

Table 8. No till edible dry bean establishment and yield when seeded into a winter rye companion crop.

TRT	Edible Bean	Rye Termination		Population	Weed Biomass at Harvest			Yield	
		Date	lb/acre	plants/acre	Grass lb/acre	Broadleaf lb/acre	Total lb/acre	(bu/acre)	
May 1 Kill and till <sup>1</sup>	Zorro	1-May	645	115434	37	17	54	50	a
May 1 Kill and till <sup>1</sup>	Majesty	1-May	645	84398	55	130	185	33	cd
May 1 Kill and till <sup>1</sup>	Tiger's Eye	1-May	645	92565	116	29	144	22	efg
Boot stage Chop and till <sup>2</sup>	Zorro	2-Jun	2477	116795	53	51	103	42	b
Boot stage Chop and till <sup>2</sup>	Majesty	2-Jun	2477	93110	29	26	55	26	def
Boot stage Chop and till <sup>2</sup>	Tiger's Eye	2-Jun	2477	95288	22	25	47	19	fg
Anthesis Chop and till <sup>3</sup>	Zorro	10-Jun	3287	108628	44	13	57	35	bc
Anthesis Chop and till <sup>3</sup>	Majesty	10-Jun	3287	96377	35	5	39	29	cde
Anthesis Chop and till <sup>3</sup>	Tiger's Eye	10-Jun	3287	94743	74	17	91	16	g
Anthesis roll <sup>4</sup>	Zorro	10-Jun	3287	105089	148	355	503	30	cd
Anthesis roll <sup>4</sup>	Majesty	10-Jun	3287	81947	166	259	425	22	efg
Anthesis roll <sup>4</sup>	Tiger's Eye	10-Jun	3287	86303	61	182	244	15	g

<sup>1</sup>Power Harrow on 5/1/14. Disk and Power Harrow on 6/17/14. Row cultivation on 7/15/14.

<sup>2</sup>Disk and Power Harrow on 6/2/14. Disk and Power Harrow on 6/17/14. Row cultivation on 7/15/14.

<sup>3</sup>Chop and Power Harrow on 6/10/14. Disk and Power Harrow on 6/17/14. Row cultivation on 7/15/14.

<sup>4</sup>Roll on 6/10/14 (3X). Roll on 6/17/14 (3X). Row cultivation on 7/15/14.

Within a column for a given set of treatments, means followed by the same letter are not significantly different at ( $\alpha$  0.05).