

Appendix E. T-REX v1.4.1 output for vinclozolin

Upper Bound Kenaga Residues For RQ Calculation

Chemical Name:	VINCLOZALIN
Use	TURF
Formulation	VINCLOZALIN
Application Rate	0.25 lbs a.i./acre
Half-life	35 days
Application Interval	10 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 not <0.01 in your assessment. This is due to rounding and signifi

Endpoints			
Avian	Bobwhite quail	LD50 (mg/kg-bw)	2510.00
	Bobwhite quail	LC50 (mg/kg-diet)	5620.00
	Mallard duck	NOAEL(mg/kg-bw)	0.00
	Bobwhite quail	NOAEC (mg/kg-diet)	50.00
Mammals		LD50 (mg/kg-bw)	10000.00
		LC50 (mg/kg-diet)	0.00
		NOAEL (mg/kg-bw)	30.00
		NOAEC (mg/kg-diet)	300.00
Dietary-based EECs (ppm)		Kenaga Values	
Short Grass		60.00	
Tall Grass		27.50	
Broadleaf plants/sm Insects		33.75	
Fruits/pods/seeds/lg insects		3.75	

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	1808.28
100	2302.03
1000	3251.70

Dose-based EECs (mg/kg-bw)	Avian Classes and Body Weights		
	small 20 g	mid 100 g	large 1000 g
Short Grass	68.33	38.97	17.45
Tall Grass	31.32	17.86	8.00
Broadleaf plants/sm Insects	38.44	21.92	9.81
Fruits/pods/seeds/lg insects	4.27	2.44	1.09

Dose-based RQs (Dose-based EEC/adjusted LD50)	Avian Acute RQs		
	20 g	100 g	1000 g
Short Grass	0.04	0.02	0.01
Tall Grass	0.02	0.01	0.00
Broadleaf plants/sm insects	0.02	0.01	0.00
Fruits/pods/seeds/lg insects	0.00	0.00	0.00

Dietary-based RQs (Dietary-based EEC/LC50 or NOAEC)	RQs	
	Acute	Chronic
Short Grass	0.01	1.20
Tall Grass	0.00	0.55
Broadleaf plants/sm Insects	0.01	0.68
Fruits/pods/seeds/lg insects	0.00	0.08

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

VINCLOZALIN

TURF

Upper bound Kenaga Residues

Mammalian Results

Mammalian Class	Body Weight	Ingestion (Fdry) (g bwt/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	21978.31	65.93
	35	17782.79	53.35
	1000	7691.61	23.07
Grainvores	15	21978.31	65.93
	35	17782.79	53.35
	1000	7691.61	23.07

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	57.21	39.54	9.17			
Tall Grass	26.22	18.12	4.20			
Broadleaf plants/sm Insects	32.18	22.24	5.16			
Fruits/pods/seeds/lg insects	3.58	2.47	0.57	0.79	0.55	0.13

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	0.00	0.87	0.00	0.74	0.00	0.40
Tall Grass	0.00	0.40	0.00	0.34	0.00	0.18
Broadleaf plants/sm insects	0.00	0.49	0.00	0.42	0.00	0.22
Fruits/pods/lg insects	0.00	0.05	0.00	0.05	0.00	0.02
Seeds (granivore)	0.00	0.01	0.00	0.01	0.00	0.01

Dietary-based RQs (Dietary-based EEC/LC50 or NOAEC)	Mammal RQs	
	Acute	Chronic
Short Grass	#DIV/0!	0.20
Tall Grass	#DIV/0!	0.09
Broadleaf plants/sm insects	#DIV/0!	0.11
Fruits/pods/seeds/lg insects	#DIV/0!	0.01

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