

Appendix D. T-HERPS Example Output

Upper Bound Kenaga Residues For RQ Calculation		
Chemical Name:	acrolein	
Use	waterbodies	
Formulation	Magnicide	
Application Rate	0.534 lbs a.i./acre	
Half-life	1 days	
Application Interval	1 days	
Maximum # Apps./Year	1	
Length of Simulation	1 year	

Acute and Chronic RQs are based on the Upper Bound Kenaga Residues.

The maximum single day residue estimation is used for both the acute and reproduction RQs.

RQs reported as "0.00" in the RQ tables below should be noted as <0.01 in your assessment. This is due to rounding and significant figure issues in Excel.

Questions?
Comments?
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Endpoints			
Avian	Mallard duck	LD50 (mg/kg-bw)	9.11
	Bobwhite quail	LC50 (mg/kg-diet)	0.00
	Bobwhite quail	NOAEL(mg/kg-bw)	0.00
	Bobwhite quail	NOAEC (mg/kg-diet)	0.00

Dietary-based EECs (ppm)	Kenaga Values
Short Grass	128.16
Tall Grass	58.74
Broadleaf plants/sm Insects	72.09
Fruits/pods/seeds/lg insects	8.01
Small herbivore mammals	84.45
Small insectivore mammals	5.28
Small terrestrial phase amphibians	2.50

Terrestrial Herpetofauna Results

Weight Class	Body Weight (g)	Ingestion (Fdry) (g bw/day)	Ingestion (Fwet) (g/day)	% body wgt consumed	FI (kg-diet/day)
Small	1.4	0.017	0.1	3.9	5.44E-05
Mid	37	0.212	1.4	3.8	1.41E-03
Large	238	0.893	6.0	2.5	5.96E-03

Body Weight (g)	Adjusted LD50 (mg/kg-bw)
1.4	9.11
37	9.11
238	9.11

Dose-based EECs (mg/kg-bw)	Herpetofaunal Size Classes and Body Weights		
	small (g)	mid (g)	large (g)
	1.4	37	238
Short Grass	4.98	4.89	3.21
Tall Grass	2.28	2.24	1.47
Broadleaf plants/sm Insects	2.80	2.75	1.80
Fruits/pods/seeds/lg insects	0.31	0.31	0.20
Small herbivore mammals	N/A	79.89	12.42
Small insectivore mammals	N/A	4.99	0.78
Small terrestrial phase amphibian	N/A	0.10	0.06

Dose-based RQs (Dose-based EEC/adjusted LD50)	Amphibian/Reptile Acute RQs for Small, Medium, and Large Species (grams)		
	1.4	37	238
Short Grass	0.55	0.54	0.35
Tall Grass	0.25	0.25	0.16
Broadleaf plants/sm insects	0.31	0.30	0.20
Fruits/pods/seeds/lg insects	0.03	0.03	0.02
Small herbivore mammals	N/A	8.77	1.36
Small insectivore mammals	N/A	0.55	0.09
Small terrestrial phase amphibian	N/A	0.01	0.01

Dietary-based RQs (Dietary-based EEC/LC50 or	RQs	
	Acute	Chronic
Short Grass	#DIV/0!	#DIV/0!
Tall Grass	#DIV/0!	#DIV/0!
Broadleaf plants/sm Insects	#DIV/0!	#DIV/0!
Fruits/pods/seeds/lg insects	#DIV/0!	#DIV/0!
Small herbivore mammals	#DIV/0!	#DIV/0!