

## Irrigated Corn Variety Performance Trial at Julesburg<sup>1</sup> in 2007.

Hybrid	Yield <sup>2</sup> bu/ac	Grain Moisture %	Test Weight lb/bu	Plant Height in	Density plants/ac	Lodging %
LG Seeds LG 2552BTRW	263.8	14.6	57.8	92	32881	4.8
Fontanelle 8B140	259.6	15.4	60.0	93	32506	3.1
DEKALB DKC62-33 (RR2/YGCB)	259.1	15.6	60.5	94	32452	6.5
Dyna-Gro 57F37 (YGCB)	258.8	15.3	58.7	98	32881	11.4
Dyna-Gro 57P93 (RR2/YGCB)	258.0	14.7	58.4	102	32438	4.3
Dyna-Gro 57F20 (YGCB)	255.2	13.4	57.7	98	32038	8.2
DEKALB DKC60-18 (RR2/YGPL)	252.2	13.9	59.4	90	33249	3.4
Mycogen 2C727 (HXI)	251.6	13.9	57.5	98	32250	7.1
Trisler T6N52 CB	249.6	15.9	59.4	94	31429	13.5
Trisler T6A02 RRCB	249.0	14.0	58.2	96	30947	12.6
Producers Hybrids 6944VT3	244.9	14.2	57.9	94	33630	4.0
DEKALB DKC61-73 (RR2/YGCB)	244.0	14.3	59.6	95	32319	20.9
Producers Hybrids 7134VT3	244.0	15.2	56.9	87	31023	13.0
Trisler T-1J31 VT3	242.4	12.1	58.1	85	33716	2.8
Trisler T5N51 VT3	236.5	15.1	60.3	90	32578	20.9
Trisler T-5257 PLRR	234.8	15.2	58.4	96	33324	6.6
DEKALB DKC52-63 (RR2/YGCB)	234.7	12.0	58.7	87	32545	3.8
DEKALB DKC64-76 (RR2/YGPL)	234.5	16.1	61.0	93	31663	23.0
Mycogen 2J527 (HXI)	231.1	12.6	59.6	92	31660	5.7
DEKALB DKC54-46 (RR2/YGPL)	230.1	13.0	60.5	94	31421	12.4
Mycogen 2D675 (HXI/RR)	229.8	13.6	57.8	98	32848	18.2
Dyna-Gro 57B10 (RR2/YGPL)	228.9	15.4	58.8	99	32881	6.6
Dyna-Gro 54T42 (RR2/HXI)	226.7	12.3	59.2	98	32600	18.5
Dyna-Gro 56B56 (RR2/YGPL)	226.4	12.9	59.8	94	32550	13.4
Dyna-Gro 55P86 (RR2/YGCB)	224.9	13.3	59.1	94	31325	5.6
Dyna-Gro 57P69 (RR2/YGCB)	223.6	13.3	58.7	96	30867	17.3
Dyna-Gro 57V44 (YGV Triple)	216.9	13.3	58.8	98	30874	22.3
Mycogen 2C597 (HXI/RR)	216.3	11.9	57.9	90	32600	7.1
Trisler T-2S61 PLRR	214.9	12.1	60.1	92	32412	9.9
Mycogen 2K718 (HXI/RR)	214.8	14.8	58.2	102	30795	29.1
Dyna-Gro 57F06 (YGCB)	213.7	12.5	57.5	97	31306	15.3
Dyna-Gro 55P79 (RR2/YGCB)	213.2	12.8	59.2	99	32131	10.2
Fontanelle 7S233	207.5	13.7	57.9	96	32038	25.4
Dyna-Gro 55B65 (RR2/YGPL)	205.2	11.6	58.9	93	31409	4.1
Dyna-Gro 56B83 (RR2/YGPL)	201.8	12.4	58.8	99	31321	3.1
Trisler T-4J31 PLRR	200.8	12.5	58.4	97	32106	21.8
Dyna-Gro 53V13 YGV Triple	199.3	12.1	59.3	88	31663	10.2
Producers Hybrids 6463YGCRR2	196.9	12.6	59.3	100	32038	26.9
Dyna-Gro 55B02 (RR2/YGPL)	193.6	11.8	58.3	93	33317	14.7
Triumph 6512PLRR	192.8	14.1	61.0	91	31907	18.9
<b>Average</b>	<b>229.6</b>	<b>13.6</b>	<b>58.9</b>	<b>95</b>	<b>32148</b>	<b>12.2</b>
<sup>3</sup> LSD <sub>(0.30)</sub>	14.3	0.5	0.4	3.8	950.4	
<sup>3</sup> LSD <sub>(0.05)</sub>	27.2	0.9	0.7	7.3	1813.4	

<sup>1</sup>Trial conducted on the Gene Bauerle farm; seeded 5/11 and harvested 10/31.

<sup>2</sup>Yields corrected to 15.5% grain moisture.

<sup>3</sup>LSD<sub>(0.30)</sub> is more useful for producers using these results to select a variety but some seed company collaborators wish to use LSD<sub>(0.05)</sub>.

\*Ear drop insignificant.

### **Site Information**

Plot Size: 5' x 31' with 30" row spacing

Experimental Design: randomized complete block, 3 replications

Seeding Rate: approximately 34,000 seeds/acre

Previous Crop: corn

Irrigation: sprinkler

Growing Degree Days: 2993 (2007 GDD); 2752 (Long Term Ave GDD)

Soil Type: Richfield loam

Fertilization: 200 lbs N acre<sup>-1</sup>; 26 lbs P<sub>2</sub>O<sub>5</sub> acre<sup>-1</sup>; .2 lbs Zn acre<sup>-1</sup>; 3 lbs S acre<sup>-1</sup>

Herbicide: Lumax

Insecticide: Invite, Pencap

### **2-Yr Average Irrigated Corn Variety Performance at Julesburg in 2006-07.**

Hybrid	Yield	Grain Moisture	Test Weight
	bu/ac	%	lb/bu
DEKALB DKC60-18 (RR2/YGPL)	238.0	14.8	58.6
Mycogen 2C727 (HXI)	232.7	15.1	56.5
Dyna-Gro 57F37 (YGCB)	228.7	16.3	58.0
DEKALB DKC54-46 (RR2/YGPL)	216.6	13.6	59.4
Dyna-Gro 57F06 (YGCB)	213.3	14.0	56.3
Dyna-Gro 57P69 (RR/YGCB)	212.1	15.0	57.3
Dyna-Gro 55B65 (RR/YGPL)	200.6	13.0	58.6
<b>Average</b>	<b>220.3</b>	<b>14.5</b>	<b>57.8</b>