APPENDIX D. Sample T-REX Output

EECs (µg a.i./g of bee) calculated by T-REX for small insects are divided by the calculated toxicity value for terrestrial invertebrates, which is 0.1875 µg a.i./g of bee, to derive RQs. The toxicity value for terrestrial invertebrates is calculated by multiplying the lowest available acute contact LD_{50} of 0.024 µg a.i./bee by 1 bee/0.128g, which is based on the weight of an adult honey bee.

Input

Upper Bound Kenaga Residues For RQ Calculation

Chemical Name:	permethrin	
Use	alfalfa	
Formulation	technical	
Application Rate	0.2	lbs a.i./acre
Half-life	15.4	days
Application Interval	30	days
Maximum # Apps./Year	5	
Length of Simulation	1	year

Output

Dietary-based EECs (ppm)	Kenaga Values
Short Grass	64.72
Tall Grass	29.66
Broadleaf plants/sm Insects	36.40
Fruits/pods/seeds/lg insects	4.04