Colorado State University EXTENSION

Crops Testing
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2020 Limited Irrigation Corn Variety Performance Trial at Burlington

Brand	Hybrid	Insect and Herbicide Technology Traits[a]	Yield[b]	Relative Maturity[c]	Moisture	Test Weight	Plant Height	Population
			bu/ac		percent	lb/bu	in	plants/ac
Dyna-Gro Seed	D55VC80	VT2P, RR2	**220.5**	115	18.9	57.9	106	33,355
Dyna-Gro Seed	D52SS63	STX, RR2, LL	202.3	112	16.4	58.9	96	32,857
Dyna-Gro Seed	D54SS74	STX, RR2, LL	201.3	114	17.6	58.2	100	31,985
Dyna-Gro Seed	D54SS34	STX, RR2, LL	199.3	115	19.9	58.4	104	31,612
Dekalb	DKC63-90RIB	STXRIB, RR2, LL	192.3	113	16.9	58.0	92	33,728
Dyna-Gro Seed	D51VC67	VT2P, RR2	178.6	111	15.2	58.0	99	32,359
Dyna-Gro Seed	D52DC82	VT2P, RR2	169.1	112	16.2	57.8	107	27,754
Dyna-Gro Seed	D54VC14	VT2P, RR2	166.4	114	16.2	59.2	93	32,608
NK Seed	NK0821-5122A	5122, RR2	166.0	108	13.5	58.3	98	33,728
Dyna-Gro Seed	D53VC33	VT2P, RR2	163.6	113	14.2	57.9	104	31,239
Dekalb	DKC54-64RIB	STXRIB, RR2, LL	160.5	104	13.7	58.5	90	33,230
Dyna-Gro Seed	D50VC78	VT2P, RR2	159.1	110	15.6	58.0	100	31,861
NK Seed	NK1364-3111	3111, RR2, LL	157.1	113	14.7	55.7	105	32,483
NK Seed	NK1205-3120	3120, RR2, LL	156.2	110	13.3	57.7	100	31,861
Dyna-Gro Seed	D51VC41	VT2P, RR2	150.0	111	13.0	57.7	93	33,230
Dyna-Gro Seed	D53TC19	TRE, RR2	136.3	113	15.9	58.1	100	34,475
Pioneer	P0622AML	AML, RR2, LL	133.8	106	13.6	58.7	92	33,977
Dekalb	DKC55-85RIB	VT2PRIB, RR2	110.1	105	13.6	57.5	98	33,603
NK Seed	NK0962-5222A	5222, RR2	108.4	110	14.2	56.7	102	35,221
NK Seed	NK1188-5122	5122, RR2	90.8	111	14.5	58.6	108	34,599
Average			**161.1**	**111**	**15.3**	**58.0**	**99**	**32,788**
[d]LSD (P<0.30)			14.4					
[d]LSD (P<0.05)			27.5					

[a]Technology trait designations: 3111=Agrisure Viptera 3111; 3120=Agrisure 3120 E-Z Refuge; 5122=Agrisure Duracade 5122 E-Z Refuge; AML=AcreMax Leptra; 5222=Agrisure Duracade 5222 E-Z Refuge; LL=LibertyLink tolerant; RR2=Roundup Ready 2 tolerant; STX=SmartStax; STXRIB=SmartStax Refuge in the Bag Complete; TRE=Trecepta; VT2PRIB=Genuity VecTran Double Protection Refuge in the Bag Complete.

[b]Yields corrected to 15.5% moisture.

[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]If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant. Hybrid yields in the top yield group (P<0.30) are in bold. Farmers should use the LSD (P<0.30) for selecting superior hybrids to minimize economic loss due to false negative results and others may use LSD (P<0.05) to minimize the risk of false positive results.

Site Information

Collaborator: Tim Stahlecker
Planting Date: May 2, 2020
Harvest Date: October 18, 2020
Fertilizer: Pre-plant: N at 214, P at 47, Zn 1 lb/ac. Starter: N at 2, P at 7, and Zn at 0.5 lb/ac
Soil Type: Kuma-Keith silt loam
Trial Coordinates: 39.395, -102.45
Comments: Trial experienced high winds resulting in ear drop (less than 15%) and severe lodging (over 50%) throughout the trial.