

Table 4. Rye aboveground biomass and profile nitrate as affected by rye, 2021.

Table 1. Rye aboveground biomass and profile nitrate as affected by ryz, 2022.															
Site	Rye status	Preemergence termination				Postemergence termination				Change, PRE to POST					
		Rye AGB	Soil nitrate-N			Rye AGB	Soil nitrate-N			Rye AGB	Total nitrate-N				
			0-12"	12-24"	Total		0-12"	12-24"	Total						
lb/a						p>f									
S1	No rye		18.4	13.4	31.8		31.9	18.4	50.2		0.014				
	Rye	136	11.6	10.8	22.3	2,100	15.2	10.4	25.6	<0.001	0.258				
	p>f		0.026	0.124	0.047		0.006	0.004	0.002						
S2	No rye		7.7	6.1	13.8		16.6	12.1	28.7		0.005				
	Rye	85	5.6	5.3	10.8	1,125	9.5	9.4	18.8	<0.001	0.013				
	p>f		0.128	0.171	0.13		0.048	0.166	0.024						
S3	No rye		9.6				24.7				0.005 ⁽¹⁾				
	Rye	116	7.1			1,157	12.0			<0.001	0.026				
	p>f		0.141				0.012								
S4	No rye		12.3	14.6	26.1		23.3	20.6	43.9		0.024				
	Rye	136	11.6	13.5	25.7	1,861	8.2	6.5	14.6	<0.001	0.027				
	p>f		0.859	0.702	0.954		0.002	0.002	0.002						
Combined Analysis															
Source		df, p>f													
Site		3	<0.001	2	<0.001	2	<0.001	3	<0.001	2	0.007	2	<0.001		
Tmt		1	0.017	1	0.434	1	0.113	1	<0.001	1	<0.001	1	<0.001		
Site x Tmt		3	0.291	2	0.334	2	0.254	3	0.039	2	<0.001	2	0.001		
Rate	1	0.007	0.226	0.295	0.167	0.148	0.486	0.909	0.630						
Site x rate	3	0.216	0.085	0.574	0.212	0.260	0.279	0.146	0.059						
Means		Treatment													
	No rye		12.0	a	11.0	23.8		24.1	a	17.0	a	40.9	a		
	Rye	118	8.9	b	10.2	19.8	1,561	11.2	b	8.7	b	19.7	b		
Site															
	S1		15.0	a	12.1	a	27.1	a		23.5	a	14.4	a	37.9	a
	S2		6.7	b	5.7	b	12.3	b		13.0	c	10.8	b	23.8	c
	S3		8.3	b						18.3	b				
	S4		11.9	a	14.0	a	25.9	a		15.7	bc	13.5	a	29.2	b
	LSD(0.05)		3.4		2.7	6.3		3.3		2.0		4.1			

⁽¹⁾ Site S3 total nitrate-N represented by 0-12" depth only, 12-24" data unobtainable, applies to both treatments.