

Supplementary file:

Floral traits of single cross hybrids of yellow maize in winter in subtropical Nepalese Himalayan foot plain.

For citation of the supplementary file: Adhikari NR, Ghimire SK, Sah SK, Koirala KB. (2015) Floral traits of single cross hybrids of yellow maize in winter in subtropical Nepalese Himalayan foot plain.

Floral traits of single cross hybrids of yellow maize in winter in subtropical Nepalese Himalayan foot plain.

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The file includes following tables:

Sup Table 1A: Mean square values of flowering and reproductive traits of the hybrids

Sup Table 1B: Mean square values of flowering and reproductive traits of the hybrids

Sup Table 1C: Mean square values of flowering and reproductive traits of the hybrids

Sup Table 1D: Mean square values of flowering and reproductive traits of the hybrids

Sup Table 1E: Mean square values of flowering and reproductive traits of the hybrids

Sup Table 1F: Mean square values of flowering and reproductive traits of the hybrids

Sup Table 1G: Mean square values of flowering and reproductive traits of the hybrids

Sup Table 2: DMRT of floral traits of the maize hybrids grown in winter in subtropical Nepalese Himalayan foot plain.

Sup Table 1A: Mean square values of flowering and reproductive traits of the hybrids in trial A1

SOV	DF	Grain yield	Ear length	TSS	ANTH-TSS	ASI Anth-S	Ear Nos	Sign ears
REP	2	20.606	60.48	0.87	0.18	12.23	0.06	0.40
HYBRIDS	14	6.664*	344.62**	41.447**	4.0455**	21.948**	0.29689**	0.19898*
RESIDUAL	28	3.133	51.28	5.99	0.71	2.99	0.04	0.08

Sup Table 1B: Mean square values of flowering and reproductive traits of the hybrids in trial A1

SOV	DF	E1Rws	E1Knl/row	E1Kernls	TotKenls	Ear1Len	CobLen1	Cob/ Ear%
REP	2	0.33	27.38	5440.00	58582.00	1.18	1.39	14.83
HYBRIDS	14	1.5634*	34.374**	9134**	24138**	44.229**	8.282**	36.71*
RESIDUAL	28	0.67	7.98	2343.00	5455.00	7.87	3.09	16.01

Sup Table 1C: Mean square values of flowering and reproductive traits of the hybrids in trial A1

SOV	DF	ANTH	ANTH25	ANTH50	ANTH75	ANTH100	ANTH100-25
REP	2	0.50	14.16	2.16	0.42	0.82	21.07
HYBRIDS	14	50.243**	29.975**	34.213**	35.832**	54.84**	12.276 ns
RESIDUAL	28	8.24	3.37	3.16	4.09	10.97	7.83

Sup Table 1D: Mean square values of flowering and reproductive traits of the hybrids in trial A1

SOV	DF	SILKI	SILK25	SILK50	SILK75	SILK100	SILK 100-25	SILK-ANTH	ASI 25-25
REP	2	11.49	4.07	5.96	0.07	1.76	1.69	12.23	3.36
HYBRIDS	14	53.25**	22.571**	22.898**	30.105**	99.09**	39.57*	21.948**	13.975**
RESIDUAL	28	12.49	3.21	4.93	6.19	22.07	17.52	2.99	3.52

Sup Table 1E: Mean square values of flowering and reproductive traits of the hybrids in trial A1

SOV	DF	ASI 50-50	ASI 75-75	SAI100-100	SILKSN	SIKSN25	SIKSN50	SIKSN75	SILKSN100	SILKSN100-25
REP	2	1.76	0.29	3.09	48.80	66.47	76.29	39.76	32.47	106.40
HYBRIDS	14	11.756**	17.422*	46.33**	120.83**	106.33**	163.28**	123.4**	142.68**	22.91ns
RESIDUAL	28	2.18	5.10	12.73	22.10	10.73	13.84	17.42	38.01	33.90

Sup Table 1F: Mean square values of flowering and reproductive traits of the hybrids in trial A1

SOV	DF	S SN-S INI 25%	S SN-S INI 50%	S SN-S INI 75%	S SN-S INI 100%	PopSen 100%	Ears/ 100 plants	F-ears/ 100 plants	Pop senes 100%
REP	2	51.47	77.27	39.02	49.16	9.49	3608.00	2752.00	9.49
HYBRIDS	14	40.43**	68.524**	38.28**	40.79*	12.022**	7379*	3704ns	12.022**
RESIDUAL	28	10.40	9.01	10.07	17.20	3.35	2848.00	2624.00	3.35

Sup Table 1G: Mean square values of flowering and reproductive traits of the hybrids in trial A1

SOV	DF	TSS25	TSS50	TSS75	TSS100	TSS100 TSS-25	ANTH- TSS25	ANTH- TSS50	ANTH- TSS75	ANTH- TSS100
REPLICA	2	7.222	5.356	0.067	5.756	24.089	1.267	0.867	0.622	2.289
HYBRIDS	14	34.413**	49.279**	56.295**	47.47**	10.517*	4.467**	6.676**	10.022**	8.756*
ERROR	28	2.27	3.308	4.805	8.422	5.041	1.505	1.7	2.67	3.456

Sup Table: 2: DMRT of floral traits of the maize hybrids grown in winter in subtropical Nepalese Himalayan foot plain.

Entry	Grain yield (t/ha)		Ear Nos p ⁻¹		Sign ears p ⁻¹		E1Kernls nos		Tot Knls nos		Ear1Len cm		CobLen1 cm		Cob/ear %	
8	12.54	A	2.33	AB	2.00	A	383.73	A-D	721.20	A	35.40	CDE	14.87	BCD	42.00	AB
12	11.80	A	2.47	A	1.73	ABC	350.93	CDE	542.40	BCD	37.40	BCD	15.30	A-D	40.91	ABC
11	11.55	A	1.33	F	1.27	CD	467.33	A	524.93	BCD	40.00	ABC	18.70	A	46.75	A
13	11.31	AB	1.80	E	1.40	BCD	366.93	BCD	488.80	B-E	42.53	AB	17.33	ABC	40.75	ABC
5	11.05	AB	2.27	ABC	1.87	AB	380.40	A-D	599.87	AB	41.07	AB	17.63	ABC	42.94	AB
6	11.02	AB	1.80	E	1.53	A-D	439.07	ABC	571.20	BC	39.67	ABC	16.03	A-D	40.42	ABC
10	9.78	ABC	1.87	DE	1.20	CD	454.40	AB	517.33	BCD	43.00	A	17.70	ABC	41.16	ABC
1	9.75	ABC	2.00	B-E	1.40	BCD	344.27	DE	431.47	CDE	37.33	BCD	15.76	A-D	42.21	AB
7	9.70	ABC	1.93	CDE	1.67	ABC	334.00	DE	536.13	BCD	32.13	DE	13.27	D	41.29	ABC
14	9.64	ABC	1.80	E	1.13	D	353.73	CDE	454.13	CDE	32.73	DE	14.50	CD	44.30	AB
2	9.47	ABC	2.53	A	1.73	ABC	301.07	DE	452.93	CDE	42.13	AB	16.03	A-D	38.05	BC
9	9.30	ABC	2.00	B-E	1.60	A-D	388.67	A-D	513.73	BCD	41.80	AB	18.13	AB	43.38	AB
15	9.17	ABC	1.87	D-E	1.20	CD	334.40	DE	440.13	CDE	31.67	E	15.23	BCD	48.11	A
4	7.87	BC	2.27	ABC	1.60	A-D	261.33	E	348.93	E	39.93	ABC	13.67	D	34.22	C
3	7.03	C	2.20	A-D	1.60	A-D	353.33	CDE	404.80	DE	37.20	BCD	17.43	ABC	46.86	A
Mean	10.07		2.03		1.53		367.57		503.20		38.27		16.11		42.22	

Maize hybrids and their entries are RML-19/NML-2 (1), RL-137/RL-168 (2), RML-55/RL-29 (3), RL-99/RL-161 (4), RML-6/RML-19 (5), RL-111/RL-189 (6), RML-95/RML-96 (7), RML-86/RML-96 (8), RL-36/RL-197 (9), RL-180/RML-5 (10), RML-57/RML-6 (11), RL-170/RL-111 (12), RL-154/RL-111 (13), RML-4/NML-2 (14) and Gaurav (15).