

## FIELD EXPERIMENT HISTORY

**Title:** Corn Cropping Systems  
**Experiment:** 19 Corn Cropping Systems      **Trial ID:** 2935      **Year:** 2006  
**Personnel:** J. G. Lauer, K.D. Kohn, P.J. Flannery  
**Location:** Arlington, WI      **County:** Columbia  
**Supported By:** HATCH

### Site Information

**Field:** ARS413      **Previous Crop:** Corn      **Soil Type:** Plano Silt Loam  
**Soil Test:**      **Date:** 11/1 /06      **pH** 7.1      **OM (%)** 3.7      **P (ppm)** 39      **K (ppm)** 113

### Plot Management

**Tillage Operations:** Chisel Plow      Field Cultivator      Cultivated 6/19/06  

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
<b>Fertilizer:</b> <b>Preplant :</b>	46-0-0	325 lbs/A	4 /20/06
<b>Starter :</b>	9-23-30	150 lbs/A	4 /27/06
<b>Post plant :</b>	34-0-0	175 lbs/A	6 /19/06
<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Outlook 20 oz/A      **Insecticide:** See Factors  
                   Hornet 4.0 oz/A  
                   Callisto 3.0 oz/A  
**Irrigation:** None      **Hybrid:** See Factors  
**Planting Date:** 4/27/06      **Planting Depth:** 1.5"      **Row Width:** 30"  
**Target Plant Density:** See Factors      **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 10/17/06      **Harvest Method:** Massey Ferguson 8XP  
**Notes:** Seeds planted: 30,000 target density = 41184 planted; 45,000 target density = 60984 planted

### Experimental Design

**Design:** RCB      **Replications:** 1  
**Plot Size Seeded:** 10' x 25'      **Experiment Size:** 0.95 Acre  
**Harvest Plot Size:** 5' x 22'      **Harvest Plant Density:** 34359

### Factors/Treatments:

<u>Hybrids:</u>	<u>Plant Density:</u>	<u>Nitrogen Rate:</u>
Dekalb DKC58-78(YGCB)	30000	160
NK Brand N58-D1	45000	220

  

<u>Seed Strobilurins:</u>	<u>Seed Insecticide:</u>	<u>Leaf Fungicide:</u>
Untreated Check	Untreated Check	Untreated Check
Dynasty (azoxystrobin)	Poncho 1250 (clothianidin)	Headline (pyraclostrobin) at V12
		Headline at V18
		Headline at V12 and V18

**Results: Table C-72.**

**Table C-72. Corn Cropping Systems.  
Arlington, WI - 2006.**

Brand	Hybrid	Target density plants/A	Nitrogen rate	Seed strobilurins	Seed insecticide	Fungicide Timing	Yield	Moisture	Test Weight	Lodged Stalk	Grower Return	Harvest plants	Plants emerged
							bu/A	%	lbs/bu	%	\$/A	plants/A	plants/A
						UTC	227	28.0	52.3	4	661	34761	41320
						HeadlineV12	225	28.2	52.2	4	653	34192	41085
						HeadlineV18	227	28.6	52.7	3	659	35306	41914
						HeadlineV12V18	229	28.1	51.9	3	667	33177	40689
						UTC	222	28.2	51.9	3	645	32986	36389
						Poncho1250	232	28.2	52.7	4	675	35733	46115
						UTC	222	28.3	52.7	3	645	33140	36605
						UTC HeadlineV12	215	28.0	51.4	5	624	32794	36581
						UTC HeadlineV18	224	28.9	52.7	3	648	34081	37323
						UTC HeadlineV12V18	227	27.6	50.7	3	662	31928	35046
						Poncho1250 UTC	232	27.6	52.0	5	676	36383	46035
						Poncho1250 HeadlineV12	235	28.4	53.0	3	683	35591	45590
						Poncho1250 HeadlineV18	231	28.2	52.7	4	670	36531	46505
						Poncho1250 HeadlineV12V18	231	28.6	53.1	4	671	34427	46332
						UTC	226	28.3	52.3	4	655	33901	41500
						Dynasty	229	28.2	52.2	3	664	34817	41005
						UTC	225	28.5	52.9	4	652	34304	42050
						UTC HeadlineV12	225	28.5	53.0	5	652	34130	41308
						UTC HeadlineV18	223	28.4	52.5	3	645	34749	41555
						UTC HeadlineV12V18	231	27.6	51.0	3	673	32423	41085
						Dynasty UTC	229	27.4	51.8	3	669	35219	40590
						Dynasty HeadlineV12	225	27.9	51.4	3	655	34254	40862
						Dynasty HeadlineV18	232	28.7	52.9	3	673	35863	42273
						Dynasty HeadlineV12V18	228	28.6	52.8	3	661	33932	40293
						UTC	223	28.2	51.8	4	647	32621	36568
						UTC Poncho1250	229	28.3	52.9	3	664	35182	46431
						Dynasty UTC	221	28.2	52.0	2	643	33351	36209
						Dynasty Poncho1250	236	28.1	52.5	4	686	36284	45800
						UTC	220	28.6	52.7	3	639	32621	36680
						UTC	219	28.6	52.9	7	633	32670	36333
						UTC	222	28.8	52.6	3	644	33413	37571
						UTC	229	26.7	48.9	3	670	31779	35690
						UTC	229	28.5	53.0	5	666	35987	47421
						UTC	231	28.3	53.1	3	670	35591	46283
						UTC	223	28.1	52.5	3	647	36086	45540
						UTC	233	28.5	53.1	3	675	33066	46481
						Dynasty UTC	224	28.0	52.6	2	651	33660	36531
						Dynasty UTC	211	27.3	49.9	4	616	32918	36828
						Dynasty UTC	225	28.9	52.9	2	651	34749	37076
						Dynasty UTC	226	28.5	52.6	2	655	32076	34403
						Dynasty Poncho1250 UTC	234	26.8	51.0	5	687	36779	44649
						Dynasty Poncho1250 HeadlineV12	240	28.5	52.9	2	695	35591	44897
						Dynasty Poncho1250 HeadlineV18	239	28.4	52.9	5	694	36977	47471
						Dynasty Poncho1250 HeadlineV12V18	230	28.7	53.1	5	667	35789	46184
		160					226	28.3	52.2	4	658	34285	41469
		220					228	28.1	52.4	4	662	34433	41036
		160				UTC	226	28.0	52.0	5	657	34155	41382
		160				HeadlineV12	223	27.9	51.4	2	648	33982	40664
		160				HeadlineV18	231	28.5	52.5	4	669	35269	42026
		160				HeadlineV12V18	227	28.7	52.7	4	657	33734	41803
		220				UTC	228	28.0	52.7	3	664	35368	41258
		220				HeadlineV12	227	28.5	52.9	6	659	34403	41506
		220				HeadlineV18	224	28.6	52.9	3	649	35343	41803
		220				HeadlineV12V18	232	27.5	51.1	3	677	32621	39575
		160				UTC	222	28.3	52.0	3	644	32856	36605
		160				Poncho1250	231	28.3	52.4	5	672	35714	46332
		220				UTC	222	28.1	51.8	4	646	33116	36172
		220				Poncho1250	233	28.2	53.0	3	678	35751	45899
		160				UTC	225	28.5	52.8	3	654	32621	35987
		160				UTC HeadlineV12	212	27.1	49.9	2	619	32076	36234
		160				UTC HeadlineV18	222	28.8	52.5	3	643	33710	37472
		160				UTC HeadlineV12V18	228	28.8	52.6	3	660	33017	36729
		160				Poncho1250 UTC	226	27.5	51.1	6	661	35690	46778
		160				Poncho1250 HeadlineV12	234	28.7	53.0	2	677	35888	45095
		160				Poncho1250 HeadlineV18	239	28.3	52.5	5	695	36828	46580
		160				Poncho1250 HeadlineV12V18	226	28.7	52.9	6	654	34452	46877
		220				UTC	219	28.2	52.5	2	636	33660	37224
		220				UTC HeadlineV12	217	28.8	52.8	9	629	33512	36927
		220				UTC HeadlineV18	226	29.0	52.9	2	652	34452	37175
		220				UTC HeadlineV12V18	227	26.5	48.9	2	665	30839	33363

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Table C-72. Corn Cropping Systems.

(continued)

Arlington, WI - 2006.

Brand	Hybrid	Target density plants/A	Nitrogen rate	Seed strobilurins	Seed insecticide	Fungicide Timing	Yield bu/A	Moisture %	Test Weight lbs/bu	Lodged Stalk %	Grower Return \$/A	Harvest plants plants/A	Plants emerged plants/A
		220			Poncho1250	UTC	237	27.8	52.9	3	691	37076	45293
		220			Poncho1250	HeadlineV12	237	28.2	53.0	3	688	35294	46085
		220			Poncho1250	HeadlineV18	222	28.2	52.8	3	646	36234	46431
		220			Poncho1250	HeadlineV12V18	237	28.5	53.3	3	688	34403	45788
		160		UTC			226	28.7	52.7	3	654	33685	41803
		160		Dynasty			227	27.9	51.6	4	661	34885	41135
		220		UTC			225	27.8	52.0	4	656	34118	41196
		220		Dynasty			230	28.5	52.8	3	668	34749	40875
		160		UTC		UTC	223	28.8	52.9	4	646	32918	41531
		160		UTC		HeadlineV12	225	28.5	53.0	1	652	34205	41531
		160		UTC		HeadlineV18	231	28.7	52.4	3	668	34304	41679
		160		UTC		HeadlineV12V18	226	28.9	52.7	4	653	33314	42471
		160		Dynasty		UTC	228	27.1	51.1	5	669	35393	41234
		160		Dynasty		HeadlineV12	221	27.3	49.9	2	645	33759	39798
		160		Dynasty		HeadlineV18	231	28.4	52.7	4	670	36234	42372
		160		Dynasty		HeadlineV12V18	228	28.6	52.8	4	661	34155	41135
		220		UTC		UTC	227	28.3	52.8	4	659	35690	42570
		220		UTC		HeadlineV12	225	28.4	53.0	8	652	34056	41085
		220		UTC		HeadlineV18	215	28.2	52.7	3	623	35195	41432
		220		UTC		HeadlineV12V18	236	26.3	49.4	3	692	31532	39699
		220		Dynasty		UTC	229	27.7	52.5	1	669	35046	39947
		220		Dynasty		HeadlineV12	230	28.6	52.8	4	665	34749	41927
		220		Dynasty		HeadlineV18	233	29.0	53.0	3	675	35492	42174
		220		Dynasty		HeadlineV12V18	228	28.6	52.9	3	661	33710	39452
		160		UTC	UTC		222	28.9	52.6	3	642	32472	37026
		160		UTC	Poncho1250		230	28.5	52.8	4	667	34898	46580
		160		Dynasty	UTC		222	27.6	51.3	2	646	33239	36185
		160		Dynasty	Poncho1250		232	28.1	52.0	6	676	36531	46085
		220		UTC	UTC		223	27.4	50.9	5	651	32769	36110
		220		UTC	Poncho1250		228	28.2	53.0	3	662	35467	46283
		220		Dynasty	UTC		221	28.8	52.7	2	641	33462	36234
		220		Dynasty	Poncho1250		239	28.1	53.0	3	695	36036	45515
		30000					218	27.4	51.9	2	636	27949	33598
		45000					237	29.0	52.7	5	684	40769	48906
		30000				UTC	220	27.4	52.2	2	643	27992	33883
		30000				HeadlineV12	215	27.4	51.6	4	629	27893	33437
		30000				HeadlineV18	212	28.0	52.6	1	618	28413	34279
		30000				HeadlineV12V18	223	27.0	51.1	2	653	27497	32794
		45000				UTC	234	28.6	52.5	5	678	41531	48758
		45000				HeadlineV12	234	29.0	52.8	4	678	40491	48733
		45000				HeadlineV18	242	29.1	52.7	6	700	42199	49550
		45000				HeadlineV12V18	236	29.2	52.8	5	681	38858	48584
		30000			UTC		212	27.3	51.1	3	619	26730	28747
		30000			Poncho1250		224	27.6	52.7	2	653	29168	38449
		45000			UTC		232	29.1	52.7	4	671	39241	44030
		45000			Poncho1250		241	28.8	52.7	6	697	42298	53782
		30000			UTC	UTC	212	28.1	53.0	2	616	26532	29354
		30000			UTC	HeadlineV12	204	26.7	49.9	7	600	26681	28661
		30000			UTC	HeadlineV18	213	28.3	52.6	0	619	27869	29502
		30000			UTC	HeadlineV12V18	218	26.0	48.8	2	641	25839	27473
		30000			Poncho1250	UTC	228	26.7	51.3	2	669	29453	38412
		30000			Poncho1250	HeadlineV12	226	28.0	53.3	2	659	29106	38214
		30000			Poncho1250	HeadlineV18	212	27.8	52.7	1	617	28958	39056
		30000			Poncho1250	HeadlineV12V18	229	28.0	53.3	2	665	29156	38115
		45000			UTC	UTC	232	28.6	52.3	3	674	39749	43857
		45000			UTC	HeadlineV12	225	29.2	52.9	4	649	38907	44501
		45000			UTC	HeadlineV18	235	29.5	52.8	5	676	40293	45144
		45000			UTC	HeadlineV12V18	237	29.2	52.7	3	684	38016	42620
		45000			Poncho1250	UTC	236	28.6	52.6	8	683	43313	53658
		45000			Poncho1250	HeadlineV12	244	28.8	52.7	3	706	42075	52965
		45000			Poncho1250	HeadlineV18	250	28.7	52.7	6	724	44105	53955
		45000			Poncho1250	HeadlineV12V18	234	29.2	52.9	7	677	39699	54549
		30000		UTC			216	27.5	52.0	3	629	27683	33326
		30000		Dynasty			220	27.4	51.7	1	642	28215	33870
		45000		UTC			236	29.0	52.7	4	682	40120	49673
		45000		Dynasty			237	28.9	52.7	5	687	41419	48139
		30000		UTC		UTC	218	28.3	53.1	3	632	27770	34601
		30000		UTC		HeadlineV12	212	28.2	53.0	6	617	27819	32868
		30000		UTC		HeadlineV18	202	27.7	52.5	1	588	27918	33809
		30000		UTC		HeadlineV12V18	231	25.8	49.3	3	680	27225	32027

continued

**Table C-72. Corn Cropping Systems.**

(continued)

**Arlington, WI - 2006.**

Brand	Hybrid	Target density plants/A	Nitrogen rate	Seed strobilurins	Seed insecticide	Fungicide Timing	Yield bu/A	Moisture %	Test Weight lbs/bu	Lodged Stalk %	Grower Return \$/A	Harvest plants plants/A	Plants emerged plants/A
		30000		Dynasty		UTC	222	26.4	51.2	2	653	28215	33165
		30000		Dynasty		HeadlineV12	219	26.5	50.1	3	642	27968	34007
		30000		Dynasty		HeadlineV18	223	28.3	52.8	1	648	28908	34749
		30000		Dynasty		HeadlineV12V18	215	28.3	52.8	1	626	27770	33561
		45000		UTC		UTC	232	28.7	52.6	6	672	40838	49500
		45000		UTC		HeadlineV12	237	28.7	53.0	3	687	40442	49748
		45000		UTC		HeadlineV18	243	29.2	52.6	5	703	41580	49302
		45000		UTC		HeadlineV12V18	231	29.4	52.7	4	665	37620	50144
		45000		Dynasty		UTC	236	28.4	52.4	5	685	42224	48015
		45000		Dynasty		HeadlineV12	232	29.3	52.6	4	668	40541	47718
		45000		Dynasty		HeadlineV18	241	29.0	52.9	6	697	42818	49797
		45000		Dynasty		HeadlineV12V18	241	29.0	52.8	6	696	40095	47025
		30000		UTC	UTC		213	27.1	50.9	5	624	26804	28685
		30000		UTC	Poncho1250		218	27.9	53.1	1	635	28562	37967
		30000		Dynasty	UTC		210	27.4	51.3	1	614	26656	28809
		30000		Dynasty	Poncho1250		229	27.3	52.2	2	670	29774	38932
		45000		UTC	UTC		232	29.3	52.7	4	669	38437	44451
		45000		UTC	Poncho1250		240	28.7	52.7	5	694	41803	54896
		45000		Dynasty	UTC		233	29.0	52.6	4	672	40046	43610
		45000		Dynasty	Poncho1250		242	28.9	52.7	6	701	42793	52668
		30000	160				218	27.5	51.8	2	637	27757	33635
		30000	220				217	27.4	52.0	2	635	28141	33561
		45000	160				235	29.1	52.6	5	679	40813	49302
		45000	220				238	28.9	52.8	5	690	40726	48510
		30000	160			UTC	218	27.2	51.4	3	638	27621	34254
		30000	160			HeadlineV12	212	26.5	50.3	2	622	27324	32324
		30000	160			HeadlineV18	221	28.2	52.6	1	644	28265	33957
		30000	160			HeadlineV12V18	221	28.2	52.9	2	644	27819	34007
		30000	220			UTC	222	27.5	53.0	1	648	28364	33512
		30000	220			HeadlineV12	219	28.3	52.9	7	637	28463	34551
		30000	220			HeadlineV18	203	27.9	52.7	0	592	28562	34601
		30000	220			HeadlineV12V18	225	25.8	49.3	1	662	27176	31581
		45000	160			UTC	234	28.7	52.6	6	677	40689	48510
		45000	160			HeadlineV12	234	29.3	52.6	1	675	40640	49005
		45000	160			HeadlineV18	240	28.9	52.5	6	694	42273	50094
		45000	160			HeadlineV12V18	232	29.3	52.6	6	670	39650	49599
		45000	220			UTC	234	28.4	52.4	4	680	42372	49005
		45000	220			HeadlineV12	235	28.7	52.9	6	680	40343	48461
		45000	220			HeadlineV18	245	29.2	53.0	5	707	42125	49005
		45000	220			HeadlineV12V18	239	29.1	53.0	4	691	38066	47570
		30000	160		UTC		209	27.4	51.3	2	611	26260	28339
		30000	160		Poncho1250		227	27.6	52.2	3	663	29255	38932
		30000	220		UTC		214	27.2	50.8	4	627	27200	29156
		30000	220		Poncho1250		220	27.6	53.1	1	642	29081	37967
		45000	160		UTC		235	29.2	52.6	3	677	39452	44872
		45000	160		Poncho1250		235	29.0	52.5	6	681	42174	53732
		45000	220		UTC		230	29.1	52.7	4	665	39031	43189
		45000	220		Poncho1250		247	28.7	52.9	6	714	42422	53831
		30000	160	UTC			217	28.4	52.9	3	629	27374	33190
		30000	160	Dynasty			219	26.7	50.7	2	644	28141	34081
		30000	220	UTC			215	26.7	51.1	4	629	27992	33462
		30000	220	Dynasty			220	28.1	52.8	1	640	28289	33660
		45000	160	UTC			235	29.1	52.6	4	680	39996	50416
		45000	160	Dynasty			235	29.1	52.5	6	678	41630	48188
		45000	220	UTC			236	28.9	52.8	5	684	40244	48931
		45000	220	Dynasty			240	28.8	52.8	5	696	41209	48089
Dekalb	DKC58-78(YGCB)						233	27.5	52.3	2	679	33858	40670
NK Brand	N58-D1						222	28.9	52.2	5	641	34860	41834
Dekalb	DKC58-78(YGCB)					UTC	231	27.2	52.5	2	677	34625	41729
Dekalb	DKC58-78(YGCB)					HeadlineV12	230	27.1	51.5	4	673	33611	40367
Dekalb	DKC58-78(YGCB)					HeadlineV18	236	27.8	52.7	2	687	35120	40838
Dekalb	DKC58-78(YGCB)					HeadlineV12V18	233	27.8	52.7	1	680	32076	39749
NK Brand	N58-D1					UTC	222	28.7	52.2	5	644	34898	40912
NK Brand	N58-D1					HeadlineV12	220	29.3	52.9	4	634	34774	41803
NK Brand	N58-D1					HeadlineV18	219	29.3	52.7	4	631	35492	42991
NK Brand	N58-D1					HeadlineV12V18	226	28.4	51.1	6	654	34279	41630
Dekalb	DKC58-78(YGCB)				UTC		222	27.6	51.9	3	648	31284	33227
Dekalb	DKC58-78(YGCB)				Poncho1250		243	27.3	52.8	2	710	36432	48114
NK Brand	N58-D1				UTC		222	28.8	51.9	4	641	34687	39551
NK Brand	N58-D1				Poncho1250		222	29.1	52.6	6	640	35034	44117

continued

**Table C-72. Corn Cropping Systems.**

(continued)

**Arlington, WI - 2006.**

Brand	Hybrid	Target density plants/A	Nitrogen rate	Seed strobilurins	Seed insecticide	Fungicide Timing	Yield		Test Weight	Lodged Stalk %	Grower Return \$/A	Harvest plants/A	Plants emerged/A
							bu/A	%					
Dekalb	DKC58-78(YGCB)				UTC	UTC	224	27.5	52.4	3	653	31581	34947
Dekalb	DKC58-78(YGCB)				UTC	HeadlineV12	216	26.9	49.9	6	632	31037	33116
Dekalb	DKC58-78(YGCB)				UTC	HeadlineV18	226	28.0	52.7	3	656	33066	33314
Dekalb	DKC58-78(YGCB)				UTC	HeadlineV12V18	224	28.1	52.5	1	653	29453	31532
Dekalb	DKC58-78(YGCB)				Poncho1250	UTC	239	27.0	52.6	1	701	37670	48510
Dekalb	DKC58-78(YGCB)				Poncho1250	HeadlineV12	244	27.2	53.0	2	714	36185	47619
Dekalb	DKC58-78(YGCB)				Poncho1250	HeadlineV18	246	27.6	52.7	2	717	37175	48362
Dekalb	DKC58-78(YGCB)				Poncho1250	HeadlineV12V18	242	27.6	52.9	1	707	34700	47966
NK Brand	N58-D1				UTC	UTC	221	29.2	52.9	3	637	34700	38264
NK Brand	N58-D1				UTC	HeadlineV12	214	29.0	52.8	5	617	34551	40046
NK Brand	N58-D1				UTC	HeadlineV18	222	29.7	52.8	3	639	35096	41333
NK Brand	N58-D1				UTC	HeadlineV12V18	230	27.2	49.0	4	672	34403	38561
NK Brand	N58-D1				Poncho1250	UTC	224	28.2	51.4	8	651	35096	43560
NK Brand	N58-D1				Poncho1250	HeadlineV12	226	29.7	53.0	4	651	34997	43560
NK Brand	N58-D1				Poncho1250	HeadlineV18	216	28.9	52.6	5	623	35888	44649
NK Brand	N58-D1				Poncho1250	HeadlineV12V18	221	29.7	53.3	7	635	34155	44699
Dekalb	DKC58-78(YGCB)			UTC			233	27.6	52.7	3	679	33215	41023
Dekalb	DKC58-78(YGCB)			Dynasty			232	27.3	52.0	2	679	34502	40318
NK Brand	N58-D1			UTC			219	28.9	52.0	5	632	34588	41976
NK Brand	N58-D1			Dynasty			225	29.0	52.5	5	650	35133	41691
Dekalb	DKC58-78(YGCB)			UTC		UTC	232	27.3	52.7	2	679	33215	41184
Dekalb	DKC58-78(YGCB)			UTC		HeadlineV12	232	27.5	53.0	6	677	33809	41679
Dekalb	DKC58-78(YGCB)			UTC		HeadlineV18	235	27.9	52.4	3	686	34650	41135
Dekalb	DKC58-78(YGCB)			UTC		HeadlineV12V18	232	27.8	52.7	1	676	31185	40095
Dekalb	DKC58-78(YGCB)			Dynasty		UTC	231	27.1	52.2	2	675	36036	42273
Dekalb	DKC58-78(YGCB)			Dynasty		HeadlineV12	228	26.6	49.9	1	669	33413	39056
Dekalb	DKC58-78(YGCB)			Dynasty		HeadlineV18	236	27.7	52.9	2	688	35591	40541
Dekalb	DKC58-78(YGCB)			Dynasty		HeadlineV12V18	235	27.8	52.8	2	684	32967	39402
NK Brand	N58-D1			UTC		UTC	218	29.7	53.0	6	626	35393	42917
NK Brand	N58-D1			UTC		HeadlineV12	218	29.4	53.0	3	627	34452	40937
NK Brand	N58-D1			UTC		HeadlineV18	210	29.0	52.6	3	605	34848	41976
NK Brand	N58-D1			UTC		HeadlineV12V18	230	27.4	49.4	6	669	33660	42075
NK Brand	N58-D1			Dynasty		UTC	227	27.7	51.3	4	663	34403	38907
NK Brand	N58-D1			Dynasty		HeadlineV12	222	29.2	52.8	5	641	35096	42669
NK Brand	N58-D1			Dynasty		HeadlineV18	228	29.6	52.8	5	658	36135	44006
NK Brand	N58-D1			Dynasty		HeadlineV12V18	221	29.5	52.9	5	638	34898	41184
Dekalb	DKC58-78(YGCB)			UTC	UTC		224	27.8	52.7	5	654	30863	33809
Dekalb	DKC58-78(YGCB)			UTC	Poncho1250		241	27.4	52.8	1	705	35566	48238
Dekalb	DKC58-78(YGCB)			Dynasty	UTC		220	27.4	51.1	1	643	31705	32645
Dekalb	DKC58-78(YGCB)			Dynasty	Poncho1250		244	27.3	52.8	2	715	37298	47990
NK Brand	N58-D1			UTC			221	28.5	50.9	4	639	34378	39328
NK Brand	N58-D1			UTC	Poncho1250		216	29.3	53.1	6	624	34799	44624
NK Brand	N58-D1			Dynasty	UTC		223	29.0	52.8	3	643	34997	39773
NK Brand	N58-D1			Dynasty	Poncho1250		227	29.0	52.1	7	656	35269	43610
Dekalb	DKC58-78(YGCB)	160					230	27.5	51.9	2	672	34031	41122
Dekalb	DKC58-78(YGCB)	220					235	27.5	52.8	3	686	33685	40219
NK Brand	N58-D1	160					223	29.1	52.4	5	644	34539	41815
NK Brand	N58-D1	220					221	28.8	52.0	4	638	35182	41852
Dekalb	DKC58-78(YGCB)	160				UTC	232	27.5	52.6	2	679	34155	41333
Dekalb	DKC58-78(YGCB)	160				HeadlineV12	225	26.6	50.1	1	661	33561	40244
Dekalb	DKC58-78(YGCB)	160				HeadlineV18	232	27.9	52.4	3	677	35640	41481
Dekalb	DKC58-78(YGCB)	160				HeadlineV12V18	231	28.0	52.5	1	671	32769	41432
Dekalb	DKC58-78(YGCB)	220				UTC	230	26.9	52.4	1	675	35096	42125
Dekalb	DKC58-78(YGCB)	220				HeadlineV12	235	27.6	52.9	7	685	33660	40491
Dekalb	DKC58-78(YGCB)	220				HeadlineV18	239	27.8	53.0	2	697	34601	40194
Dekalb	DKC58-78(YGCB)	220				HeadlineV12V18	236	27.6	52.9	1	688	31383	38066
NK Brand	N58-D1	160				UTC	219	28.4	51.4	7	636	34155	41432
NK Brand	N58-D1	160				HeadlineV12	220	29.2	52.8	3	636	34403	41085
NK Brand	N58-D1	160				HeadlineV18	229	29.2	52.6	4	661	34898	42570
NK Brand	N58-D1	160				HeadlineV12V18	223	29.5	52.9	7	642	34700	42174
NK Brand	N58-D1	220				UTC	226	29.0	53.0	4	653	35640	40392
NK Brand	N58-D1	220				HeadlineV12	220	29.4	53.0	6	632	35145	42521
NK Brand	N58-D1	220				HeadlineV18	209	29.4	52.8	4	602	36086	43412
NK Brand	N58-D1	220				HeadlineV12V18	228	27.4	49.3	4	665	33858	41085

continued

**Table C-72. Corn Cropping Systems.**

(continued)

**Arlington, WI - 2006.**

Brand	Hybrid	Target density plants/A	Nitrogen rate	Seed strobilurins	Seed insecticide	Fungicide Timing	Yield bu/A	Moisture %	Test Weight lbs/bu	Lodged Stalk %	Grower Return \$/A	Harvest plants plants/A	Plants emerged plants/A
Dekalb	DKC58-78(YGCB)		160		UTC		221	27.4	51.2	2	644	31631	34106
Dekalb	DKC58-78(YGCB)		160		Poncho1250		240	27.6	52.6	2	700	36432	48139
Dekalb	DKC58-78(YGCB)		220		UTC		224	27.8	52.6	4	653	30938	32348
Dekalb	DKC58-78(YGCB)		220		Poncho1250		246	27.1	53.0	1	720	36432	48089
NK Brand	N58-D1		160		UTC		223	29.1	52.7	4	644	34081	39105
NK Brand	N58-D1		160		Poncho1250		223	29.0	52.1	7	644	34997	44525
NK Brand	N58-D1		220		UTC		220	28.4	51.0	4	639	35294	39996
NK Brand	N58-D1		220		Poncho1250		221	29.2	53.0	5	637	35071	43709
Dekalb	DKC58-78(YGCB)		160	UTC			230	27.9	52.6	2	669	33140	41803
Dekalb	DKC58-78(YGCB)		160	Dynasty			230	27.1	51.2	2	674	34922	40442
Dekalb	DKC58-78(YGCB)		220	UTC			236	27.3	52.9	4	689	33289	40244
Dekalb	DKC58-78(YGCB)		220	Dynasty			234	27.6	52.7	2	683	34081	40194
NK Brand	N58-D1		160	UTC			222	29.5	52.9	5	640	34229	41803
NK Brand	N58-D1		160	Dynasty			224	28.6	52.0	6	648	34848	41828
NK Brand	N58-D1		220	UTC			215	28.3	51.1	5	624	34947	42149
NK Brand	N58-D1		220	Dynasty			226	29.3	52.9	4	652	35417	41555
Dekalb	DKC58-78(YGCB)	30000					224	26.8	52.1	3	658	27435	32979
Dekalb	DKC58-78(YGCB)	45000					241	28.1	52.6	2	701	40281	48362
NK Brand	N58-D1	30000					211	28.0	51.6	2	614	28463	34217
NK Brand	N58-D1	45000					232	29.8	52.8	8	668	41258	49451
Dekalb	DKC58-78(YGCB)	30000				UTC	224	26.8	52.8	2	658	27918	33858
Dekalb	DKC58-78(YGCB)	30000				HeadlineV12	222	26.1	50.2	7	655	27572	33413
Dekalb	DKC58-78(YGCB)	30000				HeadlineV18	225	27.3	52.7	1	658	27275	32670
Dekalb	DKC58-78(YGCB)	30000				HeadlineV12V18	226	27.2	52.8	1	660	26978	31977
Dekalb	DKC58-78(YGCB)	45000				UTC	239	27.7	52.2	2	696	41333	49599
Dekalb	DKC58-78(YGCB)	45000				HeadlineV12	237	28.0	52.7	1	691	39650	47322
Dekalb	DKC58-78(YGCB)	45000				HeadlineV18	246	28.3	52.7	4	716	42966	49005
Dekalb	DKC58-78(YGCB)	45000				HeadlineV12V18	241	28.4	52.7	1	699	37175	47520
NK Brand	N58-D1	30000				UTC	215	27.9	51.5	2	628	28067	33908
NK Brand	N58-D1	30000				HeadlineV12	208	28.6	52.9	2	604	28215	33462
NK Brand	N58-D1	30000				HeadlineV18	200	28.8	52.6	0	578	29552	35888
NK Brand	N58-D1	30000				HeadlineV12V18	221	26.9	49.3	3	646	28017	33611
NK Brand	N58-D1	45000				UTC	229	29.5	52.8	9	661	41729	47916
NK Brand	N58-D1	45000				HeadlineV12	231	30.0	52.9	6	664	41333	50144
NK Brand	N58-D1	45000				HeadlineV18	238	29.9	52.8	8	684	41432	50094
NK Brand	N58-D1	45000				HeadlineV12V18	230	30.0	52.9	9	662	40541	49649
Dekalb	DKC58-78(YGCB)	30000		UTC			211	26.7	51.2	4	619	25319	25889
Dekalb	DKC58-78(YGCB)	30000		Poncho1250			237	27.0	53.1	2	696	29552	40070
Dekalb	DKC58-78(YGCB)	45000		UTC			234	28.5	52.6	2	678	37249	40565
Dekalb	DKC58-78(YGCB)	45000		Poncho1250			248	27.7	52.6	2	724	43313	56158
NK Brand	N58-D1	30000		UTC			212	27.8	50.9	2	619	28141	31606
NK Brand	N58-D1	30000		Poncho1250			210	28.3	52.3	2	609	28784	36828
NK Brand	N58-D1	45000		UTC			231	29.7	52.8	5	664	41234	47495
NK Brand	N58-D1	45000		Poncho1250			234	29.9	52.9	10	671	41283	51406
Dekalb	DKC58-78(YGCB)	30000		UTC			226	27.2	52.8	4	661	27126	32596
Dekalb	DKC58-78(YGCB)	30000		Dynasty			223	26.5	51.4	1	655	27745	33363
Dekalb	DKC58-78(YGCB)	45000		UTC			240	28.1	52.6	1	698	39303	49451
Dekalb	DKC58-78(YGCB)	45000		Dynasty			242	28.1	52.5	2	703	41258	47273
NK Brand	N58-D1	30000		UTC			206	27.9	51.1	2	598	28240	34056
NK Brand	N58-D1	30000		Dynasty			217	28.2	52.1	2	630	28685	34378
NK Brand	N58-D1	45000		UTC			232	29.9	52.8	7	665	40937	49896
NK Brand	N58-D1	45000		Dynasty			233	29.7	52.9	8	670	41580	49005
Dekalb	DKC58-78(YGCB)	30000	160				222	26.5	51.5	2	653	27101	32249
Dekalb	DKC58-78(YGCB)	30000	220				226	27.2	52.8	4	662	27770	33710
Dekalb	DKC58-78(YGCB)	45000	160				238	28.5	52.3	2	691	40961	49995
Dekalb	DKC58-78(YGCB)	45000	220				244	27.8	52.8	2	710	39600	46728
NK Brand	N58-D1	30000	160				214	28.5	52.0	3	621	28413	35021
NK Brand	N58-D1	30000	220				208	27.6	51.2	1	607	28512	33413
NK Brand	N58-D1	45000	160				232	29.7	52.8	8	667	40664	48609
NK Brand	N58-D1	45000	220				233	30.0	52.9	8	669	41852	50292
Mean							227	28.2	52.3	4	660	34359	41252

continued

**Table C-72. Corn Cropping Systems.**

(continued) **Arlington, WI - 2006.**

	Yield	Moisture	Test Weight	Lodged Stalk	Grower Return	Harvest plants	Plants emerged
Probability(%)	bu/A	%	lbs/bu	%	\$/A	plants/A	plants/A
Hybrid (H)	0.6	0.0	84.2	2.6	0.2	2.9	5.1
Plant Density (D)	0.0	0.0	18.2	3.5	0.0	0.0	0.0
H x D	54.7	48.9	51.9	0.5	63.5	95.6	98.9
Nitrogen Rate (N)	73.5	68.5	71.0	98.2	70.9	74.0	46.1
H x N	36.8	76.5	29.3	38.9	38.5	27.1	42.4
D x N	58.4	91.2	95.8	95.4	58.3	60.0	54.1
H x D x N	73.3	11.3	49.0	51.8	90.7	8.6	0.1
Seed Strobilurins (S)	45.7	78.4	82.6	64.6	44.2	4.5	40.0
H x S	37.6	61.5	32.2	58.3	41.8	40.8	72.0
D x S	75.1	91.8	84.9	27.2	73.9	39.3	8.0
H x D x S	34.8	37.5	36.8	58.4	41.8	52.5	46.1
N x S	63.2	5.2	12.1	32.2	84.1	52.5	76.8
H x N x S	43.9	57.5	55.2	74.4	49.8	63.9	41.2
D x N x S	90.4	3.9	12.8	93.6	69.2	91.2	37.7
Seed Insecticide (I)	1.0	94.4	18.6	62.7	1.2	0.0	0.0
H x I	1.0	41.6	87.7	9.8	0.9	0.0	0.0
D x I	67.5	38.0	22.1	14.7	75.9	49.0	96.6
H x D x I	25.5	58.1	78.3	49.7	30.7	17.9	24.8
N x I	81.1	96.4	51.6	24.3	82.9	80.3	100.0
H x N x I	88.5	28.0	13.5	73.9	77.1	30.8	14.9
D x N x I	7.3	80.3	64.0	60.8	7.8	32.2	13.2
S x I	29.7	74.0	59.7	24.2	29.3	67.8	81.6
H x S x I	92.2	47.4	7.5	56.3	86.4	56.2	21.4
D x S x I	45.8	33.7	56.3	38.5	38.7	27.1	34.4
N x S x I	53.1	15.4	34.9	98.9	42.9	58.1	59.8
Leaf Fungicide (F)	87.3	72.1	84.6	96.6	87.8	1.0	51.4
H x F	84.7	51.7	38.6	54.1	82.8	39.6	26.9
D x F	38.2	71.2	77.7	34.8	35.9	21.8	95.8
H x D x F	74.8	73.8	32.6	82.6	70.7	10.0	42.7
N x F	68.0	35.8	34.4	16.5	65.4	32.6	31.1
H x N x F	39.9	55.5	36.9	91.8	44.2	88.5	57.4
D x N x F	52.3	19.0	24.9	99.9	62.9	80.3	59.8
S x F	69.9	21.9	21.0	95.9	66.5	73.3	61.1
H x S x F	57.2	31.9	46.5	40.7	51.8	23.8	3.3
D x S x F	14.1	7.5	33.6	84.6	10.9	86.5	45.0
N x S x F	57.2	90.0	76.2	82.9	56.7	22.8	51.0
I x F	45.4	31.6	28.0	38.5	48.9	91.8	49.0
H x I x F	86.1	34.8	23.7	83.2	81.5	77.7	74.8
D x I x F	48.6	37.5	24.7	83.3	49.9	40.0	86.7
N x I x F	31.4	27.6	23.4	90.2	41.1	36.2	51.1
S x I x F	83.7	48.3	29.1	97.5	92.1	62.2	38.2
<b>LSD(0.10)</b>							
Hybrid (H)	6	0.6	NS	1.9	19	745	975
Plant Density (D)	6	0.6	NS	1.9	19	745	975
H x D	NS	NS	NS	5.4	NS	NS	NS
Nitrogen Rate (N)	NS	NS	NS	NS	NS	NS	NS
H x N	NS	NS	NS	NS	NS	NS	NS
D x N	NS	NS	NS	NS	NS	NS	NS
H x D x N	NS	NS	NS	NS	NS	1489	1950
Seed Strobilurins (S)	NS	NS	NS	NS	NS	745	NS
H x S	NS	NS	NS	NS	NS	NS	NS
D x S	NS	NS	NS	NS	NS	NS	1379
H x D x S	NS	NS	NS	NS	NS	NS	NS
N x S	NS	0.9	NS	NS	NS	NS	NS
H x N x S	NS	NS	NS	NS	NS	NS	NS
D x N x S	NS	1.3	NS	NS	NS	NS	NS
Seed Insecticide (I)	6	NS	NS	NS	19	745	975
H x I	9	NS	NS	2.7	27	1053	1379
D x I	NS	NS	NS	NS	NS	NS	NS
H x D x I	NS	NS	NS	NS	NS	NS	NS
N x I	NS	NS	NS	NS	NS	NS	NS
H x N x I	NS	NS	NS	NS	NS	NS	NS
D x N x I	13	NS	NS	NS	39	NS	NS
S x I	NS	NS	NS	NS	NS	NS	NS
H x S x I	NS	NS	2.1	NS	NS	NS	NS
D x S x I	NS	NS	NS	NS	NS	NS	NS
N x S x I	NS	NS	NS	NS	NS	NS	NS
Leaf Fungicide (F)	NS	NS	NS	NS	NS	745	NS
H x F	NS	NS	NS	NS	NS	NS	NS
D x F	NS	NS	NS	NS	NS	NS	NS
H x D x F	NS	NS	NS	NS	NS	NS	NS
N x F	NS	NS	NS	NS	NS	NS	NS
H x N x F	NS	NS	NS	NS	NS	NS	NS
D x N x F	NS	NS	NS	NS	NS	NS	NS
S x F	NS	NS	NS	NS	NS	NS	NS
H x S x F	NS	NS	NS	NS	NS	NS	2757
D x S x F	NS	1.8	NS	NS	NS	NS	NS
N x S x F	NS	NS	NS	NS	NS	NS	NS
I x F	NS	NS	NS	NS	NS	NS	NS
H x I x F	NS	NS	NS	NS	NS	NS	NS
D x I x F	NS	NS	NS	NS	NS	NS	NS
N x I x F	NS	NS	NS	NS	NS	NS	NS
S x I x F	NS	NS	NS	NS	NS	NS	NS
<b>CV(%)</b>	10	8	7	181	10	7	8