

Appendix F TERRPLANT Output

TerrPlant v. 1.2.2

Green values signify user inputs (Tables 1, 2 and 4).

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	6 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

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	0.01	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	$A*D$	0.06
Total for dry areas	$((A/I)*R)+(A*D)$	0.12
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.66

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	12.00	66.00	6.00
Monocot	listed	12.00	66.00	6.00
Dicot	non-listed	1.33	7.33	0.67
Dicot	listed	0.92	5.08	0.46

*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	4 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	4	y
Incorporation	I	1	none
Runoff Fraction	R	0.01	none
Drift Fraction	D	0.01	none

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.04
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.4
Spray drift	$A*D$	0.04
Total for dry areas	$((A/I)*R)+(A*D)$	0.08
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.44

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	8.00	44.00	4.00
Monocot	listed	8.00	44.00	4.00
Dicot	non-listed	0.89	4.89	0.44
Dicot	listed	0.62	3.38	0.31

*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	4 lb ai/A
Application Method	aerial
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	4	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	$(A/I)*R$	0.04
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.4
Spray drift	$A*D$	0.2
Total for dry areas	$((A/I)*R)+(A*D)$	0.24
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.6

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	24.00	60.00	20.00
Monocot	listed	24.00	60.00	20.00
Dicot	non-listed	2.67	6.67	2.22
Dicot	listed	1.85	4.62	1.54
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	3.9 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	3.9	y
Incorporation	I	1	none
Runoff Fraction	R	0.01	none
Drift Fraction	D	0.01	none

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.039
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.39
Spray drift	$A*D$	0.039
Total for dry areas	$((A/I)*R)+(A*D)$	0.078
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.429

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	7.80	42.90	3.90
Monocot	listed	7.80	42.90	3.90
Dicot	non-listed	0.87	4.77	0.43
Dicot	listed	0.60	3.30	0.30
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	3.9 lb ai/A
Application Method	aerial
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	3.9	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	$(A/I)*R$	0.039
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.39
Spray drift	$A*D$	0.195
Total for dry areas	$((A/I)*R)+(A*D)$	0.234
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.585

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	23.40	58.50	19.50
Monocot	listed	23.40	58.50	19.50
Dicot	non-listed	2.60	6.50	2.17
Dicot	listed	1.80	4.50	1.50
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	3.5 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	3.5	y
Incorporation	I	1	none
Runoff Fraction	R	0.01	none
Drift Fraction	D	0.01	none

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.035
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.35
Spray drift	$A*D$	0.035
Total for dry areas	$((A/I)*R)+(A*D)$	0.07
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.385

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	7.00	38.50	3.50
Monocot	listed	7.00	38.50	3.50
Dicot	non-listed	0.78	4.28	0.39
Dicot	listed	0.54	2.96	0.27
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	3.5 lb ai/A
Application Method	aerial
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	3.5	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	$(A/I)*R$	0.035
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.35
Spray drift	$A*D$	0.175
Total for dry areas	$((A/I)*R)+(A*D)$	0.21
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.525

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	21.00	52.50	17.50
Monocot	listed	21.00	52.50	17.50
Dicot	non-listed	2.33	5.83	1.94
Dicot	listed	1.62	4.04	1.35
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	3.0 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	3	y
Incorporation	I	1	none
Runoff Fraction	R	0.01	none
Drift Fraction	D	0.01	none

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.03
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.3
Spray drift	$A*D$	0.03
Total for dry areas	$((A/I)*R)+(A*D)$	0.06
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.33

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	6.00	33.00	3.00
Monocot	listed	6.00	33.00	3.00
Dicot	non-listed	0.67	3.67	0.33
Dicot	listed	0.46	2.54	0.23

*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	3.0 lb ai/A
Application Method	aerial
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	3	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	$(A/I)*R$	0.03
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.3
Spray drift	$A*D$	0.15
Total for dry areas	$((A/I)*R)+(A*D)$	0.18
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.45

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	18.00	45.00	15.00
Dicot	non-listed	2.00	5.00	1.67
Dicot	listed	1.38	3.46	1.15

*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	2.0 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

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

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.02
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.2
Spray drift	$A*D$	0.02
Total for dry areas	$((A/I)*R)+(A*D)$	0.04
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.22

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	4.00	22.00	2.00
Monocot	listed	4.00	22.00	2.00
Dicot	non-listed	0.44	2.44	0.22
Dicot	listed	0.31	1.69	0.15
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	2.0 lb ai/A
Application Method	aerial
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	2	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	$(A/I)*R$	0.02
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.2
Spray drift	$A*D$	0.1
Total for dry areas	$((A/I)*R)+(A*D)$	0.12
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.3

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	12.00	30.00	10.00
Monocot	listed	12.00	30.00	10.00
Dicot	non-listed	1.33	3.33	1.11
Dicot	listed	0.92	2.31	0.77
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.485 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	1.485	y
Incorporation	I	1	none
Runoff Fraction	R	0.01	none
Drift Fraction	D	0.01	none

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.01485
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.1485
Spray drift	$A*D$	0.01485
Total for dry areas	$((A/I)*R)+(A*D)$	0.0297
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.16335

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	2.97	16.34	1.49
Monocot	listed	2.97	16.34	1.49
Dicot	non-listed	0.33	1.82	0.17
Dicot	listed	0.23	1.26	0.11
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.485 lb ai/A
Application Method	aerial
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	1.485	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	$(A/I)*R$	0.01485
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.1485
Spray drift	$A*D$	0.07425
Total for dry areas	$((A/I)*R)+(A*D)$	0.0891
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.22275

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	8.91	22.28	7.43
Monocot	listed	8.91	22.28	7.43
Dicot	non-listed	0.99	2.48	0.83
Dicot	listed	0.69	1.71	0.57
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.425 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	1.425	y
Incorporation	I	1	none
Runoff Fraction	R	0.01	none
Drift Fraction	D	0.01	none

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.01425
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.1425
Spray drift	$A*D$	0.01425
Total for dry areas	$((A/I)*R)+(A*D)$	0.0285
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.15675

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	2.85	15.68	1.43
Monocot	listed	2.85	15.68	1.43
Dicot	non-listed	0.32	1.74	0.16
Dicot	listed	0.22	1.21	0.11
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.425 lb ai/A
Application Method	aerial
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	1.425	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	$(A/I)*R$	0.01425
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.1425
Spray drift	$A*D$	0.07125
Total for dry areas	$((A/I)*R)+(A*D)$	0.0855
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.21375

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	8.55	21.38	7.13
Monocot	listed	8.55	21.38	7.13
Dicot	non-listed	0.95	2.38	0.79
Dicot	listed	0.66	1.64	0.55
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.73 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	1.73	y
Incorporation	I	1	none
Runoff Fraction	R	0.01	none
Drift Fraction	D	0.01	none

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.0173
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.173
Spray drift	$A*D$	0.0173
Total for dry areas	$((A/I)*R)+(A*D)$	0.0346
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.1903

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	3.46	19.03	1.73
Monocot	listed	3.46	19.03	1.73
Dicot	non-listed	0.38	2.11	0.19
Dicot	listed	0.27	1.46	0.13
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.73 lb ai/A
Application Method	aerial
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	1.73	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	$(A/I)*R$	0.0173
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.173
Spray drift	$A*D$	0.0865
Total for dry areas	$((A/I)*R)+(A*D)$	0.1038
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.2595

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	10.38	25.95	8.65
Monocot	listed	10.38	25.95	8.65
Dicot	non-listed	1.15	2.88	0.96
Dicot	listed	0.80	2.00	0.67
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.24 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	1.24	y
Incorporation	I	1	none
Runoff Fraction	R	0.01	none
Drift Fraction	D	0.01	none

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.0124
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.124
Spray drift	$A*D$	0.0124
Total for dry areas	$((A/I)*R)+(A*D)$	0.0248
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.1364

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	2.48	13.64	1.24
Monocot	listed	2.48	13.64	1.24
Dicot	non-listed	0.28	1.52	0.14
Dicot	listed	0.19	1.05	<0.1
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.24 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	1.24	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	$(A/I)*R$	0.0124
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.124
Spray drift	$A*D$	0.062
Total for dry areas	$((A/I)*R)+(A*D)$	0.0744
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.186

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	7.44	18.60	6.20
Monocot	listed	7.44	18.60	6.20
Dicot	non-listed	0.83	2.07	0.69
Dicot	listed	0.57	1.43	0.48
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.9 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	1.9	y
Incorporation	I	1	none
Runoff Fraction	R	0.01	none
Drift Fraction	D	0.01	none

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.019
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.19
Spray drift	$A*D$	0.019
Total for dry areas	$((A/I)*R)+(A*D)$	0.038
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.209

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	3.80	20.90	1.90
Monocot	listed	3.80	20.90	1.90
Dicot	non-listed	0.42	2.32	0.21
Dicot	listed	0.29	1.61	0.15
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.9 lb ai/A
Application Method	aerial
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	1.9	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	$(A/I)*R$	0.019
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.19
Spray drift	$A*D$	0.095
Total for dry areas	$((A/I)*R)+(A*D)$	0.114
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.285

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	11.40	28.50	9.50
Monocot	listed	11.40	28.50	9.50
Dicot	non-listed	1.27	3.17	1.06
Dicot	listed	0.88	2.19	0.73
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.0 lb ai/A
Application Method	ground
Application Form	Spray
Solubility in Water (ppm)	0.28

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

Table 3. EECs for Pendimethalin. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.01
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.1
Spray drift	$A*D$	0.01
Total for dry areas	$((A/I)*R)+(A*D)$	0.02
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.11

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	2.00	11.00	1.00
Monocot	listed	2.00	11.00	1.00
Dicot	non-listed	0.22	1.22	0.11
Dicot	listed	0.15	0.85	<0.1
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

Table 1. Chemical Identity.	
Chemical Name	Pendimethalin
PC code	108501
Use	1.0 lb ai/A
Application Method	aerial
Application Form	Spray
Solubility in Water (ppm)	0.28

Table 2. Input parameters used to derive EECs.			
Input Parameter	Symbol	Value	Units
Application Rate	A	1	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	$(A/I)*R$	0.01
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.1
Spray drift	$A*D$	0.05
Total for dry areas	$((A/I)*R)+(A*D)$	0.06
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.15

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	0.01	0.01	0.034	0.0008
Dicot	0.09	0.13	0.1	0.0029

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	6.00	15.00	5.00
Monocot	listed	6.00	15.00	5.00
Dicot	non-listed	0.67	1.67	0.56
Dicot	listed	0.46	1.15	0.38
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				