

Appendix C. T-REX Example Output

Upper Bound Kenaga Residues For RQ Calculation			
Chemical Name:	Acrolein		
Use	Irrigation Water		
Formulation	Magnicide H		
Application Rate	0.534 lbs a.i./acre		
Half-life	1 days		
Application Interval	0 days		
Maximum # Apps./Year	1		
Length of Simulation	1 year		

Endpoints

Avian

Mallard duck	LD50 (mg/kg-bw)	9.11
Bobwhite quail	LC50 (mg/kg-diet)	0.00
Mallard duck	NOAEL(mg/kg-bw)	0.00
Bobwhite quail	NOAEC (mg/kg-diet)	0.00

Mammals

LD50 (mg/kg-bw)	10.30
LC50 (mg/kg-diet)	0.00
NOAEL (mg/kg-bw)	3.00
NOAEC (mg/kg-diet)	60.00

Dietary-based EECs (ppm)

Short Grass	128.16
Tall Grass	58.74
Broadleaf plants/sm Insects	72.09
Fruits/pods/seeds/lg Insects	8.01

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	4.73
100	6.02
1000	8.51

NOTE:Toxicity adjustments not based on standard assumed test animal body weight

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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	145.96	83.23	37.26			
Tall Grass	66.90	38.15	17.08			
Broadleaf plants/sm Insects	82.10	46.82	20.96			
Fruits/pods/seeds/lg insects	9.12	5.20	2.33	2.03	1.16	0.52

Dose-based RQs

(Dose-based EEC/adjusted LD50)

Avian Acute RQs Size Class (grams)			
20	100	1000	
Short Grass	30.86	13.82	4.38
Tall Grass	14.14	6.34	2.01
Broadleaf plants/sm insects	17.36	7.77	2.46
Fruits/pods/seeds/lg insects	1.93	0.86	0.27
Seeds (granivore)	0.43	0.19	0.06

Dietary-based RQs

(Dietary-based EEC/LC50 or NOAEC)

	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!

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

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Acrolein	Irrigation Water	Upper bound Kenaga Residues																																																				
Mammalian Results																																																						
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