

**Table C-60. Date of Planting and Row Spacing Influence on Grain Yield
Arlington, WI - 2004**

Planting date	Row spacing	Hybrid	Yield Components @ 0% moisture								
			Yield	Moisture	Test weight	Grower return	Lodged	Plant number	Ear number	100 Kernel wt.	Kernel no./ear
			bu/A	%	lbs/bu	\$/A	%	plants/A	ears/A	grams	kernels/ear
		DeKalb DKC3947	144	27.4	49	239	3.9	33299	33686	23.9	388
		DeKalb DKC5334	149	32.9	44	234	2.6	31861	32414	20.9	468
	15 inches		147	29.9	47	237	4.3	33410	34018	22.4	419
	30 inches		147	30.4	46	236	2.3	31750	32082	22.4	437
	15 inches	DeKalb DKC3947	141	26.9	49	235	6.2	33299	33852	23.7	383
	15 inches	DeKalb DKC5334	153	32.8	44	239	2.3	33520	34184	21.1	455
	30 inches	DeKalb DKC3947	147	27.8	49	244	1.6	33299	33520	24.2	393
	30 inches	DeKalb DKC5334	146	32.9	44	229	2.9	30202	30644	20.7	481
April 30			193	22.3	55	333	7.9	33272	33852	28.4	440
May 20			156	27.7	49	253	0.8	30036	30782	24.3	455
June 15			91	40.4	36	124	1.1	34433	34516	14.6	390
April 30		DeKalb DKC3947	181	21.0	57	317	8.0	33852	34350	30.2	375
April 30		DeKalb DKC5334	205	23.6	53	349	7.8	32691	33355	26.5	504
May 20		DeKalb DKC3947	157	23.7	51	267	1.6	30202	30699	26.1	424
May 20		DeKalb DKC5334	155	31.7	46	239	0.0	29870	30865	22.5	486
June 15		DeKalb DKC3947	94	37.4	39	135	2.3	35844	36010	15.5	365
June 15		DeKalb DKC5334	87	43.3	33	114	0.0	33023	33023	13.7	414
April 30	15 inches		185	22.4	55	317	9.0	33520	34516	28.0	419
April 30	30 inches		202	22.2	55	348	6.8	33023	33189	28.8	460
May 20	15 inches		162	27.0	49	264	1.6	31529	32359	24.4	444
May 20	30 inches		151	28.4	48	242	0.0	28542	29206	24.2	465
June 15	15 inches		95	40.2	36	130	2.3	35180	35180	14.9	393
June 15	30 inches		87	40.5	36	118	0.0	33686	33852	14.3	386

continued

Table C-60. Date of Planting and Row Spacing Influence on Grain Yield(continued) **Arlington, WI - 2004**

Planting date	Row spacing	Hybrid	Yield Components @ 0% moisture								
			Yield	Moisture	Test weight	Grower return	Lodged	Plant number	Ear number	100 Kernel wt.	Kernel no./ear
			bu/A	%	lbs/bu	\$/A	%	plants/A	ears/A	grams	kernels/ear
April 30	15 inches	DeKalb DKC3947	165	21.1	57	288	11.0	33189	34184	29.6	354
April 30	15 inches	DeKalb DKC5334	204	23.7	53	346	6.9	33852	34848	26.4	484
April 30	30 inches	DeKalb DKC3947	197	20.9	57	345	4.9	34516	34516	30.9	397
April 30	30 inches	DeKalb DKC5334	207	23.5	53	352	8.7	31529	31861	26.7	524
May 20	15 inches	DeKalb DKC3947	162	22.8	52	278	3.1	30533	31197	25.8	437
May 20	15 inches	DeKalb DKC5334	161	31.2	46	249	0.0	32525	33520	22.9	452
May 20	30 inches	DeKalb DKC3947	152	24.6	50	255	0.0	29870	30202	26.4	410
May 20	30 inches	DeKalb DKC5334	150	32.2	47	229	0.0	27215	28210	22.0	520
June 15	15 inches	DeKalb DKC3947	95	36.8	39	137	4.5	36176	36176	15.9	358
June 15	15 inches	DeKalb DKC5334	95	43.6	34	123	0.0	34184	34184	13.9	428
June 15	30 inches	DeKalb DKC3947	93	38.0	39	132	0.0	35512	35844	15.1	373
June 15	30 inches	DeKalb DKC5334	80	43.1	32	105	0.0	31861	31861	13.5	399
Mean			147	30.1	46	237	3.3	32580	33050	22.4	428

Probability(%)

Planting Date (D)	0.0	0.0	0.0	0.0	27.5	0.5	4.2	0.0	2.6
Row Spacing (R)	87.2	32.2	16.7	91.8	2.3	3.3	2.2	96.8	26.8
Hybrid (H)	12.9	0.0	0.0	41.7	11.6	6.0	11.7	0.0	0.0
R x D	0.4	47.4	80.3	0.8	92.9	38.1	54.9	67.4	49.1
R x H	4.3	42.1	74.8	13.3	0.5	3.3	5.2	55.5	63.1
D x H	0.2	0.2	7.7	0.3	56.2	37.3	26.7	40.1	12.1
R x D x H	24.4	81.2	5.1	24.6	48.8	69.3	82.9	82.0	21.5

LSD (0.10)

Planting Date (D)	11.2	2.1	2.1	16.2	NS	1320	2157	2.0	32.0
Row Spacing (R)	NS	NS	NS	NS	1.4	1243	1339	NS	NS
Hybrid (H)	NS	0.9	0.5	NS	NS	1243	NS	1.1	28.0
R x D	9.9	NS	NS	19.4	NS	NS	NS	NS	NS
R x H	8.1	NS	NS	NS	2.0	1758	1894	NS	NS
D x H	9.9	1.5	0.9	19.4	NS	NS	NS	NS	NS
R x D x H	NS	NS	1.2	NS	NS	NS	NS	NS	NS

CV(%)

	7	5	2	8	74	7	7	9	11
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Table C-60b. Date of Planting, Row Spacing, and Hybrid Influence on Grain Quality.**Arlington, WI - 2004**

Planting date	Row spacing	Hybrid	Grain Composition			Ethanol	
			Oil %	Starch %	Protein %	per bu gallons	per A gallons
		DeKalb DKC3947	3.4	61.2	7.2	2.87	472
		DeKalb DKC5334	3.4	60.9	7.5	2.86	517
	15 inches		3.3	61.0	7.4	2.86	482
	30 inches		3.4	61.0	7.4	2.87	507
	15 inches	DeKalb DKC3947	3.4	61.1	7.2	2.87	447
	15 inches	DeKalb DKC5334	3.3	60.9	7.6	2.86	522
	30 inches	DeKalb DKC3947	3.3	61.2	7.3	2.88	502
	30 inches	DeKalb DKC5334	3.4	60.8	7.4	2.87	512
April 30			3.4	61.2	7.1	2.89	559
May 20			3.3	60.9	7.6	2.85	445
June 15			3.2	61.4	7.9	2.80	300
April 30		DeKalb DKC3947	3.4	61.2	7.1	2.89	523
April 30		DeKalb DKC5334	3.5	61.1	7.1	2.89	594
May 20		DeKalb DKC3947	3.3	61.1	7.3	2.87	451
May 20		DeKalb DKC5334	3.2	60.7	7.9	2.83	440
June 15		DeKalb DKC3947	3.2	61.4	7.9	2.80	300
June 15		DeKalb DKC5334	-	-	-	-	-
April 30	15 inches		3.5	61.1	7.2	2.88	532
April 30	30 inches		3.4	61.2	7.0	2.90	585
May 20	15 inches		3.3	60.9	7.5	2.86	462
May 20	30 inches		3.3	60.8	7.7	2.85	429
June 15	15 inches		3.2	61.4	7.9	2.80	300
June 15	30 inches		-	-	-	-	-
April 30	15 inches	DeKalb DKC3947	3.4	61.2	6.9	2.89	476
April 30	15 inches	DeKalb DKC5334	3.5	61.0	7.4	2.88	588
April 30	30 inches	DeKalb DKC3947	3.4	61.3	7.2	2.89	569
April 30	30 inches	DeKalb DKC5334	3.5	61.2	6.9	2.91	601
May 20	15 inches	DeKalb DKC3947	3.4	61.0	7.2	2.88	466
May 20	15 inches	DeKalb DKC5334	3.2	60.8	7.8	2.84	457
May 20	30 inches	DeKalb DKC3947	3.3	61.1	7.4	2.87	436
May 20	30 inches	DeKalb DKC5334	3.3	60.5	8.0	2.82	423
June 15	15 inches	DeKalb DKC3947	3.2	61.4	7.9	2.80	300
June 15	15 inches	DeKalb DKC5334	-	-	-	-	-
June 15	30 inches	DeKalb DKC3947	-	-	-	-	-
June 15	30 inches	DeKalb DKC5334	-	-	-	-	-
Mean			3.4	61.0	7.4	2.87	494
Probability(%)							
Planting Date (D)			1.2	8.6	8.0	13.0	0.8
Row Spacing (R)			91.5	92.6	78.7	87.6	44.1
Hybrid (H)			81.4	4.1	0.1	2.9	4.0
R x D			17.1	31.1	6.1	11.9	0.7
R x H			4.7	54.4	3.4	56.0	14.2
D x H			0.5	36.4	0.5	0.4	0.9
R x D x H			40.3	26.2	4.1	35.0	17.3
LSD (0.10)							
Planting Date (D)			0.0	0.2	0.4	NS	24
Row Spacing (R)			NS	NS	NS	NS	NS
Hybrid (H)			NS	0.2	0.1	0.01	19
R x D			NS	NS	0.2	NS	33
R x H			0.1	NS	0.2	NS	NS
D x H			0.1	NS	0.2	0.02	33
R x D x H			NS	NS	0.3	NS	NS
CV(%)							
			2	0	3	1	6