

Appendix N T-HERPS Model Results

Upper Bound Kenaga Residues For RQ Calculation

Chemical Name:	Linuron
Use	asparagus
Formulation	liquid
Application Rate	4 lbs a.i./acre
Half-life	35 days
Application Interval	0 days
Maximum # Apps./Year	1
Length of Simulation	1 year

Endpoints

Avian	Bobwhite quail	LD50 (mg/kg-bw)	940.00
	Bobwhite quail	LC50 (mg/kg-diet)	1700.00
	Bobwhite quail	NOAEL(mg/kg-bw)	0.00
	Bobwhite quail	NOAEC (mg/kg-diet)	100.00

For 4 lb ai/A applications of Linuron

Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs

Table X. Upper Bound Kenaga, Acute Terrestrial Herpetofauna Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammal		Small Amphibians	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
1.4	940.00	20.98	0.02	2.33	0.00	N/A	N/A	N/A	N/A	N/A	N/A
37	940.00	20.62	0.02	2.29	0.00	598.39	0.64	37.40	0.04	0.72	0.00
238	940.00	13.51	0.01	1.50	0.00	93.03	0.10	5.81	0.01	0.47	0.00

Table X. Upper Bound Kenaga, Subacute Terrestrial Herpetofauna Dietary Based Risk Quotients											
LC50 (ppm)	EECs and RQs										
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians		
	EEC	RQ	EEC	RQ	EEC	RO	EEC	RO	EEC	RO	

1700	540.00	0.32	60.00	0.04	632.59	0.37	39.54	0.02	18.74	0.01
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Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Chronic Terrestrial Herpetofauna Dietary Based Risk Quotients										
NOAEC (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
100	540.00	5.40	60.00	0.60	632.59	6.33	39.54	0.40	18.74	0.19

Size class not used for dietary risk quotients

For 3 lb ai/A applications of Linuron

Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs

Table X. Upper Bound Kenaga, Acute Terrestrial Herpetofauna Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammal		Small Amphibians	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
1.4	940.00	15.73	0.02	1.75	0.00	N/A	N/A	N/A	N/A	N/A	N/A
37	940.00	15.46	0.02	1.72	0.00	448.79	0.48	28.05	0.03	0.54	0.00
238	940.00	10.14	0.01	1.13	0.00	69.77	0.07	4.36	0.00	0.35	0.00

Table X. Upper Bound Kenaga, Subacute Terrestrial Herpetofauna Dietary Based Risk Quotients										
LC50 (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
1700	405.00	0.24	45.00	0.03	474.44	0.28	29.65	0.02	14.06	0.01

Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Chronic Terrestrial Herpetofauna Dietary Based Risk Quotients										
NOAEC (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
100	405.00	4.05	45.00	0.45	474.44	4.74	29.65	0.30	14.06	0.14

Size class not used for dietary risk quotients

For 1.5 lb ai/A applications of Linuron

Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs

Table X. Upper Bound Kenaga, Acute Terrestrial Herpetofauna Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammal		Small Amphibians	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
1.4	940.00	7.87	0.01	0.87	0.00	N/A	N/A	N/A	N/A	N/A	N/A
37	940.00	7.73	0.01	0.86	0.00	224.40	0.24	14.02	0.01	0.27	0.00
238	940.00	5.07	0.01	0.56	0.00	34.89	0.04	2.18	0.00	0.18	0.00

Table X. Upper Bound Kenaga, Subacute Terrestrial Herpetofauna Dietary Based Risk Quotients										
LC50 (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
1700	202.50	0.12	22.50	0.01	237.22	0.14	14.83	0.01	7.03	0.00

Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Chronic Terrestrial Herpetofauna Dietary Based Risk Quotients										
NOAEC (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
100	202.50	2.03	22.50	0.23	237.22	2.37	14.83	0.15	7.03	0.07

Size class not used for dietary risk quotients

Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs

Table X. Upper Bound Kenaga, Acute Terrestrial Herpetofauna Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammal		Small Amphibians	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
1.4	940.00	5.24	0.01	0.58	0.00	N/A	N/A	N/A	N/A	N/A	N/A
37	940.00	5.15	0.01	0.57	0.00	149.60	0.16	9.35	0.01	0.18	0.00
238	940.00	3.38	0.00	0.38	0.00	23.26	0.02	1.45	0.00	0.12	0.00

Table X. Upper Bound Kenaga, Subacute Terrestrial Herpetofauna Dietary Based Risk Quotients										
LC50 (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
1700	135.00	0.08	15.00	0.01	158.15	0.09	9.88	0.01	4.69	0.00

Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Chronic Terrestrial Herpetofauna Dietary Based Risk Quotients										
NOAEC (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
100	135.00	1.35	15.00	0.15	158.15	1.58	9.88	0.10	4.69	0.05

Size class not used for dietary risk quotients