

Appendix H T-REX Example Output

Upper Bound Kenaga Residues For RQ Calculation

Chemical Name:	Diuron
Use	Citrus,
Formulation	0
Application Rate	3.2 lbs a.i./acre
Half-life	35 days
Application Interval	90 days
Maximum # Apps./Year	2
Length of Simulation	1 year

Endpoints			
Avian	Mallard duck	LD50 (mg/kg-bw)	2000.00
	Bobwhite quail	LC50 (mg/kg-diet)	1730.00
	0	NOAEL (mg/kg-bw)	0.00
	chicken	NOAEC (mg/kg-diet)	0.80
Mammals		LD50 (mg/kg-bw)	5000.00
		LC50 (mg/kg-diet)	0.00
		NOAEL (mg/kg-bw)	250.00
		NOAEC (mg/kg-diet)	5000.00
Dietary-based EECs (ppm)		Kenaga Values	
Short Grass		897.21	
Tall Grass		411.22	
Broadleaf plants/sm Insects		504.68	
Fruits/pods/seeds/lg insects		56.08	

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
Granivores	20	5	5	25	5.06E-03
	100	13	14	14	1.44E-02
	1000	58	65	6	6.46E-02

Avian Body Weight (g)	Adjusted LD50 (mg/kg-bw)
20	1038.45
100	1322.00
1000	1867.37

Dose-based EECs (mg/kg-bw)	Avian Classes and Body Weights (grams)					
	small 20	mid 100	large 1000	Granivores(grams)		
				20	100	1000
Short Grass	1021.83	582.69	260.88			
Tall Grass	468.34	267.07	119.57			
Broadleaf plants/sm Insects	574.78	327.76	146.74			
Fruits/pods/seeds/lg insects	63.86	36.42	16.30	14.19	8.09	3.62

Dose-based RQs (Dose-based EEC/adjusted LD50)	Avian Acute RQs Size Class (grams)		
	20	100	1000
Short Grass	0.98	0.44	0.14
Tall Grass	0.45	0.20	0.06
Broadleaf plants/sm insects	0.55	0.25	0.08
Fruits/pods/seeds/lg insects	0.06	0.03	0.01
Seeds (granivore)	0.01	0.01	0.00

Dietary-based RQs (Dietary-based EEC/LC50 or NOAEC)	RQs	
	Acute	Chronic
Short Grass	0.52	1121.51
Tall Grass	0.24	514.02
Broadleaf plants/sm Insects	0.29	630.85
Fruits/pods/seeds/lg insects	0.03	70.09

Note: To provide risk management with the maximum possible information, it is recommended that both the dose-based and concentration-based RQs be calculated when data are available

Diuron Citrus, Upper bound Kenaga Residues

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
Grainvores	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	10989.15	549.46
	35	8891.40	444.57
	1000	3845.80	192.29
Grainvores	15	10989.15	549.46
	35	8891.40	444.57
	1000	3845.80	192.29

Dose-Based EECs (mg/kg-bw)	Mammalian Classes and Body weight					
	Herbivores/ insectivores (grams)			Granivores(grams)		
	15	35	1000	15	35	1000
Short Grass	855.42	591.21	137.07			
Tall Grass	392.07	270.97	62.83			
Broadleaf plants/sm Insects	481.17	332.55	77.10			
Fruits/pods/seeds/lg insects	53.46	36.95	8.57	11.88	8.21	1.90

Dose-based RQs (Dose-based EEC/LD50 or NOAEL)	Small mammal 15 grams		Medium mammal 35 grams		Large mammal 1000 grams	
	Acute	Chronic	Acute	Chronic	Acute	Chronic
Short Grass	0.08	1.56	0.07	1.33	0.04	0.71
Tall Grass	0.04	0.71	0.03	0.61	0.02	0.33
Broadleaf plants/sm insects	0.04	0.88	0.04	0.75	0.02	0.40
Fruits/pods/lg insects	0.00	0.10	0.00	0.08	0.00	0.04
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!	0.18
Tall Grass	#DIV/0!	0.08
Broadleaf plants/sm insects	#DIV/0!	0.10
Fruits/pods/seeds/lg insects	#DIV/0!	0.01