

**Table 1.** Number of buds/flowerheads ( $\pm$ SE) produced per spotted knapweed plant after defoliation at different timings and combinations of timings on foothill rangeland in western Montana.

Year	Treatment							
	Control	June <sup>1</sup>	July <sup>2</sup>	August <sup>3</sup>	June+ July	June+ August	July+ August	June+July +August
------(No. · plant <sup>-1</sup> )-----								
2006	23.8 (3.4)a <sup>4</sup>	7.8 (1.5)b	8.2 (2.1)b	2.6 (0.6)c	4.2 (2.2)c	0.3 (0.2)d	1.9 (0.9)cd	0.3 (0.2)d
2007	19.1 (3.4)a	4.0 (0.7)b	2.7 (1.0)bc	1.9 (0.6)cd	2.2 (1.2)ce	0.3 (0.2)de	1.4 (0.6)cd	0.4 (0.2)de
Mean	21.3 (2.4)a	5.9 (0.9)b	5.5 (1.3)b	2.3 (0.4)c	3.3 (1.3)c	0.3 (0.1)d	1.7 (0.5)ce	0.4 (0.1)de

<sup>1</sup>Spotted knapweed in bolting stage.

<sup>2</sup>Spotted knapweed in late-bud/early-flower stage.

<sup>3</sup>Spotted knapweed in full-flower stage.

<sup>4</sup>Means within rows followed by the same letter are not different ( $P > 0.05$ ).

**Table 2.** Number of doughy, intermediate, and mature spotted knapweed seeds ( $\pm$ SE) per plant produced after defoliation at different timings and combinations of timings on foothill rangeland in western Montana.

Seed Stage	Year	Treatment							
		Control	June <sup>1</sup>	July <sup>2</sup>	August <sup>3</sup>	June+ July	June+ August	July+ August	June+July +August
------(No. · plant <sup>-1</sup> )-----									
Doughy	2006	144.9 (30.4)a <sup>4</sup>	61.1 (16.9)b	13.5 (7.9)c	0c	16.0 (13.8)c	0c	0.3 (0.3)c	0c
	2007	155.5 (28.2)a	34.2 (9.6)b	6.6 (2.9)c	0c	1.6 (1.6)c	0c	1.2 (1.2)c	0c
	Mean	150.5 (20.1)a	47.7 (9.9)b	10.1 (4.2)c	0d	9.2 (7.3)cd	0d	0.8 (0.6)d	0d
Intermediate	2006	20.4 (3.5)a	6.9 (2.5)b	3.3 (2.4)bc	0c	1.3 (1.3)c	0c	0c	0c
	2007	29.0 (6.9)a	2.0 (0.5)b	1.3 (0.9)bc	0c	0c	0c	0c	0c
	Mean	24.9 (4.0)a	4.5 (1.4)b	2.3 (1.3)c	0d	0.7 (0.7)cd	0cd	0d	0d
Mature	2006	196.9 (35.1)a	22.6 (7.1)b	0.5 (0.5)c	0c	0.1 (0.1)c	0c	0c	0c
	2007	24.7 (6.3)a	4.5 (2.6)b	1.9 (0.9)bc	0c	0c	0c	0c	0c
	Mean <sup>5</sup>	106.3 (26.1)	13.6 (4.2)	1.2 (0.5)	0	0.1 (0.1)	0	0	0
Total	2006	362.2 (61.8)a	90.6 (22.5)b	17.3 (9.8)c	0c	17.4 (15.2)c	0c	0.3 (0.3)c	0c
	2007	209.2 (37.5)a	40.7 (11.5)b	9.8 (4.4)c	0de	1.6 (1.6)cd	0de	1.2 (1.2)ce	0de
	Mean <sup>5</sup>	281.7 (38.7)	65.7 (13.6)	13.6 (5.3)	0	9.9 (8.1)	0	0.8 (0.6)	0

<sup>1</sup>Spotted knapweed in bolting stage.

<sup>2</sup>Spotted knapweed in late-bud/early-flower stage.

<sup>3</sup>Spotted knapweed in full-flower stage.

<sup>4</sup>Means within rows followed by the same letter are not different ( $P > 0.05$ )

<sup>5</sup>Treatment by year interaction ( $P \leq 0.05$ ).

**Table 3.** Viability (%) of intermediate and mature spotted knapweed seeds ( $\pm$ SE) per plant produced after defoliation at different timings and combinations of timings on foothill rangeland in western Montana.

Seed Stage	Year	Treatment							
		Control	June <sup>1</sup>	July <sup>2</sup>	August <sup>3</sup>	June+ July	June+ August	July+ August	June+July +August
------(%)-----									
Intermediate	2006	25.0 (7.4)a <sup>4</sup>	13.5 (6.7)b	0c	0c	0c	0c	0c	0c
	2007	44.8 (7.4)a	16.7 (10.2)b	6.0 (6.0)bc	0c	0c	0c	0c	0c
	Mean	35.4 (5.6)a	15.1 (5.9)b	3.0 (3.0)c	0c	0c	0c	0c	0c
Mature	2006	89.0 (2.0)a	68.2 (12.0)b	2.0 (2.0)c	0c	0c	0c	0c	0c
	2007	89.0 (2.4)a	35.1 (14.6)b	40.0 (16.3)b	0c	0c	0c	0c	0c
	Mean <sup>5</sup>	89.0 (1.5)	51.7 (10.0)	21.0 (9.1)	0	0	0	0	0

<sup>1</sup>Spotted knapweed in bolting stage.

<sup>2</sup>Spotted knapweed in late-bud/early-flower stage.

<sup>3</sup>Spotted knapweed in full-flower stage.

<sup>4</sup>Means within rows followed by the same letter are not different ( $P > 0.05$ ).

<sup>5</sup>Treatment by year interaction ( $P \leq 0.05$ ).

**Table 4.** Number of viable intermediate and mature spotted knapweed seeds ( $\pm$ SE) produced per plant after defoliation at different timings and combinations of timings on foothill rangeland in western Montana.

Seed Stage	Year	Treatment							
		Control	June <sup>1</sup>	July <sup>2</sup>	August <sup>3</sup>	June+ July	June+ August	July+ August	June+July +August
------(No. · plant <sup>-1</sup> )-----									
Intermediate	2006	6.1 (2.0)a <sup>4</sup>	1.4 (0.6)b	0c	0c	0c	0c	0c	0c
	2007	10.4 (2.4)a	0.3 (0.2)b	0.3 (0.3)b	0b	0b	0b	0b	0b
	Mean <sup>5</sup>	8.4 (1.6)	0.9 (0.3)	0.2 (0.2)	0	0	0	0	0
Mature	2006	173.0 (30.3)a	20.1 (6.7)b	0.1 (0.1)c	0c	0c	0c	0c	0c
	2007	21.0 (4.9)a	3.5 (1.9)b	1.9 (0.9)bc	0c	0c	0c	0c	0c
	Mean <sup>5</sup>	93.0 (22.8)	11.8 (3.9)	1.0 (0.5)	0	0	0	0	0
Total	2006	179.1 (29.8)a	21.5 (7.3)b	0.1 (0.1)c	0c	0c	0c	0c	0c
	2007	31.4 (5.7)a	3.8 (1.8)b	2.2 (1.2)bc	0c	0c	0c	0c	0c
	Mean <sup>5</sup>	101.4 (22.3)	12.7 (4.2)	1.2 (0.6)	0	0	0	0	0

<sup>1</sup>Spotted knapweed in bolting stage.

<sup>2</sup>Spotted knapweed in late-bud/early-flower stage.

<sup>3</sup>Spotted knapweed in full-flower stage.

<sup>4</sup>Means within rows followed by the same letter are not different ( $P > 0.05$ ).

<sup>5</sup>Treatment by year interaction ( $P \leq 0.05$ ).