

Table 1. Broadleaf weed counts and percent control following spring (May 1994) application of preemergence herbicides at Blacksburg (Study 1).

		Mean weed count <sup>a</sup> (% control)										
Herbicide	Rate (kg/ha)	Appl. Timing	1 MAT		4 MAT				12 MAT			
			Dandelion	White sweet clover	Buckhorn plantain	Dandelion	Corn Speedwell	Yellow wood-sorrel	Buckhorn plantain	Dandelion	Spotted spurge	White clover
Control			1.8 (0)	6.3 (0)	7.3 (0)	27.9 (0)	4.0 (0)	1.3 (0)	39.3 (0)	19.5 (0)	22.0 (0)	5.0 (0)
Isoxaben	0.56	Spring	0 (100)	0 (100)	0.8 (86)	3.4 (88)	1.2 (70)	0.3 (76)	36.0 (7)	7.3 (62)	15.8 (28)	5.8 (0)
Isoxaben	0.84	Spring	0 (100)	0 (100)	0 (100)	4.2 (85)	2.3 (43)	1.0 (23)	34.5 (12)	4.8 (76)	12.8 (42)	4.0 (20)
Isoxaben	1.12	Spring	0 (100)	0 (100)	0 (100)	2.1 (92)	0 (100)	1.0 (23)	40.0 (0)	9.8 (50)	14.8 (33)	11.0 (0)
Oxadiazon	3.36	Spring	0 (100)	0 (100)	9 (0)	10.4 (62)	2.8 (30)	0.5 (61)	33.5 (15)	27.3 (0)	17.5 (20)	7.3 (0)
LSD (0.05)			1.3	1.2	6.0	13.1	2.6	NS	NS	NS	NS	NS

<sup>a</sup> White sweet clover, and buckhorn plantain were seeded in the study area in June 1994, and October 1994. A natural stand of other weed species were evaluated for weed control

Table 2. Weed counts and percent control of broadleaf weeds taken 9 months after fall (October 1994) and 14 months after spring (May 1994) application of preemergence herbicides at Blacksburg (Study 1).

Herbicide	Rate (kg/ha)	Application Timing	Mean weed count <sup>a</sup> (% control)			
			Buckhorn plantain	Dandelion	Spotted spurge	White sweet clover
Control			39.3 (0)	19.5 (0)	22.0 (0)	5.0 (0)
Isoxaben	0.56	Fall	2.3 (94)	10.3 (47)	9.0 (59)	2.3 (54)
Isoxaben	0.84	Fall	1.0 (98)	6.0 (69)	10.3 (56)	1.8 (64)
Isoxaben	1.12	Fall	1.3 (97)	7.0 (64)	14.0 (36)	0.0 (100)
Oxadiazon	3.36	Fall	37.0 (6)	8.3 (57)	21.8 (1)	3.8 (24)
Isoxaben	0.56	Spring + Fall	9.0 (77)	7.5 (62)	17.0 (22)	3.8 (24)
Isoxaben	0.84	Spring + Fall	3.8 (90)	9.0 (54)	13.0 (41)	1.8 (64)
Isoxaben	1.12	Spring + Fall	2.8 (93)	3.8 (81)	17.5 (21)	0.3 (94)
Oxadiazon	3.36	Spring + Fall	16.3 (59)	7.5 (62)	10.0 (55)	0.0 (100)
LSD (0.05)			19.0	7.5	16.9	NS

<sup>a</sup> White sweet clover, and buckhorn plantain were seeded in the study area June 1994, and October 1994. A natural stand of other weed species were evaluated for weed control

Table 3. Weed counts and percent control of broadleaf weeds at 8 and 12 months after fall treatments (Oct 1994) and 4 months after spring (June 1995) application of preemergence herbicides at Blacksburg (Study 2).

Herbicide	Rate (kg/ha)	Application Timing	Mean weed count <sup>a</sup> (% control)								
			6-5-95			10-13-95					
			Dandelion	White sweet-clover	Buckhorn plantain	Corn speed-well	Common chickweed	Dandelion	Buckhorn plantain	White clover	Yellow wood-sorrel
Control			37.8 (0)	37.5 (0)	10.3 (0)	31.0 (0)	14.3 (0)	19.3 (0)	10.5 (0)	22.8 (0)	10.5 (0)
Isoxaben	0.56	Fall	15.5 (59)	18.5 (51)	7.0 (32)	4.5 (85)	0.0 (100)	3.3 (83)	4.3 (59)	8.0 (65)	7.8 (26)
Isoxaben	0.84	Fall	12.0 (68)	6.5 (83)	2.8 (73)	3.0 (90)	1.5 (90)	5.8(70)	7.5 (29)	2.5 (89)	7.8 (26)
Isoxaben	1.12	Fall	9.5 (75)	4.5 (88)	1.0 (90)	6.5 (79)	1.0 (93)	5.8 (70)	3.3 (69)	2.0 (92)	8.5 (20)
Oxadiazon	3.36	Fall	31.0 (18)	23.3 (38)	8.3 (20)	22.5 (27)	16.8 (0)	19.8 (0)	8.5 (20)	9.5 (58)	8.5 (20)
Isoxaben	0.56	Spring	-	-	-	28.3 (8)	6.0 (57)	12.0 (38)	9.0 (15)	26.0 (0)	11.0 (0)
Isoxaben	0.84	Spring	-	-	-	15.5 (50)	2.8 (86)	14.5 (25)	8.0 (23)	27.5 (0)	10.5 (0)
Isoxaben	1.12	Spring	-	-	-	17.8 (42)	4.5 (69)	11.8 (39)	8.8 (16)	28.0 (0)	9.3 (11)
Oxadiazon	3.36	Spring	-	-	-	32.5 (0)	13.5 (5)	12.0 (38)	8.5 (20)	36.0 (0)	10.0 (5)
Isoxaben	0.56	Fall+Spring	-	-	-	8.0 (74)	1.5 (90)	4.0 (79)	2.8 (73)	7.3 (68)	8.5 (20)
Isoxaben	0.84	Fall+Spring	-	-	-	3.5( 88)	0.0 (100)	3.3 (83)	2.3 (78)	1.5 (94)	5.5 (48)
Isoxaben	1.12	Fall+Spring	-	-	-	1.8 (94)	0.0 (100)	2.8 (85)	1.0 (91)	2.8 (88)	7.8 (26)
Oxadiazon	3.36	Fall+Spring	-	-	-	23.0 (26)	30.3 (0)	14.3 (26)	8.0 (23)	17.0 (25)	6.5 (38)
LSD (0.05)			16.7	11.0	12.8	8.9	7.4	7.1	4.4	15.8	4.6

<sup>a</sup> White sweet clover, and buckhorn plantain were seeded in the study area October 94. A natural stand of other weed species were evaluated for weed control

Table 4. Broadleaf weed counts and percent control at 2.5, 8.5, and 11.5 months after fall application (September 1994, October 1994), and 3 months after spring (June 1995) application of preemergence herbicides at Virginia Beach.

Herbicide	Rate (kg/ha)	Application Timing	Mean weed count <sup>a</sup> (% control)							
			12- 21-94			6-22-95		9-12-95		
			Common chickweed	Corn Speedwell	Henbit	White clover	Dandelion	Buckhorn plantain	Buckhorn plantain	White clover
Control			2.9 (0)	6.9 (0)	4.9 (0)	2.3 (0)	13.0 (0)	5.8 (0)	19.3 (0)	5.2 (0)
Isoxaben	0.58	Fall	0.3 (90)	0.0 (100)	0.0 (100)	1.9 (34)	17.5 (0)	0.0 (100)	5.8 (70)	5.7 (0)
Isoxaben	0.84	Fall	0.2 (95)	0.2 (98)	0.8 (85)	0.8 (74)	5.8 (56)	0.0 (100)	5.6 (71)	5.7 (0)
Isoxaben	1.12	Fall	0.0 (100)	0.0 (100)	0.0 (100)	0.0 (100)	6.5 (50)	0.0 (100)	2.8 (85)	5.9 (0)
Oxadiazon	3.36	Fall	4.2 (0)	7.3 (0)	1.0 (80)	1.8 (40)	21.3 (0)	6.3 (0)	11.3 (41)	4.2 (20)
Isoxaben	0.58	Spring	-	-	-	-	-	-	5.2 (73)	2.9 (44)
Isoxaben	0.84	Spring	-	-	-	-	-	-	3.3 (83)	2.2 (58)
Isoxaben	1.12	Spring	-	-	-	-	-	-	1.0 (95)	1.4 (73)
Oxadiazon	3.36	Spring	-	-	-	-	-	-	10.3 (47)	5.8 (0)
Isoxaben	0.58 +0.58	Fall+Spring	-	-	-	-	-	-	0.3 (99)	2.3 (56)
Isoxaben	0.84 +0.84	Fall+Spring	-	-	-	-	-	-	1.7 (91)	2.0 (61)
Isoxaben	1.12 +1.12	Fall+Spring	-	-	-	-	-	-	0.4 (98)	0.3 (95)
Oxadiazon	3.36 +3.36	Fall+Spring	-	-	-	-	-	-	6.3 (68)	2.4 (54)
L.S.D			5.6	10.4	4.8	3.8	NS	NS	8.9	4.3

<sup>a</sup> White clover, and buckhorn plantain were seeded in the study area November 94. A natural stand of other weed species were evaluated for weed control.