



2021 Irrigated Corn Hybrid
Performance Trial at Sterling

Brand	Hybrid	Insect and Herbicide Technology Traits ^a	Grain Yield ^b bu/ac	Yield % of test avg.	Relative Maturity ^c	Moisture percent	Test Weight lb/bu	Greensnap percent	Plant Height in	Population plants/ac
109-111 Relative Maturity										
Dyna-Gro Seed	D51VC41	VT2P, RR2	266	122%	111	24	56	4	110	31,900
Dyna-Gro Seed	D51VC67	VT2P, RR2	254	116%	111	24	56	5	111	32,400
Dyna-Gro Seed	D50VC78	VT2P, RR2	246	112%	110	23	57	11	110	31,700
Dyna-Gro Seed	D51SS41	STX, LL, RR2	233	107%	111	22	57	13	108	31,900
Dyna-Gro Seed	D49SS70	STX, LL, RR2	230	105%	109	22	60	18	117	32,700
Dyna-Gro Seed	D51SS61	STX, LL, RR2	227	104%	111	23	58	14	113	31,900
Dekalb	DKC59-81RIB	STX, LL, RR2	222	102%	109	22	59	26	116	33,000
Dyna-Gro Seed	D50VC09	VT2P, RR2	220	101%	109	23	56	14	114	32,200
103-108 Relative Maturity										
Dyna-Gro Seed	D48QV22	3330, RR2	270	123%	108	24	56	16	117	32,700
Dekalb	DKC54-64RIB	STX, LL, RR2	214	98%	104	18	60	1	109	32,400
Dekalb	DKC56-65	STX, LL, RR2	210	96%	106	22	58	20	107	34,600
Dyna-Gro Seed	D43SS81	STX, LL, RR2	208	95%	103	19	61	10	111	33,300
Allegiant	10747	STX, LL, RR2	204	93%	107	20	60	16	110	31,900
Allegiant	10454	STX, LL, RR2	189	87%	104	20	59	20	112	33,300
Dyna-Gro Seed	D44SS54	STX, LL, RR2	189	87%	104	18	60	28	109	31,900
Dyna-Gro Seed	D45TC55	TRE, RR2	115	52%	105	22	58	66	114	34,800
Average			219		108	22	58	18	112	32,700
			^d LSD (0.30)	17						
			^d LSD (0.05)	33						

^aTechnology trait designations: 3330=Agrisure Viptera 3330 E-Z Refuge; LL=LibertyLink; 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](#).

^bYields corrected to 15.5% moisture. Hybrid yields in bold are in the top LSD group (0.30).

^cRelative 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.

^dFarmers 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: Kevin Luft
 Planting Date: May 20, 2021
 Harvest Date: October 25, 2021
 Fertilizer: Pre-plant: N at 80, P at 40, and S at 20 lb/ac; Planting: N at 5, P at 16 lb/ac; In-season: N at 90 and S at 16 lb/ac
 Herbicide: Makaze, Diflexx, and atrazine
 Soil Type: Nunn clay loam
 Trial Coordinates: 40.66697, -103.17703
 Trial Comments: Trial had hail damage on lower leaves from storm in early June. A windstorm in July caused greensnap and some hybrids were more affected than others. Hybrids with significant greensnap (over 50% snapped) subsequently had lower grain yield.

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