

Appendix E. Summary of Accepted Ecotox Data

Chemical Formulation	Genus	Species	Common Name	Effect	Meas	Endpt1	Endpt2	Habitat	Plant/Animal	Dur Preferred Mean	Dur Unit Preferred	Conc Type	Conc #1 Purity Adjusted Mean	Conc #1 Purity Adjusted in Preferred Unit Mean
	Spermophilus	beecheyi	California Ground Squirrel	MOR	MORT	NR-ZERO		terrestrial	Animal	5 d		F	1	1
PEL	Callipepla	californica	California Quail	GRO	WGHT	NOEL		terrestrial	Animal		d	A	50	50
PEL	Callipepla	californica	California Quail	PHY	PTIM	NOEL		terrestrial	Animal	7 d		A	50	50
PEL	Callipepla	californica	California Quail	PHY	PTIM	NOEL		terrestrial	Animal	14 d		A	50	50
PEL	Callipepla	californica	California Quail	PHY	PTIM	NOEL		terrestrial	Animal	23 d		A	50	50
PEL	Callipepla	californica	California Quail	PHY	PTIM	NOEL		terrestrial	Animal	36 d		A	50	50
	Canis	familiaris	Domestic Dog	BCM	GBCM	LOAEL		terrestrial	Animal	3 d		F	5	5
	Canis	familiaris	Domestic Dog	BCM	GBCM	LOAEL		terrestrial	Animal	4 d		F	0.005	0.005
	Canis	familiaris	Domestic Dog	BCM	GBCM	LOAEL		terrestrial	Animal	4 d		F	0.005	0.005
	Limax	maximus	Giant Garden Slug	MOR	MORT	NR-ZERO		terrestrial	Animal	14 d		F	0.005	0.005
	Oxychilus	sp.	Glass Snail	MOR	MORT	NR-ZERO		terrestrial	Animal	14 d		F	0.005	0.005
	Aquila	chrysaetos	Golden Eagle	PHY	CTIM	LOAEL		terrestrial	Animal	10 d		A	1.6	1.6
	Aquila	chrysaetos	Golden Eagle	BCM	HMCT	NOAEL		terrestrial	Animal	10 d		A	1.6	1.6
	Aquila	chrysaetos	Golden Eagle	BCM	PRTL	LOEL		Terrestrial	Animal	0 d			1.6	1.6
	Deroceras	laeve	Meadow Slug	MOR	MORT	NR-ZERO		terrestrial	Animal	14 d		F	0.005	0.005
	Microtus	pennsylvanicus	Meadow Vole	MOR	MORT	NOAEL	LOAEL	terrestrial	Animal	3 d		F	0.005	0.005

Conc #2 Purity Adjusted Mean	Conc #2 Purity Adjusted in Preferred Unit Mean	Conc Units Preferred	Number of Conc	% Purity	Ref #	Author	Title	Source	Publication Year
		ml/kg	1	100	68671	Whisson DA;Salmon TP	Effect of Diphacinone on Blood Coagulation in <i>Spermophilus beecheyi</i> as a Basis for Determining Optimal Timing of Field Bait Applications	Pest Manag. Sci.58(7): 736-738	2002
		ppm	1	100	47636	Blus LJ;Henny CJ;Grove RA	Effects of Pelletized Anticoagulant Rodenticides on California Quail	J. Wildl. Dis.21(4): 391-395	1985
		ppm	1	100	47636	Blus LJ;Henny CJ;Grove RA	Effects of Pelletized Anticoagulant Rodenticides on California Quail	J. Wildl. Dis.21(4): 391-395	1985
		ppm	1	100	47636	Blus LJ;Henny CJ;Grove RA	Effects of Pelletized Anticoagulant Rodenticides on California Quail	J. Wildl. Dis.21(4): 391-395	1985
		ppm	1	100	47636	Blus LJ;Henny CJ;Grove RA	Effects of Pelletized Anticoagulant Rodenticides on California Quail	J. Wildl. Dis.21(4): 391-395	1985
		ppm	1	100	47636	Blus LJ;Henny CJ;Grove RA	Effects of Pelletized Anticoagulant Rodenticides on California Quail	J. Wildl. Dis.21(4): 391-395	1985
		ppm	1	100	38049	Mount ME;Feldman BF	Mechanism of Diphacinone Rodenticide Toxicosis in the Dog and Its Therapeutic Implications	Am. J. Vet. Res.44(11): 2009-2017	1983
		%	1	100	75504	Mount ME;Kass PH	Diagnostic Importance of Vitamin K-1 and Its Epoxide Measured in Serum of Dogs Exposed to an Anticoagulant Rodenticide	Am. J. Vet. Res.50(10): 1704-1709	1989
		%	1	100	75504	Mount ME;Kass PH	Diagnostic Importance of Vitamin K-1 and Its Epoxide Measured in Serum of Dogs Exposed to an Anticoagulant Rodenticide	Am. J. Vet. Res.50(10): 1704-1709	1989
		%	1	100	2E+05	Johnston JJ;Pitt WC;Sugihara RT;Eisemann JD;Primus TM;Holmes MJ;Crocker J;Hart A	Probabilistic Risk Assessment for Snails, Slugs, and Endangered Honeycreepers in Diphacinone Rodenticide Baited Areas on Hawaii, USA	Environ. Toxicol. Chem.24(6): 1557-1567	2005
		%	1	100	2E+05	Johnston JJ;Pitt WC;Sugihara RT;Eisemann JD;Primus TM;Holmes MJ;Crocker J;Hart A	Probabilistic Risk Assessment for Snails, Slugs, and Endangered Honeycreepers in Diphacinone Rodenticide Baited Areas on Hawaii, USA	Environ. Toxicol. Chem.24(6): 1557-1567	2005
		ppm	1	100	35422	Savarie PJ;Hayes DJ;McBride T;Roberts JD	Efficacy and Safety of Diphacinone as a Predacide	In: E.E.Kenaga (Ed.), Avian and Mammalian Wildlife Toxicology, ASTM STP 693, Philadelphia, PA(): 69-79	1979
		ppm	1	100	35422	Savarie PJ;Hayes DJ;McBride T;Roberts JD	Efficacy and Safety of Diphacinone as a Predacide	In: E.E.Kenaga (Ed.), Avian and Mammalian Wildlife Toxicology, ASTM STP 693, Philadelphia, PA(): 69-79	1979
		mg/kg bdwt	2	100	35422	Savarie PJ;Hayes DJ;McBride T;Roberts JD	Efficacy and Safety of Diphacinone as a Predacide	In: E.E.Kenaga (Ed.), Avian and Mammalian Wildlife Toxicology, ASTM STP 693, Philadelphia, PA(): 69-79	1979
		%	1	100	2E+05	Johnston JJ;Pitt WC;Sugihara RT;Eisemann JD;Primus TM;Holmes MJ;Crocker J;Hart A	Probabilistic Risk Assessment for Snails, Slugs, and Endangered Honeycreepers in Diphacinone Rodenticide Baited Areas on Hawaii, USA	Environ. Toxicol. Chem.24(6): 1557-1567	2005
0.01	0.01	%	4	100	75342	Byers RE;Carbaugh DH	Efficacy of Diphacinone for Control of Orchard Voles	Hortscience22(1): 46-48	1987

Chemical Formulation	Genus	Species	Common Name	Effect	Meas	Endpt1	Endpt2	Habitat	Plant/Animal	Dur Preferred Mean	Dur Unit Preferred	Conc Type	Conc #1 Purity Adjusted Mean	Conc #1 Purity Adjusted in Preferred Unit Mean
	Microtus	pennsylvanicus	Meadow Vole	MOR	MORT	LOAEL		terrestrial	Animal		5 d	F	0.005	0.005
	Microtus	pennsylvanicus	Meadow Vole	GRO	GAIN	NOAEL		terrestrial	Animal		5 d	F	0.005	0.005
	Microtus	pennsylvanicus	Meadow Vole	MOR	MORT	LOAEL		terrestrial	Animal		5 d	F	0.005	0.005
	Microtus	pennsylvanicus	Meadow Vole	GRO	GAIN	LOAEL		terrestrial	Animal		5 d	F	0.005	0.005
	Microtus	pennsylvanicus	Meadow Vole	FDB	FCNS	LOAEL		terrestrial	Animal		15 d	F	0.00055	0.00055
	Microtus	pennsylvanicus	Meadow Vole	POP	ABND	LOAEL		terrestrial	Animal		30 d	F	0.00055	0.00055
	Microtus	sp.	Meadow Voles, Meadow Mice	POP	ABND	LOAEL		terrestrial	Animal		15 d	F	0.00056	0.00056
	Colinus	virginianus	Northern Bobwhite Quail	MOR	MORT	LC50		terrestrial	Animal		5 d	F	2057	2057
	Colinus	virginianus	Northern Bobwhite Quail	MOR	MORT	LC50		terrestrial	Animal		28 d	F	388.4	388.4
	Colinus	virginianus	Northern Bobwhite Quail	MOR	MORT	LC50		terrestrial	Animal		28 d	F	966.89	966.89
AI	Colinus	virginianus	Northern Bobwhite Quail	MOR	MORT	NR-LETH		terrestrial	Animal		14 d	A	3666	3666
AI	Colinus	virginianus	Northern Bobwhite Quail	MOR	MORT	LD50		terrestrial	Animal		14 d	A	2014	2014
AI	Colinus	virginianus	Northern Bobwhite Quail	MOR	MORT	NR-ZERO		terrestrial	Animal		2 d	A	783	783
AI	Colinus	virginianus	Northern Bobwhite Quail	PHY	PTIM	LOAEL		terrestrial	Animal		2 d	A	434	434
	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal		17 d	F	0.0005	0.0005
	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal		17 d	F	0.002592	0.002592
	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal		30 d	F	0.005	0.005
	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal		30 d	F	0.005	0.005
	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal		30 d	F	0.001	0.001
	Microtus	pinetorum	Pine Vole	POP	ABND	NOAEL	LOAEL	terrestrial	Animal		30 d	F	0.0012	0.0012
	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal		18 d	F	0.00108	0.00108
	Microtus	pinetorum	Pine Vole	MOR	MORT	LOAEL		terrestrial	Animal		5 d	F	0.00039	0.00039
	Microtus	pinetorum	Pine Vole	MOR	MORT	LOAEL		terrestrial	Animal		5 d	F	0.00036	0.00036

Conc #2 Purity Adjusted Mean	Conc #2 Purity Adjusted in Preferred Unit Mean	Conc Units Preferred	Number of Conc	% Purity	Ref #	Author	Title	Source	Publication Year
		%	1	100	75393	Byers RE;Carbaugh DH	Efficacy of Rodenticides for Control of Orchard Voles	J. Am. Soc. Hortic. Sci.112(2): 267-272	1987
		%	1	100	75393	Byers RE;Carbaugh DH	Efficacy of Rodenticides for Control of Orchard Voles	J. Am. Soc. Hortic. Sci.112(2): 267-272	1987
		%	1	100	75393	Byers RE;Carbaugh DH	Efficacy of Rodenticides for Control of Orchard Voles	J. Am. Soc. Hortic. Sci.112(2): 267-272	1987
		%	1	100	75393	Byers RE;Carbaugh DH	Efficacy of Rodenticides for Control of Orchard Voles	J. Am. Soc. Hortic. Sci.112(2): 267-272	1987
		kg/ha	1	0.005	75393	Byers RE;Carbaugh DH	Efficacy of Rodenticides for Control of Orchard Voles	J. Am. Soc. Hortic. Sci.112(2): 267-272	1987
		kg/ha	1	0.005	75393	Byers RE;Carbaugh DH	Efficacy of Rodenticides for Control of Orchard Voles	J. Am. Soc. Hortic. Sci.112(2): 267-272	1987
		kg/ha	1	0.005	75474	Byers RE;Carbaugh DH	Rodenticides for the Control of Pine and Meadow Voles in Orchards	J. Environ. Hortic.9(3): 167-172	1991
		ppm	>=6	100	39583	Shirazi MA;Bennett RS;Ringer RK	An Interpretation of Toxicity Response of Bobwhite Quail with Respect to Duration of Exposure	Arch. Environ. Contam. Toxicol.26(): 417-424	1994
		ppm	>=6	100	39583	Shirazi MA;Bennett RS;Ringer RK	An Interpretation of Toxicity Response of Bobwhite Quail with Respect to Duration of Exposure	Arch. Environ. Contam. Toxicol.26(): 417-424	1994
		ppm	>=6	100	39583	Shirazi MA;Bennett RS;Ringer RK	An Interpretation of Toxicity Response of Bobwhite Quail with Respect to Duration of Exposure	Arch. Environ. Contam. Toxicol.26(): 417-424	1994
		mg/kg bdwt	6	99	2E+05	Rattner BA;Horak KE;Warner SE;Johnston JJ	Acute Toxicity of Diphacinone in Northern Bobwhite: Effects on Survival and Blood Clotting	Ecotoxicol. Environ. Saf.73(6): 1159-1164	2010
		mg/kg bdwt	6	99	2E+05	Rattner BA;Horak KE;Warner SE;Johnston JJ	Acute Toxicity of Diphacinone in Northern Bobwhite: Effects on Survival and Blood Clotting	Ecotoxicol. Environ. Saf.73(6): 1159-1164	2010
		mg/kg bdwt	2	99	2E+05	Rattner BA;Horak KE;Warner SE;Johnston JJ	Acute Toxicity of Diphacinone in Northern Bobwhite: Effects on Survival and Blood Clotting	Ecotoxicol. Environ. Saf.73(6): 1159-1164	2010
		mg/kg bdwt	2	99	2E+05	Rattner BA;Horak KE;Warner SE;Johnston JJ	Acute Toxicity of Diphacinone in Northern Bobwhite: Effects on Survival and Blood Clotting	Ecotoxicol. Environ. Saf.73(6): 1159-1164	2010
		lb/acre	2	0.005	75342	Byers RE;Carbaugh DH	Efficacy of Diphacinone for Control of Orchard Voles	Hortscience22(1): 46-48	1987
		lb/acre	2	0.0216	75342	Byers RE;Carbaugh DH	Efficacy of Diphacinone for Control of Orchard Voles	Hortscience22(1): 46-48	1987
		%	1	100	75342	Byers RE;Carbaugh DH	Efficacy of Diphacinone for Control of Orchard Voles	Hortscience22(1): 46-48	1987
		%	1	100	75342	Byers RE;Carbaugh DH	Efficacy of Diphacinone for Control of Orchard Voles	Hortscience22(1): 46-48	1987
		lb/acre	1	0.005	75342	Byers RE;Carbaugh DH	Efficacy of Diphacinone for Control of Orchard Voles	Hortscience22(1): 46-48	1987
0.002	0.002	lb/acre	1	0.02	75342	Byers RE;Carbaugh DH	Efficacy of Diphacinone for Control of Orchard Voles	Hortscience22(1): 46-48	1987
		lb/acre	1	0.005	75532	Merson MH;Byers RE	Weathering and the Field Efficacy of Pelletized Rodenticide Baits in Orchards	Crop Prot.4(4): 511-519	1985
		g/org	1	0.005	75474	Byers RE;Carbaugh DH	Rodenticides for the Control of Pine and Meadow Voles in Orchards	J. Environ. Hortic.9(3): 167-172	1991
		g/org	1	0.005	75474	Byers RE;Carbaugh DH	Rodenticides for the Control of Pine and Meadow Voles in Orchards	J. Environ. Hortic.9(3): 167-172	1991

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	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal	16	d	F	0.00056	0.00056
	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal	16	d	F	0.00056	0.00056
	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal	21	d	F	0.00056	0.00056
	Microtus	pinetorum	Pine Vole	MOR	MORT	NR-ZERO		terrestrial	Animal	21	d	F	0.005	0.005
	Microtus	pinetorum	Pine Vole	MOR	MORT	NR-ZERO		terrestrial	Animal	21	d	F	0.005	0.005
	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal	14	d	F	11.2	11.2
	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal	21	d	F	11.2	11.2
	Microtus	pinetorum	Pine Vole	POP	ABND	LOAEL		terrestrial	Animal		d	F	11.2	11.2

Conc #2 Purity Adjusted Mean	Conc #2 Purity Adjusted in Preferred Unit Mean	Conc Units Preferred	Number of Conc	% Purity	Ref #	Author	Title	Source	Publication Year
		kg/ha	1	0.005	75474	Byers RE;Carbaugh DH	Rodenticides for the Control of Pine and Meadow Voles in Orchards	J. Environ. Hortic.9(3): 167-172	1991
		kg/ha	1	0.005	75474	Byers RE;Carbaugh DH	Rodenticides for the Control of Pine and Meadow Voles in Orchards	J. Environ. Hortic.9(3): 167-172	1991
		kg/ha	1	0.005	75474	Byers RE;Carbaugh DH	Rodenticides for the Control of Pine and Meadow Voles in Orchards	J. Environ. Hortic.9(3): 167-172	1991
		%	1	100	69367	Byers RE	Performance of Rodenticides for the Control of Pine Voles in Orchards	J. Am. Soc. Hortic. Sci.103(1): 65- 69	1978
		%	1	100	69367	Byers RE	Performance of Rodenticides for the Control of Pine Voles in Orchards	J. Am. Soc. Hortic. Sci.103(1): 65- 69	1978
		kg/ha	1	100	69367	Byers RE	Performance of Rodenticides for the Control of Pine Voles in Orchards	J. Am. Soc. Hortic. Sci.103(1): 65- 69	1978
		kg/ha	1	100	69367	Byers RE	Performance of Rodenticides for the Control of Pine Voles in Orchards	J. Am. Soc. Hortic. Sci.103(1): 65- 69	1978
		kg/ha	1	100	69367	Byers RE	Performance of Rodenticides for the Control of Pine Voles in Orchards	J. Am. Soc. Hortic. Sci.103(1): 65- 69	1978