

Appendix E T-REX Example Output

Upper Bound Kenaga Residues For RQ Calculation

Chemical Name:	Glyphosate
Use	Forestry
Formulation	0
Application Rate	7.95 lbs a.i./acre
Half-life	7 days
Application Interval	0 days
Maximum # Apps./Year	1
Length of Simulation	1 year

Endpoints			
Avian	Bobwhite quail	LD50 (mg/kg-bw)	3196.30
	Bobwhite quail	LC50 (mg/kg-diet)	4971.20
	Bobwhite quail	NOAEL(mg/kg-bw)	0.00
	Bobwhite quail	NOAEC (mg/kg-diet)	830.00
Mammals		LD50 (mg/kg-bw)	4800.00
		LC50 (mg/kg-diet)	0.00
		NOAEL (mg/kg-bw)	500.00
		NOAEC (mg/kg-diet)	10000.00
Dietary-based EECs (ppm)		Kenaga Values	
Short Grass		1908.00	
Tall Grass		874.50	
Broadleaf plants/sm Insects		1073.25	
Fruits/pods/seeds/lg insects		119.25	

Avian Results

Avian Class	Body Weight (g)	Ingestion (Fdry) (g bw/day)	Ingestion (Fwet) (g/day)	% body wgt consumed	FI (kg-diet/day)
Small	20	5	23	114	2.28E-02
Mid	100	13	65	65	6.49E-02
Large	1000	58	291	29	2.91E-01

Avian Body Weight (g)	Adjusted LD50 (mg/kg-bw)
20	2302.71
100	2931.46
1000	4140.80

Dose-based EECs (mg/kg-bw)	Avian Classes and Body Weights		
	small 20 g	mid 100 g	large 1000 g
Short Grass	2173.02	1239.15	554.78
Tall Grass	995.97	567.94	254.28
Broadleaf plants/sm Insects	1222.32	697.02	312.07
Fruits/pods/seeds/lg insects	135.81	77.45	34.67

Dose-based RQs (Dose-based EEC/adjusted LD50)	Avian Acute RQs		
	20 g	100 g	1000 g
Short Grass	0.94	0.42	0.13
Tall Grass	0.43	0.19	0.06
Broadleaf plants/sm insects	0.53	0.24	0.08
Fruits/pods/seeds/lg insects	0.06	0.03	0.01

Dietary-based RQs (Dietary-based EEC/LC50 or NOAEC)	RQs	
	Acute	Chronic
Short Grass	0.38	2.30
Tall Grass	0.18	1.05
Broadleaf plants/sm Insects	0.22	1.29
Fruits/pods/seeds/lg insects	0.02	0.14

Mammalian Results

Mammalian Class	Body Weight	Ingestion (Fdry) (g bw/day)	Ingestion (Fwet) (g/day)	% body wgt consumed	FI (kg-diet/day)
Herbivores/ insectivores	15	3	14	95	1.43E-02
	35	5	23	66	2.31E-02
	1000	31	153	15	1.53E-01
Granivores	15	3	3	21	3.18E-03
	35	5	5	15	5.13E-03
	1000	31	34	3	3.40E-02

Mammalian Class	Body Weight	Adjusted LD50	Adjusted NOAEL
Herbivores/ insectivores	15	10549.59	1098.92
	35	8535.74	889.14
	1000	3691.97	384.58
Granivores	15	10549.59	1098.92
	35	8535.74	889.14
	1000	3691.97	384.58

Dose-Based EECs (mg/kg-bw)	Mammalian Classes and Body weight					
	Herbivores/ insectivores			Granivores		
	15 g	35 g	1000 g	15 g	35 g	1000 g
Short Grass	1819.13	1257.26	291.50			
Tall Grass	833.77	576.25	133.60			
Broadleaf plants/sm Insects	1023.26	707.21	163.97			
Fruits/pods/seeds/lg insects	113.70	78.58	18.22	25.27	17.46	4.05

Dose-based RQs (Dose-based EEC/LD50 or NOAEL)	15 g mammal		35 g mammal		1000 g mammal	
	Acute	Chronic	Acute	Chronic	Acute	Chronic
Short Grass	0.17	1.66	0.15	1.41	0.08	0.76
Tall Grass	0.08	0.76	0.07	0.65	0.04	0.35
Broadleaf plants/sm insects	0.10	0.93	0.08	0.80	0.04	0.43
Fruits/pods/lg insects	0.01	0.10	0.01	0.09	0.00	0.05
Seeds (granivore)	0.00	0.02	0.00	0.02	0.00	0.01

Dietary-based RQs (Dietary-based EEC/LC50 or NOAEC)	Mammal RQs	
	Acute	Chronic
Short Grass	#DIV/0!	0.19
Tall Grass	#DIV/0!	0.09
Broadleaf plants/sm insects	#DIV/0!	0.11
Fruits/pods/seeds/lg insects	#DIV/0!	0.01