

**Table 3.** Rye dry matter biomass and nitrogen in aboveground biomass measured in 2014-15 with the effect of year x crop management x method x time partitioned to determine the effect of manure application method and time using the SLICE statement.

Treatment	Aboveground rye biomass		Aboveground rye nitrogen	
	2014	2015	2014	2015
	-----Mg ha <sup>-1</sup> -----		-----kg ha <sup>-1</sup> -----	
Cover crop, early broadcasted	1.85aA †‡	1.04aA	35.11aA	26.72aA
Cover crop, early injected	2.01aA	0.86aA	42.89aB	29.62aA
Cover crop, late broadcasted	1.93aA	1.00aA	44.36aA	29.27aA
Cover crop, late injected	1.56aA	0.68aA	43.78aA	30.06aA
Ryelage, early broadcasted	3.85bB	3.33bA	53.67bA	99.83aA
Ryelage, early injected	5.72aA	4.53aA	88.22aA	105.91aB
Ryelage, late broadcasted	4.82aA	3.81aA	73.92aA	88.31bA
Ryelage, late injected	5.35aA	3.53aB	92.96aA	133.8aA
	2014 & 2015		2014 & 2015	
Effect				
Year (Y)	<0.0001		0.04	
Crop management (CM)	<0.0001		<0.0001	
Method (M)	0.006		0.0002	
Time (T)	0.6		0.07	
Y x CM	0.400		<0.0001	
Y x M	0.060		0.900	
Y x T	0.3		0.6	
CM x M	<0.0001		0.002	
CM x T	0.5		0.3	
M x T	0.0004		0.6	
Y x CM x M	0.2		0.9	
Y x CM x T	0.2		0.9	
Y x M x T	0.8		0.04	
CM x M x T	0.03		0.2	
Y x CM x M x T	0.6		0.1	

† Means with the same rye crop management and time of application, followed by the same lowercase letter do not differ at p<0.05 according to the 'SLICE' procedure.

‡ Means with the same rye crop management and method of application, followed by the same uppercase letter do not differ at p<0.05 according to the 'SLICE' procedure.