

Appendix E
Pendimethalin

Example Output from TerrPlant Version 1.2.2

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	Pendimethalin
PC code	108501
Use	Citrus, Nut Crops, Grapes
Application Method	Aerial
Application Form	Spray
Solubility in Water (ppm)	3

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	6	y
Incorporation	I	1	none
Runoff Fraction	R	0.01	none
Drift Fraction	D	0.05	none

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.06
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.6
Spray drift	$A*D$	0.3
Total for dry areas	$((A/I)*R)+(A*D)$	0.36
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.9

Table 4. Plant survival and growth data used for RQ derivation. Units are in y.				
Plant type	Seedling Emergence		Vegetative Vigor	
	EC25	NOAEC	EC25	NOAEC
Monocot	0.02	0.01	0.034	0.0008
Dicot	0.09	0.063	0.1	0.003

Table 5. RQ values for plants in dry and semi-aquatic areas exposed to Pendimethalin through runoff and/or spray drift.*				
Plant Type	Listed Status	Dry	Semi-Aquatic	Spray Drift
Monocot	non-listed	18.00	45.00	15.00
Monocot	listed	36.00	90.00	30.00

Dicot	non-listed	4.00	10.00	3.33
Dicot	listed	5.71	14.29	4.76
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				