Colorado State University EXTENSION

Crops Testing
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2021 Irrigated Corn Hybrid Performance Trial at Burlington

Brand	Hybrid	Insect and Herbicide Technology Traits[a]	Grain Yield[b]	Yield	Relative Maturity[c]	Moisture	Test Weight	Plant Height	Population
			bu/ac	% of test avg.		percent	lb/bu	in	plants/ac
111-115 Relative Maturity									
Hoegemeyer Hybrids	8235 Q	Q, LL, RR2	**203**	127%	112	16	63	113	35,500
Dyna-Gro Seed	D51VC67	VT2P, RR2	**192**	121%	111	14	61	116	32,800
Dyna-Gro Seed	D51VC41	VT2P, RR2	186	116%	111	12	60	98	31,400
Local Seed	LC1577 VT2P	VT2P, RR2	184	115%	115	14	62	117	35,400
Local Seed	LCX11-24 SSX	STX, LL, RR2	177	111%	111	12	60	118	34,800
Dyna-Gro Seed	D51SS41	STX, LL, RR2	165	103%	111	13	61	114	34,500
Dyna-Gro Seed	D51SS61	STX, LL, RR2	158	99%	111	14	61	106	31,400
Local Seed	LCX12-20 VT2P	VT2P, RR2	157	99%	112	13	61	118	32,500
Local Seed	LCX15-26 SSX	STX, LL, RR2	156	98%	115	16	61	101	32,400
Hoegemeyer Hybrids	8188 Q	Q, LL, RR2	155	97%	111	15	62	114	34,500
RENK	RK882TRE	VT2P, RR2	140	88%	111	14	61	100	33,700
Dyna-Gro Seed	D52DC82	VT2P, RR2	136	86%	112	14	60	98	35,700
Local Seed	LC1108 TC	TRE, RR2	136	85%	111	13	60	116	31,100
NK Seed	NK1460	5222, RR2	123	77%	114	13	60	104	33,200
NK Seed	NK1349	5222, RR2	114	72%	113	15	62	108	33,200
103-110 Relative Maturity									
NK Seed	NK1082	5222, RR2	**201**	126%	110	13	60	116	32,500
Hoegemeyer Hybrids	7404 Q	Q, LL, RR2	**193**	121%	104	14	62	118	33,700
RENK	RK782VT2P	VT2P, RR2	174	109%	109	13	62	112	34,000
Dyna-Gro Seed	D48QZ22	3220, RR2	171	107%	108	12	60	114	33,600
Dyna-Gro Seed	D45TC55	TRE, RR2	171	107%	105	12	61	116	33,800
Dyna-Gro Seed	D44SS54	STX, LL, RR2	168	106%	104	13	61	101	32,000
Dyna-Gro Seed	D49SS70	STX, LL, RR2	160	100%	109	13	61	112	33,400
NK Seed	NK0821	5122, RR2	159	100%	108	12	60	112	35,400
Dekalb	DKC56-65	STX, LL, RR2	159	100%	106	13	61	100	35,900
Local Seed	LC0707 DGVT2P	DG, VT2P, RR2	158	99%	107	14	61	114	34,000
Local Seed	LC0518 VT2P	VT2P, RR2	154	96%	105	12	60	94	31,900
Dekalb	DKC54-64	STX, LL, RR2	153	96%	104	12	60	106	32,000
Dyna-Gro Seed	D50VC09	VT2P, RR2	152	95%	109	12	60	105	31,900
Dekalb	DKC59-81	STX, LL, RR4	148	93%	109	13	61	101	35,200
Local Seed	LCX07-11 VT2P	VT2P, RR2	141	89%	107	13	62	115	31,900
Dyna-Gro Seed	D50VC78	VT2P, RR2	133	84%	110	13	60	104	33,400
Dyna-Gro Seed	D43SS81	STX, LL, RR2	127	80%	103	12	60	115	34,700
		Average	**160**		**109**	**13**	**61**	**109**	**33,500**
		[d]LSD (0.30)	15						
		[d]LSD (0.05)	29						

[a]Technology trait designations: 3220=Agrisure Viptera 3220 E-Z Refuge; 5122=Agrisure Duracade 5122 E-Z Refuge; 5222=Agrisure Duracade 5222 E-Z Refuge; DG=DroughtGard; LL=LibertyLink; Q=QROME; RR2=Roundup Ready 2; STX=SmartStax; TRE=Trecepta; VT2P=VecTran Double Protection. For a list of specific pests controlled by each trait, please click here.

[b]Yields corrected to 15.5% moisture. Hybrid yields in bold are in the top LSD group (0.30).

[c]Relative maturity is provided by the respective companies and is the approximate time from planting to harvest maturity. The method of calculation of the relative maturity ratings may vary among companies.

[d]Farmers selecting a hybrid based on yield should use the LSD (.30) to protect themselves from false negative decisions. Companies or researchers may be interested in the LSD (.05) to avoid false positive conclusions.

Site Information

Collaborator:	Tim Stahlecker
Planting Date:	May 4, 2021
Harvest Date:	October 29, 2021
Herbicides:	Callisto and Anthem Maxx applied on May 28th and glyphosate and Status applied on June 24th at labeled rates.
Soil Type:	Kuma-Keith silt loams
Trial Coordinates:	39.39519, -102.45186
Trial Comments:	Hail damage occurred around V8 growth stage (pre-tasseling) which caused shredded leaves in most of the canopy along with light to moderate stalk bruising. The combination of stalk rot and late-season winds caused significant plant lodging throughout the trial (affected all hybrids).