

Appendix D. T-REX Example Output

Upper Bound Kenaga Residues For RQ Calculation			
Chemical Name:	Chlorpyrifos		
Use	Cole Crop		
Formulation	Chemisco Fungicide Concentrate (EC)		
Application Rate	3	lbs a.i./acre	
Half-life	18	days	
Application Interval	10	days	
Maximum # Apps./Year	3		
Length of Simulation	1	year	
Endpoint			
Avian	Common Grackle	LD50 (mg/kg-bw)	5.62
	Mallard duck)	LC50 (mg/kg-diet)	136.00
	Mallard duck	NOAEL (mg/kg-bw)	0.00
	Bobwhite quail	NOAEC (mg/kg-diet)	25.00
Mammals	LD50 (mg/kg-bw)		118.00
	LC50 (mg/kg-diet)		1330.00
	NOAEL (mg/kg-bw)		1.00
	NOAEC (mg/kg-diet)		20.00
Dietary-based EECs (ppm)	Kenaga		
	Values		
Short Grass	1543.20		
Tall Grass	707.30		
Broadleaf plants/sm Insects	868.05		
Fruits/pods/seeds/lg insects	96.45		

Avian Results						
	Avian	Body	Ingestion (Fdry)	Ingestion (Fwet)	% body wgt	FI
	Class	Weight (g)	(g bw/day)	(g/day)	consumed	(kg-diet/day)
	Small	20.00	4.56	22.78	113.89	0.02
	Mid	100.00	12.99	64.94	64.94	0.06
	Large	1000.00	58.15	290.77	29.08	0.29
		20.00	4.56	5.06	25.31	0.01
	Granivores	100.00	12.99	14.43	14.43	0.01
		1000.00	58.15	64.61	6.46	0.06
	Avian Body	Adjusted LD50				
	Weight (g)	(mg/kg-bw)				
	20.00	4.37				

	100.00	5.62				
	1000.00	8.07				
Dose-based EECs	Avian Classes and Body Weights (grams)					
(mg/kg-bw)	small	mid	large	Granivores(grams)		
	20.00	100.00	1000.00	20.00	100.00	1000.00
Short Grass	1757.55	1002.23	448.71			
Tall Grass	805.54	459.36	205.66			
Broadleaf plants/sm Insects	988.62	563.75	252.40			
Fruits/pods/seeds/lg insects	109.85	62.64	28.04	24.41	13.92	6.23

Dose-based RQs (Dose-based EEC/adjusted LD50)	Avian Acute RQs		
Short Grass	402.63	178.33	55.62
Tall Grass	184.54	81.74	25.49
Broadleaf plants/sm insects	226.48	100.31	31.29
Fruits/pods/seeds/lg insects	25.16	11.15	3.48
Seeds (granivore)	5.59	2.48	0.77
Dietary-based RQs (Dietary-based EEC/LC50 or NOAEC)	RQs		
	Acute	Chronic	
Short Grass	11.35	61.73	
Tall Grass	5.20	28.29	
Broadleaf plants/sm Insects	6.38	34.72	
Fruits/pods/seeds/lg insects	0.71	3.86	
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			

Mammalian Results						
	Mammalian	Body	Ingestion (Fdry)	Ingestion Fwet)	% body wgt	FI
	Class	Weight	(g bwt/day)	(g/day)	consumed	(kg-diet/day)
		15	2.86	14.3	95.34	0.01
	Herbivores/	35	4.61	23.06	65.89	0.02
	insectivores	1000	30.56	152.78	15.28	0.15
		15	2.86	3.18	21.19	0
	Grainvores	35	4.61	5.13	14.64	0.01
		1000	30.56	33.95	3.4	0.03
	Mammalian	Body	Adjusted	Adjusted		
	Class	Weight	LD50	NOAEL		
		15	259.34	2.2		
	Herbivores/	35	209.84	1.78		
	insectivores	1000	90.76	0.77		
		15	259.34	2.2		
	Grainvores	35	209.84	1.78		

		1000	90.76	0.77		
Dose-Based EECs	Mammalian Classes and Body weight					
(mg/kg-bw)	Herbivores/ insectivores (grams)			Granivores(grams)		
	15	35	1000	15	35	1000
Short Grass	1471.32	1016.88	235.77			
Tall Grass	674.36	466.07	108.06			
Broadleaf plants/sm Insects	827.62	572	132.62			
Fruits/pods/seeds/lg insects	91.96	63.56	14.74	20.44	14.12	3.27
Dose-based RQs (Dose-based EEC/LD50 or NOAEL)	Small mammal		Medium mammal		Large mammal	
	15	grams	35	grams	1000	grams
	Acute	Chronic	Acute	Chronic	Acute	Chronic
Short Grass	5.67	669.44	4.85	571.83	2.6	306.5
Tall Grass	2.6	306.83	2.22	262.09	1.19	140.5
Broadleaf plants/sm insects	3.19	376.56	2.73	321.66	1.46	172.4
Fruits/pods/lg insects	0.35	41.84	0.3	35.74	0.16	19.16
Seeds (granivore)	0.08	9.3	0.07	7.94	0.04	4.26
Dietary-based RQs (Dietary-based EEC/LC50 or NOAEC)	Mammal RQs					
	Acute	Chronic				
Short Grass	1.16	77.16				
Tall Grass	0.53	35.36				
Broadleaf plants/sm insects	0.65	43.4				
Fruits/pods/seeds/lg insects	0.07	4.82				
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						