

Appendix M. T-HERPS Example Output

Upper Bound Kenaga Residues For RQ Calculation

Chemical Name:	Methidathion
Use	Mangos
Formulation	0
Application Rate	0.25 lbs a.i./acre
Half-life	6.6 days
Application Interval	21 days
Maximum # Apps./Year	5
Length of Simulation	1 year

Endpoints

Avian	Mallard duck	LD50 (mg/kg-bw)	6.70
	Bobwhite quail	LC50 (mg/kg-diet)	224.00
	Bobwhite quail	NOAEL(mg/kg-bw)	0.00
	Bobwhite quail	NOAEC (mg/kg-diet)	10.00

Dietary-based EECs (ppm)	Kenaga Values
Short Grass	67.43
Tall Grass	30.91
Broadleaf plants/sm Insects	37.93
Fruits/pods/seeds/lg insects	4.21
Small herbivore mammals	44.43
Small insectivore mammals	2.78
Small terrestrial phase amphibians	1.32

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	6.70
37	6.70
238	6.70

Dose-based EECs (mg/kg-bw)	Herpetofaunal Size Classes and Body Weights		
	small (g)	mid (g)	large (g)
	1.4	37	238
Short Grass	2.62	2.57	1.69
Tall Grass	1.20	1.18	0.77
Broadleaf plants/sm Insects	1.47	1.45	0.95
Fruits/pods/seeds/lg insects	0.16	0.16	0.11
Small herbivore mammals	N/A	42.03	6.53
Small insectivore mammals	N/A	2.63	0.41
Small terrestrial phase amphibian	N/A	0.05	0.03

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	0.39	0.38	0.25
Tall Grass	0.18	0.18	0.12

Dose-based RQs (Dose-based EEC/adjusted LD50)	Amphibian/Reptile Acute RQs for Small, Medium, and Large Species (grams)		
	1.4	37	238
Broadleaf plants/sm insects	0.22	0.22	0.14
Fruits/pods/seeds/lg insects	0.02	0.02	0.02
Small herbivore mammals	N/A	6.27	0.98
Small insectivore mammals	N/A	0.39	0.06
Small terrestrial phase amphibian	N/A	0.01	0.00

Dietary-based RQs (Dietary-based EEC/LC50 or NOAEC)	RQs	
	Acute	Chronic
Short Grass	0.30	6.74
Tall Grass	0.14	3.09
Broadleaf plants/sm Insects	0.17	3.79
Fruits/pods/seeds/lg insects	0.02	0.42
Small herbivore mammals	0.20	4.44
Small insectivore mammals	0.01	0.28
Small terrestrial phase amphibian	0.01	0.13