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T-REX Results Using Default Foliar Dissipation Half Life of 35 days

Table 1. T-REX estimated environmental concentrations (EEC) of deltamethrin for birds and mammals using a default foliar half-life of 35 days

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Dose-Based EECs (mg/kg bw)						Diet-Based EECs (ppm)
			Avian			Mammalian			
			Size class (grams)			Size class (grams)			
			20	100	1000	15	35	1000	
Canola, rapeseed, crambe	0.0097, 2, 7	Short Grass	4.96	2.83	1.27	4.15	2.87	0.67	4.35
		Tall Grass	2.27	1.30	0.58	1.90	1.32	0.30	2.00
		Broadleaf Plants	2.79	1.59	0.71	2.34	1.61	0.37	2.45
		Fruits/Pods/Seeds	0.31	0.18	0.08	0.26	0.18	0.04	0.27
		Arthropods	1.94	1.11	0.50	1.63	1.12	0.26	1.71
		Granivores	0.07	0.04	0.02	0.06	0.04	0.01	
Corn (field, pop)	0.0236, 5, 21	Short Grass	16.59	9.46	4.24	13.89	9.60	2.23	14.57
		Tall Grass	7.60	4.34	1.94	6.37	4.40	1.02	6.68
		Broadleaf Plants	9.33	5.32	2.38	7.81	5.40	1.25	8.19
		Fruits/Pods/Seeds	1.04	0.59	0.26	0.87	0.60	0.14	0.91
		Arthropods	6.50	3.71	1.66	5.44	3.76	0.87	5.70
		Granivores	0.23	0.13	0.06	0.19	0.13	0.03	
Cotton	0.0322, 10, 5	Short Grass	58.68	33.46	14.98	49.12	33.95	7.87	51.52
		Tall Grass	26.89	15.34	6.87	22.51	15.56	3.61	23.61
		Broadleaf Plants	33.00	18.82	8.43	27.63	19.10	4.43	28.98
		Fruits/Pods/Seeds	3.67	2.09	0.94	3.07	2.12	0.49	3.22
		Arthropods	22.98	13.10	5.87	19.24	13.30	3.08	20.18
		Granivores	0.81	0.46	0.21	0.68	0.47	0.11	
Cucurbits, Tomato, Tamillo, Eggplant, Ground Cheery, Pepinos	0.03, 6, 3	Short Grass	42.63	24.31	10.88	35.69	24.66	5.72	37.43
		Tall Grass	19.54	11.14	4.99	16.36	11.30	2.62	17.16
		Broadleaf Plants	23.98	13.67	6.12	20.07	13.87	3.22	21.05
		Fruits/Pods/Seeds	2.66	1.52	0.68	2.23	1.54	0.36	2.34
		Arthropods	16.70	9.52	4.26	13.98	9.66	2.24	14.66
		Granivores	0.59	0.34	0.15	0.50	0.34	0.08	
Garlic, Leeks, Onion, Shallots	0.03, 4, 5	Short Grass	28.45	16.22	7.26	23.81	16.46	3.82	24.98
		Tall Grass	13.04	7.43	3.33	10.91	7.54	1.75	11.45
		Broadleaf Plants	16.00	9.12	4.09	13.40	9.26	2.15	14.05
		Fruits/Pods/Seeds	1.78	1.01	0.45	1.49	1.03	0.24	1.56
		Arthropods	11.14	6.35	2.84	9.33	6.45	1.49	9.78
		Granivores	0.40	0.23	0.10	0.33	0.23	0.05	
Pome Fruits	0.0225, 2, 7	Short Grass	11.50	6.56	2.94	9.63	6.66	1.54	10.10
		Tall Grass	5.27	3.01	1.35	4.41	3.05	0.71	4.63
		Broadleaf Plants	6.47	3.69	1.65	5.42	3.74	0.87	5.68
		Fruits/Pods/Seeds	0.72	0.41	0.18	0.60	0.42	0.10	0.63
		Arthropods	4.51	2.57	1.15	3.77	2.61	0.60	3.96
		Granivores	0.16	0.09	0.04	0.13	0.09	0.02	
Potato & Root Vegetables (1B);	0.03, 5, 3	Short Grass	36.54	20.83	9.33	30.59	21.14	4.90	32.08
		Tall Grass	16.75	9.55	4.28	14.02	9.69	2.25	14.70

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Dose-Based EECs (mg/kg bw)						Diet-Based EECs (ppm)
			Avian			Mammalian			
			Size class (grams)			Size class (grams)			
			20	100	1000	15	35	1000	
Tuberous & Corn Vegetables (1C); Artichokes		Broadleaf Plants	20.55	11.72	5.25	17.20	11.89	2.76	18.04
		Fruits/Pods/Seeds	2.28	1.30	0.58	1.91	1.32	0.31	2.00
		Arthropods	14.31	8.16	3.65	11.98	8.28	1.92	12.56
		Granivores	0.51	0.29	0.13	0.42	0.29	0.07	
Sorghum	0.0242, 2, 7	Short Grass	12.37	7.06	3.16	10.36	7.16	1.66	10.86
		Tall Grass	5.67	3.23	1.45	4.75	3.28	0.76	4.98
		Broadleaf Plants	6.96	3.97	1.78	5.83	4.03	0.93	6.11
		Fruits/Pods/Seeds	0.77	0.44	0.20	0.65	0.45	0.10	0.68
		Arthropods	4.85	2.76	1.24	4.06	2.80	0.65	4.26
		Granivores	0.17	0.10	0.04	0.14	0.10	0.02	
Sunflowers	0.0169, 3, 7	Short Grass	12.14	6.92	3.10	10.16	7.02	1.63	10.66
		Tall Grass	5.56	3.17	1.42	4.66	3.22	0.75	4.89
		Broadleaf Plants	6.83	3.89	1.74	5.72	3.95	0.92	6.00
		Fruits/Pods/Seeds	0.76	0.43	0.19	0.64	0.44	0.10	0.67
		Arthropods	4.76	2.71	1.21	3.98	2.75	0.64	4.18
		Granivores	0.17	0.10	0.04	0.14	0.10	0.02	
Sweet Corn	0.03, 16, 7	Short Grass	56.45	32.19	14.41	47.26	32.66	7.57	49.57
		Tall Grass	25.87	14.75	6.61	21.66	14.97	3.47	22.72
		Broadleaf Plants	31.75	18.11	8.11	26.58	18.37	4.26	27.88
		Fruits/Pods/Seeds	3.53	2.01	0.90	2.95	2.04	0.47	3.10
		Arthropods	22.11	12.61	5.64	18.51	12.79	2.97	19.41
		Granivores	0.78	0.45	0.20	0.66	0.45	0.11	
Tree Nuts (foliar and dormant)	0.0354, 5, 7	Short Grass	37.37	21.31	9.54	31.29	21.62	5.01	32.82
		Tall Grass	17.13	9.77	4.37	14.34	9.91	2.30	15.04
		Broadleaf Plants	21.02	11.99	5.37	17.60	12.16	2.82	18.46
		Fruits/Pods/Seeds	2.34	1.33	0.60	1.96	1.35	0.31	2.05
		Arthropods	14.64	8.35	3.74	12.25	8.47	1.96	12.85
		Granivores	0.52	0.30	0.13	0.43	0.30	0.07	
Commercial Outdoor Premises	0.006936, 12, 21	Short Grass	5.53	3.16	1.41	4.63	3.20	0.74	4.86
		Tall Grass	2.54	1.45	0.65	2.12	1.47	0.34	2.23
		Broadleaf Plants	3.11	1.78	0.79	2.61	1.80	0.42	2.73
		Fruits/Pods/Seeds	0.35	0.20	0.09	0.29	0.20	0.05	0.30
		Arthropods	2.17	1.24	0.55	1.81	1.25	0.29	1.90
		Granivores	0.08	0.04	0.02	0.06	0.04	0.01	
Domestic Dwellings, Barns, Barnyards (incl. outdoor premises)	0.1094, 6, 7	Short Grass	130.5	74.39	33.31	109.2	75.48	17.50	114.5
		Tall Grass	59.79	34.10	15.26	50.05	34.59	8.02	52.50
		Broadleaf Plants	73.38	41.84	18.73	61.43	42.46	9.84	64.43
		Fruits/Pods/Seeds	8.15	4.65	2.08	6.83	4.72	1.09	7.16
		Arthropods	51.09	29.14	13.04	42.77	29.56	6.85	44.86
		Granivores	1.81	1.03	0.46	1.52	1.05	0.24	
Non-Agr. Rights-of-Way, Fencerows,	0.02188, 12, 30	Short Grass	13.34	7.61	3.41	11.17	7.72	1.79	11.71
		Tall Grass	6.11	3.49	1.56	5.12	3.54	0.82	5.37

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Dose-Based EECs (mg/kg bw)						Diet-Based EECs (ppm)
			Avian			Mammalian			
			Size class (grams)			Size class (grams)			
			20	100	1000	15	35	1000	
Hedgerows, Solid Waste Sites, Paved Areas		Broadleaf Plants	7.50	4.28	1.92	6.28	4.34	1.01	6.59
		Fruits/Pods/Seeds	0.83	0.48	0.21	0.70	0.48	0.11	0.73
		Arthropods	5.22	2.98	1.33	4.37	3.02	0.70	4.59
		Granivores	0.19	0.11	0.05	0.16	0.11	0.02	
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas (Perimeter Treatment)	0.001878, 12, 30	Short Grass	1.15	0.65	0.29	0.96	0.66	0.15	1.01
		Tall Grass	0.52	0.30	0.13	0.44	0.30	0.07	0.46
		Broadleaf Plants	0.64	0.37	0.16	0.54	0.37	0.09	0.57
		Fruits/Pods/Seeds	0.07	0.04	0.02	0.06	0.04	0.01	0.06
		Arthropods	0.45	0.26	0.11	0.38	0.26	0.06	0.39
		Granivores	0.02	0.01	0.00	0.01	0.01	0.00	
Ornamental Plants (herbaceous, non-flowering, woody) Lawns and turf	0.218, 12, 30		132.9	75.79	33.93	111.3	76.90	17.83	116.7
			60.92	34.74	15.55	51.00	35.25	8.17	53.49
			74.76	42.63	19.09	62.59	43.26	10.03	65.65
			8.31	4.74	2.12	6.95	4.81	1.11	7.29
			52.06	29.69	13.29	43.58	30.12	6.98	45.71
			1.85	1.05	0.47	1.55	1.07	0.25	
Ornamental Plants (Shade Trees, Ground Cover)	0.428, 12, 30	Short Grass	261.0	148.8	66.6	218.5	151.0	35.0	229.1
		Tall Grass	119.6	68.2	30.5	100.1	69.2	16.0	105.0
		Broadleaf Plants	146.8	83.7	37.5	122.9	84.9	19.7	128.9
		Fruits/Pods/Seeds	16.31	9.30	4.16	13.65	9.44	2.19	14.32
		Arthropods	102.2	58.28	26.09	85.56	59.13	13.71	89.74
		Granivores	3.62	2.07	0.93	3.03	2.10	0.49	
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	1.942, 12, 7	Short Grass	3324	1895	849	2782	1923	446	2918
		Tall Grass	1523	869	389	1275	881	204	1338
		Broadleaf Plants	1870	1066	477	1565	1082	251	1642
		Fruits/Pods/Seeds	207.7	118.5	53.0	173.9	120.2	27.9	182.4
		Arthropods	1302	742.3	332.3	1089	753.2	174.6	1143
		Granivores	46.16	26.32	11.79	38.64	26.71	6.19	
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	0.127, 12, 7	Short Grass	217.4	123.9	55.5	182.0	125.8	29.2	190.8
		Tall Grass	99.6	56.8	25.4	83.4	57.6	13.4	87.5
		Broadleaf Plants	122.3	69.7	31.2	102.4	70.7	16.4	107.4
		Fruits/Pods/Seeds	13.58	7.75	3.47	11.37	7.86	1.82	11.93
		Arthropods	85.13	48.55	21.73	71.27	49.26	11.42	74.75
		Granivores	3.02	1.72	0.77	2.53	1.75	0.40	
Residential Lawns (1)	0.002333, 6, 7	Short Grass	2.78	1.59	0.71	2.33	1.61	0.37	2.44
		Tall Grass	1.28	0.73	0.33	1.07	0.74	0.17	1.12
		Broadleaf Plants	1.56	0.89	0.40	1.31	0.91	0.21	1.37
		Fruits/Pods/Seeds	0.17	0.10	0.04	0.15	0.10	0.02	0.15
		Arthropods	1.09	0.62	0.28	0.91	0.63	0.15	0.96
		Granivores	0.04	0.02	0.01	0.03	0.02	0.01	
Residential Lawns (2)	0.002333, 12, 7	Short Grass	3.99	2.28	1.02	3.34	2.31	0.54	3.51
		Tall Grass	1.83	1.04	0.47	1.53	1.06	0.25	1.61

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Dose-Based EECs (mg/kg bw)						Diet- Based EECs (ppm)
			Avian			Mammalian			
			Size class (grams)			Size class (grams)			
			20	100	1000	15	35	1000	
		Broadleaf Plants	2.25	1.28	0.57	1.88	1.30	0.30	1.97
		Fruits/Pods/Seeds	0.25	0.14	0.06	0.21	0.14	0.03	0.22
		Arthropods	1.56	0.89	0.40	1.31	0.90	0.21	1.37
		Granivores	0.06	0.03	0.01	0.05	0.03	0.01	

Table 2. Avian T-REX risk quotient (RQ) results for deltamethrin using a default foliar half-life of 35 days

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Avian				
			Acute dose RQs*			Subacute dietary RQs*	Chronic dietary RQs
			Size class (grams)				
			20	100	1000		
Canola, rapeseed, crambe	0.0097, 2, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	0.01
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		
Corn (field, pop)	0.0236, 5, 21	Short Grass	<0.01	<0.01	<0.01	<0.01	0.03
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.02
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.01
		Granivores	<0.01	<0.01	<0.01		
Cotton	0.0322, 10, 5	Short Grass	<0.04	<0.02	<0.01	<0.01	0.11
		Tall Grass	<0.02	<0.01	<0.01	<0.01	0.05
		Broadleaf Plants	<0.02	<0.01	<0.01	<0.01	0.06
		Fruits/Pods/Seeds	<0.00	<0.01	<0.01	<0.01	0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.04
		Granivores	<0.01	<0.01	<0.01		
Cucurbits, Tomato, Tamillo, Eggplant, Ground Cheery, Pepinos	0.03, 6, 3	Short Grass	<0.03	<0.01	<0.01	<0.01	0.08
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.04
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.05
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.03
		Granivores	<0.01	<0.01	<0.01		
Garlic, Leeks, Onion, Shallots	0.03, 4, 5	Short Grass	<0.02	<0.01	<0.01	<0.01	0.06
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.03
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.03
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.02
		Granivores	<0.01	<0.01	<0.01	<0.01	
Pome Fruits	0.0225, 2, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	0.02
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.01
		Granivores	<0.01	<0.01	<0.01		
Potato & Root Vegetables (1B); Tuberous & Corn Vegetables (1C); Artichokes	0.03, 5, 3	Short Grass	<0.02	<0.01	<0.01	<0.01	0.07
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.03
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.04
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.03
		Granivores	<0.01	<0.01	<0.01		
Sorghum	0.0242, 2, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	0.02

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Avian				
			Acute dose RQs*			Subacute dietary RQs*	Chronic dietary RQs
			Size class (grams)				
			20	100	1000		
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.01
		Granivores	<0.01	<0.01	<0.01		
Sunflowers	0.0169, 3, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	0.02
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.01
		Granivores	<0.01	<0.01	<0.01		
Sweet Corn	0.03, 16, 7	Short Grass	<0.03	<0.02	<0.01	<0.01	0.11
		Tall Grass	<0.02	<0.01	<0.01	<0.01	0.05
		Broadleaf Plants	<0.02	<0.01	<0.01	<0.01	0.06
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.04
		Granivores	<0.01	<0.01	<0.01		
Tree Nuts (foliar and dormant)	0.0354, 5, 7	Short Grass	<0.02	<0.01	<0.01	<0.01	0.07
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.03
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.04
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.03
		Granivores	<0.01	<0.01	<0.01		
Commercial Outdoor Premises	0.006936, 12, 21	Short Grass	<0.01	<0.01	<0.01	<0.01	0.01
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		
Domestic Dwellings, Barns, Barnyards (incl. outdoor premises)	0.1094, 6, 7	Short Grass	<0.08	<0.04	<0.01	<0.02	0.25
		Tall Grass	<0.04	<0.02	<0.01	<0.01	0.12
		Broadleaf Plants	<0.05	<0.02	<0.01	<0.01	0.14
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	0.02
		Arthropods	<0.03	<0.01	<0.01	<0.01	0.10
		Granivores	<0.01	<0.01	<0.01		
Non-Agr. Rights-of- Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas	0.02188, 12, 30	Short Grass	<0.01	<0.01	<0.01	<0.01	0.03
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.01
		Granivores	<0.01	<0.01	<0.01		
Non-Agr. Rights-of- Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas (Perimeter	0.001878, 12, 30	Short Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Avian				
			Acute dose RQs*			Subacute dietary RQs*	Chronic dietary RQs
			Size class (grams)				
			20	100	1000		
Treatment)		Granivores	<0.01	<0.01	<0.01		
Ornamental Plants (herbaceous, non- flowering, woody) Lawns and turf	0.218, 12, 30	Short Grass	<0.08	<0.04	<0.01	<0.03	0.26
		Tall Grass	<0.04	<0.02	<0.01	<0.01	0.12
		Broadleaf Plants	<0.05	<0.02	<0.01	<0.01	0.15
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	0.02
		Arthropods	<0.03	<0.01	<0.01	<0.01	0.10
		Granivores	<0.01	<0.01	<0.01		
Ornamental Plants (Shade Trees, Ground Cover)	0.428, 12, 30	Short Grass	<0.16	<0.07	<0.02	<0.05	0.51
		Tall Grass	<0.07	<0.03	<0.01	<0.02	0.23
		Broadleaf Plants	<0.09	<0.04	<0.01	<0.03	0.29
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	0.03
		Arthropods	<0.06	<0.03	<0.01	<0.02	0.20
		Granivores	<0.01	<0.01	<0.01		
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	1.942, 12, 7	Short Grass	<2.05	<0.92	<0.29	<0.63	6.49
		Tall Grass	<0.94	<0.42	<0.13	<0.29	2.97
		Broadleaf Plants	<1.15	<0.52	<0.16	<0.35	3.65
		Fruits/Pods/Seeds	<0.13	<0.06	<0.02	<0.04	0.41
		Arthropods	<0.80	<0.36	<0.11	<0.25	2.54
		Granivores	<0.03	<0.01	<0.01		
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	0.127, 12, 7	Short Grass	<0.13	<0.06	<0.02	<0.04	0.42
		Tall Grass	<0.06	<0.03	<0.01	<0.02	0.19
		Broadleaf Plants	<0.08	<0.03	<0.01	<0.02	0.24
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	0.03
		Arthropods	<0.05	<0.02	<0.01	<0.02	0.17
		Granivores	<0.01	<0.01	<0.01		
Residential Lawns (1)	0.002333, 6, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	0.01
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		
Residential Lawns (2)	0.002333, 12, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	0.01
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		

RQ values in bold exceed listed species acute or chronic risk LOC of 0.1 or 1.0, respectively

*All acute RQ values were “non-definitive” (i.e., “<” values) because the avian acute LD₅₀ values for deltamethrin were non-definitive (“> the highest dose tested).

Table 3. T-REX risk quotient (RQ) results for mammals using default foliar half-life of 35 days

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Mammalian						
			Acute dose RQs			Chronic Dose RQs			Chronic Diet RQs
			Size class (grams)			Size class (grams)			
			15	35	1000	15	35	1000	
Canola, rapeseed, crambe	0.0097, 2, 7	Short Grass	0.03	0.02	0.01	0.35	0.30	0.16	0.05
		Tall Grass	0.01	0.01	0.01	0.16	0.14	0.07	0.02
		Broadleaf Plants	0.02	0.01	0.01	0.20	0.17	0.09	0.03
		Fruits/Pods/Seeds	<0.01	0.00	0.00	0.02	0.02	0.01	0.00
		Arthropods	0.01	0.01	0.01	0.14	0.12	0.06	0.02
		Granivores	<0.01	0.00	0.00	0.00	0.00	0.00	
Corn (field, pop)	0.0236, 5, 21	Short Grass	0.09	0.08	0.04	1.17	1.00	0.54	0.18
		Tall Grass	0.04	0.04	0.02	0.54	0.46	0.25	0.08
		Broadleaf Plants	0.05	0.05	0.02	0.66	0.56	0.30	0.10
		Fruits/Pods/Seeds	0.01	0.01	0.00	0.07	0.06	0.03	0.01
		Arthropods	0.04	0.03	0.02	0.46	0.39	0.21	0.07
		Granivores	<0.01	0.00	0.00	0.02	0.01	0.01	
Cotton	0.0322, 10, 5	Short Grass	0.33	0.28	0.15	4.14	3.54	1.90	0.64
		Tall Grass	0.15	0.13	0.07	1.90	1.62	0.87	0.30
		Broadleaf Plants	0.19	0.16	0.09	2.33	1.99	1.07	0.36
		Fruits/Pods/Seeds	0.02	0.02	0.01	0.26	0.22	0.12	0.04
		Arthropods	0.13	0.11	0.06	1.62	1.38	0.74	0.25
		Granivores	<0.01	0.00	0.00	0.06	0.05	0.03	
Cucurbits, Tomato, Tamillo, Eggplant, Ground Cheery, Pepinos	0.03, 6, 3	Short Grass	0.24	0.21	0.11	3.01	2.57	1.38	0.47
		Tall Grass	0.11	0.09	0.05	1.38	1.18	0.63	0.21
		Broadleaf Plants	0.14	0.12	0.06	1.69	1.44	0.77	0.26
		Fruits/Pods/Seeds	0.02	0.01	0.01	0.19	0.16	0.09	0.03
		Arthropods	0.09	0.08	0.04	1.18	1.01	0.54	0.18
		Granivores	<0.01	0.00	0.00	0.04	0.04	0.02	
Garlic, Leeks, Onion, Shallots	0.03, 4, 5	Short Grass	0.16	0.14	0.07	2.01	1.71	0.92	0.31
		Tall Grass	0.07	0.06	0.03	0.92	0.79	0.42	0.14
		Broadleaf Plants	0.09	0.08	0.04	1.13	0.96	0.52	0.18
		Fruits/Pods/Seeds	0.01	0.01	0.00	0.13	0.11	0.06	0.02
		Arthropods	0.06	0.05	0.03	0.79	0.67	0.36	0.12
		Granivores	<0.01	0.00	0.00	0.03	0.02	0.01	
Pome Fruits	0.0225, 2, 7	Short Grass	0.07	0.06	0.03	0.81	0.69	0.37	0.13
		Tall Grass	0.03	0.03	0.01	0.37	0.32	0.17	0.06
		Broadleaf Plants	0.04	0.03	0.02	0.46	0.39	0.21	0.07
		Fruits/Pods/Seeds	<0.01	0.00	0.00	0.05	0.04	0.02	0.01
		Arthropods	0.03	0.02	0.01	0.32	0.27	0.15	0.05
		Granivores	0.00	0.00	0.00	0.01	0.01	0.01	
Potato & Root	0.03, 5, 3	Short Grass	0.21	0.18	0.10	2.58	2.20	1.18	0.40

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Mammalian						
			Acute dose RQs			Chronic Dose RQs			Chronic Diet RQs
			Size class (grams)			Size class (grams)			
			15	35	1000	15	35	1000	
Vegetables (1B); Tuberous & Corn Vegetables (1C); Artichokes		Tall Grass	0.10	0.08	0.04	1.18	1.01	0.54	0.18
		Broadleaf Plants	0.12	0.10	0.05	1.45	1.24	0.66	0.23
		Fruits/Pods/Seeds	0.01	0.01	0.01	0.16	0.14	0.07	0.03
		Arthropods	0.08	0.07	0.04	1.01	0.86	0.46	0.16
		Granivores	<0.01	<0.01	<0.01	0.04	0.03	0.02	
Sorghum	0.0242, 2, 7	Short Grass	0.07	0.06	0.03	0.87	0.75	0.40	0.14
		Tall Grass	0.03	0.03	0.01	0.40	0.34	0.18	0.06
		Broadleaf Plants	0.04	0.03	0.02	0.49	0.42	0.22	0.08
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.05	0.05	0.02	0.01
		Arthropods	0.03	0.02	0.01	0.34	0.29	0.16	0.05
		Granivores	<0.01	<0.01	<0.01	0.01	0.01	0.01	
Sunflowers	0.0169, 3, 7	Short Grass	0.07	0.06	0.03	0.86	0.73	0.39	0.13
		Tall Grass	0.03	0.03	0.01	0.39	0.34	0.18	0.06
		Broadleaf Plants	0.04	0.03	0.02	0.48	0.41	0.22	0.07
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.05	0.05	0.02	0.01
		Arthropods	0.03	0.02	0.01	0.34	0.29	0.15	0.05
		Granivores	<0.01	<0.01	<0.01	0.01	0.01	0.01	
Sweet Corn	0.03, 16, 7	Short Grass	0.32	0.27	0.15	3.98	3.40	1.82	0.62
		Tall Grass	0.15	0.13	0.07	1.83	1.56	0.84	0.28
		Broadleaf Plants	0.18	0.15	0.08	2.24	1.91	1.03	0.35
		Fruits/Pods/Seeds	0.02	0.02	0.01	0.25	0.21	0.11	0.04
		Arthropods	0.13	0.11	0.06	1.56	1.33	0.71	0.24
		Granivores	<0.01	<0.01	<0.01	0.06	0.05	0.03	
Tree Nuts (foliar and dormant)	0.0354, 5, 7	Short Grass	0.21	0.18	0.10	2.64	2.25	1.21	0.41
		Tall Grass	0.10	0.08	0.04	1.21	1.03	0.55	0.19
		Broadleaf Plants	0.12	0.10	0.05	1.48	1.27	0.68	0.23
		Fruits/Pods/Seeds	0.01	0.01	0.01	0.16	0.14	0.08	0.03
		Arthropods	0.08	0.07	0.04	1.03	0.88	0.47	0.16
		Granivores	<0.01	<0.01	<0.01	0.04	0.03	0.02	
Commercial Outdoor Premises	0.006936, 12, 21	Short Grass	0.03	0.03	0.01	0.39	0.33	0.18	0.06
		Tall Grass	0.01	0.01	0.01	0.18	0.15	0.08	0.03
		Broadleaf Plants	0.02	0.02	0.01	0.22	0.19	0.10	0.03
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.02	0.02	0.01	<0.01
		Arthropods	0.01	0.01	0.01	0.15	0.13	0.07	0.02
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Domestic Dwellings, Barns, Barnyards (incl. outdoor	0.1094, 6, 7	Short Grass	0.74	0.63	0.34	9.20	7.86	4.21	1.43
		Tall Grass	0.34	0.29	0.16	4.22	3.60	1.93	0.66
		Broadleaf Plants	0.42	0.36	0.19	5.18	4.42	2.37	0.81
		Fruits/Pods/Seeds	0.05	0.04	0.02	0.58	0.49	0.26	0.09

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Mammalian						
			Acute dose RQs			Chronic Dose RQs			Chronic Diet RQs
			Size class (grams)			Size class (grams)			
			15	35	1000	15	35	1000	
premises)		Arthropods	0.29	0.25	0.13	3.60	3.08	1.65	0.56
		Granivores	0.01	0.01	0.00	0.13	0.11	0.06	
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas	0.02188, 12, 30	Short Grass	0.08	0.06	0.03	0.94	0.80	0.43	0.15
		Tall Grass	0.03	0.03	0.02	0.43	0.37	0.20	0.07
		Broadleaf Plants	0.04	0.04	0.02	0.53	0.45	0.24	0.08
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.06	0.05	0.03	0.01
		Arthropods	0.03	0.03	0.01	0.37	0.31	0.17	0.06
		Granivores	<0.01	<0.01	<0.01	0.01	0.01	0.01	
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas (Perimeter Treatment)	0.001878, 12, 30	Short Grass	0.01	0.01	<0.01	0.08	0.07	0.04	0.01
		Tall Grass	<0.01	<0.01	<0.01	0.04	0.03	0.02	0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	0.05	0.04	0.02	0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	0.03	0.03	0.01	<0.01
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Ornamental Plants (herbaceous, non-flowering, woody) Lawns and turf	0.218, 12, 30	Short Grass	0.76	0.65	0.35	9.38	8.01	4.29	1.46
		Tall Grass	0.35	0.30	0.16	4.30	3.67	1.97	0.67
		Broadleaf Plants	0.43	0.36	0.19	5.27	4.50	2.41	0.82
		Fruits/Pods/Seeds	0.05	0.04	0.02	0.59	0.50	0.27	0.09
		Arthropods	0.30	0.25	0.14	3.67	3.14	1.68	0.57
		Granivores	0.01	0.01	0.00	0.13	0.11	0.06	
Ornamental Plants (Shade Trees, Ground Cover)	0.428, 12, 30	Short Grass	1.48	1.27	0.68	18.41	15.72	8.43	2.86
		Tall Grass	0.68	0.58	0.31	8.44	7.21	3.86	1.31
		Broadleaf Plants	0.83	0.71	0.38	10.35	8.84	4.74	1.61
		Fruits/Pods/Seeds	0.09	0.08	0.04	1.15	0.98	0.53	0.18
		Arthropods	0.58	0.50	0.27	7.21	6.16	3.30	1.12
		Granivores	0.02	0.02	0.01	0.26	0.22	0.12	
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	1.942, 12, 7	Short Grass	18.90	16.14	8.65	234	200	107	36.48
		Tall Grass	8.66	7.40	3.97	107	91.78	49.20	16.72
		Broadleaf Plants	10.63	9.08	4.87	131	113	60.38	20.52
		Fruits/Pods/Seeds	1.18	1.01	0.54	14.65	12.52	6.71	2.28
		Arthropods	7.40	6.32	3.39	91.82	78.43	42.04	14.29
		Granivores	0.26	0.22	0.12	3.26	2.78	1.49	
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	0.127, 12, 7	Short Grass	1.24	1.06	0.57	15.33	13.10	7.02	2.39
		Tall Grass	0.57	0.48	0.26	7.03	6.00	3.22	1.09
		Broadleaf Plants	0.70	0.59	0.32	8.62	7.37	3.95	1.34
		Fruits/Pods/Seeds	0.08	0.07	0.04	0.96	0.82	0.44	0.15
		Arthropods	0.48	0.41	0.22	6.00	5.13	2.75	0.93
		Granivores	0.02	0.01	0.01	0.21	0.18	0.10	
Residential	0.002333, 6, 7	Short Grass	0.02	0.01	0.01	0.20	0.17	0.09	0.03

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Mammalian						
			Acute dose RQs			Chronic Dose RQs			Chronic Diet RQs
			Size class (grams)			Size class (grams)			
			15	35	1000	15	35	1000	
Lawns (1)		Tall Grass	0.01	0.01	<0.01	0.09	0.08	0.04	0.01
		Broadleaf Plants	0.01	0.01	<0.01	0.11	0.09	0.05	0.02
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.01	0.01	0.01	<0.01
		Arthropods	0.01	0.01	<0.01	0.08	0.07	0.04	0.01
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Residential Lawns (2)	0.002333, 12, 7	Short Grass	0.02	0.02	0.01	0.28	0.24	0.13	0.04
		Tall Grass	0.01	0.01	<0.01	0.13	0.11	0.06	0.02
		Broadleaf Plants	0.01	0.01	0.01	0.16	0.14	0.07	0.02
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.02	0.02	0.01	<0.01
		Arthropods	0.01	0.01	<0.01	0.11	0.09	0.05	0.02
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	

RQ values in bold exceed listed species acute or chronic risk LOC of 0.1 or 1.0, respectively

Table 4. Terrestrial invertebrate risk quotients (RQ) for deltamethrin calculated using default foliar dissipation half life of 35 days.

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Invertebrate RQs
Canola, rapeseed, crambe	0.0097, 2, 7	85
Corn (field, pop)	0.0236, 5, 21	285
Cotton	0.0322, 10, 5	1009
Cucurbits, Tomato, Tamarillo, Eggplant, Ground Cheery, Pepinos	0.03, 6, 3	733
Garlic, Leeks, Onion, Shallots	0.03, 4, 5	489
Pome Fruits	0.0225, 2, 7	198
Potato & Root Vegetables (1B); Tuberous & Corn Vegetables (1C); Artichokes	0.03, 5, 3	628
Sorghum	0.0242, 2, 7	213
Sunflowers	0.0169, 3, 7	209
Sweet Corn	0.03, 16, 7	971
Tree Nuts (foliar and dormant)	0.0354, 5, 7	643
Commercial Outdoor Premises	0.006936, 12, 21	95
Domestic Dwellings, Barns, Barnyards (including outdoor premises)	0.1094, 6, 7	2,243
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas	0.02188, 12, 30	229
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas (Perimeter Treatment)	0.001878, 12, 30	20
Ornamental Plants (herbaceous, non-flowering, woody) Lawns and turf	0.218, 12, 30	2,285
Ornamental Plants (Shade Trees, Ground Cover)	0.428, 12, 30	4,487
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	1.942, 12, 7	57,150
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	0.127, 12, 7	3737
Residential Lawns (1)	0.002333, 6, 7	48
Residential Lawns (2)	0.002333, 12, 7	69

RQ values in bold exceed listed species acute risk LOC of 0.05

T-REX Results Using Pyrethroid-Specific Foliar Dissipation Half Life of 8.3 days

Alternative Foliar dissipation half-lives for pyrethroids from Willis & McDowell (1987)

The default half-life is 35 days. If there are exceedances of mammalian or bird RQs, then these half-lives can be used for characterization purposes.

The resulting input value is **8.3 days**.

Data included only half-lives for total residue (T) and did not include the dislodgeable residue half-lives (D) from Willis & McDowell (1987). No pyrethroid was excluded.

Pyrethroid	Foliar dissipation half-lives (days)
Cypermethrin	4.8; 7.9
Deltamethrin	4.1; 7.7; 7.7
Fenvalerate	14.0; 8.0; 14
Permethrin	6.3; 12.6; 13.9
Phenothrin	<1; <1 (assumed to be 1 day in both cases)
Tralocythrin	0.8
Tralomethrin	0.3; 0.8
n	16
Mean (n = 16)	6.55625 days
Standard deviation	5.060431 days
$t_{90,n-1}$ = one-sided Student's t value at $\alpha = 0.1$	1.3406
t_{input}	$t_{\text{input}} = \overline{t}_{1/2} + \frac{t_{90,n-1}S}{\sqrt{n}} = \mathbf{8.3 \text{ days}}$

Tralocythrin is a Type II pyrethroid (cyano substituted) approved for use in other countries (see the following accessed 10/19/12: <http://www.alanwood.net/pesticides/tralocythrin.html>).

Student's t value at <http://www.danielsoper.com/statcalc3/calc.aspx?id=10>, calculated for 15 degrees of freedom (n-1) and a probability level of 0.1.

Reference:

Willis, G.H. and L.L. McDowell. 1987. Pesticide persistence on foliage. Reviews of Environmental Contamination and Toxicology. Vol. 100 (1987), pp. 23-73.

Table 5. T-REX estimated environmental concentrations (EEC) of deltamethrin for birds and mammals using a pyrethroid-specific foliar half-life of 8.3 days

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Dose-Based EECs (mg/kg bw)						Diet-Based EECs (ppm)
			Avian			Mammalian			
			Size class (grams)			Size class (grams)			
			20	100	1000	15	35	1000	
Canola, rapeseed, crambe	0.0097, 2, 7	Short Grass	4.13	2.35	1.05	3.46	2.39	0.55	3.63
		Tall Grass	1.89	1.08	0.48	1.58	1.09	0.25	1.66
		Broadleaf Plants	2.32	1.32	0.59	1.94	1.34	0.31	2.04
		Fruits/Pods/Seeds	0.26	0.15	0.07	0.22	0.15	0.03	0.23
		Arthropods	1.62	0.92	0.41	1.35	0.94	0.22	1.42
		Granivores	0.06	0.03	0.01	0.05	0.03	0.01	
Corn (field, pop)	0.0236, 5, 21	Short Grass	7.80	4.45	1.99	6.53	4.51	1.05	6.85
		Tall Grass	3.58	2.04	0.91	2.99	2.07	0.48	3.14
		Broadleaf Plants	4.39	2.50	1.12	3.67	2.54	0.59	3.85
		Fruits/Pods/Seeds	0.49	0.28	0.12	0.41	0.28	0.07	0.43
		Arthropods	3.06	1.74	0.78	2.56	1.77	0.41	2.68
		Granivores	0.11	0.06	0.03	0.09	0.06	0.01	
Cotton	0.0322, 10, 5	Short Grass	25.39	14.48	6.48	21.25	14.69	3.41	22.29
		Tall Grass	11.64	6.64	2.97	9.74	6.73	1.56	10.22
		Broadleaf Plants	14.28	8.14	3.65	11.96	8.26	1.92	12.54
		Fruits/Pods/Seeds	1.59	0.90	0.41	1.33	0.92	0.21	1.39
		Arthropods	9.94	5.67	2.54	8.32	5.75	1.33	8.73
		Granivores	0.35	0.20	0.09	0.30	0.20	0.05	
Cucurbits, Tomato, Tamillo, Eggplant, Ground Cheery, Pepinos	0.03, 6, 3	Short Grass	28.77	16.41	7.35	24.09	16.65	3.86	25.26
		Tall Grass	13.19	7.52	3.37	11.04	7.63	1.77	11.58
		Broadleaf Plants	16.18	9.23	4.13	13.55	9.36	2.17	14.21
		Fruits/Pods/Seeds	1.80	1.03	0.46	1.51	1.04	0.24	1.58
		Arthropods	11.27	6.43	2.88	9.43	6.52	1.51	9.89
		Granivores	0.40	0.23	0.10	0.33	0.23	0.05	
Garlic, Leeks, Onion, Shallots	0.03, 4, 5	Short Grass	19.50	11.12	4.98	16.33	11.28	2.62	17.12
		Tall Grass	8.94	5.10	2.28	7.48	5.17	1.20	7.85
		Broadleaf Plants	10.97	6.26	2.80	9.18	6.35	1.47	9.63
		Fruits/Pods/Seeds	1.22	0.70	0.31	1.02	0.71	0.16	1.07
		Arthropods	7.64	4.36	1.95	6.39	4.42	1.02	6.71
		Granivores	0.27	0.15	0.07	0.23	0.16	0.04	
Pome Fruits	0.0225, 2, 7	Short Grass	9.58	5.46	2.45	8.02	5.54	1.28	8.41
		Tall Grass	4.39	2.50	1.12	3.67	2.54	0.59	3.85
		Broadleaf Plants	5.39	3.07	1.38	4.51	3.12	0.72	4.73
		Fruits/Pods/Seeds	0.60	0.34	0.15	0.50	0.35	0.08	0.53
		Arthropods	3.75	2.14	0.96	3.14	2.17	0.50	3.29
		Granivores	0.13	0.08	0.03	0.11	0.08	0.02	
Potato & Root Vegetables (1B); Tuberous & Corn	0.03, 5, 3	Short Grass	26.43	15.07	6.75	22.12	15.29	3.55	23.21
		Tall Grass	12.11	6.91	3.09	10.14	7.01	1.62	10.64
		Broadleaf Plants	14.87	8.48	3.80	12.45	8.60	1.99	13.05

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Dose-Based EECs (mg/kg bw)						Diet-Based EECs (ppm)
			Avian			Mammalian			
			Size class (grams)			Size class (grams)			
			20	100	1000	15	35	1000	
Vegetables (1C); Artichokes		Fruits/Pods/Seeds	1.65	0.94	0.42	1.38	0.96	0.22	1.45
		Arthropods	10.35	5.90	2.64	8.67	5.99	1.39	9.09
		Granivores	0.37	0.21	0.09	0.31	0.21	0.05	
Sorghum	0.0242, 2, 7	Short Grass	10.30	5.87	2.63	8.62	5.96	1.38	9.05
		Tall Grass	4.72	2.69	1.21	3.95	2.73	0.63	4.15
		Broadleaf Plants	5.79	3.30	1.48	4.85	3.35	0.78	5.09
		Fruits/Pods/Seeds	0.64	0.37	0.16	0.54	0.37	0.09	0.57
		Arthropods	4.03	2.30	1.03	3.38	2.33	0.54	3.54
		Granivores	0.14	0.08	0.04	0.12	0.08	0.02	
Sunflowers	0.0169, 3, 7	Short Grass	8.63	4.92	2.20	7.22	4.99	1.16	7.58
		Tall Grass	3.95	2.26	1.01	3.31	2.29	0.53	3.47
		Broadleaf Plants	4.85	2.77	1.24	4.06	2.81	0.65	4.26
		Fruits/Pods/Seeds	0.54	0.31	0.14	0.45	0.31	0.07	0.47
		Arthropods	3.38	1.93	0.86	2.83	1.96	0.45	2.97
		Granivores	0.12	0.07	0.03	0.10	0.07	0.02	
Sweet Corn	0.03, 16, 7	Short Grass	18.52	10.56	4.73	15.51	10.72	2.48	16.26
		Tall Grass	8.49	4.84	2.17	7.11	4.91	1.14	7.45
		Broadleaf Plants	10.42	5.94	2.66	8.72	6.03	1.40	9.15
		Fruits/Pods/Seeds	1.16	0.66	0.30	0.97	0.67	0.16	1.02
		Arthropods	7.25	4.14	1.85	6.07	4.20	0.97	6.37
		Granivores	0.26	0.15	0.07	0.22	0.15	0.03	
Tree Nuts (foliar and dormant)	0.0354, 5, 7	Short Grass	20.68	11.79	5.28	17.31	11.97	2.77	18.16
		Tall Grass	9.48	5.41	2.42	7.94	5.48	1.27	8.32
		Broadleaf Plants	11.63	6.63	2.97	9.74	6.73	1.56	10.22
		Fruits/Pods/Seeds	1.29	0.74	0.33	1.08	0.75	0.17	1.14
		Arthropods	8.10	4.62	2.07	6.78	4.69	1.09	7.11
		Granivores	0.29	0.16	0.07	0.24	0.17	0.04	
Commercial Outdoor Premises	0.006936, 12, 21	Short Grass	2.29	1.31	0.59	1.92	1.33	0.31	2.01
		Tall Grass	1.05	0.60	0.27	0.88	0.61	0.14	0.92
		Broadleaf Plants	1.29	0.74	0.33	1.08	0.75	0.17	1.13
		Fruits/Pods/Seeds	0.14	0.08	0.04	0.12	0.08	0.02	0.13
		Arthropods	0.90	0.51	0.23	0.75	0.52	0.12	0.79
		Granivores	0.03	0.02	0.01	0.03	0.02	0.00	
Domestic Dwellings, Barns, Barnyards (incl. outdoor premises)	0.1094, 6, 7	Short Grass	65.53	37.37	16.73	54.86	37.91	8.79	57.54
		Tall Grass	30.03	17.13	7.67	25.14	17.38	4.03	26.37
		Broadleaf Plants	36.86	21.02	9.41	30.86	21.33	4.94	32.36
		Fruits/Pods/Seeds	4.10	2.34	1.05	3.43	2.37	0.55	3.60
		Arthropods	25.67	14.64	6.55	21.49	14.85	3.44	22.54
		Granivores	0.91	0.52	0.23	0.76	0.53	0.12	
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid	0.02188, 12, 30	Short Grass	6.51	3.71	1.66	5.45	3.77	0.87	5.72
		Tall Grass	2.98	1.70	0.76	2.50	1.73	0.40	2.62
		Broadleaf Plants	3.66	2.09	0.94	3.07	2.12	0.49	3.22

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Dose-Based EECs (mg/kg bw)						Diet-Based EECs (ppm)
			Avian			Mammalian			
			Size class (grams)			Size class (grams)			
			20	100	1000	15	35	1000	
Waste Sites, Paved Areas		Fruits/Pods/Seeds	0.41	0.23	0.10	0.34	0.24	0.05	0.36
		Arthropods	2.55	1.45	0.65	2.14	1.48	0.34	2.24
		Granivores	0.09	0.05	0.02	0.08	0.05	0.01	
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas (Perimeter Treatment)	0.001878, 12, 30	Short Grass	0.56	0.32	0.14	0.47	0.32	0.07	0.49
		Tall Grass	0.26	0.15	0.07	0.21	0.15	0.03	0.22
		Broadleaf Plants	0.31	0.18	0.08	0.26	0.18	0.04	0.28
		Fruits/Pods/Seeds	0.03	0.02	0.01	0.03	0.02	0.00	0.03
		Arthropods	0.22	0.12	0.06	0.18	0.13	0.03	0.19
		Granivores	0.01	0.00	0.00	0.01	0.00	0.00	
Ornamental Plants (herbaceous, non-flowering, woody) Lawns and turf	0.218, 12, 30	Short Grass	64.88	37.00	16.57	54.32	37.54	8.70	56.97
		Tall Grass	29.74	16.96	7.59	24.90	17.21	3.99	26.11
		Broadleaf Plants	36.50	20.81	9.32	30.55	21.12	4.90	32.05
		Fruits/Pods/Seeds	4.06	2.31	1.04	3.39	2.35	0.54	3.56
		Arthropods	25.41	14.49	6.49	21.27	14.70	3.41	22.31
		Granivores	0.90	0.51	0.23	0.75	0.52	0.12	
Ornamental Plants (Shade Trees, Ground Cover)	0.428, 12, 30	Short Grass	127	72.64	32.52	107	73.70	17.09	112
		Tall Grass	58.39	33.29	14.91	48.88	33.78	7.83	51.27
		Broadleaf Plants	71.66	40.86	18.29	59.99	41.46	9.61	62.92
		Fruits/Pods/Seeds	7.96	4.54	2.03	6.67	4.61	1.07	6.99
		Arthropods	49.89	28.45	12.74	41.77	28.87	6.69	43.81
		Granivores	1.77	1.01	0.45	1.48	1.02	0.24	
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	1.942, 12, 7	Short Grass	1198	683	306	1003	693	161	1052
		Tall Grass	549	313	140	460	318	73.66	482
		Broadleaf Plants	674	384	172	564	390	90.40	592
		Fruits/Pods/Seeds	74.88	42.70	19.12	62.69	43.32	10.04	65.75
		Arthropods	469	268	120	393	272	62.95	412
		Granivores	16.64	9.49	4.25	13.93	9.63	2.23	
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	0.127, 12, 7	Short Grass	78.35	44.68	20.00	65.59	45.33	10.51	68.79
		Tall Grass	35.91	20.48	9.17	30.06	20.78	4.82	31.53
		Broadleaf Plants	44.07	25.13	11.25	36.89	25.50	5.91	38.70
		Fruits/Pods/Seeds	4.90	2.79	1.25	4.10	2.83	0.66	4.30
		Arthropods	30.69	17.50	7.83	25.69	17.75	4.12	26.94
		Granivores	1.09	0.62	0.28	0.91	0.63	0.15	
Residential Lawns (1)	0.002333, 6, 7	Short Grass	1.40	0.80	0.36	1.17	0.81	0.19	1.23
		Tall Grass	0.64	0.37	0.16	0.54	0.37	0.09	0.56
		Broadleaf Plants	0.79	0.45	0.20	0.66	0.45	0.11	0.69
		Fruits/Pods/Seeds	0.09	0.05	0.02	0.07	0.05	0.01	0.08
		Arthropods	0.55	0.31	0.14	0.46	0.32	0.07	0.48
		Granivores	0.02	0.01	0.00	0.02	0.01	0.00	
Residential Lawns (2)	0.002333, 12, 7	Short Grass	1.44	0.82	0.37	1.20	0.83	0.19	1.26
		Tall Grass	0.66	0.38	0.17	0.55	0.38	0.09	0.58
		Broadleaf Plants	0.81	0.46	0.21	0.68	0.47	0.11	0.71

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Dose-Based EECs (mg/kg bw)						Diet-Based EECs (ppm)
			Avian			Mammalian			
			Size class (grams)			Size class (grams)			
			20	100	1000	15	35	1000	
		Fruits/Pods/Seeds	0.09	0.05	0.02	0.08	0.05	0.01	0.08
		Arthropods	0.56	0.32	0.14	0.47	0.33	0.08	0.49
		Granivores	0.02	0.01	0.01	0.02	0.01	0.00	

Table 6. Avian T-REX risk quotient (RQ) results for deltamethrin using a pyrethroid-specific foliar half-life of 8.3 days

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Avian				
			Acute dose RQs*			Subacute dietary RQs*	Chronic dietary RQs
			Size class (grams)				
			20	100	1000		
Canola, rapeseed, crambe	0.0097, 2, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		
Corn (field, pop)	0.0236, 5, 21	Short Grass	<0.01	<0.01	<0.01	<0.01	0.02
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		
Cotton	0.0322, 10, 5	Short Grass	<0.02	<0.01	<0.01	<0.01	0.05
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.02
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.03
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.02
		Granivores	<0.01	<0.01	<0.01		
Cucurbits, Tomato, Tamiillo, Eggplant, Ground Cheery, Pepinos	0.03, 6, 3	Short Grass	<0.02	<0.01	<0.01	<0.01	0.06
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.03
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.03
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.02
		Granivores	<0.01	<0.01	<0.01		
Garlic, Leeks, Onion, Shallots	0.03, 4, 5	Short Grass	<0.01	<0.01	<0.01	<0.01	0.04
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.02
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.02
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.01
		Granivores	<0.01	<0.01	<0.01		
Pome Fruits	0.0225, 2, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	0.02
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.01

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Avian				
			Acute dose RQs*			Subacute dietary RQs*	Chronic dietary RQs
			Size class (grams)				
			20	100	1000		
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		
Potato & Root Vegetables (1B); Tuberous & Corn Vegetables (1C); Artichokes	0.03, 5, 3	Short Grass	<0.02	<0.01	<0.01	<0.01	0.05
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.02
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.03
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.02
		Granivores	<0.01	<0.01	<0.01		
		Sorghum	0.0242, 2, 7	Short Grass	<0.01	<0.01	<0.01
Tall Grass	<0.01	<0.01		<0.01	<0.01	<0.01	
Broadleaf Plants	<0.01	<0.01		<0.01	<0.01	0.01	
Fruits/Pods/Seeds	<0.01	<0.01		<0.01	<0.01	<0.01	
Arthropods	<0.01	<0.01		<0.01	<0.01	<0.01	
Granivores	<0.01	<0.01		<0.01			
Sunflowers	0.0169, 3, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	0.02
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		
Sweet Corn	0.03, 16, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	0.04
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.02
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.02
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.01
		Granivores	<0.01	<0.01	<0.01		
Tree Nuts (foliar and dormant)	0.0354, 5, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	0.04
		Tall Grass	<0.01	<0.01	<0.01	<0.01	0.02
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	0.02
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	0.02
		Granivores	<0.01	<0.01	<0.01		
Commercial Outdoor Premises	0.006936, 12, 21	Short Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		
Domestic Dwellings, Barns, Barnyards (incl. outdoor premises)	0.1094, 6, 7	Short Grass	<0.04	<0.02	<0.01	<0.01	0.13
		Tall Grass	<0.02	<0.01	<0.01	<0.01	0.06
		Broadleaf Plants	<0.02	<0.01	<0.01	<0.01	0.07
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.02	<0.01	<0.01	<0.01	0.05
		Granivores	<0.01	<0.01	<0.01		
Non-Agr. Rights-of-	0.02188, 12, 30	Short Grass	<0.01	<0.01	<0.01	<0.01	0.01

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Avian				
			Acute dose RQs*			Subacute dietary RQs*	Chronic dietary RQs
			Size class (grams)				
			20	100	1000		
Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		
Non-Agr. Rights-of- Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas (Perimeter Treatment)	0.001878, 12, 30	Short Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		
Ornamental Plants (herbaceous, non- flowering, woody) Lawns and turf	0.218, 12, 30	Short Grass	0.04	0.02	<0.01	0.01	0.13
		Tall Grass	0.02	<0.01	<0.01	<0.01	0.06
		Broadleaf Plants	0.02	0.01	<0.01	<0.01	0.07
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	0.02	<0.01	<0.01	<0.01	0.05
		Granivores	<0.01	<0.01	<0.01		
Ornamental Plants (Shade Trees, Ground Cover)	0.428, 12, 30	Short Grass	0.08	0.04	0.01	0.02	0.25
		Tall Grass	0.04	0.02	<0.01	0.01	0.11
		Broadleaf Plants	0.04	0.02	<0.01	0.01	0.14
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	0.02
		Arthropods	0.03	0.01	<0.01	<0.01	0.10
		Granivores	<0.01	<0.01	<0.01		
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	1.942, 12, 7	Short Grass	0.74	0.33	0.10	0.23	2.34
		Tall Grass	0.34	0.15	0.05	0.10	1.07
		Broadleaf Plants	0.42	0.19	0.06	0.13	1.31
		Fruits/Pods/Seeds	0.05	0.02	<0.01	0.01	0.15
		Arthropods	0.29	0.13	0.04	0.09	0.92
		Granivores	0.01	<0.01	<0.01		
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	0.127, 12, 7	Short Grass	0.05	0.02	<0.01	0.01	0.15
		Tall Grass	0.02	<0.01	<0.01	<0.01	0.07
		Broadleaf Plants	0.03	0.01	<0.01	<0.01	0.09
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	0.02	<0.01	<0.01	<0.01	0.06
		Granivores	<0.01	<0.01	<0.01		
Residential Lawns (1)	0.002333, 6, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01		
Residential Lawns (2)	0.002333, 12, 7	Short Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Tall Grass	<0.01	<0.01	<0.01	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	<0.01	<0.01

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Avian				
			Acute dose RQs*			Subacute dietary RQs*	Chronic dietary RQs
			Size class (grams)				
			20	100	1000		
		Granivores	<0.01	<0.01	<0.01		

RQ values in bold exceed listed species acute or chronic risk LOC of 0.1 or 1.0, respectively

*All acute RQ values were “non-definitive” (i.e., “<” values) because the avian acute LD₅₀ values for deltamethrin were non-definitive (“> the highest dose tested”).

Table 7. Mammalian T-REX risk quotient (RQ) results for deltamethrin using a pyrethroid-specific foliar half-life of 8.3 days

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Mammalian						
			Acute dose RQs			Chronic Dose RQs			Chronic Diet RQs
			Size class (grams)			Size class (grams)			
			20	100	1000	20	100	1000	
Canola, rapeseed, crambe	0.0097, 2, 7	Short Grass	0.02	0.02	0.01	0.29	0.25	0.13	0.05
		Tall Grass	0.01	<0.01	<0.01	0.13	0.11	0.06	0.02
		Broadleaf Plants	0.01	0.01	<0.01	0.16	0.14	0.08	0.03
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	0.11	0.10	0.05	0.02
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Corn (field, pop)	0.0236, 5, 21	Short Grass	0.04	0.04	0.02	0.55	0.47	0.25	0.09
		Tall Grass	0.02	0.02	<0.01	0.25	0.22	0.12	0.04
		Broadleaf Plants	0.02	0.02	0.01	0.31	0.26	0.14	0.05
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.03	0.03	0.02	<0.01
		Arthropods	0.02	0.01	<0.01	0.22	0.18	0.10	0.03
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cotton	0.0322, 10, 5	Short Grass	0.14	0.12	0.07	1.79	1.53	0.82	0.28
		Tall Grass	0.07	0.06	0.03	0.82	0.70	0.38	0.13
		Broadleaf Plants	0.08	0.07	0.04	1.01	0.86	0.46	0.16
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.11	0.10	0.05	0.02
		Arthropods	0.06	0.05	0.03	0.70	0.60	0.32	0.11
		Granivores	<0.01	<0.01	<0.01	0.02	0.02	0.01	
Cucurbits, Tomato, Tamillo, Eggplant, Ground Cheery, Pepinos	0.03, 6, 3	Short Grass	0.16	0.14	0.07	2.03	1.73	0.93	0.32
		Tall Grass	0.07	0.06	0.03	0.93	0.79	0.43	0.14
		Broadleaf Plants	0.09	0.08	0.04	1.14	0.98	0.52	0.18
		Fruits/Pods/Seeds	0.01	<0.01	<0.01	0.13	0.11	0.06	0.02
		Arthropods	0.06	0.05	0.03	0.79	0.68	0.36	0.12
		Granivores	<0.01	<0.01	<0.01	0.03	0.02	0.01	
Garlic, Leeks, Onion, Shallots	0.03, 4, 5	Short Grass	0.11	0.09	0.05	1.38	1.18	0.63	0.21
		Tall Grass	0.05	0.04	0.02	0.63	0.54	0.29	0.10
		Broadleaf Plants	0.06	0.05	0.03	0.77	0.66	0.35	0.12
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.09	0.07	0.04	0.01

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Mammalian						
			Acute dose RQs			Chronic Dose RQs			Chronic Diet RQs
			Size class (grams)			Size class (grams)			
			20	100	1000	20	100	1000	
		Arthropods	0.04	0.04	0.02	0.54	0.46	0.25	0.08
		Granivores	<0.01	<0.01	<0.01	0.02	0.02	<0.01	
Pome Fruits	0.0225, 2, 7	Short Grass	0.05	0.05	0.02	0.68	0.58	0.31	0.11
		Tall Grass	0.02	0.02	0.01	0.31	0.26	0.14	0.05
		Broadleaf Plants	0.03	0.03	0.01	0.38	0.32	0.17	0.06
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.04	0.04	0.02	<0.01
		Arthropods	0.02	0.02	<0.01	0.26	0.23	0.12	0.04
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Potato & Root Vegetables (1B); Tuberous & Corn Vegetables (1C); Artichokes	0.03, 5, 3	Short Grass	0.15	0.13	0.07	1.86	1.59	0.85	0.29
		Tall Grass	0.07	0.06	0.03	0.85	0.73	0.39	0.13
		Broadleaf Plants	0.08	0.07	0.04	1.05	0.90	0.48	0.16
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.12	0.10	0.05	0.02
		Arthropods	0.06	0.05	0.03	0.73	0.62	0.33	0.11
		Granivores	<0.01	<0.01	<0.01	0.03	0.02	0.01	
Sorghum	0.0242, 2, 7	Short Grass	0.06	0.05	0.03	0.73	0.62	0.33	0.11
		Tall Grass	0.03	0.02	0.01	0.33	0.28	0.15	0.05
		Broadleaf Plants	0.03	0.03	0.02	0.41	0.35	0.19	0.06
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.05	0.04	0.02	<0.01
		Arthropods	0.02	0.02	0.01	0.28	0.24	0.13	0.04
		Granivores	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	
Sunflowers	0.0169, 3, 7	Short Grass	0.05	0.04	0.02	0.61	0.52	0.28	0.09
		Tall Grass	0.02	0.02	0.01	0.28	0.24	0.13	0.04
		Broadleaf Plants	0.03	0.02	0.01	0.34	0.29	0.16	0.05
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.04	0.03	0.02	<0.01
		Arthropods	0.02	0.02	<0.01	0.24	0.20	0.11	0.04
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Sweet Corn	0.03, 16, 7	Short Grass	0.11	0.09	0.05	1.31	1.12	0.60	0.20
		Tall Grass	0.05	0.04	0.02	0.60	0.51	0.27	0.09
		Broadleaf Plants	0.06	0.05	0.03	0.73	0.63	0.34	0.11
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.08	0.07	0.04	0.01
		Arthropods	0.04	0.04	0.02	0.51	0.44	0.23	0.08
		Granivores	<0.01	<0.01	<0.01	0.02	0.02	<0.01	
Tree Nuts (foliar and dormant)	0.0354, 5, 7	Short Grass	0.12	0.10	0.05	1.46	1.25	0.67	0.23
		Tall Grass	0.05	0.05	0.02	0.67	0.57	0.31	0.10
		Broadleaf Plants	0.07	0.06	0.03	0.82	0.70	0.38	0.13
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.09	0.08	0.04	0.01
		Arthropods	0.05	0.04	0.02	0.57	0.49	0.26	0.09
		Granivores	<0.01	<0.01	<0.01	0.02	0.02	<0.01	
Commercial	0.006936, 12,	Short Grass	0.01	0.01	<0.01	0.16	0.14	0.07	0.03

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Mammalian						
			Acute dose RQs			Chronic Dose RQs			Chronic Diet RQs
			Size class (grams)			Size class (grams)			
			20	100	1000	20	100	1000	
Outdoor Premises	21	Tall Grass	<0.01	<0.01	<0.01	0.07	0.06	0.03	0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	0.09	0.08	0.04	0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	0.06	0.05	0.03	<0.01
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Domestic Dwellings, Barns, Barnyards (incl. outdoor premises)	0.1094, 6, 7	Short Grass	0.37	0.32	0.17	4.62	3.95	2.12	0.72
		Tall Grass	0.17	0.15	0.08	2.12	1.81	0.97	0.33
		Broadleaf Plants	0.21	0.18	0.10	2.60	2.22	1.19	0.40
		Fruits/Pods/Seeds	0.02	0.02	0.01	0.29	0.25	0.13	0.04
		Arthropods	0.15	0.12	0.07	1.81	1.55	0.83	0.28
		Granivores	<0.01	<0.01	<0.01	0.06	0.05	0.03	
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas	0.02188, 12, 30	Short Grass	0.04	0.03	0.02	0.46	0.39	0.21	0.07
		Tall Grass	0.02	0.01	<0.01	0.21	0.18	0.10	0.03
		Broadleaf Plants	0.02	0.02	<0.01	0.26	0.22	0.12	0.04
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	0.03	0.02	0.01	<0.01
		Arthropods	0.01	0.01	<0.01	0.18	0.15	0.08	0.03
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas (Perimeter Treatment)	0.001878, 12, 30	Short Grass	<0.01	<0.01	<0.01	0.04	0.03	0.02	<0.01
		Tall Grass	<0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	0.02	0.02	0.01	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	0.02	0.01	<0.01	<0.01
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Ornamental Plants (herbaceous, non-flowering, woody) Lawns and turf	0.218, 12, 30	Short Grass	0.37	0.32	0.17	4.58	3.91	2.10	0.71
		Tall Grass	0.17	0.14	0.08	2.10	1.79	0.96	0.33
		Broadleaf Plants	0.21	0.18	0.10	2.57	2.20	1.18	0.40
		Fruits/Pods/Seeds	0.02	0.02	0.01	0.29	0.24	0.13	0.04
		Arthropods	0.14	0.12	0.07	1.79	1.53	0.82	0.28
		Granivores	<0.01	<0.01	<0.01	0.06	0.05	0.03	
Ornamental Plants (Shade Trees, Ground Cover)	0.428, 12, 30	Short Grass	0.72	0.62	0.33	8.99	7.68	4.11	1.40
		Tall Grass	0.33	0.28	0.15	4.12	3.52	1.89	0.64
		Broadleaf Plants	0.41	0.35	0.19	5.05	4.32	2.31	0.79
		Fruits/Pods/Seeds	0.05	0.04	0.02	0.56	0.48	0.26	0.09
		Arthropods	0.28	0.24	0.13	3.52	3.01	1.61	0.55
		Granivores	0.01	<0.01	<0.01	0.12	0.11	0.06	
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound	1.942, 12, 7	Short Grass	6.81	5.82	3.12	84.51	72.19	38.69	13.15
		Tall Grass	3.12	2.67	1.43	38.73	33.09	17.73	6.03
		Broadleaf Plants	3.83	3.27	1.75	47.54	40.60	21.77	7.40
		Fruits/Pods/Seeds	0.43	0.36	0.19	5.28	4.51	2.42	0.82

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Mammalian						
			Acute dose RQs			Chronic Dose RQs			Chronic Diet RQs
			Size class (grams)			Size class (grams)			
			20	100	1000	20	100	1000	
Treatment		Arthropods	2.67	2.28	1.22	33.10	28.27	15.16	5.15
		Granivores	0.09	0.08	0.04	1.17	1.00	0.54	
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	0.127, 12, 7	Short Grass	0.45	0.38	0.20	5.53	4.72	2.53	0.86
		Tall Grass	0.20	0.17	0.09	2.53	2.16	1.16	0.39
		Broadleaf Plants	0.25	0.21	0.11	3.11	2.66	1.42	0.48
		Fruits/Pods/Seeds	0.03	0.02	0.01	0.35	0.30	0.16	0.05
		Arthropods	0.17	0.15	0.08	2.16	1.85	0.99	0.34
		Granivores	<0.01	<0.01	<0.01	0.08	0.07	0.04	
		Residential Lawns (1)	0.002333, 6, 7	Short Grass	<0.01	<0.01	<0.01	0.10	0.08
Tall Grass	<0.01	<0.01		<0.01	0.05	0.04	0.02	<0.01	
Broadleaf Plants	<0.01	<0.01		<0.01	0.06	0.05	0.03	<0.01	
Fruits/Pods/Seeds	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
Arthropods	<0.01	<0.01		<0.01	0.04	0.03	0.02	<0.01	
Granivores	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01		
Residential Lawns (2)	0.002333, 12, 7	Short Grass	<0.01	<0.01	<0.01	0.10	0.09	0.05	0.02
		Tall Grass	<0.01	<0.01	<0.01	0.05	0.04	0.02	<0.01
		Broadleaf Plants	<0.01	<0.01	<0.01	0.06	0.05	0.03	<0.01
		Fruits/Pods/Seeds	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Arthropods	<0.01	<0.01	<0.01	0.04	0.03	0.02	<0.01
		Granivores	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	

RQ values in bold exceed listed species acute or chronic risk LOC of 0.1 or 1.0, respectively

Table 8. Terrestrial invertebrate risk quotients (RQ) for deltamethrin calculated using a pyrethroid-specific foliar dissipation half life of 8.3 days.

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Invertebrate RQs
Canola, rapeseed, crambe	0.0097, 2, 7	71.0
Corn (field, pop)	0.0236, 5, 21	134
Cotton	0.0322, 10, 5	437
Cucurbits, Tomato, Tamarillo, Eggplant, Ground Cheery, Pepinos	0.03, 6, 3	495
Garlic, Leeks, Onion, Shallots	0.03, 4, 5	335
Pome Fruits	0.0225, 2, 7	165
Potato & Root Vegetables (1B); Tuberous & Corn Vegetables (1C); Artichokes	0.03, 5, 3	454
Sorghum	0.0242, 2, 7	177
Sunflowers	0.0169, 3, 7	148
Sweet Corn	0.03, 16, 7	319
Tree Nuts (foliar and dormant)	0.0354, 5, 7	356
Commercial Outdoor Premises	0.006936, 12, 21	39
Domestic Dwellings, Barns, Barnyards (including outdoor premises)	0.1094, 6, 7	1,127
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas	0.02188, 12, 30	112
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas (Perimeter Treatment)	0.001878, 12, 30	9.6
Ornamental Plants (herbaceous, non-flowering, woody) Lawns and turf	0.218, 12, 30	1,116
Ornamental Plants (Shade Trees, Ground Cover)	0.428, 12, 30	2,190
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	1.942, 12, 7	20,601
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	0.127, 12, 7	1,347
Residential Lawns (1)	0.002333, 6, 7	24.0
Residential Lawns (2)	0.002333, 12, 7	24.7

RQ values in bold exceed the listed species acute risk LOC of 0.05

Table 9. Deltamethrin probit-based individual effect chance (IEC) for birds, mammals and terrestrial invertebrates using T-REX with a default foliar dissipation half life of 35 days

Use Category	Dietary Category	20 g Bird Acute RQ	Chance of Individual Effect at RQ or LOC Based on Probit Slope & Slope's 95% CI *	15 g Mammal Acute RQ	Chance of Individual Effect at RQ or LOC Based on Probit Slope & Slope's 95% CI	Invert Acute RQ	Chance of Individual Effect at RQ or LOC Based on Probit Slope & Slope's 95% CI
Canola, rapeseed, crambe	Short Grass	<0.01	1 in 1.80E+29 (1 in 4.05E+06, 1 in 1.00E+30)	0.03	1 in 6.50E+11 (1 in 1.03E+03, 1 in 1.00E+30)		
	Tall Grass	<0.01	1 in 1.00E+30 (1 in 1.73E+08, 1 in 1.00E+30)	0.01	1 in 1.05E+17 (1 in 1.26E+04, 1 in 1.00E+30)		
	Broadleaf Plants	<0.01	1 in 1.00E+30 (1 in 6.19E+07, 1 in 1.00E+30)	0.02	1 in 3.60E+15 (1 in 6.27E+03, 1 in 1.00E+30)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 1.94E+13, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 5.51E+07, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 1.00E+30 (1 in 3.90E+08, 1 in 1.00E+30)	0.01	1 in 1.54E+18 (1 in 2.20E+04, 1 in 1.00E+30)	85.3	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30	<0.01	1 in 1.00E+30 (1 in 2.11E+11, 1 in 1.00E+30)		
Corn (field, pop)	Short Grass	<0.01	1 in 5.87E+18 (1 in 2.90E+04, 1 in 1.00E+30)	0.09	1 in 5.08E+05 (1 in 49.66, 1 in 7.32E+19)		
	Tall Grass	<0.01	1 in 1.86E+25 (1 in 6.25E+05, 1 in 1.00E+30)	0.04	1 in 2.41E+09 (1 in 314.38, 1 in 1.00E+30)		
	Broadleaf Plants	<0.01	1 in 2.93E+23 (1 in 2.68E+05, 1 in 1.00E+30)	0.05	1 in 2.10E+08 (1 in 186.01, 1 in 1.00E+30)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 1.19E+10, 1 in 1.00E+30)	0.01	1 in 1.83E+23 (1 in 2.43E+05, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 5.02E+26 (1 in 1.22E+06, 1 in 1.00E+30)	0.04	1 in 1.75E+10 (1 in 479.69, 1 in 1.00E+30)	285	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 1.41E+14, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 2.46E+08, 1 in 1.00E+30)		
Cotton	Short Grass	<0.04	1 in 2.27E+10 (1 in 507.15, 1 in 1.00E+30)	0.33	1 in 62.70 (1 in 5.88, 1 in 1.13E+05)		
	Tall Grass	<0.02	1 in 1.75E+15 (1 in 5.40E+03, 1 in 1.00E+30)	0.15	1 in 8.26E+03 (1 in 19.45, 1 in 9.41E+12)		
	Broadleaf Plants	<0.02	1 in 7.32E+13 (1 in 2.78E+03, 1 in 1.00E+30)	0.19	1 in 1.86E+03 (1 in 13.69, 1 in 3.26E+10)		
	Fruits/Pods/Seeds	<0.00	1 in 1.00E+30 (1 in 1.64E+07, 1 in 1.00E+30)	0.02	1 in 5.12E+13 (1 in 2.58E+03, 1 in 1.00E+30)		

	Arthropods	<0.01	1 in 2.23E+16 (1 in 9.16E+03, 1 in 1.00E+30)	0.13	1 in 2.87E+04 (1 in 25.94, 1 in 1.12E+15)	1009	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 4.78E+10, 1 in 1.00E+30)	<0.01	1 in 2.41E+25 (1 in 6.59E+05, 1 in 1.00E+30)		
Cucurbits, Tomato, Tamillo, Eggplant, Ground Cheery, Pepinos	Short Grass	<0.03	1 in 1.73E+12 (1 in 1.27E+03, 1 in 1.00E+30)	0.24	1 in 356.87 (1 in 9.16, 1 in 6.62E+07)		
	Tall Grass	<0.01	1 in 3.41E+17 (1 in 1.61E+04, 1 in 1.00E+30)	0.11	1 in 1.14E+05 (1 in 35.53, 1 in 2.29E+17)		
	Broadleaf Plants	<0.01	1 in 1.11E+16 (1 in 7.93E+03, 1 in 1.00E+30)	0.14	1 in 2.03E+04 (1 in 23.96, 1 in 2.96E+14)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 7.78E+07, 1 in 1.00E+30)	0.02	1 in 7.57E+15 (1 in 7.32E+03, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 5.24E+18 (1 in 2.83E+04, 1 in 1.00E+30)	0.09	1 in 4.78E+05 (1 in 48.99, 1 in 5.79E+19)	733	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 3.22E+11, 1 in 1.00E+30)	<0.01	1 in 2.18E+28 (1 in 2.64E+06, 1 in 1.00E+30)		
Garlic, Leeks, Onion, Shallots	Short Grass	<0.02	1 in 7.22E+14 (1 in 4.49E+03, 1 in 1.00E+30)	0.16	1 in 5.40E+03 (1 in 17.61, 1 in 1.87E+12)		
	Tall Grass	<0.01	1 in 4.67E+20 (1 in 7.14E+04, 1 in 1.00E+30)	0.07	1 in 5.45E+06 (1 in 83.98, 1 in 7.45E+23)		
	Broadleaf Plants	<0.01	1 in 1.12E+19 (1 in 3.31E+04, 1 in 1.00E+30)	0.09	1 in 7.14E+05 (1 in 53.59, 1 in 2.76E+20)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 6.20E+08, 1 in 1.00E+30)	0.01	1 in 7.33E+18 (1 in 3.04E+04, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 9.15E+21 (1 in 1.32E+05, 1 in 1.00E+30)	0.06	1 in 2.88E+07 (1 in 120.88, 1 in 4.93E+26)	489	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 4.03E+12, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 1.70E+07, 1 in 1.00E+30)		
Pome Fruits	Short Grass	<0.01	1 in 4.95E+21 (1 in 1.16E+05, 1 in 1.00E+30)	0.07	1 in 2.04E+07 (1 in 112.08, 1 in 1.27E+26)		
	Tall Grass	<0.01	1 in 4.63E+28 (1 in 3.07E+06, 1 in 1.00E+30)	0.03	1 in 2.80E+11 (1 in 863.78, 1 in 1.00E+30)		
	Broadleaf Plants	<0.01	1 in 5.48E+26 (1 in 1.25E+06, 1 in 1.00E+30)	0.04	1 in 1.84E+10 (1 in 485.08, 1 in 1.00E+30)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 1.00E+11, 1 in 1.00E+30)	<0.01	1 in 3.32E+26 (1 in 1.12E+06, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 1.00E+30 (1 in 6.27E+06, 1 in 1.00E+30)	0.03	1 in 2.51E+12 (1 in 1.37E+03, 1 in 1.00E+30)	198	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 1.78E+15, 1 in 1.00E+30)	0.00	1 in 1.00E+30 (1 in 1.70E+09, 1 in 1.00E+30)		
Potato & Root	Short Grass	<0.02	1 in 1.60E+13	0.21	1 in 939.01		

Vegetables (1B); Tuberous & Corn Vegetables (1C); Artichokes			(1 in 2.03E+03, 1 in 1.00E+30)		(1 in 11.61, 1 in 2.47E+09)		
	Tall Grass	<0.01	1 in 4.98E+18 (1 in 2.80E+04, 1 in 1.00E+30)	0.10	1 in 4.65E+05 (1 in 48.69, 1 in 5.20E+19)		
	Broadleaf Plants	<0.01	1 in 1.44E+17 (1 in 1.35E+04, 1 in 1.00E+30)	0.12	1 in 7.36E+04 (1 in 32.15, 1 in 4.18E+16)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 1.69E+08, 1 in 1.00E+30)	0.01	1 in 9.68E+16 (1 in 1.24E+04, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 8.39E+19 (1 in 5.02E+04, 1 in 1.00E+30)	0.08	1 in 2.12E+06 (1 in 68.23, 1 in 1.90E+22)	628	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 8.32E+11, 1 in 1.00E+30)	<0.01	1 in 6.71E+29 (1 in 5.29E+06, 1 in 1.00E+30)		
Sorghum	Short Grass	<0.01	1 in 1.25E+21 (1 in 8.73E+04, 1 in 1.00E+30)	0.07	1 in 9.39E+06 (1 in 94.63, 1 in 6.21E+24)		
	Tall Grass	<0.01	1 in 9.38E+27 (1 in 2.22E+06, 1 in 1.00E+30)	0.03	1 in 1.04E+11 (1 in 701.16, 1 in 1.00E+30)		
	Broadleaf Plants	<0.01	1 in 1.18E+26 (1 in 9.10E+05, 1 in 1.00E+30)	0.04	1 in 7.26E+09 (1 in 397.89, 1 in 1.00E+30)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 6.50E+10, 1 in 1.00E+30)	<0.01	1 in 7.16E+25 (1 in 8.23E+05, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 3.01E+29 (1 in 4.50E+06, 1 in 1.00E+30)	0.03	1 in 8.98E+11 (1 in 1.10E+03, 1 in 1.00E+30)	213	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 1.07E+15, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 1.15E+09, 1 in 1.00E+30)		
Sunflowers	Short Grass	<0.01	1 in 1.78E+21 (1 in 9.40E+04, 1 in 1.00E+30)	0.07	1 in 1.15E+07 (1 in 98.84, 1 in 1.35E+25)		
	Tall Grass	<0.01	1 in 1.42E+28 (1 in 2.42E+06, 1 in 1.00E+30)	0.03	1 in 1.34E+11 (1 in 739.88, 1 in 1.00E+30)		
	Broadleaf Plants	<0.01	1 in 1.75E+26 (1 in 9.87E+05, 1 in 1.00E+30)	0.04	1 in 9.22E+09 (1 in 418.73, 1 in 1.00E+30)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 7.27E+10, 1 in 1.00E+30)	<0.01	1 in 1.06E+26 (1 in 8.92E+05, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 4.60E+29 (1 in 4.90E+06, 1 in 1.00E+30)	0.03	1 in 1.17E+12 (1 in 1.17E+03, 1 in 1.00E+30)	209	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 1.22E+15, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 1.27E+09, 1 in 1.00E+30)		
Sweet Corn	Short Grass	<0.03	1 in 3.75E+10 (1 in 564.42, 1 in 1.00E+30)	0.32	1 in 75.92 (1 in 6.18, 1 in 2.25E+05)		
	Tall Grass	<0.02	1 in 3.25E+15 (1 in 6.14E+03, 1 in 1.00E+30)	0.15	1 in 1.11E+04 (1 in 20.84, 1 in 2.94E+13)		
	Broadleaf Plants	<0.02	1 in 1.32E+14 (1 in 3.15E+03, 1 in 1.00E+30)	0.18	1 in 2.44E+03 (1 in 14.59, 1 in 9.03E+10)		

	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 1.97E+07, 1 in 1.00E+30)	0.02	1 in 9.18E+13 (1 in 2.92E+03, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 4.23E+16 (1 in 1.05E+04, 1 in 1.00E+30)	0.13	1 in 3.96E+04 (1 in 27.91, 1 in 3.82E+15)	971	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 5.99E+10, 1 in 1.00E+30)	<0.01	1 in 5.37E+25 (1 in 7.76E+05, 1 in 1.00E+30)		
Tree Nuts (foliar and dormant)	Short Grass	<0.02	1 in 1.15E+13 (1 in 1.89E+03, 1 in 1.00E+30)	0.21	1 in 810.12 (1 in 11.20, 1 in 1.42E+09)		
	Tall Grass	<0.01	1 in 3.34E+18 (1 in 2.58E+04, 1 in 1.00E+30)	0.10	1 in 3.76E+05 (1 in 46.44, 1 in 2.29E+19)		
	Broadleaf Plants	<0.01	1 in 9.84E+16 (1 in 1.25E+04, 1 in 1.00E+30)	0.12	1 in 6.06E+04 (1 in 30.76, 1 in 1.97E+16)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 1.51E+08, 1 in 1.00E+30)	0.01	1 in 6.62E+16 (1 in 1.15E+04, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 5.55E+19 (1 in 4.61E+04, 1 in 1.00E+30)	0.08	1 in 1.70E+06 (1 in 64.92, 1 in 7.92E+21)	643	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 7.23E+11, 1 in 1.00E+30)	<0.01	1 in 4.03E+29 (1 in 4.77E+06, 1 in 1.00E+30)		
Commercial Outdoor Premises	Short Grass	<0.01	1 in 1.60E+28 (1 in 2.48E+06, 1 in 1.00E+30)	0.03	1 in 1.45E+11 (1 in 751.68, 1 in 1.00E+30)		
	Tall Grass	<0.01	1 in 1.00E+30 (1 in 9.95E+07, 1 in 1.00E+30)	0.01	1 in 1.69E+16 (1 in 8.65E+03, 1 in 1.00E+30)		
	Broadleaf Plants	<0.01	1 in 1.00E+30 (1 in 3.61E+07, 1 in 1.00E+30)	0.02	1 in 6.33E+14 (1 in 4.37E+03, 1 in 1.00E+30)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 9.48E+12, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 3.22E+07, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 1.00E+30 (1 in 2.21E+08, 1 in 1.00E+30)	0.01	1 in 2.34E+17 (1 in 1.49E+04, 1 in 1.00E+30)	95.2	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30	<0.01	1 in 1.00E+30 (1 in 1.09E+11, 1 in 1.00E+30)		
Domestic Dwellings, Barns, Barnyards (including outdoor premises)	Short Grass	<0.08	1 in 2.36E+06 (1 in 69.88, 1 in 2.89E+22)	0.74	1 in 3.58 (1 in 2.52, 1 in 8.24)		
	Tall Grass	<0.04	1 in 1.78E+10 (1 in 481.55, 1 in 1.00E+30)	0.34	1 in 57.21 (1 in 5.74, 1 in 8.10E+04)		
	Broadleaf Plants	<0.05	1 in 1.37E+09 (1 in 278.57, 1 in 1.00E+30)	0.42	1 in 22.85 (1 in 4.47, 1 in 3.16E+03)		
	Fruits/Pods/Seeds	<0.01	1 in 4.44E+24 (1 in 4.66E+05, 1 in 1.00E+30)	0.05	1 in 1.03E+09 (1 in 262.01, 1 in 1.00E+30)		
	Arthropods	<0.03	1 in 1.41E+11 (1 in 747.67, 1 in 1.00E+30)	0.29	1 in 127.47 (1 in 7.07, 1 in 1.48E+06)	2243	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30	0.01	1 in 5.24E+18		

			(1 in 5.61E+08, 1 in 1.00E+30)		(1 in 2.83E+04, 1 in 1.00E+30)		
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas	Short Grass	<0.01	1 in 3.05E+20 (1 in 6.54E+04, 1 in 1.00E+30)	0.08	1 in 4.31E+06 (1 in 79.75, 1 in 2.98E+23)		
	Tall Grass	<0.01	1 in 1.84E+27 (1 in 1.59E+06, 1 in 1.00E+30)	0.03	1 in 3.85E+10 (1 in 567.45, 1 in 1.00E+30)		
	Broadleaf Plants	<0.01	1 in 2.45E+25 (1 in 6.61E+05, 1 in 1.00E+30)	0.04	1 in 2.84E+09 (1 in 325.50, 1 in 1.00E+30)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 4.18E+10, 1 in 1.00E+30)	<0.01	1 in 1.50E+25 (1 in 5.98E+05, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 5.66E+28 (1 in 3.20E+06, 1 in 1.00E+30)	0.03	1 in 3.17E+11 (1 in 886.82, 1 in 1.00E+30)	229	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 6.30E+14, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 7.68E+08, 1 in 1.00E+30)		
Non-Agr. Rights-of-Way, Fencerows, Hedgerows, Solid Waste Sites, Paved Areas (Perimeter Treatment)	Short Grass	<0.01	1 in 1.00E+30 (1 in 6.80E+09, 1 in 1.00E+30)	0.01	1 in 2.62E+22 (1 in 1.63E+05, 1 in 1.00E+30)		
	Tall Grass	<0.01	1 in 1.00E+30 (1 in 6.75E+11, 1 in 1.00E+30)	<0.01	1 in 3.16E+29 (1 in 4.54E+06, 1 in 1.00E+30)		
	Broadleaf Plants	<0.01	1 in 1.00E+30 (1 in 1.93E+11, 1 in 1.00E+30)	<0.01	1 in 3.49E+27 (1 in 1.82E+06, 1 in 1.00E+30)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30	<0.01	1 in 1.00E+30 (1 in 1.68E+11, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 1.00E+30 (1 in 1.80E+12, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 9.36E+06, 1 in 1.00E+30)	19.7	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30	<0.01	1 in 1.00E+30 (1 in 3.29E+15, 1 in 1.00E+30)		
Ornamental Plants (herbaceous, non- flowering, woody) Lawns and turf	Short Grass	<0.08	1 in 1.96E+06 (1 in 67.06, 1 in 1.40E+22)	0.76	1 in 3.43 (1 in 2.48, 1 in 7.32)		
	Tall Grass	<0.04	1 in 1.40E+10 (1 in 457.53, 1 in 1.00E+30)	0.35	1 in 52.31 (1 in 5.60, 1 in 5.88E+04)		
	Broadleaf Plants	<0.05	1 in 1.09E+09 (1 in 265.38, 1 in 1.00E+30)	0.43	1 in 21.16 (1 in 4.37, 1 in 2.42E+03)		
	Fruits/Pods/Seeds	<0.01	1 in 3.04E+24 (1 in 4.31E+05, 1 in 1.00E+30)	0.05	1 in 8.23E+08 (1 in 249.68, 1 in 1.00E+30)		
	Arthropods	<0.03	1 in 1.10E+11 (1 in 708.91, 1 in 1.00E+30)	0.30	1 in 115.37 (1 in 6.89, 1 in 1.03E+06)	2286	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 5.09E+08, 1 in 1.00E+30)	0.01	1 in 3.77E+18 (1 in 2.65E+04, 1 in 1.00E+30)		
Ornamental Plants (Shade Trees, Ground	Short Grass	<0.16	1 in 5.59E+03 (1 in 17.76, 1 in 2.13E+12)	1.48	1 in 1.28 (1 in 1.58, 1 in 1.07)		
	Tall Grass	<0.07	1 in 5.71E+06	0.68	1 in 4.44		

Cover)			(1 in 84.85, 1 in 8.94E+23)		(1 in 2.71, 1 in 15.20)		
	Broadleaf Plants	<0.09	1 in 7.46E+05 (1 in 54.11, 1 in 3.27E+20)	0.83	1 in 2.76 (1 in 2.29, 1 in 4.17)		
	Fruits/Pods/Seeds	<0.01	1 in 7.94E+18 (1 in 3.09E+04, 1 in 1.00E+30)	0.09	1 in 5.96E+05 (1 in 51.47, 1 in 1.36E+20)		
	Arthropods	<0.06	1 in 3.02E+07 (1 in 122.19, 1 in 5.98E+26)	0.58	1 in 6.93 (1 in 3.14, 1 in 59.13)	4487	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 1.74E+07, 1 in 1.00E+30)	0.02	1 in 6.12E+13 (1 in 2.68E+03, 1 in 1.00E+30)		
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	Short Grass	<2.05	1 in 1.09 (1 in 1.36, 1 in 1.00)	18.90	1 in 1.00 (1 in 1.01, 1 in 1.00)		
	Tall Grass	<0.94	1 in 2.21 (1 in 2.09, 1 in 2.47)	8.66	1 in 1.00 (1 in 1.03, 1 in 1.00)		
	Broadleaf Plants	<1.15	1 in 1.64 (1 in 1.82, 1 in 1.41)	10.63	1 in 1.00 (1 in 1.02, 1 in 1.00)		
	Fruits/Pods/Seeds	<0.13	1 in 3.37E+04 (1 in 26.91, 1 in 2.06E+15)	1.18	1 in 1.59 (1 in 1.79, 1 in 1.35)		
	Arthropods	<0.80	1 in 2.99 (1 in 2.36, 1 in 5.11)	7.40	1 in 1.00 (1 in 1.04, 1 in 1.00)	57150	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.03	1 in 5.66E+11 (1 in 1.00E+03, 1 in 1.00E+30)	0.26	1 in 223.77 (1 in 8.15, 1 in 1.17E+07)		
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	Short Grass	<0.13	1 in 2.32E+04 (1 in 24.71, 1 in 4.94E+14)	1.24	1 in 1.51 (1 in 1.75, 1 in 1.26)		
	Tall Grass	<0.06	1 in 4.00E+07 (1 in 129.87, 1 in 1.79E+27)	0.57	1 in 7.50 (1 in 3.22, 1 in 76.14)		
	Broadleaf Plants	<0.08	1 in 4.55E+06 (1 in 80.74, 1 in 3.71E+23)	0.70	1 in 4.19 (1 in 2.66, 1 in 12.90)		
	Fruits/Pods/Seeds	<0.01	1 in 2.18E+20 (1 in 6.11E+04, 1 in 1.00E+30)	0.08	1 in 3.58E+06 (1 in 76.57, 1 in 1.45E+23)		
	Arthropods	<0.05	1 in 2.36E+08 (1 in 190.73, 1 in 1.00E+30)	0.48	1 in 12.81 (1 in 3.78, 1 in 438.65)	3737	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30 (1 in 4.20E+07, 1 in 1.00E+30)	0.02	1 in 1.03E+15 (1 in 4.83E+03, 1 in 1.00E+30)		
Residential Lawns (1)	Short Grass	<0.01	1 in 1.00E+30 (1 in 6.28E+07, 1 in 1.00E+30)	0.02	1 in 3.77E+15 (1 in 6.33E+03, 1 in 1.00E+30)		
	Tall Grass	<0.01	1 in 1.00E+30 (1 in 3.74E+09, 1 in 1.00E+30)	0.01	1 in 3.31E+21 (1 in 1.07E+05, 1 in 1.00E+30)		
	Broadleaf Plants	<0.01	1 in 1.00E+30 (1 in 1.22E+09, 1 in 1.00E+30)	0.01	1 in 7.29E+19 (1 in 4.87E+04, 1 in 1.00E+30)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 9.82E+14, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 1.08E+09, 1 in 1.00E+30)		

	Arthropods	<0.01	1 in 1.00E+30 (1 in 8.99E+09, 1 in 1.00E+30)	0.01	1 in 6.89E+22 (1 in 1.99E+05, 1 in 1.00E+30)	47.8	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30	<0.01	1 in 1.00E+30 (1 in 7.86E+12, 1 in 1.00E+30)		
Residential Lawns (2)	Short Grass	<0.01	1 in 1.00E+30 (1 in 1.10E+07, 1 in 1.00E+30)	0.02	1 in 1.45E+13 (1 in 1.98E+03, 1 in 1.00E+30)		
	Tall Grass	<0.01	1 in 1.00E+30 (1 in 5.33E+08, 1 in 1.00E+30)	0.01	1 in 4.39E+18 (1 in 2.73E+04, 1 in 1.00E+30)		
	Broadleaf Plants	<0.01	1 in 1.00E+30 (1 in 1.84E+08, 1 in 1.00E+30)	0.01	1 in 1.28E+17 (1 in 1.32E+04, 1 in 1.00E+30)		
	Fruits/Pods/Seeds	<0.01	1 in 1.00E+30 (1 in 8.21E+13, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 1.63E+08, 1 in 1.00E+30)		
	Arthropods	<0.01	1 in 1.00E+30 (1 in 1.23E+09, 1 in 1.00E+30)	0.01	1 in 7.38E+19 (1 in 4.89E+04, 1 in 1.00E+30)	68.7	1 in 1.00 (1 in 1.00, 1 in 1.00)
	Granivores	<0.01	1 in 1.00E+30	<0.01	1 in 1.00E+30 (1 in 7.96E+11, 1 in 1.00E+30)		

*All acute RQ values are “non-definitive” (i.e., “<” values) because the avian acute LD₅₀ values for deltamethrin were non-definitive (“> the highest dose tested). As a result, the avian Probit-based probability of effects estimates should be interpreted as “<” values (i.e., the probability of individual effect is less than the value provided in this table).

T-HERPS Results Using a Default Foliar Dissipation Half Life of 35 days

Table 10. T-HERPS estimated environmental concentrations (EEC) of deltamethrin for amphibians and reptiles using default foliar half-life of 35 days

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Amphibian Acute dose based EEC (mg/kg/d)			Reptile Acute Dose-Based EEC (mg/kg/d)			Diet EECs (ppm)	
			Size class (grams)			Size class (grams)			Amphibian	Reptile
			2	20	200	2	20	800		
Ornamental Plants (Shade Trees, Ground Cover)	0.428, 12, 30	Broadleaf Plants/Small Insects	7.16	4.24	2.52	7.16	4.24	1.84	129	129
		Fruits/Pods/Seeds/Large Insects	0.80	0.47	0.28	0.80	0.47	0.20	14.32	14.32
		Small Herbivore Mammals	418	153	56.18	541	217	50.42	230	176
		Small Insectivore Mammal	26.15	9.58	3.51	33.79	13.58	3.15	14.37	10.98
		Small Amphibians	5.23	3.10	1.84	7.44	5.00	2.65	4.65	4.04
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	1.942, 12, 7	Broadleaf Plants/Small Insects	91.17	54.05	32.05	91.17	54.05	23.40	1642	1642
		Fruits/Pods/Seeds/Large Insects	10.13	6.01	3.56	10.13	6.01	2.60	182	182
		Small Herbivore Mammals	5329	1953	716	6887	2767	642	2929	2237
		Small Insectivore Mammal	333	122	44.72	430	173	40.14	183	140
		Small Amphibians	66.64	39.51	23.43	94.70	63.71	33.77	59.27	51.51
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	0.127, 12, 7	Broadleaf Plants/Small Insects	5.96	3.53	2.10	5.96	3.53	1.53	107	107
		Fruits/Pods/Seeds/Large Insects	0.66	0.39	0.23	0.66	0.39	0.17	11.93	11.93
		Small Herbivore Mammals	348	128	46.79	450	181	42.00	192	146
		Small Insectivore Mammal	21.78	7.98	2.92	28.15	11.31	2.63	11.97	9.14
		Small Amphibians	4.36	2.58	1.53	6.19	4.17	2.21	3.88	3.37
		Fruits/Pods/Seeds/Lg. Insects	7.16	4.24	2.52	7.16	4.24	1.84	129	129
		Sm. Herbivore Mammals	0.80	0.47	0.28	0.80	0.47	0.20	14.32	14.32
		Sm. Insectivore Mammal	418	153	56.18	541	217	50.42	230	176

Table 11. Amphibian T-HERPS risk quotients (RQ) results for deltamethrin using default foliar half-life of 35 days

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Amphibian				
			Acute dose RQs*			Subacute dietary RQs*	Chronic dietary RQs
			Size class (grams)				
			2	20	200		
Ornamental Plants (Shade Trees, Ground Cover)	0.428, 12, 30	Broadleaf Plants/Sm. Insects	<0.01	<0.01	<0.01	<0.03	0.29
		Fruits/Pods/Seeds/Lg. Insects	<0.01	<0.01	<0.01	<0.01	0.03
		Sm. Herbivore Mammals	<0.19	<0.07	<0.02	<0.05	0.51
		Sm. Insectivore Mammal	0.01	<0.01	<0.01	<0.01	0.03
		Sm. Amphibians	<0.01	<0.01	<0.01	<0.01	0.01
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	1.942, 12, 7	Broadleaf Plants/Sm. Insects	<0.04	<0.02	<0.01	<0.35	3.65
		Fruits/Pods/Seeds/Lg. Insects	<0.01	<0.01	<0.01	<0.04	0.41
		Sm. Herbivore Mammals	<2.37	<0.87	<0.32	<0.63	6.51
		Sm. Insectivore Mammal	<0.15	<0.05	<0.02	<0.04	0.41
		Sm. Amphibians	<0.03	<0.02	<0.01	<0.01	0.13
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	0.127, 12, 7	Broadleaf Plants/Sm. Insects	<0.01	<0.01	<0.01	<0.02	0.24
		Fruits/Pods/Seeds/Lg. Insects	<0.01	<0.01	<0.01	<0.01	0.03
		Sm. Herbivore Mammals	<0.15	<0.06	<0.02	<0.04	0.43
		Sm. Insectivore Mammal	<0.01	<0.01	<0.01	<0.01	0.03
		Sm. Amphibians	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds/Lg. Insects	<0.01	<0.01	<0.01	<0.03	0.29
		Sm. Herbivore Mammals	<0.01	<0.01	<0.01	<0.01	0.03
		Sm. Insectivore Mammal	<0.19	<0.07	<0.02	<0.05	0.51

RQ values in bold exceed listed species acute or chronic risk LOC of 0.1 or 1.0, respectively

*All acute amphibian RQ values are “non-definitive” (i.e., “<” values) because the avian acute LD₅₀ values for deltamethrin were non-definitive (“> the highest dose tested”).

Table 12. Reptilian T-HERPS risk quotients (RQ) results for deltamethrin using default foliar half-life of 35 days

Use Category	App Rate (lb a.i./A), # Apps, Interval (d)	Dietary Category	Reptilian				
			Acute dose RQs*			Subacute dietary RQs*	Chronic dietary RQs
			Size class (grams)				
			2	20	800		
Ornamental Plants (Shade Trees, Ground Cover)	0.428, 12, 30	Broadleaf Plants/Sm. Insects	<0.01	<0.01	<0.01	<0.03	0.29
		Fruits/Pods/Seeds/Lg. Insects	<0.01	<0.01	<0.01	<0.01	0.03
		Sm. Herbivore Mammals	<0.24	<0.10	<0.02	<0.04	0.39
		Sm. Insectivore Mammal	<0.02	<0.01	<0.01	<0.01	0.02
		Sm. Amphibians	<0.01	<0.01	<0.01	<0.01	<0.01
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	1.942, 12, 7	Broadleaf Plants/Sm. Insects	<0.04	<0.02	<0.01	<0.35	3.65
		Fruits/Pods/Seeds/Lg. Insects	<0.01	<0.01	<0.01	<0.04	0.41
		Sm. Herbivore Mammals	<3.06	<1.23	<0.29	<0.48	4.97
		Sm. Insectivore Mammal	<0.19	<0.08	<0.02	<0.03	0.31
		Sm. Amphibians	<0.04	<0.03	<0.02	<0.01	0.11
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	0.127, 12, 7	Broadleaf Plants/Sm. Insects	<0.01	<0.01	<0.01	<0.02	0.24
		Fruits/Pods/Seeds/Lg. Insects	<0.01	<0.01	<0.01	<0.01	0.03
		Sm. Herbivore Mammals	<0.20	<0.08	<0.02	<0.03	0.33
		Sm. Insectivore Mammal	<0.01	<0.01	<0.01	<0.01	0.02
		Sm. Amphibians	<0.01	<0.01	<0.01	<0.01	<0.01
		Fruits/Pods/Seeds/Lg. Insects	<0.01	<0.01	<0.01	<0.03	0.29
		Sm. Herbivore Mammals	<0.01	<0.01	<0.01	<0.01	0.03
		Sm. Insectivore Mammal	<0.24	<0.10	<0.02	<0.04	0.39

RQ values in bold exceed listed species acute or chronic risk LOC of 0.1 or 1.0, respectively

*All acute reptilian RQ values are “non-definitive” (i.e., “<” values) because the avian acute LD₅₀ values for deltamethrin were non-definitive (“> the highest dose tested).

Table 13. Probit-based individual effect chance (IEC) for amphibians and reptiles birds using T-HERPS and a default foliar dissipation half life of 35 days

Use Category	Dietary Category	2 g Amphibian Acute RQ*	Chance of Individual Effect at RQ or LOC Based on Probit Slope & Slope's 95% CI *	2 g Reptilian Acute RQ*	Chance of Individual Effect at RQ or LOC Based on Probit Slope & Slope's 95% CI *
Ornamental Plants (Shade Trees, Ground Cover)	Broadleaf Plants/Small Insects	<0.01	1 in 7.57E+28 (1 in 3.40E+06, 1 in 1.00E+30)	<0.01	1 in 7.57E+28 (1 in 3.40E+06, 1 in 1.00E+30)
	Fruits/Pods/Seeds/Large Insects	<0.01	1 in 1.00E+30 (1 in 3.94E+11, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 3.94E+11, 1 in 1.00E+30)
	Small Herbivore Mammals	<0.19	1 in 1.98E+03 (1 in 13.89, 1 in 4.13E+10)	<0.24	1 in 375.48 (1 in 9.28, 1 in 8.00E+07)
	Small Insectivore Mammal	0.01	1 in 6.37E+17 (1 in 1.83E+04, 1 in 1.00E+30)	<0.02	1 in 8.68E+15 (1 in 7.53E+03, 1 in 1.00E+30)
	Small Amphibians	<0.01	1 in 1.00E+30 (1 in 1.44E+07, 1 in 1.00E+30)	<0.01	1 in 3.27E+28 (1 in 2.86E+06, 1 in 1.00E+30)
Ornamental Plants (Shade Trees, Ground Cover): Ant Mound Treatment	Broadleaf Plants/Small Insects	<0.04	1 in 5.38E+09 (1 in 373.29, 1 in 1.00E+30)	<0.04	1 in 5.38E+09 (1 in 373.29, 1 in 1.00E+30)
	Fruits/Pods/Seeds/Large Insects	<0.01	1 in 4.36E+25 (1 in 7.44E+05, 1 in 1.00E+30)	<0.01	1 in 4.36E+25 (1 in 7.44E+05, 1 in 1.00E+30)
	Small Herbivore Mammals	<2.37	1 in 1.05 (1 in 1.29, 1 in 1.00)	<3.06	1 in 1.01 (1 in 1.20, 1 in 1.00)
	Small Insectivore Mammal	<0.15	1 in 1.06E+04 (1 in 20.61, 1 in 2.44E+13)	<0.19	1 in 1.63E+03 (1 in 13.26, 1 in 1.97E+10)
	Small Amphibians	<0.03	1 in 3.30E+11 (1 in 894.40, 1 in 1.00E+30)	<0.04	1 in 3.35E+09 (1 in 337.30, 1 in 1.00E+30)
Ornamental Sod Farms, Lawns, Turf, Recreational Areas	Broadleaf Plants/Small Insects	<0.01	1 in 1.00E+30 (1 in 7.83E+06, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 7.83E+06, 1 in 1.00E+30)
	Fruits/Pods/Seeds/Large Insects	<0.01	1 in 1.00E+30 (1 in 1.22E+12, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 1.22E+12, 1 in 1.00E+30)
	Small Herbivore Mammals	<0.15	1 in 7.48E+03 (1 in 19.01, 1 in 6.45E+12)	<0.20	1 in 1.20E+03 (1 in 12.32, 1 in 6.21E+09)
	Small Insectivore Mammal	<0.01	1 in 1.58E+19 (1 in 3.56E+04, 1 in 1.00E+30)	<0.01	1 in 1.81E+17 (1 in 1.41E+04, 1 in 1.00E+30)
	Small Amphibians	<0.01	1 in 1.00E+30 (1 in 3.47E+07, 1 in 1.00E+30)	<0.01	1 in 1.00E+30 (1 in 6.56E+06, 1 in 1.00E+30)

*All acute RQ values are “non-definitive” (i.e., “<” values) because the avian acute LD₅₀ values for deltamethrin were non-definitive (“> the highest dose tested). As a result, the amphibian and reptilian Probit-based probability of effects estimates should be interpreted as “<” values (i.e., the probability of individual effect is less than the value provided in this table).