

Table 4. Yield and Growth metrics for the Date of Planting and Nitrogen Trial for the University of Massachusetts Agricultural Research Farm, South Deerfield, MA. 2014-2015

DOP	Fall N (lbs/ac)	Spring N (lbs/ac)	Agronomic NUE (g grain/g N)	Test Weight (kg/hL)	Germination (%)	Protein (%)	Falling number (sec.)	DON (ppm)
Sept. 5	25	25	56.5	56.5	85.8	8.7	117.0	0.18
		45	49.4	61.6	86.8	9.2	108.8	0.08
		65	41.9	62.7	90.0	9.6	109.5	0.15
	0	25	52.9	61.0	87.8	8.5	113.8	0.18
		45	45.8	59.6	86.5	9.0	105.5	0.63
		65	41.3	59.2	86.5	9.6	105.5	0.25
Sept. 15	25	25	57.4	61.9	81.5	8.7	104.0	0.2
		45	52.7	61.3	81.8	8.5	89.0	0.4
		65	43.7	60.7	82.3	9.1	91.5	0.4
	0	25	51.0	61.7	83.5	8.1	94.5	0.55
		45	49.6	59.3	81.5	8.7	101.3	0.55
		65	50.0	61.3	83.3	8.9	79.0	0.55
Sept. 25	25	25	61.9	60.5	85.5	8.4	100.3	0.45
		45	55.3	59.8	82.8	8.9	105.8	0.43
		65	45.8	59.4	85.8	9.6	103.3	0.58
	0	25	46.5	61.2	90.8	8.6	126.0	0.48
		45	49.4	60.9	84.3	8.9	114.8	0.6
		65	45.3	61.6	85.8	9.2	114.0	0.59
DOP								
Sept. 5			48.0	60.1	87.2	9.1	110.0	0.2
Sept. 15			50.7	61.0	82.3	8.7	93.2	0.4
Sept. 25			50.7	60.6	85.8	8.9	110.7	0.5
Fall N (lbs/ac)								
25			48.0	60.6	85.5	8.8	106.0	0.5
0			51.6	60.5	84.7	9.0	103.2	0.3
Spring N (lbs/ac)								
25			54.4	60.5	85.8	8.5	109.3	0.3
45			50.4	60.4	83.9	8.9	104.2	0.4
65			44.7	60.8	85.6	9.3	100.5	0.4
<i>Significance¹ by main factors</i>								
DOP			NS	NS	t	**	**	**
Fall N			*	NS	NS	NS	NS	t
Spring N			*	NS	NS	**	NS	NS
DOPxFall N			NS	NS	NS	NS	*	NS
DOPxSpring N			NS	NS	NS	NS	NS	NS
Fall NxSpring N			NS	NS	NS	NS	NS	NS

¹t 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