1	Al lb/acre	100	156755
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	POP	POP	ABND	NOAEL		75	d	50	Al g/ha	10	89749
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	POP	POP	ABND	NOAEL		88	d	50	Al g/ha	10	89749
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	POP	POP	ABND	NOAEL		95	d	50	Al g/ha	10	89749
Bifenthrin	Tetranychus urticae Two-Spotted Spider	POP	POP	ABND	NOAEL			gs	0.04	Al lb/acre	100	96170

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
	Mite											
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	POP	POP	ABND	NOAEL		14	d	0.08	Al lb/acre	100	155251
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	POP	POP	ABND	NOAEL		14	d	0.08	Al lb/acre	100	150381
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	POP	POP	ABND	NOAEL		28	d	0.08	Al lb/acre	100	156612
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	POP	POP	ABND	NOAEL		28	d	0.08	Al lb/acre	100	156612
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	POP	POP	ABND	NOAEL		28	d	0.08	Al lb/acre	100	156612
Bifenthrin	Tetranychus urticae Two-Spotted Spider Mite	POP	POP	ABND	NOAEL		730	d	50	Al g/ha	10	89749
Bifenthrin	Thripidae Thrip Family	POP	POP	ABND	LOAEL		7	d	0.04	Al lb/acre	100	88773
Bifenthrin	Thrips tabaci Onion Thrip	POP	POP	ABND	LOAEL		11	d	0.04	Al lb/acre	100	88723
Bifenthrin	Thrips tabaci Onion Thrip	POP	POP	ABND	LOAEL		12	d	0.04	Al lb/acre	100	88723
Bifenthrin	Thrips tabaci Onion Thrip	POP	POP	ABND	LOAEL		15	d	0.04	Al lb/acre	100	88723
Bifenthrin	Thrips tabaci Onion Thrip	POP	POP	ABND	LOAEL		4	d	0.04	Al lb/acre	100	88723
Bifenthrin	Thrips tabaci Onion Thrip	POP	POP	ABND	LOAEL		1	d	0.04	Al lb/acre	100	88723
Bifenthrin	Thysanoptera Thrip Order	POP	POP	ABND	LOAEL		0.0417	d	25	ppm	100	156659
Bifenthrin	Toya propinqua Bug	POP	POP	ABND	LOAEL		2	d	0.08	Al lb/acre	100	90192
Bifenthrin	Trialeurodes vaporariorum Greenhouse Whitefly	POP	POP	ABND	LOAEL		15	d	1400	ppm	10	62944
Bifenthrin	Trialeurodes vaporariorum Greenhouse Whitefly	POP	POP	ABND	LOAEL		28	d	1400	ppm	10	62944

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		21	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		11	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		11	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		14	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		14	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		25	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		27	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		3	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		3	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		6	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		6	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		37	d	0.08	Al lb/acre	10	82736
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		12	d	0.08	Al lb/acre	10	82736
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		2	d	0.08	Al lb/acre	10	82736
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		27	d	0.08	Al lb/acre	10	82736
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		34	d	0.08	Al lb/acre	10	82736
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		7	d	0.08	Al lb/acre	10	82736
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	CNTL	LOAEL		4	d	0.05	Al lb/acre	100	90586
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		6	d	0.05	Al lb/acre	10	154852

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Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		30	d	0.05	Al lb/acre	10	156641
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL			d	0.033	Al lb/acre	100	88141
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOAEL		3	d	0.06	Al lb/acre	100	155303
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOEL		28	d	0.04	Al lb/acre	100	82725
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	LOEL		28	d	0.04	Al lb/acre	100	82725
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOAEL		18	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOAEL		18	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOAEL		21	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOAEL		25	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOAEL		27	d	0.08	Al lb/acre	10	92323
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOAEL		37	d	0.08	Al lb/acre	10	82736
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOAEL		15	d	0.08	Al lb/acre	10	82736
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOAEL		21	d	0.08	Al lb/acre	10	82736
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOAEL		35	d	0.05	Al lb/acre	10	154852
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOAEL		30	d	0.075	Al lb/acre	10	156641
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOAEL		11	d	0.06	Al lb/acre	100	155303
Bifenthrin	Trichoplusia ni Cabbage Looper	POP	POP	ABND	NOEL		28	d	0.04	Al lb/acre	100	82725
Bifenthrin	Trigonotylus tenuis Leaf Bug	POP	POP	ABND	LOAEL		2	d	0.08	Al lb/acre	100	90192
Bifenthrin	Trioxys pallidus Parasitic Wasp	POP	POP	ABND	LOAEL		83	d	0.06	Al lb/acre	10	156756

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
Bifenthrin	Xyleborinuss axeseni Fruit-tree Pinhole Borer	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Xyleborinuss axeseni Fruit-tree Pinhole Borer	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Xyleborus ferrugineus Black Twig Borer	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Xyleborus glabratus Redbay Ambrosia Beetle	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Xyleborus volvulus Ambrosia Beetle	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Xyleborus volvulus Ambrosia Beetle	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Xylosandrus crassiusculus Asian Ambrosia Beetle	POP	POP	ABND	LOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Xylosandrus crassiusculus Asian Ambrosia Beetle	POP	POP	ABND	LOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Xylosandrus crassiusculus Asian Ambrosia Beetle	POP	POP	ABND	NOAEL		21	d	6.024	oz	25.1	156617
Bifenthrin	Acarophenax lacunatus Parasitic Mite	REP	REP	PRFM	NOAEL		23	d	0.4	ppm	100	87665
Bifenthrin	Aphidius rhopalosiphi Parasitic Wasp	REP	REP	FERT	NOAEL			d	7.5	AI g/ha	100	110131
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	REP	REP	FCND	LOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	REP	AEG	WGHT	LOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	REP	REP	FCND	LOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	REP	AEG	WGHT	LOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	REP	REP	FCND	LOAEL		20	d	6.9	ppm	100	156536
Bifenthrin	Apis mellifera ssp. ligustica Italian Honeybee	REP	AEG	WGHT	LOAEL		20	d	6.9	ppm	100	156536

Table H-6: Terrestrial Invertebrate Data from ECOTOX

Chemical Name	Species	Effect Group	Effect	Measurement	Endpoint 1	Endpoint 2	Mean Duration Preferred Units	Preferred Duration Unit	Mean Concentration Value Preferred Units	Concentration Units preferred	% Purity	Ref #
	Honeybee											
Bifenthrin	Bombus terrestris Buff Tailed Bumblebee	REP	REP	PROG	LOAEL		77	d	30	ppm	100	156528
Bifenthrin	Bombus terrestris Buff Tailed Bumblebee	REP	REP	PROG	LOAEL		77	d	30	ppm	100	156528
Bifenthrin	Bombus terrestris Buff Tailed Bumblebee	REP	REP	PROG	LOAEL		77	d	30	ppm	100	156528
Bifenthrin	Rhyzopertha dominica Lesser Grain Borer	REP	REP	PROG	NOAEL		30	d	0.4	ppm	100	87665