

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. [10.7287/peerj.preprints.897v1/supp-1](https://doi.org/10.7287/peerj.preprints.897v1/supp-1)
https://d3amtssd1tejdt.cloudfront.net/2015/897/1/Supplementary_file1.pdf

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

Nav Raj Adhikari^{1*}, Surya K. Ghimire^{1,2}, Shrawan Kumar Sah³ and Keshab Babu Koirala⁴

¹Department of Plant Breeding, Institute of Agriculture and Animal Science, Tribhuvan University, Chitwan, Nepal.

²Department of Plant Breeding and Genetics, Faculty of Agriculture, Agriculture and Forestry University, Rampur, Chitwan, Nepal.

³Department of Agronomy, Faculty of Agriculture, Agriculture and Forestry University, Rampur, Chitwan, Nepal.

⁴National Maize Research Program, Nepal Agriculture Research Council (NARC), Rampur, Chitwan, Nepal.

*Corresponding author: navraj.adhikari@gmail.com

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).