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Agricultural Experiment Station

Colorado State University

College of Agricultural Sciences | Department of Soil and Crop Sciences | Western Colorado Research Center | Arkansas Valley Research Center | Extension

MAKING BETTER DECISIONS

2007 Colorado Corn Variety Performance Trials

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The authors express their gratitude to the Colorado farmers who generously contributed the use of their land, equipment, and time to conduct these trials for the good of all Colorado corn producers:

- Burlington - Don Sircy
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Department of Soil and Crop Sciences
Crops Testing Program
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Table of Contents

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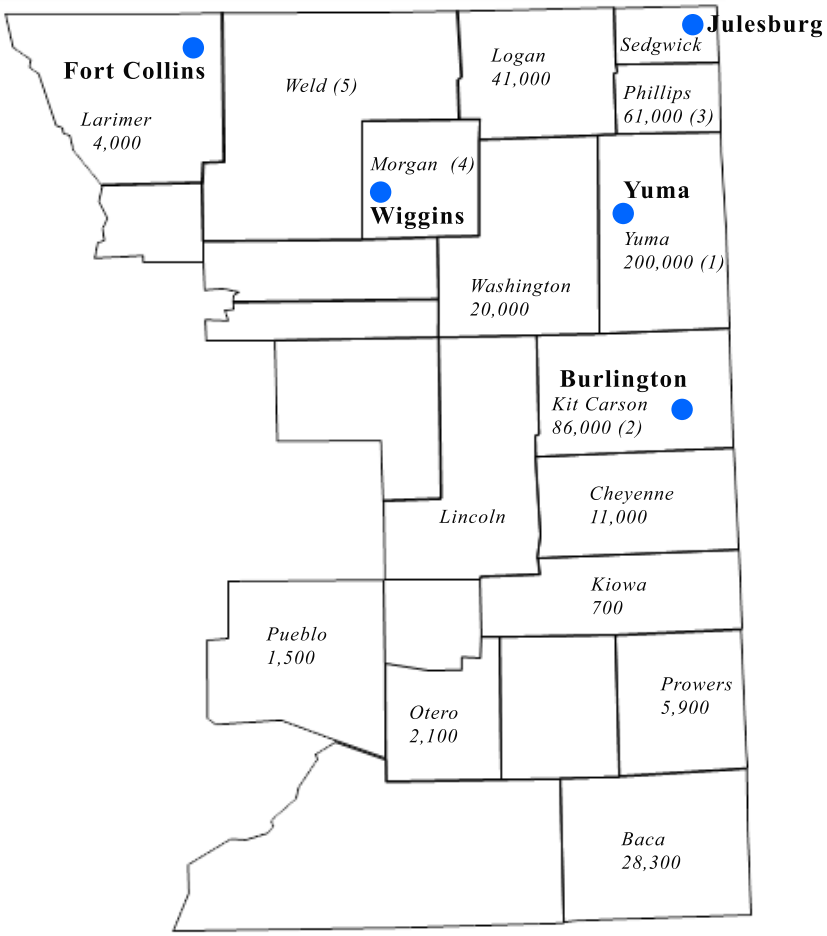
2007 COLORADO CORN HYBRID PERFORMANCE TRIALS

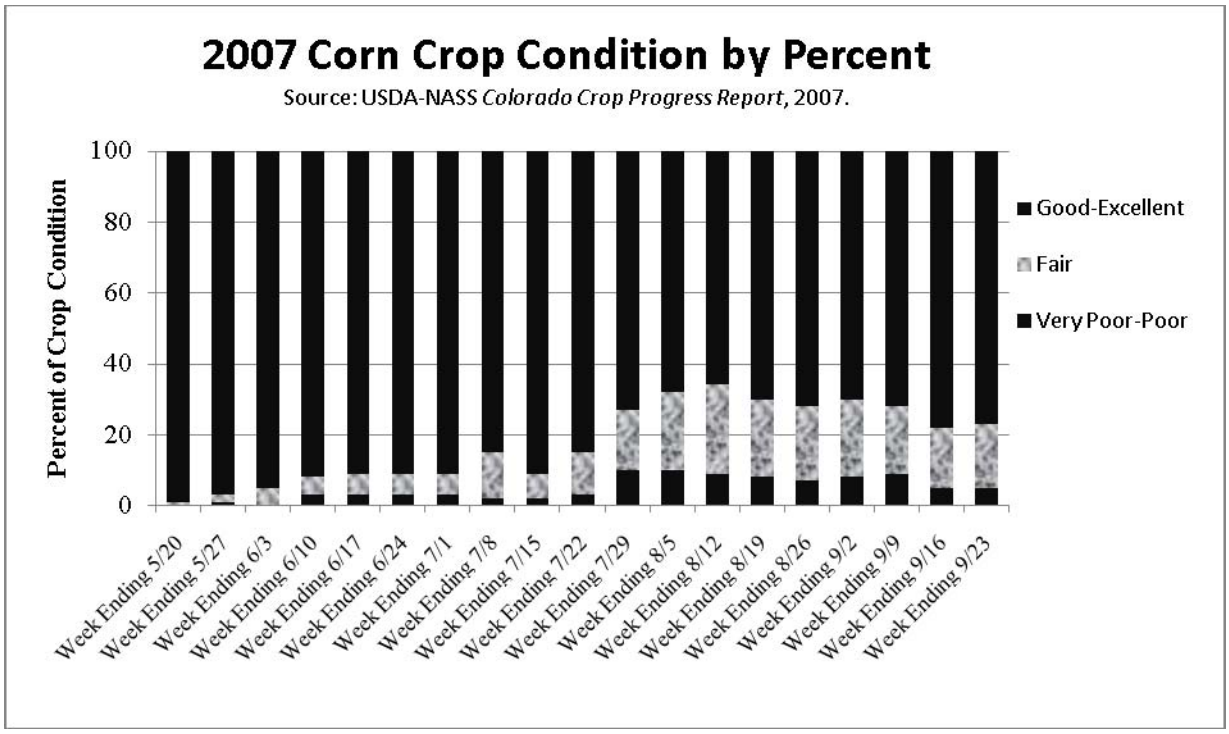
Introduction

CSU conducts hybrid performance trials to provide unbiased and reliable information to Colorado producers so they can select the best hybrids for their farming conditions. Variable climatic conditions, innovations from biotechnology, acquisitions and mergers of seed companies, and rapid evolution of new hybrid lines means that unbiased crop performance information is increasingly important to Colorado corn producers.

Colorado State University personnel evaluated commercial corn hybrids under irrigation at five Eastern Colorado locations. A randomized complete block field design with three replicates was used at all Eastern Colorado irrigated trials and four replicates for the dryland trials. Irrigated trial plots were 31 feet long and planted at 34,000 seeds/ac. The 2007 dryland corn variety trial compared two locations in Colorado and two in Nebraska. All varieties were planted in full row and skip row configurations (blocks) at each location. Dryland trial plots were 31 feet long and a target population of 15,000 plants/ac. All plots were 4 rows wide in a paired trial design with four replicates. All corn grain yields are reported in bu/ac and adjusted to 15.5% moisture content.

Five eastern Colorado irrigated corn trial locations in 2007 *with 2006 acreage harvested in important corn producing counties of Colorado.*





The chart above shows the corn crop condition by percent every two weeks during the 2007 growing season. There are three categories used for rating the crop condition, very poor to poor, fair and good to excellent.

Summary of insect pressure in eastern Colorado for 2007

European corn borer: Above average
Spider mites: Well above average in some areas. Late season twospotted spider mite in some areas. Mite damage seemed associated with stalk rot.
Western bean cutworm: Average
Western corn rootworm adults: Average

Eastern Colorado Irrigated Grain Corn Performance Data

Table 1. Irrigated Corn Variety Performance Trial at Burlington[1] in 2007.

Hybrid	Yield[2]	Grain Moisture	Test Weight	Plant Height	Density	Lodging
	bu/ac	%	lb/bu	inches	plants/ac	%
Fontanelle 8K389	272.3	16.7	58.0	92	29874	14.8
Mycogen 2C727 (HXI)	262.7	16.9	56.6	95	31155	8.7
NK Brand N72-Q6	252.3	17.9	57.0	91	30157	5.5
Dyna-Gro 57P93 (RR2/YGCB)	250.0	18.8	57.6	92	30162	4.6
DEKALB DKC60-18 (RR2/YGPL)	249.4	16.8	58.2	91	30452	6.3
DEKALB DKC62-33 (RR2/YGCB)	248.1	18.2	59.2	89	31969	1.9
NK Brand N68-B8	247.3	17.5	56.5	88	30265	1.5
LG Seeds LG 2614 (BT/RR)	244.3	18.1	58.6	91	28593	8.1
NK Brand N70-C7	242.9	19.2	56.8	90	30389	5.7
Producers Hybrids 7134VT3	242.7	16.3	55.4	96	29811	16.5
Producers Hybrids 7329HX	241.1	18.5	57.6	91	30755	56.3
DEKALB DKC52-63(RR2/YGCB)	239.7	15.6	58.4	89	31057	5.6
Dyna-Gro 56B56 (RR2/YGPL)	238.7	15.6	58.4	92	29696	10.4
Dyna-Gro 57P69 (RR2/YGCB)	238.3	19.3	57.1	92	30975	14.3
Triumph 1109PL	238.0	16.4	58.1	87	32319	13.5
Dyna-Gro 55P79 (RR2/YGCB)	236.6	16.0	58.3	91	30330	20.6
Dyna-Gro 57F20 (YGCB)	235.5	16.9	56.8	91	28874	13.6
DEKALB DKC61-73 (RR2/YGCB)	234.2	16.7	58.1	91	29652	7.6
Check[3]	232.8	17.0	58.1	95	29637	4.0
Dyna-Gro 57V05 (YGVT Triple)	231.9	20.2	56.1	95	30446	19.5
LG Seeds LG 2552BTRW	231.8	17.7	56.5	92	29696	9.6
Mycogen 2K718 (HXI/RR)	231.0	16.9	57.4	90	30568	38.2
Dyna-Gro 57F37 (YGCB)	227.7	17.2	58.7	91	30720	14.3
Dyna-Gro 57F06 (YGCB)	226.8	16.6	57.8	94	28945	29.1
DEKALB DKC64-76 (RR2/YGPL)	226.1	18.3	59.6	89	29980	1.5
NK Brand N76-D3	226.0	17.5	54.8	85	32412	12.7
DEKALB DKC54-46 (RR2/YGPL)	223.9	15.2	59.2	96	31655	14.2
Triumph 8607CbRR	222.5	16.9	58.7	91	30258	20.6
Producers Hybrids 7484VT3	222.5	17.7	59.1	89	30621	23.5
Fontanelle 8B595	222.4	18.5	57.7	97	31067	11.4
Dyna-Gro 55P86 (RR2/YGCB)	222.1	15.7	58.2	95	30783	8.0
Mycogen 2C597 (HXI/RR)	216.7	17.6	57.1	88	30368	13.2
Triumph 6512PLRR	216.6	16.2	59.6	95	30322	6.2
Mycogen 2T787 (HX XTRA)	215.7	17.6	57.6	88	28759	48.5
Mycogen 2D675 (HXI/RR)	212.8	14.9	56.0	91	29242	9.6
Dyna-Gro 57V44 (YGVT Triple)	205.9	15.8	58.1	95	29285	49.3
Dyna-Gro 56B83 (RR2/YGPL)	205.3	15.9	58.5	92	32131	2.0

LG Seeds LG 2590BTRWRR	204.0	16.2	58.1	91	30164	67.9
Dyna-Gro 57X97 (HXI)	202.3	16.4	57.2	88	28540	56.8
Dyna-Gro 55B65 (RR2/YGPL)	192.9	16.0	59.8	91	29994	4.0
Average	**230.9**	**17.1**	**57.8**	**91**	**30302**	**17.0**
[4]$LSD_{(0.30)}$	18.8	1.0	0.8	5	1800	
[4]$LSD_{(0.05)}$	35.9	1.8	1.6	10	3434	

[1]Trial conducted on the Don Sircy farm; seeded 05/07 and harvested 10/16.

[2]Yields corrected to 15.5% grain moisture.

[3]The Check is NC+49-46RB.

[4]$LSD_{(0.30)}$ 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: pinto beans
Irrigation: sprinkler
Growing Degree Days: 2783 (2007 GDD); 2673 (Long Term Ave GDD)
Soil Type: Rago silt loam
Fertilization: 190 lbs N $acre^{-1}$
Herbicide: Lumax
Insecticide: none

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

Hybrid	Yield	Grain Moisture	Test Weight
	bu/ac	%	lb/bu
Fontanelle 8K389	262.1	17.4	57.1
NK Brand N68-B8	243.7	18.0	55.7
DEKALB DKC60-18 (RR2/YGPL)	239.2	16.8	57.9
Dyna-Gro 57P93 (RR/YGCB)	237.3	18.7	56.6
NK Brand N70-C7	235.1	19.0	56.4
Dyna-Gro 57P69 (RR/YGCB)	226.1	18.7	56.3
Dyna-Gro 57F37 (YGCB)	224.4	17.5	57.9
DEKALB DKC54-46 (RR2/YGPL)	217.5	14.8	59.0
Dyna-Gro 57F06 (YGCB)	215.1	16.6	56.9
Dyna-Gro 57X97 (HXI)	209.8	17.7	55.7
NK Brand N76-D3	205.3	19.1	54.2
Average	**228.7**	**17.7**	**56.7**

Table 3. Irrigated Corn Variety Performance Trial at Fort Collins[1] in 2007.

Hybrid	Yield[2]	Grain Moisture	Test Weight	Plant Height	Density	Lodging
	bu/ac	%	lb/bu	inches	plants/ac	%
Mycogen 2J527 (HXI)	241.2	16.7	57.6	98	33818	2.2
Garst 8792 (CB/LL)	230.5	18.8	56.8	93	34661	0.6
DEKALB DKC52-63 (RR2/YGCB)	227.7	17.0	56.2	94	32767	0.0
Mycogen 2C597 (HXI/RR)	222.3	19.1	55.3	104	33724	0.3
Dyna-Gro 53P87 (RR2/YGCB)	222.1	15.8	58.7	96	31666	2.1
Dyna-Gro 56B83 (RR2/YGPL)	217.2	22.5	54.0	98	32592	0.6
Dyna-Gro 55B65 (RR2/YGPL)	217.1	18.2	56.1	102	31960	0.3
Check One[3]	214.9	15.2	58.7	94	33537	2.8
Triumph 9958VT3	214.2	16.1	59.5	94	31766	0.6
Dyna-Gro 55P79 (RR2/YGCB)	213.6	19.5	55.9	102	32350	0.0
Check Two[4]	213.2	16.1	58.3	93	32514	0.3
Mycogen 2C727 (HXI)	211.6	21.1	51.8	95	31713	2.5
Dyna-Gro 54T42 (RR2/HXI)	210.3	17.3	56.8	102	31725	0.6
Dyna-Gro 55B02 (RR2/YGPL)	207.2	17.0	57.0	95	34286	2.5
DEKALB DKC43-31 (RR2/YGCB)	203.8	16.1	57.9	91	32038	1.6
Mycogen 2D675 (HXI/RR)	202.9	18.1	54.0	102	31181	0.3
DEKALB DKC49-35 (RR2)	200.0	17.6	55.9	90	30704	0.0
Mycogen 2T787 (HX XTRA)	194.7	24.4	51.8	103	32600	1.4
Garst 8688 (GT)	193.5	17.9	55.6	101	30511	0.3
Mycogen 2K718 (HXI/RR)	186.1	25.2	51.2	107	31987	3.0
Average	**212.2**	**18.5**	**56.0**	**98**	**32405**	**1.1**
[5]$LSD_{(0.30)}$	13.1	0.9	0.6	4	1139	
[5]$LSD_{(0.05)}$	25.2	1.8	1.1	7	2194	

[1]Trial conducted at the Agricultural Research, Development and Education Center; seeded 05/11 and harvested 11/8.

[2]Yields corrected to 15.5% grain moisture.

[3]Check One is Cropland 421 RR2.

[4]Check Two is DEKALB DKC 4628.

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

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: wheat

Irrigation: sprinkler

Growing Degree Days: 2703 (2007 GDD); 2316 (Long Term Ave GDD)

Soil Type: Fort Collins clay loam

Fertilization: 85 lbs N $acre^{-1}$; 40 lbs P_2O_5 $acre^{-1}$
Herbicide: Lasso, Marksman
Insecticide: none

Table 4. Irrigated Corn Variety Performance Trial at Julesburg[1] in 2007.

Hybrid	Yield[2]	Grain Moisture	Test Weight	Plant Height	Density	Lodging
	bu/ac	%	lb/bu	inches	plants/ac	%
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 (YGVT 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 YGVT Triple	199.3	12.1	59.3	88	31663	10.2
Producers Hybrids 6463YGCBRR2	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
Average	**229.6**	**13.6**	**58.9**	**95**	**32148**	**12.2**
[3]$LSD_{(0.30)}$	14.3	0.5	0.4	4	950	
[3]$LSD_{(0.05)}$	27.2	0.9	0.7	7	1813	

[1]Trial conducted on the Gene Bauerle farm; seeded 5/11 and harvested 10/31.

[2]Yields corrected to 15.5% grain moisture.

[3]$LSD_{(0.30)}$ 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: corn
Irrigation: sprinkler
Growing Degree Days: 2993 (2007 GDD); 2752 (Long Term Ave GDD)
Soil Type: Richfield loam
Fertilization: 200 lbs N $acre^{-1}$; 26 lbs P_2O_5 $acre^{-1}$; .2 lbs Zn $acre^{-1}$; 3 lbs S $acre^{-1}$
Herbicide: Lumax
Insecticide: Invite, Pencap

Table 5. 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
Average	**220.3**	**14.5**	**57.8**

Table 6. Irrigated Corn Variety Performance Trial at Wiggins[1] in 2007.

Hybrid	Yield[2]	Grain Moisture	Test Weight	Plant Height	Density	Lodging

	bu/ac	%	lb/bu	inches	plants/ac	%
DEKALB DKC52-63 (RR2/YGCB)	261.7	12.6	59.7	91	34557	0.5
Dyna-Gro 56B56 (RR2/YGPL)	242.4	13.2	59.0	92	33204	2.1
Triumph 3203RR	239.9	12.3	58.0	92	32375	0.4
LG Seeds LG 2514 (BT/RR)	238.5	15.2	59.3	91	33167	0.9
DEKALB DKC60-18 (RR2/YGPL)	236.7	13.1	58.6	89	33461	0.0
DEKALB DKC61-73 (RR2/YGCB)	236.2	16.0	58.6	93	31523	0.3
Dyna-Gro 55P86 (RR2/YGCB)	234.1	14.0	58.3	90	32567	0.5
Fontanelle 5N751	227.6	12.3	60.3	96	31996	1.0
Mycogen 2C727 (HXI)	227.3	15.5	56.8	92	30507	1.0
Dyna-Gro 57F20 (YGCB)	226.2	15.1	57.2	92	34273	1.1
DEKALB DKC54-46 (RR2/YGPL)	224.8	12.7	61.0	91	34635	1.7
DEKALB DKC62-33 (RR2/YGCB)	224.5	15.9	59.7	95	34102	0.6
Mycogen 2J527 (HXI)	223.5	12.7	60.1	92	33443	2.3
Triumph 6512PLRR	221.7	12.4	60.9	88	33365	1.8
Dyna-Gro 57P93 (RR2/YGCB)	221.1	14.1	58.0	95	32905	1.8
LG Seeds LG 2524 (HX/LL)	221.0	13.3	59.4	93	31823	4.2
Mycogen 2D675 (HXI/RR)	219.2	15.3	56.9	93	34342	1.4
Dyna-Gro 55B65 (RR2/YGPL)	216.4	13.0	59.7	92	29567	1.3
Fontanelle 5N515	212.2	12.3	61.8	93	32589	0.5
Mycogen 2T787 (HX XTRA)	211.3	16.1	57.6	95	30018	4.3
Dyna-Gro 57P69 (RR2/YGCB)	207.6	13.7	58.3	88	31030	0.9
Dyna-Gro 54T42 (RR2/HXI)	207.1	12.4	59.5	91	30533	3.5
Dyna-Gro 53P87 (RR2/YGCB)	206.8	11.2	59.1	85	32495	0.0
Dyna-Gro 55P79 (RR2/YGCB)	200.9	13.9	59.2	95	32425	0.3
DEKALB DKC64-76 (RR2/YGPL)	196.7	15.5	60.5	86	33175	1.2
Mycogen 2K718 (HXI/RR)	190.1	16.4	57.2	94	32707	2.3
Mycogen 2C597 (HXI/RR)	189.1	13.4	58.3	97	32028	9.3
Dyna-Gro 56B83 (RR2/YGPL)	172.5	13.6	59.4	91	32480	1.1
Average	**219.2**	**13.8**	**59.0**	**92**	**32546**	**1.7**
[3]$LSD_{(0.30)}$	15.5	0.9	0.6	5	2033	
[3]$LSD_{(0.05)}$	29.8	1.7	1.1	10	3894	

[1]Trial conducted on the Rod Graves farm, farm manager Ralph Beauprez; seeded 5/2 and harvested 10/7.

[2]Yields corrected to 15.5% grain moisture.

[3]$LSD_{(0.30)}$ 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: corn
Irrigation: sprinkler
Growing Degree Days: 2778 (2007 GDD); 2667 (Long Term Ave GDD)
Soil Type: Bijou loamy sand
Fertilization: 240 lbs N $acre^{-1}$; 25 lbs P_2O_5 $acre^{-1}$; 40 lbs K_2O $acre^{-1}$
Herbicide: Lumax
Insecticide: none

Table 7. 2-Yr Average Irrigated Corn Variety Performance at Wiggins in 2006-07.

Hybrid	Yield	Grain Moisture	Test Weight
	bu/ac	%	lb/bu
DEKALB DKC60-18 (RR2/YGPL)	223.5	14.2	57.6
DEKALB DKC54-46 (RR2/YGPL)	223.1	13.6	59.4
Dyna-Gro 55P86 (RR/YGCB)	214.0	14.8	57.5
Dyna-Gro 57P69 (RR/YGCB)	200.5	14.9	56.8
Dyna-Gro 55B65 (RR/YGPL)	174.8	13.3	57.6
Average	**207.2**	**14.1**	**57.8**

Table 8. Irrigated Corn Variety Performance Trial at Yuma[1] in 2007.

Hybrid	Yield[2]	Grain Moisture	Test Weight	Plant Height	Density	Lodging[3]
	bu/ac	%	lb/bu	inches	plants/ac	%
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[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	4	923	
[5]$LSD_{(0.05)}$	26.5	0.9	0.9	7	1757	

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

[2]Yields corrected to 15.5% grain moisture.

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

[4]The Check is Pioneer 34A15.

[5]$LSD_{(0.30)}$ 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

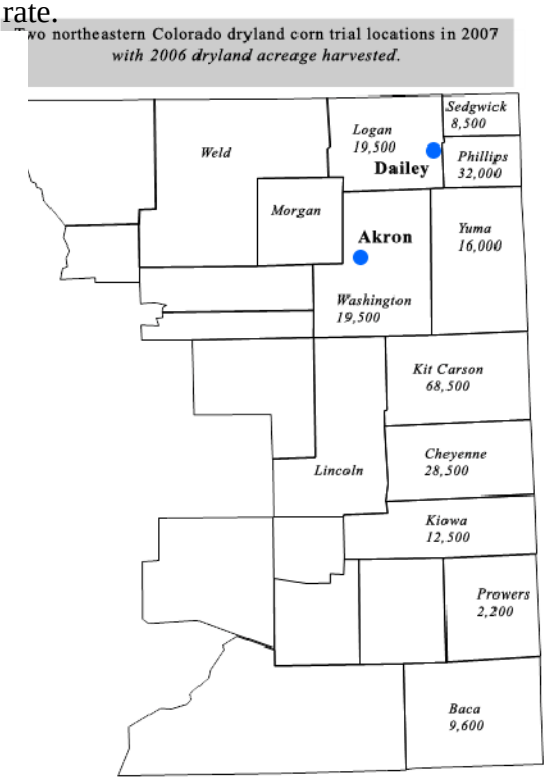
Experimental Design: randomized complete block, 3 replications
Seeding Rate: approximately 34,000 seeds/acre
Previous Crop: kidney beans
Irrigation: sprinkler
Growing Degree Days: 3031 (2007 GDD); 2615 (Long Term Ave GDD)
Soil Type: Julesburg loamy sand
Fertilization: 267 lbs N $acre^{-1}$; 67 lbs P_2O_5 $acre^{-1}$; 37 lbs K_2O $acre^{-1}$; 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

Table 9. 2-Yr Average Irrigated Corn Variety Performance at Yuma in 2006-07.

Hybrid	Yield	Grain Moisture	Test 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**

Eastern Colorado Dryland Grain Corn Performance Data

The 2007 dryland corn variety trial compared two locations in Colorado and two in Nebraska. All varieties were planted in a paired design at each location. Dryland trial plots were 31 feet long and a target population of 15,000 plants/ac. All plots were 4 rows wide in a paired trial design with four replicates. The dryland corn trials also included a seed treatment, Myconate®, which was applied at the recommended rate.



2007 Colorado and Nebraska Skip Row vs. Full Row Dryland Corn Variety Trial

CSU Crop Testing, Alex Pavlista, Glen Frickel, Robert Klein, and Jeffrey Golus

All dryland variety trials are more variable than irrigated trials and dryland corn variety trials are more variable than most dryland crop trials. Skip row yield trends indicate that at Akron and Dailey (lower yield environments in 2007), the plant-2-skip-2 configuration increased yields on the average by 16%. At Sidney and North Platte (higher yield locations), conventional full row configuration plots out-yielded the skip row configuration by 17%. Skip row planting appears to be advantageous in lower-yielding environments and disadvantageous in high yielding environments.

At Akron, where the skip row yield advantage was most remarkable, all varieties yielded higher under skip row than under full row, with increases varying from 5% to 60%. At North Platte, where full row yield advantage was most remarkable, all varieties yielded higher under full row, with specific variety yield increases varying from 8% to 27%.

2007 Colorado and Nebraska Skip Row vs Full Row Dryland Corn Variety Research Results.

Hybrid (alphabetical)	Akron, CO[1]		Dailey, CO[2]		North Platte, NE[3]		Sidney, NE[4]	
	Skip Row Yield[5]	Full Row Yield[5]	Skip Row Yield[5]	Full Row Yield[5]	Skip Row Yield[5]	Full Row Yield[5]	Skip Row Yield[5]	Full Row Yield[5]
	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac
DEKALB DKC52-63 (RR2/YGCB)	53.1	50.5	83.0	83.8	115.6	145.6	100.6	106.7
DEKALB DKC58-16 (VT3)	43.8	35.9	75.5	65.9	108.5	133.9	101.6	121.0
DEKALB DKC58-16 (VT3)+Micro-AZ[6]	48.4	38.3	85.1	67.5	123.4	141.2	115.1	128.9
DEKALB DKC58-16 (VT3)+Myconate[7]	62.3	46.9	74.0	75.2	120.6	138.2	114.6	115.8
Dyna-Gro 53P87 (RR2/YGCB)	33.1	29.9	83.3	68.0	97.6	133.5	90.6	119.3
Dyna-Gro 54T42 (RR2/HXI)	37.6	23.5	77.9	69.1	122.0	147.4	103.5	104.1
Dyna-Gro 55B65 (RR2/YGPL)	57.5	45.0	74.2	71.6	98.7	115.2	100.8	114.1
Dyna-Gro 55P79 (RR2/YGCB)	49.4	32.0	77.5	72.4	115.0	125.6	98.2	111.1
Dyna-Gro 57P69 (RR2/YGCB)	47.1	43.4	86.7	78.2	119.2	130.8	102.8	118.6
Dyna-Gro 57P93 (RR2/YGCB)	47.9	30.4	73.3	63.5	123.1	145.7	108.4	115.3
LG Seeds LG 2475 (BT/RR)	47.6	37.5	75.5	75.1	103.0	121.8	95.2	108.9
LG Seeds LG 2514 (BT/RR)	48.2	36.9	78.8	71.2	95.5	126.6	87.9	109.6
Average	**48.0**	**37.5**	**78.7**	**71.8**	**111.9**	**133.8**	**101.6**	**114.4**
$LSD_{(0.30)}$	11.4	14.1	7.1	9.5	5.3	9.8	8.2	11.4

[1]Trial conducted at the Central Great Plains Research Station.

[2]Trial conducted on the Mark and Neil Lambert farm.

[3]Trial conducted at the University of Nebraska West Central Research and Extension Center.

[4]Trial conducted at the University of Nebraska High Plains Ag Lab.

[5]Yields corrected to 15.5% grain moisture.

[6]TerraMax's Micro-AZ: TerraMax's Micro-AZ is a stabilized formulation of two beneficial micro-organisms, Azospirillum brasilense and lipoferum, in a nutrient blend that increases shelf life and bacteria survivability. This product, available in both liquid and dry formulations, is intended to stimulate root growth and enhance the germination process in grasses, for increased root mass, stand and yield. The organisms in Micro-AZ are naturally occurring and will not harm the environment. TerraMax can be reached at 651-458-4401, or www.terramaxag.com.

[7]Myconate® is a signal compound put out by plant roots in times of stress that is intended to encourage beneficial fungi (mycorrhizae) to colonize them. This simple compound is non-toxic, is quickly broken down in the soil, and is effective in very small quantities. It is available in several formulations some of which are water soluble and is easy to apply to seeds or to soil. Myconate® is a trademark product of Plant Health Care, Inc., 440 William Pitt Way,

Pittsburgh, PA 15238, telephone 412-826-5488 x152.

Site Information	**Akron, CO**	**Dailey, CO**	**North Platte, NE**	**Sidney, NE**
Skip row configuration	Plant 2 skip 2	Plant 2 skip 2	Plant 2 skip 2	Plant 2 skip 2
Full row configuration	Plant all 4 rows	Plant all 4 rows	Plant all 4 rows	Plant all 4 rows
Date of Planting:	5/17/07	5/19/07	5/9/07	5/14/07
Date of Harvest:	10/29/07	10/17/07	10/11/07	10/12/07
Plot Size:	Skip Row = 10' x 31' Full Row = 5' x 31'	Skip Row = 10' x 31' Full Row = 5' x 31'	Skip Row = 15' x 30' Full Row = 10' x 30'	Skip Row = 10' x 24' Full Row = 5' x 24'
Experimental Design:	4 replications	4 replications	4 replications	4 replications
Seeding Rate:	Skip Row=15,000 seeds/ac Full Row=15,500 seeds/ac	Skip Row=15,000 seeds/ac Full Row=15,500 seeds/ac	Skip Row=15,000 seeds/ac Full Row=15,500 seeds/ac	Skip Row=15,000 seeds/ac Full Row=15,500 seeds/ac
Previous Crop:	wheat	wheat	wheat	wheat
Soil Type:	Rago silt loam	Haxtun sandy loam	Holdrege silt loam	Kuma loam
Fertilization:	None	86 lbs N $acre^{-1}$; 45 lbs P_2O_5 $acre^{-1}$	80 lb N preplant as 32-0	60 lbs N $acre^{-1}$
Herbicide:	Round-up	Round-up; Atrazine	Glyphos Xtra; Lumax; Atrazine; Round-up	Atrazine; Dual II; 2,4-D Amine; Round-up
Insecticide:	None	None	Lorsban at planting 8 oz/1000' row	None

Skip Row, Plant Population, and Ear-flex Corn Comparisons

Justin Herman, Neil Hansen, and Dwayne Westfall

A dryland corn study of different ear flex traits, plant populations, and row configurations was conducted in 2006 and 2007 at Sterling and Stratton, Colorado. The study was conducted in a no-till management system at both locations. Drought conditions resulted in very low 2006 yields, but trends were similar to those reported below for 2007. Precipitation for the 2007 corn growing season was 13" at Sterling and 11" at Stratton. Skip-row planting increased yields from 18% to 60%, with the greatest benefit from skip row planting observed for the flex hybrid. In dryland environments, with relatively low yield potential, skip row planting provides a yield advantage over conventional row spacing and is especially valuable for flex ear corn hybrids.

2007 Corn Yields from

Location 1: Sterling, CO		
Conventional Rows (30")	**Non-flex Hybrid DKC 38-33RR**	**Flexing Hybrid DKC 44-46RR**
Seeding Rate (1000 seeds/acre)	**Yield (bu/ac)**	
10	28 b	34 ab
14	17 bc	26 b
18	8.5 c	---
Conventional Row Average	**18**	**30**
Skip-Row (Plant 2-Skip 1)		
10	25 b	40 a
14	20 b	44 a
18	28 b	---
Skip Row Average	**24**	**42**
Location 2: Stratton, CO		
Conventional (30")		
12.5	16 d	29 abcd
17.5	27 bcd	16 d
22.5	17 cd	26 bcd
Conventional Row Average	**20**	**24**
Skip-Row (Plant 2-Skip 1)		
12.5	28 abcd	38 ab
17.5	26 bcd	35 abc
22.5	17 cd	46 a
Skip Row Average	**24**	**40**

Corn Silage Performance Data for Eastern Colorado

Colorado farmers cut 100,000 irrigated acres of corn for silage in 2006 averaging 24.5 t/ac and another 10,000 acres of non-irrigated corn averaged 8 t/ac.

Colorado State University personnel evaluate commercial corn silage hybrids, to provide Colorado farmers with reliable and unbiased hybrid performance information. In 2007, corn silage hybrids were evaluated at Fort Collins in eastern Colorado. The silage yields given below

are reported in tons per acre adjusted to 70% moisture content. The moisture content at the time of harvest is an indicator of hybrid maturity at harvest.

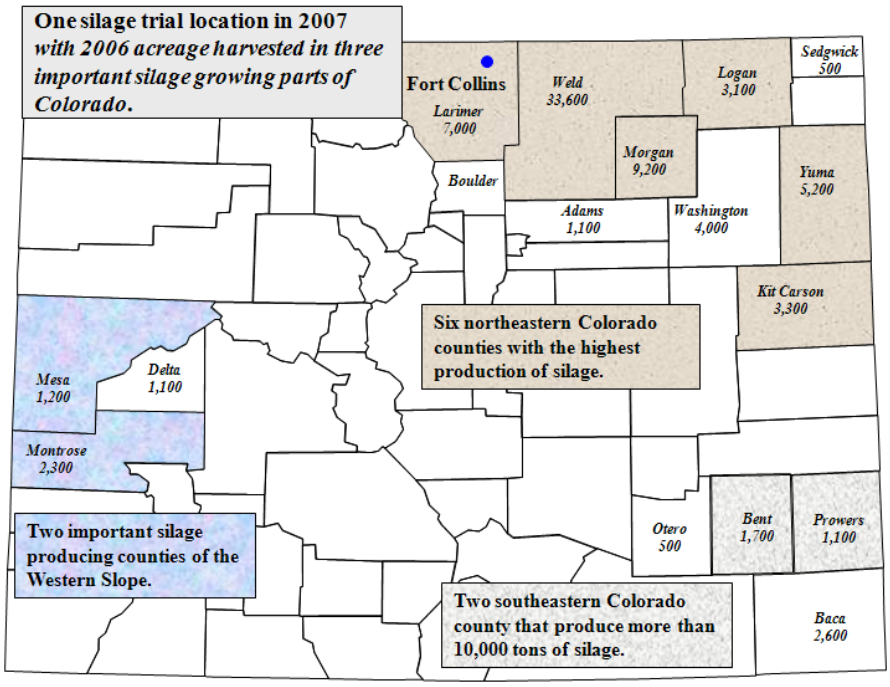


Table 11. Irrigated Corn Silage Variety Performance Trial at Fort Collins[1] in 2007.

Hybrid	Yield[2]	Moisture	Plant Height	Density
	t/ac	%	in	plants/ac
Dyna-Gro 57X97 (HXI)	38.6	68.3	101	31170
Triumph 1866 (RR)	36.6	71.8	107	35106
Dyna-Gro 57P93 (RR2/YGCB)	34.9	69.7	104	30847
Mycogen (TMF) 2L844 (RR)	34.8	72.7	100	27603
Mycogen (TMF) 2Q716 (HX XT/RR)	34.1	66.9	106	30653
Fontanelle 5N503	33.1	60.4	99	33295
Garst 8579 (GT)	32.6	64.6	104	31541
Dyna-Gro 57P12 (RR2/YGCB)	32.5	69.8	93	23819
Mycogen (TMF) 2N804 (HXI/RR)	32.5	72.3	101	30589
Garst 8688 (GT)	32.3	63.8	102	27707
Fontanelle 7K133	31.6	68.8	110	31828
Mycogen (BMR) F2F797	31.3	73.8	109	32654
Garst 8302 (CRW/RR)	31.1	69.1	104	31492
Average	**33.5**	**68.6**	**103**	**30639**
[3]$LSD_{(0.30)}$	3.9	1.6	6	3144
[3]$LSD_{(0.05)}$	7.5	3.1	11	6099

[1]Trial conducted at the Agricultural Research, Development and Education Center; seeded 05/11 and harvested 10/01.

[2]Silage yield correct to 70% moisture content.

[3]$LSD_{(0.30)}$ is more useful for producers using these results to select a variety but some seed company collaborators wish to use $LSD_{(0.05)}$.

Site Information

Plot Size: 5' x 45'

Experimental Design: randomized complete block, 3 replications

Seeding Rate: approximately 34,000 seeds/acre

Previous Crop: wheat

Irrigation: sprinkler

Growing Degree Days: 2703 (2007 GDD); 2316 (Long Term Ave GDD)

Soil Type: Fort Collins clay loam

Fertilization: 85 lbs N $acre^{-1}$; 40 lbs P_2O_5 $acre^{-1}$

Herbicide: Lasso, Marksman

Insecticide: none

Evaluation of Golden Harvest brand corn hybrids at Fruita, Colorado[1] 2007[2].

Hybrid	Relative maturity	Grain moisture	Grain yield[3]	Grain yield	Plant population	Test weight
	days	%	lbs/acre	bushel/acre	no./acre	lbs/bushel
			Maturity Grouping #1			
H-7935Hx/LL	103	12.0	10,808	193	20,550	60.8
H-7436CB/LL	99	12.8	10,686	191	21,545	61.2
H-8061CB/LL	104	12.6	10,338	184	22,255	62.6
H-7540	100	11.7	9,519	170	22,207	59.3
H-7525LL	100	12.4	9,404	168	22,491	62.7
H-7506Hx/LL	100	12.3	9,084	162	22,349	62.4
			Maturity Grouping #2			
H-8281Hx/LL	106	13.4	12,409	222	23,012	61.1
H-8937CB/LL	111	13.0	11,730	210	22,302	60.5
H-8713CB/LL	109	13.1	11,702	209	21,970	60.1
H-8998GT/RW	111	13.8	11,514	206	22,302	61.4
H-8529CB/LL	108	12.2	11,277	202	20,787	58.8
H-8952CB/LL	111	13.0	11,196	200	20,787	60.7
H-8665CB/LL	109	12.6	11,072	198	21,118	61.5
H-8265CB/LL	106	12.6	10,833	194	21,734	62.2
H-8318CB/LL	106	12.1	10,856	194	22,397	61.0
H-8613	108	13.1	10,235	183	22,018	60.0
H-8364Hx/LL	106	12.6	9,821	175	21,024	61.8
H-8254GT	106	13.1	9,274	166	20,598	62.3
			Maturity Grouping #3			
H-9173CB/LL	113	13.9	13,300	237	22,302	60.2
H-9323Hx/LL	114	14.3	13,116	234	22,823	59.4
H-9143CB/LL/RW	113	14.2	12,617	226	22,444	59.9
H-9098GT/CB/LL	112	14.0	12,077	216	22,065	61.5
H-9127CB/LL	113	13.8	11,963	214	21,355	62.2
H-9507Bt	116	15.0	11,996	214	21,923	60.7
H-9180	113	13.4	11,761	210	22,255	60.7
H-9414CB/LL	115	14.1	11,689	209	21,260	60.1
H-9392CB/LL	115	14.1	9,932	177	21,260	61.4
Average		**13.1**	**11,119**	**199**	**21,820**	**61.0**
LSD (0.05)		**0.5**	**1,326**	**24**	**1,287**	**1.0**

[1]Trial conducted at the Western Colorado Research Center at Fruita.; seeded 4/26 and harvested 11/15.
[2] Grain yields are corrected to 15.5% moisture.
[3]Table is arranged by decreasing yield within each maturity grouping.

Site Information

Plot Size: 5 x 50 feet with 30" row spacing
Experimental Design: Randomized complete block, 4 replications

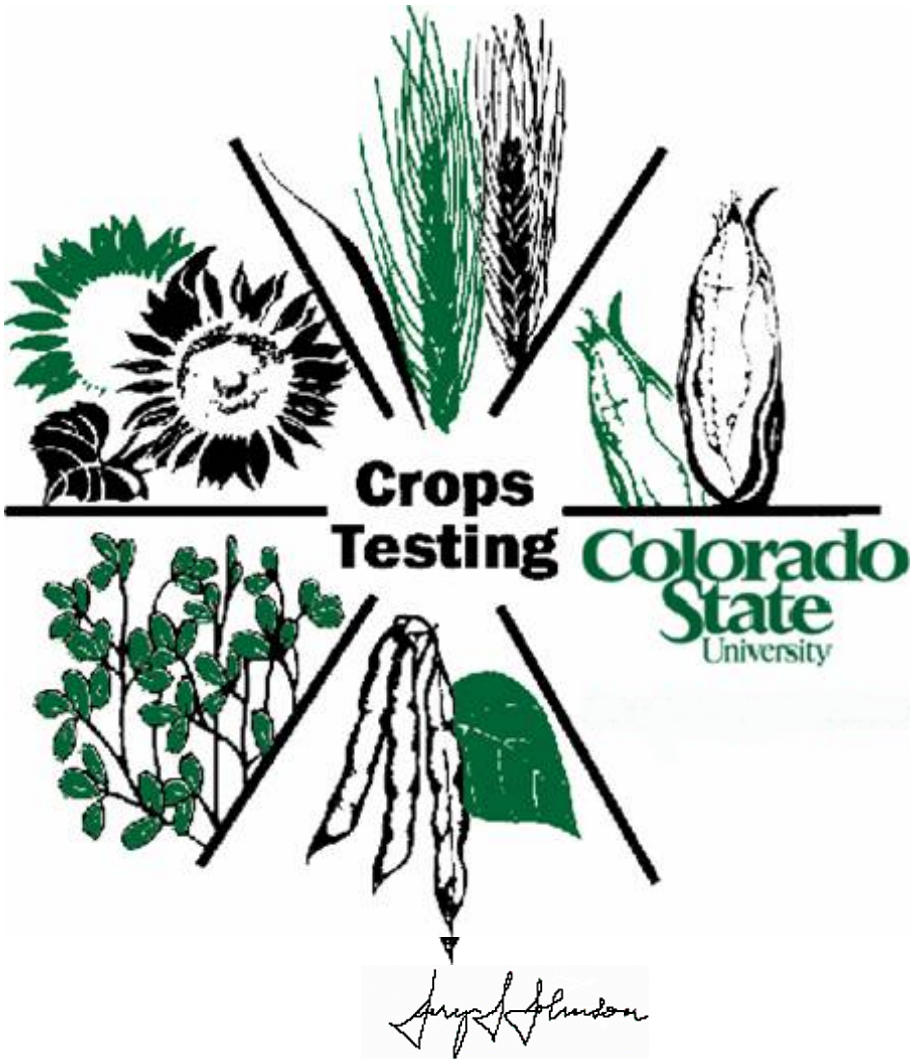
Seeding Rate: 22,880 seeds/acre.
Previous Crop: dry beans
Irrigation: furrow irrigation using gated pipe. Furrow irrigations occurred on 27 April, 4 June, 11 June, 17 June, 30 June, 10 July, 17 July, 30 July, 12 August, and 24 August.
Soil Type: Youngston fine sandy loam
Fertilization: Fertilizer was applied broadcast prior to planting (22 lbs N/acre and 104 lbs P_2O_5/acre) on 19 April 2007, and N was side-dressed (170 lbs N/acre as 32-0-0 in a split application of 85 lbs N/acre on each side of the corn row) on June 9, 2007.
Herbicide: Applied alachlor herbicide PPI at 2.5 qts/acre on April 25, 2007 using 19 gallons water per acre at 25 PSI. Weed control during the 2007 growing season was good.
Insecticide: Applied Force insecticide in furrow at 4 oz/1000 ft of row on April 26, 2007. Dimethoate (1pt/acre) and Comite (2.25 pt/acre) were applied by ground using drop nozzles and in 20 gallons water/acre on June 28, 2007 to control spider mites.

Entry Forms for 2008 Trials

Entry forms for 2008 trials may be obtained from the Crops Testing Project, Department of Soil and Crop Sciences, Colorado State University, 1170 Campus Delivery, C03 Plant Science Building, Fort Collins, CO 80523-1170, or at the CSU Crops Testing website www.csucrops.com.

Seed Company Entrants in the 2007 Colorado Corn Performance Trials

Entrant	Brand/Hybrid	Address	Telephone
Dyna-Gro Seeds	Dyna-Gro	P.O. Box 2050, Kearney, NE 68848	800-652-9298
Fontanelle Hybrid, Inc.	Fontanelle	919 W 23rd Street, Fontanelle, NE 68044	402-721-8567
Garst Seed Company	Garst	46376 County Road 53, Bennett, CO 80102	303-621-7700
LG Seeds	LG	22827 Shissler Road, Elmwood, IL 61529	309-742-2211
Monsanto	DEKALB	800 N. Lindbergh Blvd., St. Louis, MO 63167	800-335-2676
Mycogen Seeds	Mycogen	9330 Zionsville Road, Indianapolis, IN 46268	317-337-4662
NK Brand Seeds, Inc.	NK Brand	86852 572nd Avenue, Box 277, Laurel, NE 68745	402-256-9109
Plant Health Care, Inc.	Myconate	7521 Tynewind Drive, Wake Forest, NC 27587	919-882-8622
Producers Hybrids	Producers Hybrids	3324 Schroeder Avenue, Grand Island, NE 68803	308-750-4245
Terra Max, Inc.	Micro-AZ	7769 95th Street, Cottage Grove, MN 55016	651-458-4401
Trisler Seed, Inc.	Trisler	3274 E. 800 North Road, Fairmount, IL 61841	217-288-9301
Triumph Seed Co, Inc.	Triumph	P.O. Box 1050, Ralls, TX 79357	800-530-4789



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