

Table 7 Contribution of principal component Axis (PCA) to the variation of the morphological, yield and mutation tolerance traits of maize

Traits	Pin1	Prin2	Prin3	Prin4	Prin5	Prin6	Prin7	Prin8	Prin9	Prin10	Prin11	Prin12	Prin13	Prin14
Plant Height (cm)	0.23	0.53	0.08	0.04	0.21	-0.06	-0.12	-0.13	0.03	0.03	-0.15	-0.08	-0.08	-0.74
Stem Height (cm)	0.17	0.51	0.00	-0.10	0.36	-0.16	-0.10	-0.17	0.21	0.08	-0.03	-0.26	-0.07	0.62
Leaf Area (cm ²)	0.03	-0.04	0.57	0.25	0.19	-0.20	0.05	-0.26	-0.23	-0.12	0.60	0.05	0.19	0.00
Number of Leaves	0.02	0.23	-0.31	0.47	-0.08	0.47	0.07	0.10	0.21	0.23	0.51	0.01	-0.14	0.00
Days of Tasseling	0.36	-0.21	-0.16	0.15	0.15	0.05	0.48	-0.34	-0.18	0.47	-0.23	-0.07	0.32	0.00
Tasseling Length	0.26	0.29	0.23	0.35	-0.28	0.21	-0.11	0.05	-0.42	-0.11	-0.36	0.39	-0.06	0.25
Plant Stand	0.33	-0.09	0.05	-0.19	0.52	0.12	-0.03	0.68	-0.09	0.09	0.10	0.23	0.13	0.00
Ear Aspect	-0.46	0.01	0.16	0.03	0.28	0.02	0.20	0.06	-0.39	0.35	-0.09	-0.06	-0.59	0.00
Husk Cover	-0.41	0.23	0.11	0.13	0.10	0.32	0.20	0.23	-0.11	-0.23	-0.19	-0.43	0.52	0.00
Number of Cobs	-0.40	0.27	0.07	-0.28	-0.05	0.04	-0.12	-0.13	0.10	0.45	0.03	0.54	0.38	0.00
Mutation Tolerance	0.10	0.22	0.29	-0.03	-0.45	-0.38	0.49	0.41	0.22	0.21	0.03	-0.09	-0.03	0.00
Shoot Biomass	0.19	-0.16	0.40	-0.23	-0.26	0.36	-0.41	0.00	-0.04	0.41	0.04	-0.44	0.00	0.00
Root Biomass	0.13	0.11	0.17	-0.51	-0.01	0.49	0.46	-0.24	0.08	-0.30	0.10	0.14	-0.19	0.00
Maize Grain Weight	-0.07	-0.26	0.42	0.34	0.23	0.15	0.01	-0.04	0.64	0.01	-0.33	0.15	-0.09	0.00
Proportion (%)	23.12	18.89	14.53	10.24	7.58	6.79	5.55	3.78	2.84	2.60	1.99	1.35	0.75	0.00
Eigen value	3.24	2.64	2.03	1.43	1.06	0.95	0.78	0.53	0.40	0.36	0.28	0.19	0.10	0.00