

## FIELD EXPERIMENT HISTORY

**Title:** Corn Hybrid Interaction with Postemergence Herbicides. **Year:** 1995  
**Personnel:** C.M. Boerboom, J.G. Lauer  
**Location:** Arlington Research Station, Arlington, WI

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### FIELD INFORMATION

Field: 406  
Soil Type: Plano Silt Loam  
Soil Test Results: Test Date: 10/95      pH: 6.4      P (ppm): 47      K (ppm): 185      OM (%): 3.4  
Fertilizer: May 15 - 150 lbs/a 6-24-24 starter  
April 28 - 150 lbs N/a 46-0-0 preplant  
Tillage Operations: Chisel Plow, Field Cultivate(2x)  
Previous Crop: Soybean  
Irrigation: None

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### EXPERIMENTAL PROCEDURE

Exp. Design: RCB Split Plot  
Replicates: 3  
Variables: Hybrids: NK PX9060      Pioneer 3769  
Payco 151      Dekalb DK512  
Pioneer 3902      NK 4242  
Pioneer 3921      Golden 2441  
Carhart's CX92A      Pioneer 3578  
NK 2409      Pioneer 3417  
Cargill 3427      Pioneer 3475  
Herbicide Treatment: Untreated  
(Postemergence) at 6 inches - Banvel (0.5 lbs ai/a) + 28% (2.5% v/v)  
at 14 inches - Banvel (0.5 lbs ai/a) + 28% (2.5% v/v)  
at V2 - Basis (0.25 oz ai/a) + 28% (2.5% v/v) + NIS (0.25% v/v)  
at V4 - Basis (0.25 oz ai/a) + 28% (2.5% v/v) + NIS (0.25% v/v)  
at V5 - Accent (0.5 oz ai/a) + 28% (2.5% v/v) + NIS (0.25% v/v)  
at V9 - Accent (0.5 oz ai/a) + 28% (2.5% v/v) + NIS (0.25% v/v)  
Area Planted: 5' x 25'  
Area Harvested: 5.0' x 22'  
Row Spacing: 30"  
Planting Date: May 15  
Planting Equip: Kinze Plot Planter w/seed cones  
Planting Rate: 40,000 thinned to 28,000 plants/a  
Harvesting Date: Oct. 19  
Harvesting Equip: Almaco Plot Combine  
  

	<u>Material</u>	<u>Rate</u>	<u>Method</u>
Herbicides:	Bladex	2 qts/a	preemerge
	Lasso	2 qts/a	preemerge

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Results: Tables E-56.

**Table E-56. Corn Hybrid Interaction with Postemergence Herbicides.  
Arlington, WI - 1995**

Hybrid	Relative Maturity	Herbicide Treatment	Plant	Broken	Moist	Yield
			Height at day 181 cm	Stalks %		
Pioneer 3578	105 day	Untreated	82.0	3.7	19.1	170.1
Pioneer 3578	105 day	Banvel 6in	84.7	6.9	19.4	172.7
Pioneer 3578	105 day	Banvel 14in	82.3	5.6	19.3	156.7
Pioneer 3578	105 day	Basis V2	78.7	6.9	19.4	160.2
Pioneer 3578	105 day	Basis V4	71.0	6.0	18.7	148.4
Pioneer 3578	105 day	Accent V5	86.0	4.6	19.2	164.1
Pioneer 3578	105 day	Accent V9	-	6.0	18.7	148.5
Pioneer 3417	110 day	Untreated	73.7	5.6	21.7	168.9
Pioneer 3417	110 day	Banvel 6in	79.3	3.2	21.4	178.2
Pioneer 3417	110 day	Banvel 14in	73.0	4.6	21.2	154.1
Pioneer 3417	110 day	Basis V2	63.0	5.1	21.6	142.5
Pioneer 3417	110 day	Basis V4	70.0	4.2	20.8	176.3
Pioneer 3417	110 day	Accent V5	72.3	5.1	21.3	167.5
Pioneer 3417	110 day	Accent V9	-	4.2	20.1	165.5
Pioneer 3475	110 day	Untreated	72.7	4.6	21.3	152.2
Pioneer 3475	110 day	Banvel 6in	75.7	4.2	21.1	155.1
Pioneer 3475	110 day	Banvel 14in	77.3	5.6	20.9	162.4
Pioneer 3475	110 day	Basis V2	70.7	3.2	20.9	156.2
Pioneer 3475	110 day	Basis V4	65.3	3.7	20.4	162.7
Pioneer 3475	110 day	Accent V5	74.3	1.4	21.3	158.1
Pioneer 3475	110 day	Accent V9	-	3.2	20.8	161.5
Mean	110 day		78.0	5.9	17.5	138.8
<b><u>Probability(%)</u></b>						
Hybrid (H)			< 0.1	< 0.1	< 0.1	< 0.1
Herbicide (S)			< 0.1	0.3	0.4	< 0.1
H x S			41.3	2.6	21.4	35.2
<b><u>LSD(0.10)</u></b>						
Hybrid (H)			6.2	1.8	0.6	8.7
Herbicide (S)			2.0	0.9	0.2	5.8
<b><u>CV(%)</u></b>						
			7.3	40.7	2.9	11.5

**Table E-56. Corn Hybrid Interaction with Postemergence Herbicides. Arlington, WI - 1995**

Hybrid	Relative Maturity	Herbicide Treatment	Plant	Broken	Moist	Yield
			Height at day 181	Stalks		
			cm	%	%	bu/a
NK PX9060	80 day		82.8	7.7	14.7	101.5
Payco 151	80 day		70.8	11.4	14.4	91.5
Pioneer 3902	85 day		91.7	2.7	16.5	133.7
Pioneer 3921	85 day		91.6	4.6	16.6	131.2
Carhart's CX92A	90 day		76.6	6.1	15.6	137.6
NK 2409	90 day		79.6	5.6	16.5	130.0
Cargill 3427	95 day		77.0	6.8	17.4	139.4
Pioneer 3769	95 day		81.8	5.1	17.4	144.5
Dekalb DK512	100 day		71.7	4.9	17.7	166.1
NK 4242	100 day		67.8	4.2	16.9	147.7
Golden 2441	105 day		74.7	9.9	19.6	137.1
Pioneer 3578	105 day		80.8	5.7	19.1	160.1
Pioneer 3417	110 day		71.9	4.6	21.2	164.7
Pioneer 3475	110 day		72.7	3.7	21.0	158.3
		Untreated	81.6	5.4	17.7	141.7
		Banvel 6in	80.4	6.2	17.5	139.3
		Banvel 14in	79.6	6.2	17.5	137.8
		Basis V2	76.9	5.6	17.4	140.2
		Basis V4	67.4	7.3	17.3	128.3
		Accent V5	82.0	5.5	17.5	146.2
		Accent V9	-	5.4	17.2	138.2
NK PX9060	80 day	Untreated	85.0	7.9	14.5	101.1
NK PX9060	80 day	Banvel 6in	87.0	6.5	14.3	103.0
NK PX9060	80 day	Banvel 14in	84.7	7.4	14.7	100.4
NK PX9060	80 day	Basis V2	80.7	7.4	14.5	111.1
NK PX9060	80 day	Basis V4	74.3	8.8	15.5	93.2
NK PX9060	80 day	Accent V5	85.3	8.3	14.7	108.8
NK PX9060	80 day	Accent V9	-	7.9	14.8	92.8
Payco 151	80 day	Untreated	78.3	9.7	14.7	96.9
Payco 151	80 day	Banvel 6in	73.7	11.6	14.1	88.4
Payco 151	80 day	Banvel 14in	74.0	13.9	14.3	90.9
Payco 151	80 day	Basis V2	68.0	9.7	15.2	92.0
Payco 151	80 day	Basis V4	54.7	19.4	14.0	72.9
Payco 151	80 day	Accent V5	76.3	6.9	14.3	111.1
Payco 151	80 day	Accent V9	-	8.8	13.9	88.6
Pioneer 3902	85 day	Untreated	100.0	1.9	16.5	134.1
Pioneer 3902	85 day	Banvel 6in	94.7	2.3	16.5	130.2
Pioneer 3902	85 day	Banvel 14in	97.0	3.7	16.5	138.4
Pioneer 3902	85 day	Basis V2	90.0	2.8	16.2	143.3
Pioneer 3902	85 day	Basis V4	75.3	2.3	16.8	118.1
Pioneer 3902	85 day	Accent V5	93.3	2.8	16.5	136.3
Pioneer 3902	85 day	Accent V9	-	2.8	16.5	135.6
Pioneer 3921	85 day	Untreated	94.0	4.6	16.6	139.4
Pioneer 3921	85 day	Banvel 6in	94.3	5.6	16.7	132.5
Pioneer 3921	85 day	Banvel 14in	97.7	5.1	16.7	116.5
Pioneer 3921	85 day	Basis V2	91.7	4.6	16.2	136.3
Pioneer 3921	85 day	Basis V4	80.3	6.9	16.3	108.9
Pioneer 3921	85 day	Accent V5	91.3	3.7	16.8	139.0
Pioneer 3921	85 day	Accent V9	-	1.9	16.5	145.5

**Table E-56. Corn Hybrid Interaction with Postemergence Herbicides. Arlington, WI - 1995**

Hybrid	Relative Maturity	Herbicide Treatment	Plant	Broken	Moist	Yield
			Height at day 181 cm	Stalks %		
Carhart's CX92A	90 day	Untreated	85.0	4.6	15.9	140.5
Carhart's CX92A	90 day	Banvel 6in	78.0	7.4	15.7	131.5
Carhart's CX92A	90 day	Banvel 14in	78.0	7.4	15.6	145.2
Carhart's CX92A	90 day	Basis V2	74.3	6.5	15.3	146.3
Carhart's CX92A	90 day	Basis V4	65.0	7.9	15.3	132.1
Carhart's CX92A	90 day	Accent V5	79.3	4.2	15.6	126.2
Carhart's CX92A	90 day	Accent V9	-	4.6	15.9	141.4
NK 2409	90 day	Untreated	86.0	6.0	16.4	133.8
NK 2409	90 day	Banvel 6in	79.0	6.5	16.5	126.7
NK 2409	90 day	Banvel 14in	80.7	5.1	16.6	126.5
NK 2409	90 day	Basis V2	81.3	3.7	16.5	137.0
NK 2409	90 day	Basis V4	66.0	6.5	16.6	109.3
NK 2409	90 day	Accent V5	84.3	5.1	16.4	139.1
NK 2409	90 day	Accent V9	-	6.5	16.4	137.8
Cargill 3427	95 day	Untreated	84.3	6.9	17.4	141.9
Cargill 3427	95 day	Banvel 6in	75.3	5.6	17.5	134.6
Cargill 3427	95 day	Banvel 14in	76.0	6.9	17.5	152.2
Cargill 3427	95 day	Basis V2	79.0	4.6	17.2	144.6
Cargill 3427	95 day	Basis V4	62.7	7.4	17.4	120.1
Cargill 3427	95 day	Accent V5	84.7	7.9	17.3	155.4
Cargill 3427	95 day	Accent V9	-	8.3	17.4	127.2
Pioneer 3769	95 day	Untreated	83.0	3.7	17.7	164.7
Pioneer 3769	95 day	Banvel 6in	80.7	5.1	17.6	141.6
Pioneer 3769	95 day	Banvel 14in	81.3	5.1	17.6	128.5
Pioneer 3769	95 day	Basis V2	84.3	5.6	16.8	153.6
Pioneer 3769	95 day	Basis V4	70.0	6.0	17.5	128.5
Pioneer 3769	95 day	Accent V5	91.7	5.1	17.3	151.5
Pioneer 3769	95 day	Accent V9	-	5.1	17.2	143.2
Dekalb DK512	100 day	Untreated	72.0	4.6	18.8	170.3
Dekalb DK512	100 day	Banvel 6in	75.3	4.6	17.6	160.9
Dekalb DK512	100 day	Banvel 14in	71.7	6.5	17.3	164.7
Dekalb DK512	100 day	Basis V2	72.0	2.3	17.8	153.9
Dekalb DK512	100 day	Basis V4	63.7	4.6	17.1	167.8
Dekalb DK512	100 day	Accent V5	75.3	5.6	17.7	172.4
Dekalb DK512	100 day	Accent V9	-	6.0	17.7	172.6
NK 4242	100 day	Untreated	70.3	2.3	16.9	139.9
NK 4242	100 day	Banvel 6in	66.7	6.5	17.3	137.8
NK 4242	100 day	Banvel 14in	66.0	5.1	17.0	151.4
NK 4242	100 day	Basis V2	68.7	3.7	16.6	153.5
NK 4242	100 day	Basis V4	61.0	4.6	16.8	126.6
NK 4242	100 day	Accent V5	74.0	4.2	17.0	174.6
NK 4242	100 day	Accent V9	-	2.8	16.7	150.0
Golden 2441	105 day	Untreated	75.7	8.8	20.2	129.7
Golden 2441	105 day	Banvel 6in	81.0	10.7	19.8	157.3
Golden 2441	105 day	Banvel 14in	74.0	5.1	19.4	140.9
Golden 2441	105 day	Basis V2	74.0	12.0	19.7	132.1
Golden 2441	105 day	Basis V4	64.7	13.4	19.5	131.9
Golden 2441	105 day	Accent V5	79.0	12.0	19.8	143.1
Golden 2441	105 day	Accent V9	-	6.9	18.8	124.8