

Supplementary table

Genotype and Environmental Interactions in Maize (*Zea mays* L.) Across Regions of India: Implications for Hybrid Testing Locations in South Asia

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Supplementary Data

Supplementary Table 1. Location wise mean performance for grain yield (t ha^{-1}) of test entries vs. three commercial checks in 12 locations during rainy season of 2017.

Genotype	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12
VH131306	4.1	2.4	4.7	10.7	7.7	6.1	6.4	3.4	4.5	7.3	7.6	5.2
VH141552	4.1	2.0	4.8	10.4	6.5	4.8	5.9	3.2	3.8	6.8	7.2	5.4
VH13296	4.0	1.8	4.9	9.2	8.5	5.3	6.3	4.2	4.1	7.2	8.3	5.5
VH13306	3.8	2.2	4.9	9.7	9.5	5.9	5.7	3.3	4.6	7.7	7.7	5.4
VH13729	4.4	2.4	4.9	9.0	8.5	5.4	6.1	3.3	4.2	7.0	8.8	5.4
VH13740	4.0	2.0	4.7	9.9	7.6	5.6	6.4	3.5	3.6	8.5	7.9	5.3

VH1640	4.1	2.4	4.9	10.9	8.9	5.6	5.5	3.1	4.2	6.5	8.1	5.5
VH151139	4.7	2.3	5.3	9.6	9.7	6.4	6.5	3.1	4.2	10.2	9.2	5.5
VH15607	4.1	2.0	4.8	9.5	9.0	5.8	6.7	3.5	4.5	7.6	8.7	5.5
VH1652	4.0	2.0	5.0	9.5	8.7	5.4	6.8	3.3	4.6	7.3	7.5	5.4
VH15884	3.8	2.2	4.8	9.9	6.9	5.4	6.3	3.3	4.2	7.3	7.8	5.5
VH1660	4.3	1.8	4.8	10.4	8.1	5.6	6.5	2.6	4.3	9.0	7.9	5.5
VH141618	4.1	2.0	4.7	7.9	7.4	5.3	5.9	2.9	4.2	7.5	8.9	5.4
VH133209	4.4	2.2	4.7	11.1	8.0	6.8	5.9	2.7	4.0	7.3	8.0	5.3
VH151280	4.2	2.1	4.9	7.8	7.0	6.3	6.2	3.0	4.5	6.4	8.7	5.4
VH141229	4.2	2.0	4.7	9.0	8.8	4.3	5.8	2.9	3.9	6.2	8.1	5.3
VH141651	4.2	2.3	5.2	7.9	8.7	4.2	6.3	3.3	3.8	6.6	7.9	5.2
VH13554	4.3	1.9	5.1	9.0	8.0	5.0	6.4	3.3	3.5	5.8	8.5	5.4
VH16161	4.4	2.3	4.8	9.3	7.7	6.9	6.2	3.7	4.4	8.5	8.6	5.4
VH131199	4.2	2.3	4.8	10.1	6.6	6.5	5.9	3.2	4.6	8.0	8.7	5.4
VH131376	4.5	2.2	5.2	10.5	9.9	6.4	6.3	3.3	4.6	8.1	8.7	5.4
P3502	4.7	2.5	5.0	11.2	9.8	6.6	7.3	3.0	4.9	8.8	9.3	5.4
DKC8101	4.5	2.1	5.0	9.5	9.1	5.7	6.3	3.3	4.0	7.5	8.3	5.4
NK6240	4.3	2.3	4.6	10.6	9.6	6.7	7.4	3.5	4.6	8.6	8.3	5.5

Grand mean	4.2	2.1	4.9	9.7	8.3	5.8	6.3	3.2	4.2	7.6	8.3	5.4
LSD	0.80	0.49	0.72	0.68	1.20	0.90	0.75	0.34	1.04	0.71	0.68	0.55
CV%	21.4	20.5	18.9	4.13	10.6	11.2	9.75	6.89	23.7	5.72	6.01	18.7
Heritability	0.32	0.49	0.25	0.93	0.78	0.78	0.63	0.84	0.41	0.92	0.76	0.32

Note: Bold font highlighted test entries were the best performing hybrids in respective location

E1: Agra; E2: Himmatnagar; E3: Meerut; E4: Mandya; E5: Bheemarayanagudi; E6: Nadiad; E7: Ranebennur; E8: Akola; E9: Kalol; E10: Wadadhe; E11: Nagpur; E12: Mahbubnagar

Supplementary Table 2. Descriptions of test locations for the evaluation 21 CIMMYT bred test entries and three commercial checks during the rainy season of 2017.

Code	Location	Longitude	Latitude	Planting Date	Harvesting Date	Rainfall (mm) during crop growth	Plot size (sq m)
Analyzed locations							
E1	Agra (Uttar Pradesh)	27.21N	77.92E	7-Jul-17	20-Oct-17	462	12.6
E2	Himmatnagar (Gujrat)	23.52N	72.90E	26-Jun-17	15-Oct-17	1137	12.6
E3	Meerut (Uttar Pradesh)	28.90N	77.66E	14-Jul-17	30-Oct-17	548	10.2
E4	Mandya (Karnataka)	12.56N	76.83E	24-Aug-17	20-Jan-18	768	10.1
E5	Bheemarayanagudi (Karnataka)	16.73N	76.80E	21-Jun-17	23-Oct-17	644	10.1
E6	Nadiad (Gujrat)	22.69N	72.86E	8-Jul-17	25-Oct-17	1234	10.2
E7	Ranebennur (Karnataka)	14.56N	75.70E	16-Jun-17	4-Nov-17	560	12.6
E8	Akola (Maharashtra)	20.71N	77.22E	10-Jul-17	20-Nov-17	547	10.2
E9	Kalol (Gujrat)	23.14N	72.30E	3-Jul-17	14-Nov-17	894	10.1
E10	Wadadhe (Maharashtra)	20.65N	75.20E	26-Jun-17	27-Oct-17	578	10.2
E11	Chandrapur (Maharashtra)	21.11N	78.86E	28-Jun-17	12-Nov-17	830	10.8
E12	Mahbubnagar (Telangana)	16.68N	78.03E	17-Jul-17	28-Oct-17	644	12.6