

Table 5. Yield and Growth metrics for the Date of Planting and Nitrogen Trial for the University of Massachusetts Agricultural Research Farm, South Deerfield, MA. 2015-2016

DOP	Fall N (lbs/ac)	Spring N (lbs/ac)	Fall biomass (lb/ac)	Winter Survival (0-10)	Plant Height (in)	50% Heading Date	Lodging/Stem breakage (0-10)
Sept. 5	25	25	3705	7.3	24.8	140.5	2.4
		45	4736	6.7	19.4	140.3	4.3
		65	4322	7.5	25.3	140.3	5.4
	0	25	2698	8.3	16.9	141.7	1.7
		45	2828	8.6	24.2	141.0	3.5
		65	3213	8.4	24.9	141.3	3.8
		0	4786	8.5	14.9	141.7	2.0
Sept. 15	25	25	2862	9.4	23.5	141.3	3.0
		45	3732	9.5	25.5	141.0	2.0
		65	2135	9.1	25.6	141.0	2.9
	0	25	3218	9.0	24.0	141.0	1.6
		45	3478	9.1	23.6	140.5	1.8
		65	2970	9.3	23.9	141.3	1.9
		0	2248	9.1	20.0	141.8	0.1
Sept. 15	25	25	1489	9.8	24.6	139.5	0.4
		45	2507	9.9	25.6	139.8	1.5
		65	1779	9.6	24.6	140.0	0.9
	0	25	1954	9.5	23.5	140.3	0.3
		45	1737	9.3	24.3	140.3	0.8
		65	1799	9.5	24.6	140.0	1.0
		0	2109	9.6	22.9	140.3	0
DOP							
Sept. 5			3755	7.9	21.5	141.0	3.3
Sept. 15			2949	9.2	23.7	141.1	1.9
Sept. 25			1911	9.6	24.3	140.0	0.7
Fall N (lbs/ac)							
25			2753	9.0	22.3	140.9	1.5
0			3030	8.7	24.3	140.4	2.5
Spring N (lbs/ac)							
25			2654	8.9	22.9	140.7	1.5
45			3169	8.8	23.8	140.5	2.3
65			2703	8.9	24.8	140.6	2.6
0			3048	9.1	19.2	141.2	0.7
<i>Significance<sup>1</sup> by main factors</i>							
DOP			***	*	NS	NS	t
Fall N			NS	NS	NS	NS	NS
Spring N			NS	NS	NS	NS	*
DOPxFall N			NS	NS	NS	NS	NS
DOPxSpring N			NS	NS	NS	NS	NS
Fall NxSpring N			NS	NS	NS	NS	NS

<sup>1</sup>t indicates P≤0.1, \*indicates a significant relationship or difference (P≤0.05), \*\*indicates a highly significant relationship or difference (P≤0.01), \*\*\*(P≤0.001) indicates a very highly significant relationship or difference