Table 1. Northwest Research and Demonstration Farm Corn replant study results. 2010 & 2011.

	30-Apr				14-May				28-May				11-Jun				25-Jun				Hybrid average			
HYB	Yld†	LSD	MC	LSD	Yld	LSD	MC	LSD	Yld	LSD	MC	LSD	Yld	LSD	MC	LSD	Yld	LSD	MC	LSD	Yld	LSD	MC	LSD
83	144	a	14	a	157	a	14	a	148	a	15	a	135	a	17	a	86	a	30	a	134	A	18	A
93	173	b	14	ab	172	b	14	a	172	b	15	ab	145	b	18	a	97	b	31	a	152	B	18	A
98	188	c	14	ab	176	c	15	ab	171	c	16	b	152	c	20	b	101	c	34	b	158	B	20	B
105	212	d	15	b	215	d	16	b	197	d	19	c	163	d	27	c	113	c	38	c	180	C	23	C
DOP	179	A	14	A	180	A	15	AB	172	B	16	B	149	C	20	C	99	D	33	D				

† HYB = Hybrid Relative maturity; Yld = Grain yield in bushels per acre;
LSD = Statistical comparisons: Means followed by the same **small** letter within a column are not different.
Means followed by the same **Capita**l letter in the same row or the same column are not different, $P \leq 0.05$;
MC = Grain moisture content at harvest; DOP = Date of planting averages.

Table 2. Northeast Research and Demonstration Farm Corn replant study results. 2010 & 2011.

	30-Apr				14-May				28-May				11-Jun				25-Jun				Hybrid average			
HYB	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD
83	154	a	15	a	165	a	15	a	151	a	15	a	129	a	16	a	104	a	21	a	141	A	17	A
93	185	b	15	a	192	bc	15	a	180	b	15	a	146	b	19	b	100	a	28	b	161	B	18	B
98	189	b	17	b	183	b	16	a	182	b	17	b	143	b	21	c	99	a	32	c	159	B	21	C
105	199	b	17	b	204	c	17	b	176	b	19	c	127	a	27	d	102	a	34	d	162	B	23	D
DOP	182	A	16	A	186	A	16	A	172	A	17	A	136	B	21	B	101	C	29	C				

† HYB = Hybrid Relative maturity; YLD = Grain yield in bushels per acre;
LSD = Statistical comparisons: Means followed by the same **small** letter within a column are not different.
Means followed by the same **Capita**l letter in the same row or the same column are not different, $P \leq 0.05$;
MC = Grain moisture content at harvest; DOP = Date of planting averages.

Table 3. Central Research and Demonstration Farm Corn replant study results. 2010 & 2011.

	30-Apr				14-May				28-May				11-Jun				25-Jun				Hybrid average			
HYB	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD
93	187	ab	14	a	184	ab	15	a	181	ab	15	a	163	a	18	a	144	a	21	a	172	AB	17	AB
98	175	a	14	a	178	a	14	a	171	a	15	a	166	a	20	a	137	a	25	b	165	A	18	AB
105	193	b	14	a	185	ab	15	a	189	ab	17	a	176	a	20	a	134	a	28	c	175	B	19	B
112	198	b	15	a	201	b	15	a	199	b	18	b	168	a	23	b	137	a	31	d	181	B	21	C
DOP	188	A	14	A	187	A	15	A	185	A	16	A	169	A	20	B	138	B	26	C				

† HYB = Hybrid Relative maturity; YLD = Grain yield in bushels per acre; LSD = Statistical comparisons:
Means followed by the same **small** letter within a column are not different.
Means followed by the same **Capita**l letter in the same row or the same column are not different, $P \leq 0.05$;
MC = Grain moisture content at harvest; DOP = Date of planting averages.

Table 4. Southeast Research and Demonstration Farm Corn replant study results. 2010 & 2011.

	30-Apr				14-May				28-May				11-Jun				25-Jun				Hybrid average			
HYB	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD	YLD	LSD	MC	LSD
93	132	a	17	a	131	a	17	a	137	a	15	a	115	a	17	a	118	ab	19	a	127	A	17	A
98	145	ab	17	a	136	a	17	a	145	ab	16	ab	139	b	18	ab	109	a	20	ab	135	A	18	A
105	166	b	17	a	163	b	17	a	165	b	16	ab	154	b	18	ab	138	b	21	bc	157	B	18	A
112	190	c	17	a	170	b	18	a	196	c	17	b	185	c	19	b	162	c	22	c	181	C	19	B
DOP	158	A	17	A	150	A	17	A	161	A	16	A	148	A	18	A	132	B	21	B				

† HYB = Hybrid Relative maturity; YLD = Grain yield in bushels per acre;

LSD = Statistical comparisons: Means followed by the same **small** letter within a column are not different.

Means followed by the same **Capita**l letter in the same row or the same column are not different, $P \leq 0.05$;

MC = Grain moisture content at harvest; DOP = Date of planting averages.

Table 5. Comparison of Actual field data from 2010 and 2011 to modeled yield responses with long-term weather averages.

	NW†		NE		Central		SE	
Planting date comparisons	Actual	Modeled	Actual	Modeled	Actual	Modeled	Actual	Modeled
	Yield reduction in June %‡		Yield reduction in June %		Yield reduction in June %		Yield reduction in June %	
30 April to 11 June	21		30		12		4	
30 April to 25 June	47		48		31		16	
28 May to 11 June	14	21	25	20	12	15	6	10
28 May to 25 June	42	51	44	NA§	30	43	16	33

† 28°F frost dates varied by location and year: NW: 29 Oct 10, 19 Oct 11; NE: 3 Oct 10, 21 Oct 11; Central: 29 Oct 10, 21 Oct 11; SE: 29 Oct 10, 21 Oct 11 (these based on Mesonet climodat locations: Cherokee, Charles City, Ames 8 WSW, and Washington for NW, NE, Central, and SE locations, respectively.

‡ Yield reductions in these columns result from the subtraction of yields whether actual or modeled on either 30 April or 28 May minus those of the respective June planting dates expressed as percentages. Averages for the two fullest season hybrids were used for these comparisons. Modeled yield estimates were not generated for 30 April planting dates.

§ NA = the model was not able to compute a value probably because of frost.