

Irrigated Corn Variety Performance Trial at Yuma¹ in 2007.

Hybrid	Yield ² bu/ac	Grain	Test	Plant	Density plants/ac	Lodging ³
		Moisture %	Weight lb/bu	Height in		%
LG Seeds LG 2619 (BT/RR)	273.3	15.6	59.9	98	32416	19.2
NK Brand N72-Q6	272.3	14.7	58.4	91	32248	5.7
Trisler T-7N57 CB	271.9	15.1	60.3	100	32506	7.5
Dyna-Gro 57P93 (RR2/YGCB)	271.4	15.5	60.0	101	32748	8.0
Trisler 4S61 VT3	266.5	14.7	60.3	99	30802	8.6
Trisler T5N52 PLRR	266.2	13.2	59.2	96	31586	4.4
DEKALB DKC52-63 (RR2/YGCB)	266.1	12.3	59.4	96	32400	4.4
NK Brand N70-C7	265.9	15.0	59.8	100	32506	14.5
DEKALB DKC61-73 (RR2/YGCB)	265.0	14.2	59.6	99	32974	20.2
Mycogen 2D675 (HXI/RR)	264.6	14.0	57.5	104	33068	2.9
Producers Hybrids 7329HX	264.6	15.9	59.0	105	32196	30.7
Mycogen 2C727 (HXI)	262.3	14.3	58.5	97	31476	19.0
LG Seeds LG 2552BTRW	262.0	14.7	58.7	100	32180	4.8
Dyna-Gro 57B94 (RR2/YGPL)	261.2	15.2	60.3	95	30960	15.5
Mycogen 2K718 (HXI/RR)	259.9	14.2	58.8	104	31899	9.1
DEKALB DKC54-46 (RR2/YGPL)	257.5	12.1	60.4	96	32589	0.6
Producers Hybrids 7484VT3	257.4	15.1	59.2	98	31330	10.5
Dyna-Gro 57F37 (YGCB)	255.9	14.9	58.8	100	31096	11.8
NK Brand N76-D3	254.0	15.7	59.9	98	32319	17.4
DEKALB DKC64-76 (RR2/YGPL)	253.6	16.3	61.5	103	32000	23.8
DEKALB DKC60-18 (RR2/YGPL)	252.5	14.2	59.7	99	32473	4.7
Producers Hybrids 7134VT3	251.5	14.4	57.9	94	32187	18.0
Mycogen 2J527 (HXI)	250.2	12.1	60.1	95	32600	5.2
Dyna-Gro 57V05 (YGVT Triple)	249.1	16.7	58.9	101	31476	11.3
Mycogen 2T787 (HX XTRA)	249.1	16.1	58.6	99	31992	22.6
Fontanelle 8B595	249.1	15.0	59.5	96	33162	10.0
Fontanelle 8K389	248.0	15.1	59.0	94	32819	31.7
Trisler T-7A01 VT3	247.9	15.8	60.9	98	32693	11.5
Dyna-Gro 57P69 (RR2/YGCB)	246.7	14.5	59.8	96	32180	25.0
Mycogen 2C597 (HXI/RR)	245.9	12.0	58.8	105	33357	8.4
Dyna-Gro 57B10 (RR2/YGPL)	245.4	15.3	59.9	101	33162	22.8
Trisler T-5257 PLRR	244.4	14.9	59.3	93	31850	11.1
LG Seeds LG 2614 (BT/RR)	243.7	15.1	60.6	100	30931	20.1
DEKALB DKC62-33 (RR2/YGCB)	242.9	15.1	61.0	98	33068	18.7
Dyna-Gro 57F20 (YGCB)	240.4	14.6	58.1	101	32254	11.3
Trisler T-7N54 RRCB	237.7	15.7	62.1	98	32506	28.2
Dyna-Gro 54T42 (RR2/HXI)	237.1	12.9	60.0	101	30745	11.6
Dyna-Gro 55P86 (RR2/YGCB)	236.6	13.9	59.4	98	30578	13.9
Triumph 8607CbRR	235.4	15.1	59.9	101	31743	15.5
Triumph 1109PL	235.4	14.6	60.1	95	31609	25.6
Dyna-Gro 55P79 (RR2/YGCB)	235.0	13.4	59.3	96	32019	13.4
Dyna-Gro 57F06 (YGCB)	234.6	12.7	59.2	100	30636	25.6

Check One ⁴	231.9	15.5	60.6	98	31195	6.5
Dyna-Gro 55B65 (RR2/YGPL)	231.1	11.9	59.7	104	32739	3.2
Trisler T-8A02 CB	229.0	14.9	60.2	96	31757	54.7
Dyna-Gro 57X97 (HXI)	228.3	15.7	59.4	96	32348	45.3
Dyna-Gro 57T61 (RR2/HXI)	225.9	15.7	60.1	102	32225	33.8
Dyna-Gro 56B83 (RR2/YGPL)	214.7	12.2	59.3	97	32412	18.1
Dyna-Gro 57V44 (YGVT Triple)	208.3	13.9	59.5	97	31569	31.7
Dyna-Gro 56B56 (RR2/YGPL)	196.1	13.7	59.7	95	32550	43.8
Average	247.9	14.5	59.6	99	32083	16.8
⁵ LSD _(0.30)	13.9	0.5	0.4	3.7	922.6	
⁵ LSD _(0.05)	26.5	0.9	0.9	7.0	1757.2	

¹Trial conducted on the Larry Gardner farm; seeded 5/12 and harvested 11/1.

²Yields corrected to 15.5% grain moisture.

³Severe winds prior to harvest led to significant lodging for many entries.

⁴Check One is Pioneer 34A15.

⁵LSD_(0.30) is more useful for producers using these results to select a variety but some seed company collaborators wish to use LSD_(0.05).

*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: kidney beans

Irrigation: sprinkler

Growing Degree Days: 3031 (2007 GDD); 2615 (Long Term Ave GDD)

Soil Type: Julesburg loamy sand

Fertilization: 267 lbs N acre⁻¹; 67 lbs P₂O₅ acre⁻¹; 37 lbs K₂O acre⁻¹; 2.2 lbs Zn acre⁻¹; 37 lbs S acre⁻¹; 1.1 lbs Fe acre⁻¹; 1.1 lbs Mn acre⁻¹

Herbicide: Outlook

Insecticide: Asana

2-Yr Average Irrigated Corn Variety Performance at Yuma in 2006-07.

Hybrid	Yield	Grain	Test
		Moisture	Weight
	bu/ac	%	lb/bu
LG Seeds LG 2619 (BT/RR)	267.7	18.4	57.1
NK Brand N70-C7 (GT/Bt/LL)	257.3	17.0	57.8
NK Brand N76-D3 (Bt/LL)	252.4	18.8	57.3
Trisler T-5257 (PLRR2)	252.4	17.4	57.1
Dyna-Gro 57P93 (RR/YGCB)	249.7	17.7	57.5
Dyna-Gro 57P69 (YGCB/RR)	245.3	16.6	58.0
Dyna-Gro 57F37 (YGCB)	243.0	16.6	57.3
DEKALB DKC60-18 (RR2/YGPL)	241.4	15.7	58.5
Dyna-Gro 57X97 (HXI/LL)	239.3	18.0	57.3

Fontanelle 8K389 (YG/RR2)	239.2	17.6	57.6
DEKALB DKC54-46 (RR2/YGPL)	238.2	13.6	59.5
Dyna-Gro 57F06 (YGCB)	229.8	15.2	57.2
Dyna-Gro 55B65 (RR/YGPL)	219.3	13.9	59.3
Average	244.2	16.6	57.8
