

APPENDIX G: TERRPLANT MODEL OUTPUT (EXAMPLE)

TerrPlant v. 1.2.2				
Green values signify user inputs (Tables 1, 2 and 4).				
Input and output guidance is in popups indicated by red arrows.				
Table 1. Chemical Identity.				
Chemical Name	pesticide x			
PC code	116001, 116002, 116004			
Use	Agricultural uncultivated areas			
Application Method	aerial			
Application Form	liquid			
Solubility in Water (ppm)	440			
Table 2. Input parameters used to derive EECs.				
Input Parameter	Symbol	Value	Units	
Application Rate	A	20	lb/A	
Incorporation	I	1	none	
Runoff Fraction	R	0.05	none	
Drift Fraction	D	0.01	none	
Table 3. EECs for pesticide x. Units in lb/A.				
Description		Equation	EEC	
Runoff to dry areas		(A/I)*R	1	
Runoff to semi-aquatic areas		(A/I)*R*10	10	
Spray drift		A*D	0.2	
Total for dry areas		((A/I)*R)+(A*D)	1.2	
Total for semi-aquatic areas		((A/I)*R*10)+(A*D)	10.2	
Table 4. Plant survival and growth data used for RQ derivation. Units are in lb/A.				
	Seedling Emergence		Vegetative Vigor	
Plant type	EC25	NOAEC	EC25	NOAEC
Monocot	0.053	0.0021	0.063	0.063
Dicot	0.045	0.0026	0.005	0.0028
Table 5. RQ values for plants in dry and semi-aquatic areas exposed to pesticide x through runoff and/or spray drift.*				
Plant Type	Listed Status	Dry	Semi-Aquatic	Spray Drift
Monocot	non-listed	22.64	192.45	3.77
Monocot	listed	571.43	4857.14	95.24
Dicot	non-listed	26.67	226.67	40.00
Dicot	listed	461.54	3923.08	71.43
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				