

Appendix E. Example Output from T-REX and T-HERPS

1. T-REX: Summary of Risk Quotient Calculations Based on Upper-Bound Kenaga EECs

Table X. Upper Bound Kenaga, Acute Avian Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Granivore	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
20	1038.45	2310.14	2.22	1058.82	1.02	1299.46	1.25	144.38	0.14	32.09	0.03
100	1322.00	1317.34	1.00	603.78	0.46	741.01	0.56	82.33	0.06	18.30	0.01
1000	1867.37	589.79	0.32	270.32	0.14	331.76	0.18	36.86	0.02	8.19	0.00

Table X. Upper Bound Kenaga, Subacute Avian Dietary Based Risk Quotients								
LC50	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
501	2028.40	4.05	929.68	1.86	1140.98	2.28	126.78	0.25

Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Chronic Avian Dietary Based Risk Quotients								
NOAEC (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
60	2028.40	33.81	929.68	15.49	1140.98	19.02	126.78	2.11

Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Acute Mammalian Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Grani vore	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
15	248.35	1933.92	7.79	886.38	3.57	1087.83	4.38	120.87	0.49	26.86	0.11
35	200.95	1336.60	6.65	612.61	3.05	751.84	3.74	83.54	0.42	18.56	0.09
1000	86.92	309.90	3.57	142.04	1.63	174.32	2.01	19.37	0.22	4.30	0.05

Table X. Upper Bound Kenaga, Acute Mammalian Dietary Based Risk Quotients								
LC50 (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
0	2028.40	#DIV/0!	929.68	#DIV/0!	1140.98	#DIV/0!	126.78	#DIV/0!

Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Chronic Mammalian Dietary Based Risk Quotients								
NOAEC (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf		Fruits/Pods/	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
30	2028.40	67.61	929.68	30.99	1140.98	38.03	126.78	4.23

Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Chronic Mammalian Dose-Based Risk Quotients											
Size Class (grams)	Adjusted NOAEL	EECs and RQs									
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Grani vore	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
15	3.30	1933.92	586.62	886.38	268.87	1087.83	329.97	120.87	36.66	26.86	8.15
35	2.67	1336.60	501.08	612.61	229.66	751.84	281.86	83.54	31.32	18.56	6.96
1000	1.15	309.90	268.60	142.04	123.11	174.32	151.09	19.37	16.79	4.30	3.73

2. T-HERPS: Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs^{1,2}

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		Herbivore Mammals		Insectivore Mammal		Amphibians	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
0.0	#NUM!	#DIV/0!	#####	#DIV/0!	#DIV/0!	#DIV/0!	#####	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
20	0.00	42.18	#####	4.69	#DIV/0!	1523.62	#####	95.23	#DIV/0!	30.83	#DIV/0!
0	#NUM!	#DIV/0!	#####	#DIV/0!	#DIV/0!	#DIV/0!	#####	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
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		Herbivore Mammals		Insectivore Mammals		Amphibians		
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	
501	1280.9	2.6	142.3	0.3	2285.4	4.56	142.8	0.3	46.2	0.1	
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		Herbivore Mammals		Insectivore Mammals		Amphibians		
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	
60	1280.9	21.3	142.3	2.4	2285.4	38.1	142.8	2.4	46.2	0.8	

¹ Size class is not used for dietary-based (*i.e.*, not dose-adjusted) EECs and RQs.

² Although dose-based exposure estimates were calculated for a 20 g terrestrial-phase CTS, dose-based RQs were not calculated because the dose-based toxicity endpoint for birds (as a surrogate for terrestrial-phase amphibians) was non-definitive (*i.e.*, “#####” or “#DIV/0!”).