Table 1. Influence of root-applied isoxaben to hydroponically-grown ajuga, wintercreeper and dwarf burning bush<sup>1</sup>.

			Percent weigh	ıt reduction	
		t shoot ury²	Root rating³	Shoot <sup>4</sup>	Root⁵
Species	3 WAT	6 WAT	6 WAT	6 WAT	6 WAT
Ajuga	15a	30a	4a	20a	40a
Wintercreeper	2b	5b	1b	1b	15b
Dwarf burning bush	6b	8b	1b	3b	18b

 $<sup>^{1}</sup>$ Means followed by the same letter within a column are not significantly different according to Fishers protected LSD at P = 0.05 level.

<sup>&</sup>lt;sup>2</sup>Shoot injury was rated on a scale of 0 to 100 (0 = no injury; 100 = complete kill) <sup>3</sup>Root rating was on a scale of 1 to 10 (1 = healthy roots; 10 = dead roots)

<sup>&</sup>lt;sup>4</sup>Shoot weights of untreated plants were: ajuga = 6.59 g, wintercreeper = 2.42 g and dwarf burning bush = 2.98 g.

<sup>&</sup>lt;sup>5</sup>Root weights of untreated plants were: ajuga = 4.93 g, wintercreeper = 0.95 g and dwarf burning bush = 2.28 g.

Table 2. Influence of shoot-applied isoxaben on shoot and root injury to hydroponically grown ajuga, wintercreeper and dwarf burning bush<sup>1</sup>.

	Isoxaben rate (kg/ha)											
	0 0.84 1.69 3.39 0 0.84 1.69 3.39								0	0.84	1.69	3.39
Species	Shoot injury <sup>2</sup> 3 WAT Sh					Shoot injury <sup>2</sup> 6 WAT			Root rating <sup>3</sup> 6 WAT			
							%					
Ajuga	2a	12a	11a	17a	0a	29a	24a	39a	1a	7a	7a	8a
Winter	0a	0b	0b	0b	0a	0b	0b	0b	1a	1b	1b	1b
creeper												
Dwarf	3a	13a	17c	14a	1a	25a	27a	30a	1a	2b	2b	2b
burning												
bush												

<sup>&</sup>lt;sup>1</sup>Means followed by the same letter within a column are not significantly different according to Fisher's Protected LSD at P = 0.05 level.

 $<sup>^{2}</sup>$ Shoot injury was rated on a scale of 0 to 100 (0 = no injury; 100 = complete kill).

<sup>&</sup>lt;sup>3</sup>Root rating was on a scale of 1 to 10 (1 = healthy roots; 10 = dead roots).

Table 3. Influence of shoot-applied isoxaben on shoot and root weight in hydroponically grown ajuga, wintercreeper and dwarf burning bush<sup>1</sup>.

Isoxaben rates (kg/ha) 0.84 1.69 3.39 1.69 0.84 3.39 Species Shoot fresh weight reduction<sup>2</sup> Root fresh weight reduction<sup>3</sup> 17a 32a Ajuqa 17a 17a 48a 12a Wintercreeper 0b 0b 10b 0b 3b 3b Dwarf burning bush 0b 6b a8 0b 8b 20a

 $<sup>^{1}</sup>$ Means followed by the same letter within a column are not significantly different according to Fishers Protected LSD at P = 0.05 level.

<sup>&</sup>lt;sup>2</sup>Shoot weight of untreated ajuga = 7.76 g; wintercreeper = 4.46 g and dwarf burning bush = 4.54 g.

 $<sup>^{3}</sup>$ Root weight of untreated ajuga = 2.07 g, wintercreeper = 1.58, dwarf burning bush = 1.55 g.

Table 4. Analysis of main and interaction effects of ornamental species, isoxaben rates and application type on shoot injury, root injury, and shoot and root fresh weight two months after treatment (MAT) in the sand study.

	Significance <sup>1</sup>							
	Percer	nt injury	Percent w	eight reduction				
Effects	Shoot	Root	Shoot	Root.				
Species	*	NS	*	*				
Isoxaben rate	*	NS	NS	*				
Species x rate	*	NS	*	*				
Application type	*	NS	NS	*				
Species x Application type	*	NS	NS	NS				
Rate x application type	*	NS	NS	NS				
Species x rate	*	NS	NS	NS				
Species x rate x application type	*	NS	NS	NS				

 $<sup>^{1}</sup>$  \* = Significant at P = 0.05 level, NS = not significant at P = 0.05 level.

Table 5. Shoot injury observed one and two months after treatment (MAT) following isoxaben application to roots, foliage and foliage plus roots of ornamentals grown in sand<sup>1</sup>.

		Shoot injury <sup>2</sup> (1 MAT)									
		Isoxaben (kg/ha)									
	0.84	1.69	3.39	0.84	1.69	3.39	0.84	1.69	3.39		
Species	Root a	applicat	ion	Shoo	t applica	ation	Root+S	Shoot ap	plication		
					% _						
Ajuga	12a	14a	18a	28a	31a <sup>°</sup>	32a	32a	35a	36a		
Winter-	0b	cb	0b	0b	0c	0c	0c	0c	0c		
creeper											
Dwarf	18a	17a	19a	25a	22b	23b	21b	23b	20b		
burning											
bush									_		
				Shoc	ot injury	(2 MAT)					
					% -						
Ajuga	$20a^1$	33a	35a	42a	41a	42a	38a	41a	49a		
Winter-	0b	0c	0c	0c	0c	0c	0b	0c	0c		
creeper											
Dwarf	21a	18b	21b	22b	23b	23b	39a	30b	31b		
burning											
bush											

<sup>&</sup>lt;sup>1</sup>Means followed by the same letter within a column are not significantly different according to Fisher's Protected LSD at P = 0.05 level.

<sup>&</sup>lt;sup>2</sup>Shoot injury was rated on a scale of 0 to 100, with 0 = no injury and 100 = complete kill.

Table 6. Effect of isoxaben application type, averaged over application rate, on root and shoot fresh weight reduction in three ornamentals grown in sand<sup>1</sup>.

	Method of application								
	Root	Shoot	Root+ Shoot	Mean	Root	Shoot	Root+ Shoot	Mean	
Species	Ro	ot weigh	nt reduct:	ion²	S	Shoot weight reduction <sup>3</sup>			
<u>-</u>					·				
Ajuga	44	62	58	55a	33	44	34	37a	
Wintercreeper	19	7	14	13b	17	6	15	13b	
Dwarf burning bush	8	21	32	20b	7	13	7	9b	
Means	$24b^1$	30a	35a		19a	21a	19a		

<sup>&</sup>lt;sup>1</sup>Means followed by the same letter within a row or column for root or shoot weight reductions are not significantly different according to Fishers Protected LSD at P = 0.05 level.

 $<sup>^{2}</sup>$ Root weights of untreated plants were: ajuga = 2.83 g, wintercreeper = 2.09 g and dwarf burning bush = 2.97 g.

<sup>&</sup>lt;sup>3</sup>Shoot weights of untreated plants were: ajuga = 2.77 g, wintercreeper = 4.94 g and dwarf burning bush = 4.75 g.

Table 7. Effect of isoxaben application rate, averaged over application type, on root and shoot fresh weight reduction in three ornamentals grown in sand<sup>1</sup>.

_	Isoxaben (kg/ha)								
_	0.84	1.69	3.39	0.84	1.69	3.39			
Species	Root	weight red	uction	Sho	Shoot weight reduction				
	40-		<b>C F</b> -	. %	2.5 -	4.5 -			
Ajuga	48a	53a	65a	32a	35a	45a			
Wintercreeper	5b	6b	28b	7b	10b	22b			
Dwarf burning bush	10b	19b	35b	5b	8b	15b			

 $<sup>^{1}</sup>$ Means followed by the same letter within a column are not significantly different according to Fishers Protected LSD at P = 0.05 level.

<sup>&</sup>lt;sup>2</sup>Shoot weights of untreated plants were: ajuga = 2.77 g, wintercreeper = 4.94 g and dwarf burning bush = 4.75 g.

 $<sup>^{3}</sup>$ Root weights of untreated plants were: ajuga = 2.83 g, wintercreeper = 2.09 g and dwarf burning bush = 2.97 g.