

Appendix G: TERRPLANT Example Output

Output based on broadcast ground application of oryzalin to non-planted industrial areas @ 6.12 lb ai/A

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	Oryzalin			
PC code	104201			
Use	Herbicide			
Application Method	Ground Broadcast (Industrial areas)			
Application Form	Liquid			
Solubility in Water (ppm)	2.5			
Table 2. Input parameters used to derive EECs.				
Input Parameter	Symbol	Value	Units	
Application Rate	A	6.12	y	
Incorporation	I	1	none	
Runoff Fraction	R	0.01	none	
Drift Fraction	D	0.01	none	
Table 3. EECs for Oryzalin. Units in y.				
Description	Equation		EEC	
Runoff to dry areas	(A/I)*R		0.0612	
Runoff to semi-aquatic areas	(A/I)*R*10		0.612	
Spray drift	A*D		0.0612	
Total for dry areas	((A/I)*R)+(A*D)		0.1224	
Total for semi-aquatic areas	((A/I)*R*10)+(A*D)		0.6732	
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	0.0285	0.008	0.174	0.0253
Dicot	0.0506	0.0506	0.0828	0.074
Table 5. RQ values for plants in dry and semi-aquatic areas exposed to Oryzalin through runoff and/or spray drift.*				
Plant Type	Listed Status	Dry	Semi-Aquatic	Spray Drift
Monocot	non-listed	4.29	23.62	2.15
Monocot	listed	15.30	84.15	7.65
Dicot	non-listed	2.42	13.30	1.21
Dicot	listed	2.42	13.30	1.21
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				