

Appendix K

Example Output from T-REX

T-REX output based on 3 liquid applications (60 day intervals) at 4 lbs/acre each. RQs are not calculated in the assessment for acute dose and dietary-based exposure of trifluralin to birds or mammals due to non-definitive LD₅₀ and LC₅₀ values. However, acute dose and dietary-based EECs and corresponding RQ values based on the non-definitive values are provided in the following T-REX Output tables for risk characterization purposes only.

Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs

Table K-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		Granivore	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
20	1440.86	1528.09	1.06	700.37	0.49	859.55	0.60	95.51	0.07	21.22	0.01
100	1834.29	871.38	0.48	399.38	0.22	490.15	0.27	54.46	0.03	12.10	0.01
1000	2591.00	390.13	0.15	178.81	0.07	219.45	0.08	24.38	0.01	5.42	0.00

Table K-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
5000	1341.72	0.27	614.96	0.12	754.72	0.15	83.86	0.02

Size class not used for dietary risk quotients

Table K-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
500	1341.72	2.68	614.96	1.23	754.72	1.51	83.86	0.17

Size class not used for dietary risk quotients

Table K-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	10989.15	1279.23	0.12	586.31	0.05	719.57	0.07	79.95	0.01	17.77	0.00
35	8891.40	884.12	0.10	405.22	0.05	497.32	0.06	55.26	0.01	12.28	0.00
1000	3845.80	204.99	0.05	93.95	0.02	115.30	0.03	12.81	0.00	2.85	0.00

Table K-5 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
200	1341.72	6.71	614.96	3.07	754.72	3.77	83.86	0.42

Size class not used for dietary risk quotients

Table K-6 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	21.98	1279.23	58.20	586.31	26.68	719.57	32.74	79.95	3.64	17.77	0.81
35	17.78	884.12	49.72	405.22	22.79	497.32	27.97	55.26	3.11	12.28	0.69
1000	7.69	204.99	26.65	93.95	12.21	115.30	14.99	12.81	1.67	2.85	0.37