

**Table 3. Effect of rye and termination timing on select weed populations and soybean yield, 2021.**

Site	Rye/ Termination	Weed Population						Soybean		
		At Treatment <sup>(1)</sup>			At Harvest			Yield (bu/a)	Moisture (%)	Test wt. (lb/bu)
		MT <sup>(2)</sup> (p/acre)	GRW (p/acre)	Other (p/acre)	MT (p/acre)	GRW (p/acre)	WH (p/acre)			
S2	No rye	1,202 <i>a</i>		71 <i>a</i>	1 <i>a</i>	0	29.4 <i>a</i>	12.1	52.1	
	Preemergence	574 <i>ab</i>		90 <i>a</i>	12 <i>a</i>	0	31.2 <i>a</i>	12.2	53.2	
	Postemergence	30 <i>b</i>		9 <i>b</i>	455 <i>b</i>	620	23.3 <i>b</i>	11.8	51.9	
	LSD(0.05)	888		41	362	ns	3.8	ns	ns	
	p>f	0.049		0.007	0.035	0.153	0.005	0.407	0.098	
S3	No rye	985 <i>a</i>		74 <i>a</i>	0 <i>a</i>		42.2	13.1	52.8	
	Preemergence	76 <i>b</i>		63 <i>b</i>	0 <i>a</i>		44.2	13.2	53.0	
	Postemergence	31 <i>b</i>		10 <i>b</i>	921 <i>b</i>		33.8	13.1	53.5	
	LSD(0.05)	421		51	439		ns	ns	ns	
	p>f	0.002		0.045	0.003		0.074	0.137	0.112	
S4	No rye	2,302 <i>a</i>	4,318 <i>a</i>		292	230	38.1 <i>a</i>	10.2 <i>a</i>	54.7	
	Preemergence	960 <i>b</i>	2,166 <i>ab</i>		512	187	34.5 <i>b</i>	10.1 <i>a</i>	55.2	
	Postemergence	31 <i>b</i>	44 <i>b</i>		1,054	190	20.9 <i>c</i>	10.5 <i>b</i>	54.1	
	LSD(0.05)	1,062	2,588		ns	ns	3.3	0.2	ns	
	p>f	0.006	0.019		0.571	0.970	<0.001	0.023	0.150	
<b>Combined Analysis</b>										
Source	df	p>f		p>f		p>f	p>f	p>f	p>f	
Site	2	0.004		0.174		<0.001	<0.001	<0.001		
Tmt	2	<0.001		0.008		<0.001	0.785	0.038		
Site x Tmt	4	0.026		0.975		0.054	0.076	0.064		
Rate	1	0.116		0.786		0.155	0.558	0.846		
Site x rate	2	0.463		0.928		0.122	0.383	0.614		
<b>Means</b>										
<u>Treatment</u>										
No rye	1,496 <i>a</i>			98 <i>a</i>			36.5 <i>a</i>	11.8	53.2 <i>b</i>	
Preemergence	537 <i>b</i>			175 <i>a</i>			36.6 <i>a</i>	11.8	53.8 <i>a</i>	
Postemergence	31 <i>c</i>			810 <i>b</i>			26.0 <i>b</i>	11.8	53.1 <i>b</i>	
LSD(0.05)	407			521			3.0	ns	0.5	
<u>Site</u>										
S2	602 <i>a</i>			156			28.0 <i>c</i>	12.0 <i>b</i>	52.4 <i>a</i>	
S3	364 <i>a</i>			307			40.1 <i>a</i>	13.1 <i>a</i>	53.1 <i>b</i>	
S4	1,098 <i>b</i>			619			31.1 <i>b</i>	10.2 <i>c</i>	54.6 <i>c</i>	
LSD(0.05)	407			ns			3.0	0.2	0.5	

<sup>(1)</sup> Postemergence herbicide application, measured June 17, 2021.

<sup>(2)</sup> Weed species: MT, marestail; GRW, gaint ragweed; WH, waterhemp; Other, other broadleaf, unspecified.

Soybean yield reported at 13% moisture.