

**Table C-43. Date of Planting, Row Spacing, and Hybrid Influence on Grain Quality.  
Arlington, WI - 2005**

Planting date	Row spacing	Brand	Hybrid	Grain Composition			Ethanol	
				Oil %	Starch %	Protein %	per bu gallons	per A gallons
		NK Brand	N32-L9	3.4	58.2	7.8	2.89	498
		NK Brand	N50-P5	3.3	58.4	7.8	2.86	484
	15 inches			3.4	58.4	7.7	2.88	487
	30 inches			3.3	58.2	7.8	2.87	495
	15 inches	NK Brand	N32-L9	3.4	58.2	7.7	2.90	488
	15 inches	NK Brand	N50-P5	3.4	58.7	7.7	2.86	487
	30 inches	NK Brand	N32-L9	3.3	58.2	7.8	2.89	509
	30 inches	NK Brand	N50-P5	3.3	58.1	7.9	2.86	482
April 29				3.6	58.5	7.5	2.89	491
May 23				3.4	58.4	7.7	2.88	512
June 10				3.0	58.0	8.1	2.86	471
April 29		NK Brand	N32-L9	3.6	58.3	7.5	2.90	478
April 29		NK Brand	N50-P5	3.6	58.7	7.4	2.87	504
May 23		NK Brand	N32-L9	3.5	58.2	7.7	2.89	525
May 23		NK Brand	N50-P5	3.4	58.5	7.7	2.87	500
June 10		NK Brand	N32-L9	3.0	58.1	8.1	2.89	493
June 10		NK Brand	N50-P5	3.0	58.0	8.2	2.84	449
April 29	15 inches			3.6	58.6	7.4	2.89	466
April 29	30 inches			3.6	58.4	7.5	2.89	515
May 23	15 inches			3.5	58.5	7.7	2.88	517
May 23	30 inches			3.4	58.2	7.8	2.87	508
June 10	15 inches			3.1	58.1	8.0	2.87	479
June 10	30 inches			2.9	57.9	8.2	2.86	463
April 29	15 inches	NK Brand	N32-L9	3.7	58.4	7.5	2.91	447
April 29	15 inches	NK Brand	N50-P5	3.6	58.9	7.4	2.87	485
April 29	30 inches	NK Brand	N32-L9	3.6	58.3	7.6	2.90	508
April 29	30 inches	NK Brand	N50-P5	3.7	58.6	7.4	2.88	522
May 23	15 inches	NK Brand	N32-L9	3.5	58.2	7.7	2.89	525
May 23	15 inches	NK Brand	N50-P5	3.4	58.9	7.6	2.88	509
May 23	30 inches	NK Brand	N32-L9	3.5	58.3	7.7	2.88	525
May 23	30 inches	NK Brand	N50-P5	3.3	58.1	7.8	2.86	492
June 10	15 inches	NK Brand	N32-L9	3.0	58.0	8.0	2.89	492
June 10	15 inches	NK Brand	N50-P5	3.2	58.2	8.0	2.84	466
June 10	30 inches	NK Brand	N32-L9	2.9	58.2	8.1	2.89	494
June 10	30 inches	NK Brand	N50-P5	2.9	57.7	8.3	2.83	433
Mean				3.3	58.3	7.8	2.88	491
<b>Probability(%)</b>								
Planting Date (D)				0.1	2.3	0.1	1.7	37.8
Row Spacing (R)				2.6	5.3	6.4	14.1	33.4
Hybrid (H)				31.2	12.2	96.9	0.0	9.7
R x D				9.3	87.4	77.5	67.1	0.6
R x H				63.7	2.7	36.6	80.9	12.9
D x H				5.1	18.6	26.3	0.8	0.6
R x D x H				4.7	52.7	47.2	27.8	90.1
<b>LSD (0.10)</b>								
Planting Date (D)				0.2	0.3	0.2	0.04	NS
Row Spacing (R)				0.1	0.2	0.1	NS	NS
Hybrid (H)				NS	NS	NS	0.01	14
R x D				0.1	NS	NS	NS	24
R x H				NS	0.3	NS	NS	NS
D x H				0.1	NS	NS	0.01	24
R x D x H				0.1	NS	NS	NS	NS
<b>CV(%)</b>				3	1	3	0	6

**Table C-44. 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
<b>Probability(%)</b>							
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
<b>LSD (0.10)</b>							
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
<b>CV(%)</b>							
			2	0	3	1	6