

APPENDIX E: T-REX MODEL OUTPUT (EXAMPLE)

T-REX output based on 1 liquid application of paraquat at 0.3 lb cation/acre each.

Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs

Table E-1 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	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
20	92.29	82.00	0.89	37.58	0.41	46.13	0.50	5.13	0.06
100	117.49	46.76	0.40	21.43	0.18	26.30	0.22	2.92	0.02
1000	165.95	20.94	0.13	9.60	0.06	11.78	0.07	1.31	0.01

Table E-2 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	
703	72.00	0.10	33.00	0.05	40.50	0.06	4.50	0.01	

Size class not used for dietary risk quotients

Table E-3 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	
30	72.00	2.40	33.00	1.10	40.50	1.35	4.50	0.15	

Size class not used for dietary risk quotients

Table E-4 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		Granivore	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
15	199.96	68.65	0.34	31.46	0.16	38.61	0.19	4.29	0.02	0.95	0.00
35	161.79	47.44	0.29	21.75	0.13	26.69	0.16	2.97	0.02	0.66	0.00
1000	69.98	11.00	0.16	5.04	0.07	6.19	0.09	0.69	0.01	0.15	0.00

Table E-5 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	72.00	NA	33.00	NA	40.50	NA	4.50	NA

Size class not used for dietary risk quotients

Table E-6 Upper Bound Kenaga, Chronic Mammalian 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
108	72.00	0.67	33.00	0.31	40.50	0.38	4.50	0.04

Size class not used for dietary risk quotients

Table E-7 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		Granivore	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
15	11.87	68.65	5.78	31.46	2.65	38.61	3.25	4.29	0.36	0.95	0.08
35	9.60	47.44	4.94	21.75	2.26	26.69	2.78	2.97	0.31	0.66	0.07
1000	4.15	11.00	2.65	5.04	1.21	6.19	1.49	0.69	0.17	0.15	0.04