

NCR-167 Uniform 100-300 Maturity Trials - 2002

Trials were conducted at four locations (Elora, Ontario; Ottawa, Ontario; Cortland, NY; Fargo, ND) in 2002 from single-cross seed produced in 2001. Due to testcross seed production problems experienced in 2001, cooperators entered hybrid combinations of interest to them. Table 1 contains the individual location and combined results from three locations for grain yield (bu/ac), % moisture, % stalk lodging, and performance index (bu/ac / % moisture). Data from the Cortland, NY location were not submitted. Included in the trial, as checks, were five commercial hybrids.

Production of testcross seed for 2003 trials was done in Guelph, Ontario. Forty-two experimental inbred lines were included in our LH295 and MBS1236 isolation nurseries. Testcross seed quantities are sufficient for all but two entries, both involving the same experimental inbred, NY03042 (Table 2).

Testcross seed production for the 2004 trials is being attempted in Guelph, Ontario using two inbred testers, LH304 and LH295.

100-300 Maturity Group Sub-committee:

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2002 - NCR 100-300 trials

ENTRY	PEDIGREE	Elora, Ontario				Fargo, ND					Ottawa, Ontario					Combined				
		Moisture (%)	Yield (bu/ac)	Test wt. (lbs/bu)	Broken Stalks (%)	Moisture (%)	Yield (bu/ac)	Test wt. (lbs/bu)	Root Lodging (%)	Broken Stalks (%)	Moisture (%)	Yield (bu/ac)	Test wt. (lbs/bu)	Broken Stalks (%)	Root Lodging (%)	Moisture (%)	Yield (bu/ac)	Test wt. (lbs/bu)	Broken Stalks (%)	INDEX
1	CG 105xLH295	20.60	151.90	63.80	2.77	14.80	65.30	62.23	0.00	1.30	20.97	132.84	48.43	0.0	0.0	18.79	116.68	54.51	1.36	5.98
2	(CCGP A (RRS) C2xN2555)xMBS1236	23.27	124.47	66.73	5.57	17.00	75.90	66.59	0.00	4.30	22.00	98.65	54.37	1.1	0.0	20.76	99.67	58.67	3.66	4.80
3	(CCGP A (RRS) C2xN2555)xMBS1236	22.37	127.53	67.00	22.20	16.70	105.10	65.14	0.00	1.80	27.24	112.60	54.23	1.1	0.7	22.10	115.08	58.31	8.37	5.34
4	(CG SYN A (RRS) x3475)xMBS1236	24.03	99.87	66.53	6.13	17.80	70.80	61.74	0.00	0.00	25.64	74.87	52.58	0.4	0.4	22.49	81.85	56.67	2.18	3.70
5	(CG SYN A (RRS) x3475)xMBS1236	22.50	114.17	65.70	9.97	16.40	80.60	65.14	0.00	1.20	21.65	108.42	52.83	0.0	0.0	20.18	101.06	57.41	3.72	5.08
6	(CG CBII (RRS) C3x3876)xMBS1236	23.33	110.50	66.90	6.67	16.60	55.40	66.96	0.00	0.00	31.51	47.76	53.94	0.0	0.7	23.81	71.22	58.68	2.22	3.18
7	CO439xLH176	27.20	151.97	67.63	7.77	23.10	86.80	58.10	4.90	0.00	32.36	141.05	56.22	0.4	0.4	27.55	126.61	57.25	2.72	4.61
8	CO439xCO388	30.80	129.80	70.77	3.90	35.40	79.30	59.56	0.00	0.00	31.94	104.03	58.61	1.1	0.0	32.71	104.38	59.49	1.67	3.30
9	CO398xLH176	21.07	109.97	64.33	1.10	15.50	74.80	62.47	1.20	2.30	19.96	100.55	45.98	1.8	0.0	18.84	95.11	53.94	1.73	5.07
10	CO398xCO388	24.40	144.97	68.87	7.20	18.40	103.80	63.20	1.00	0.00	26.51	131.56	52.32	1.1	0.4	23.10	126.78	57.76	2.77	5.52
11	CO381xCO388	23.17	131.43	68.20	16.10	16.20	100.30	65.99	0.00	0.00	27.80	107.38	55.64	1.5	0.0	22.39	113.04	59.41	5.87	5.30
12	CO328xCO388	26.43	126.83	68.53	11.67	23.50	93.50	60.65	0.00	0.00	31.48	115.21	54.07	2.2	2.2	27.14	111.85	57.53	4.62	4.14
13	CO386xCO388	26.57	135.13	70.93	2.77	23.10	109.70	61.62	0.00	0.00	28.57	126.34	54.59	0.0	0.0	26.08	123.72	58.77	0.92	4.76
14	CO365xCO388	26.00	137.00	69.67	10.57	23.70	69.80	61.38	0.00	0.00	30.60	125.61	60.15	2.9	0.7	26.77	110.80	60.14	4.49	4.16
15	LH160 X LH163 X ND97-23	25.00	39.87	-9.00	0.00	17.30	63.40	61.14	0.00	1.10	29.00	85.35	58.90	0.7	1.1	23.77	62.87	59.13	0.60	2.81
16	LH176 X LH177 X ND99-16	25.37	67.97	63.83	0.57	17.10	104.60	62.59	0.00	0.00	31.92	120.38	56.22	0.0	0.0	24.80	97.65	57.22	0.19	4.21
17	LH160 X LH163 X ND01-3	24.57	49.33	63.10	0.57	19.70	73.10	62.59	0.00	0.00	28.65	113.14	54.98	0.0	0.4	24.31	78.52	56.56	0.19	3.18
18	LH160 X LH163 X ND99-14	22.30	36.87	-9.00	0.00	17.20	90.40	63.08	0.00	3.30	23.66	99.38	52.90	1.1	3.3	21.05	75.55	56.93	1.47	3.81
19	LH160 X LH163 X ND99-8	24.20	69.20	64.07	1.10	18.30	78.50	61.14	0.00	0.00	30.54	123.24	57.58	0.7	1.5	24.35	90.31	57.35	0.60	3.77
20	LH160 X LH163 X ND99-16	27.80	40.63	-9.00	0.00	20.20	81.90	61.01	0.00	0.00	27.92	115.90	52.21	0.0	0.4	25.31	79.48	55.73	0.00	3.24
21	LH227 X LH228 X ND01-4	-9.00	12.50	-9.00	-9.00	19.30	71.80	60.65	0.00	2.60	33.36	95.94	55.62	0.4	1.5	26.90	60.08	57.29	2.90	3.29
22	LH160 X LH163 X ND01-05	24.50	89.27	67.90	4.43	18.10	85.50	62.83	2.00	2.00	27.82	107.29	55.70	2.2	2.2	23.47	94.02	58.47	2.88	4.11
23	LH177/73118	23.17	126.57	64.40	2.77	16.60	80.20	65.14	0.00	0.00	21.64	135.13	53.50	1.5	0.4	20.47	113.97	57.20	1.42	5.51
24	93-183/LH176/LH177	24.73	116.60	65.87	1.67	20.30	49.50	62.23	0.00	0.00	25.11	144.11	54.26	1.1	0.4	23.38	103.40	57.14	0.92	4.30
25	A634H/32311C-A	24.77	122.63	66.73	2.23	17.70	76.20	60.04	0.00	0.00	25.59	138.10	54.19	0.7	0.0	22.69	112.31	56.81	0.98	4.86
26	HYLAND HL2222	21.33	140.10	64.63	5.00	15.90	55.90	61.38	0.00	2.30	18.81	106.34	55.51	0.7	0.0	18.68	100.78	56.92	2.67	5.31
27	MYCOGEN 1877	22.73	66.43	68.40	1.13	16.50	60.60	64.65	0.00	0.00	22.32	86.63	58.03	0.4	0.0	20.52	71.22	59.91	0.51	3.48
28	NK N17-G7	21.73	132.57	66.10	0.00	16.00	77.80	63.08	0.00	0.00	23.32	88.17	56.35	0.4	0.0	20.35	99.51	58.15	0.13	4.95
29	PIONEER 39D81	22.97	140.30	64.97	10.00	16.50	121.20	63.44	0.00	0.90	21.34	134.90	53.80	1.8	0.0	20.27	132.13	57.02	4.23	6.52
30	PIONEER 38P05	24.23	143.07	67.50	1.13	17.40	79.30	63.93	1.10	1.00	24.75	157.89	56.50	0.7	0.0	22.13	126.75	58.90	0.94	5.56
GRAND MEAN		24.18	106.31	66.66	5.00	18.70	80.70	62.59	0.30	0.80	26.47	112.63	54.67	0.9	0.5	23.17	99.88	57.64	2.23	4.46
CV		3.00	13.67	2.08	84.73	11.20	20.30	2.50	520.10	274.30	7.33	11.81	5.11	135.9	207.5	9.45	24.39	3.89	137.21	24.10
LSD		0.77	15.39	1.47	4.49	3.40	19.80	2.10	2.90	3.60	2.65	18.15	3.81	1.6	1.5	2.32	25.78	2.38	3.24	1.14

Variety List for NCR 100-300 Trials in 2003

S02IA (LH295)	S02IB (MBS1236)	ID	SOURCE	NOTES	Seed Quantities	
					LH295 (IA)	MBS1236 (IB)
S02 IA- 1	S02 IB- 1	CGEX02-5	S01 B1- 117-1		3000	2500
S02 IA- 4	S02 IB- 4	CGEX02-8	S01 B1- 130-1		2500	3000
S02 IA- 7	S02 IB- 7	CGEX02-11	S01 B1- 137-1		2500	3000
S02 IA- 8	S02 IB- 8	CGEX02-12	S01 B1- 142-1		2500	3000
S02 IA- 10	S02 IB- 10	CGEX02-13	S01 B1- 145-1		2500	3000
S02 IA- 16	S02 IB- 16	CGEX02-18	S01 B1- 159-1		2500	3000
S02 IA-723	S02 IB-723	CGEX01-14	S01 B1- 44		3000	5000
S02 IA-725	S02 IB-725	CGEX01-16	S01 B1- 48		3000	5000
S02 IA-727	S02 IB-727	CGEX01-17	S01 B1- 49		6000	5000
S02 IA-729	S02 IB-729	CGEX01-19	S01 B1- 53		4000	5000
S02 IA-731	S02 IB-731	CGEX01-20	S01 B1- 56		2250	5000
S02 IA-733	S02 IB-733	CGEX01-21	S01 B1- 57		4000	5000
S02 IA-735	S02 IB-735	CGEX02- 6	S01 B1- 123		5000	5000
S02 IA-737	S02 IB-737	CGEX02-24	S01 B1- 146		5000	5000
S02 IA-739	S02 IB-739	CGEX02-15	S01 B1- 150		5000	5000
S02 IA-741	S02 IB-741	CGEX02-17	S01 B1- 157		6000	5000
S02 IA-743	S02 IB-743	NY85-029	01-3:310		5000	5000
S02 IA-745	S02 IB-745	NY93-178	00-3:52		5000	5000
S02 IA-747	S02 IB-747	NY93-183	01-3:33		4000	5000
S02 IA-749	S02 IB-749	NY93-207	00-5:103	Poor Emergence	3000	1600
S02 IA-751	S02 IB-751	NY03042	00-3:65	Only 1 plant grew	300	no seed
S02 IA-753	S02 IB-753	NY13-166	01-3:166		5000	3000
S02 IA-755	S02 IB-755	ND96-6			5000	3000
S02 IA-757	S02 IB-757	ND96-33			3000	3000
S02 IA-759	S02 IB-759	ND97-43			6000	4000
S02 IA-761	S02 IB-761	ND98-83			3000	3000
S02 IA-763	S02 IB-763	ND98-90			4000	3000
S02 IA-765	S02 IB-765	ND98-99			2400	2350
S02 IA-767	S02 IB-767	ND99-12			6000	4000
S02 IA-769	S02 IB-769	ND99-16			3000	4000
S02 IA-771	S02 IB-771	ND01-1			2500	1300
S02 IA-773	S02 IB-773	ND01-2			6000	4000
S02 IA-775	S02 IB-775	CO02NCR-1	01NBDR-216		5000	4000
S02 IA-777	S02 IB-777	CO02NCR-2	01NBDR-222		5000	5000
S02 IA-779	S02 IB-779	CO02NCR-3	01NINS-249.B		4000	5000
S02 IA-781	S02 IB-781	CO02NCR-4	01NINS-069.B		6000	5000
S02 IA-783	S02 IB-783	CO02NCR-5	01NINS-213.B		6000	5000
S02 IA-785	S02 IB-785	CO02NCR-6	01NINS-135.B		6000	5000
S02 IA-787	S02 IB-787	CO02NCR-7	01NINS-231.B		4000	5000
S02 IA-789	S02 IB-789	CO02NCR-8	01NINS-237.B		5000	5000
S02 IA-791	S02 IB-791	CO02NCR-9	01NSELF-0872.B		5000	5000
S02 IA-793	S02 IB-793	CO02NCR-10	01NSELF-0911.B		6000	5000