

Screening for drought tolerance: comparison of maize hybrids at under water deficit condition (Ali Q, *et al*)

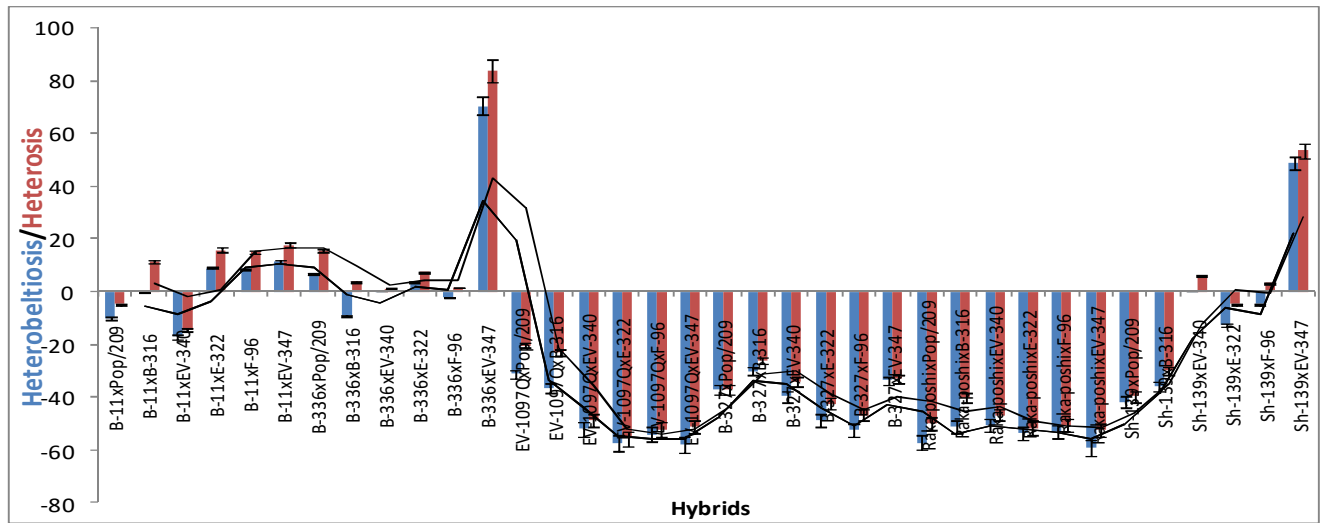


Figure S1: Heterosis and heterobeltiosis of maize F₁ hybrids for Fresh root length

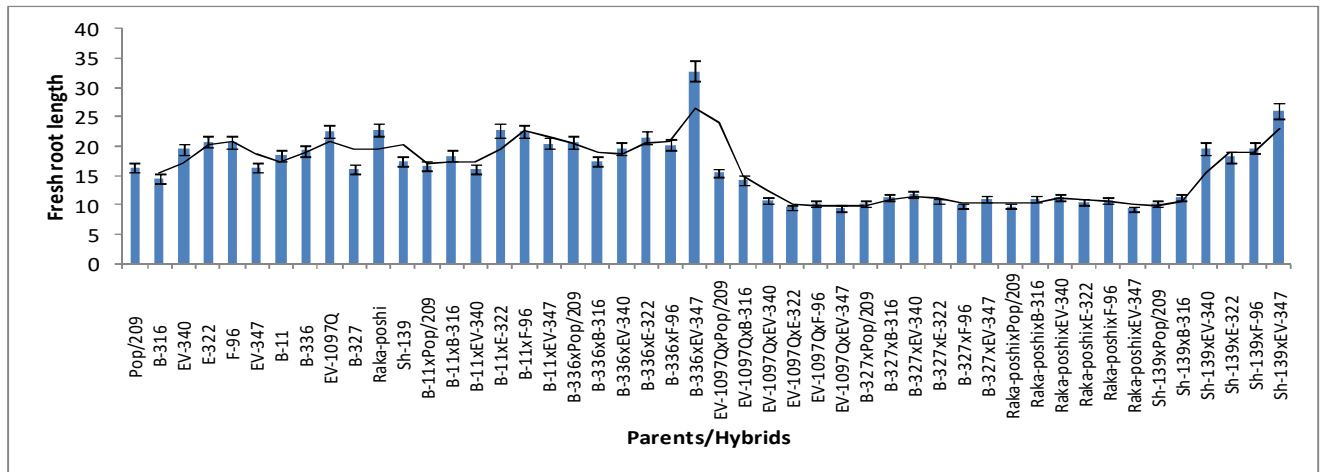


Figure S1a: Mean performance of maize accessions for fresh root length (cm)

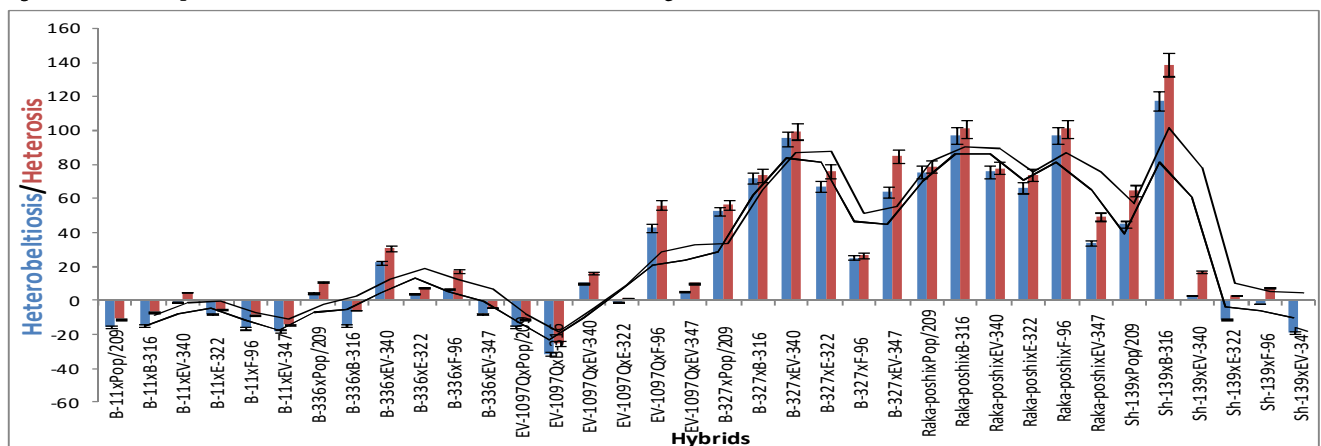


Figure S2: Heterosis and heterobeltiosis of maize F₁ hybrids for Fresh shoot length



Scan QR code to view this publication on your mobile device

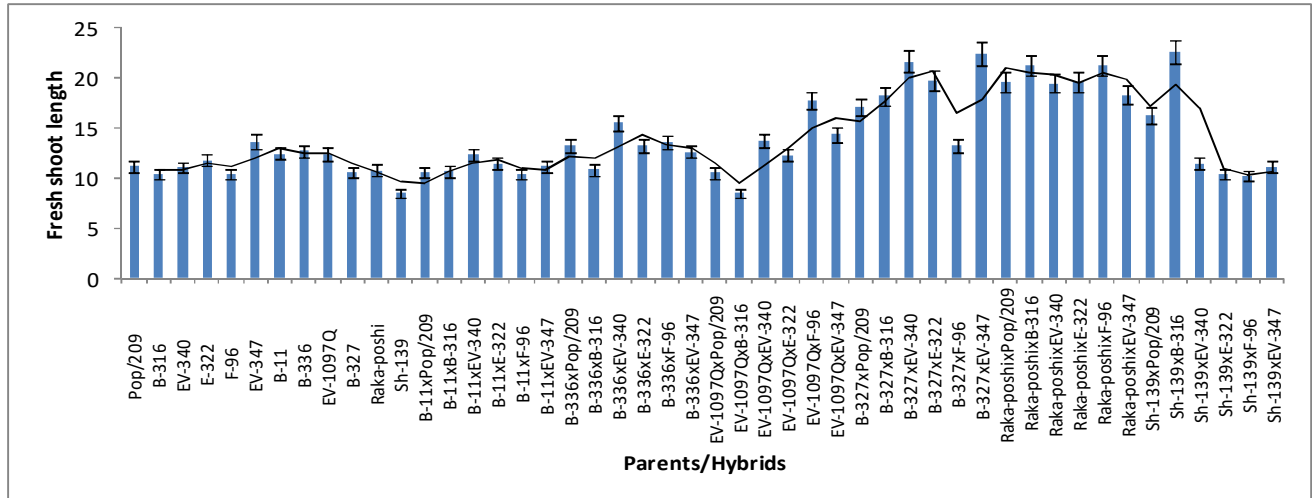


Figure S2a: Mean performance of maize accessions for fresh shoot length (cm)

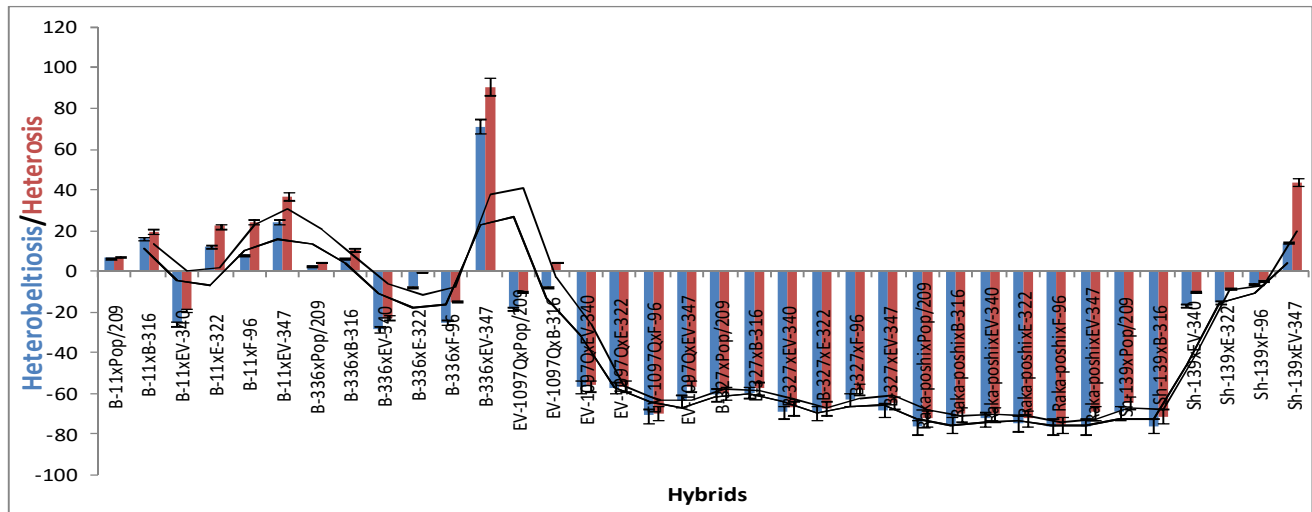


Figure S3: Heterosis and heterobeltiosis of maize F₁ hybrids for fresh root/shoot length ratio

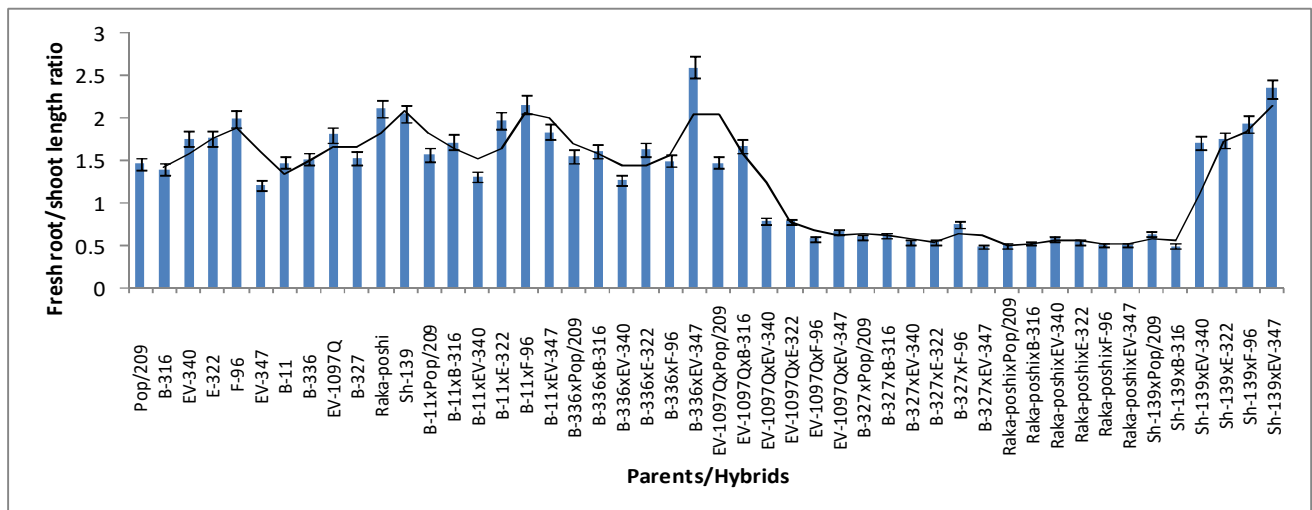


Figure S3a: Mean performance of maize accessions for fresh root/shoot length ratio

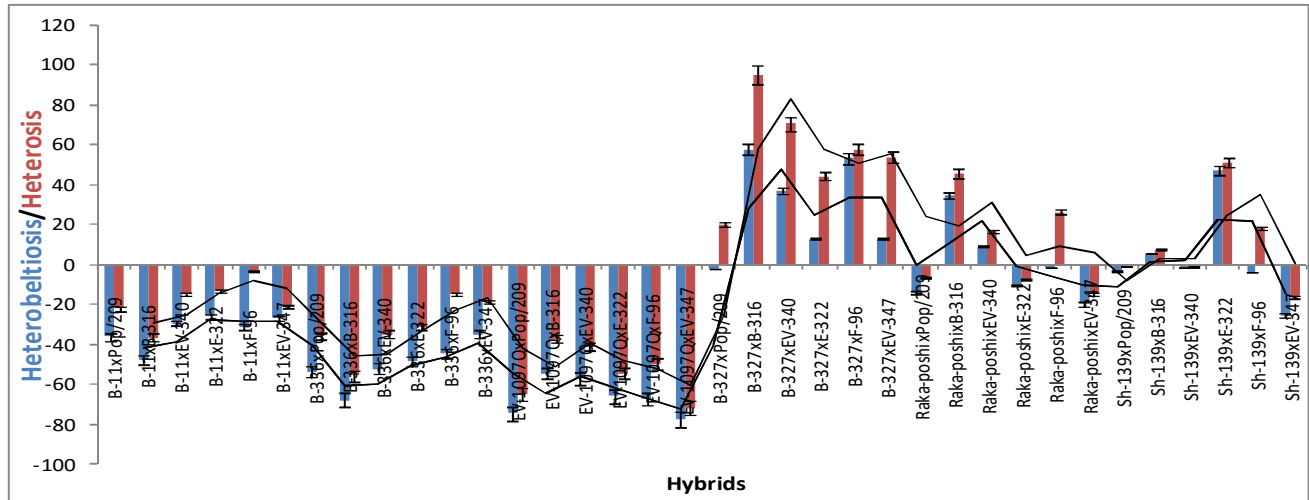


Figure S4: Heterosis and heterobeltiosis of maize F₁ hybrids for fresh root weight

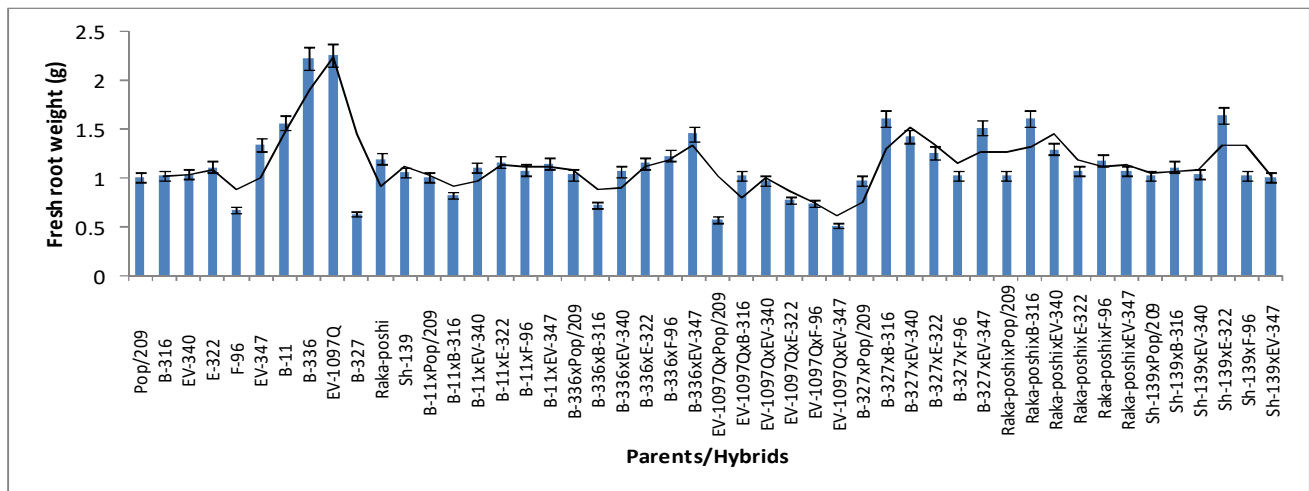


Figure S4a: Mean performance of maize accessions for fresh root weight (g)

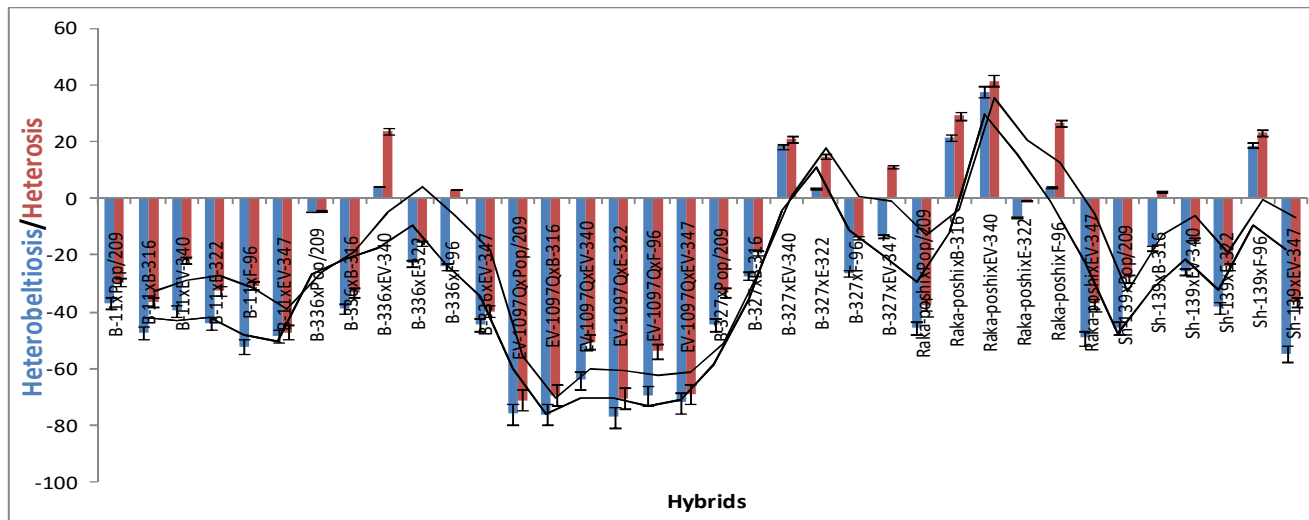


Figure S5: Heterosis and heterobeltiosis of maize F₁ hybrids for fresh shoot weight

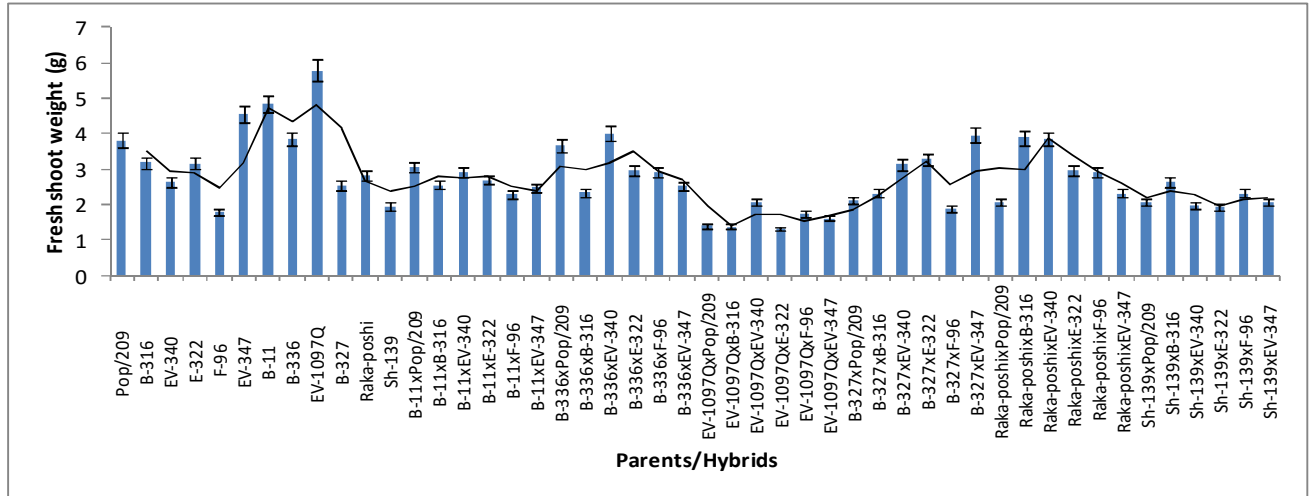


Figure S5a: Mean performance of maize accessions for fresh shoot weight (g)

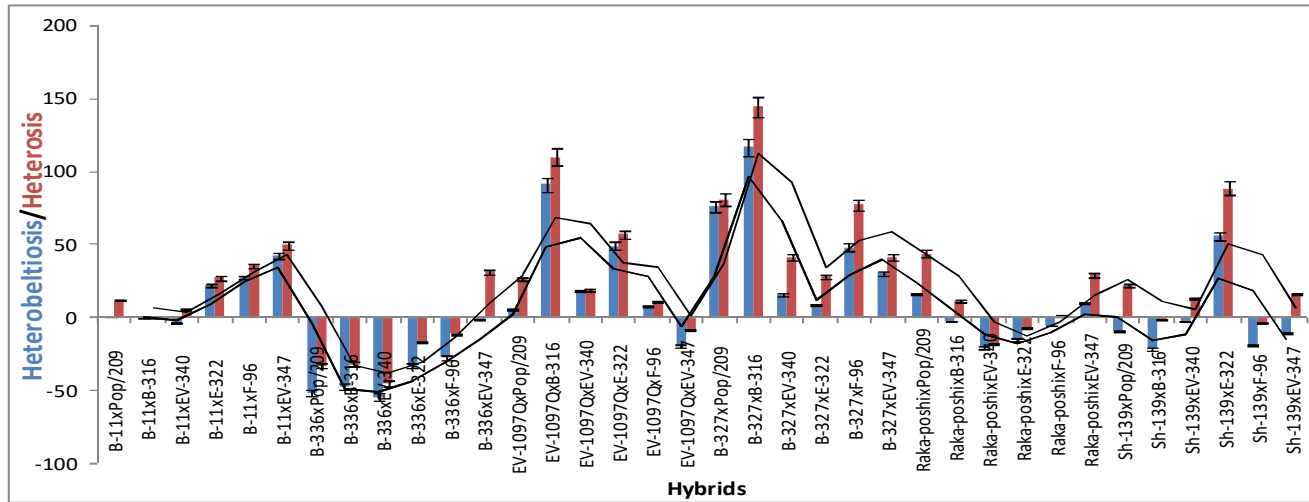


Figure S6: Heterosis and heterobeltiosis of maize F₁ hybrids for fresh root/shoot weight ratio

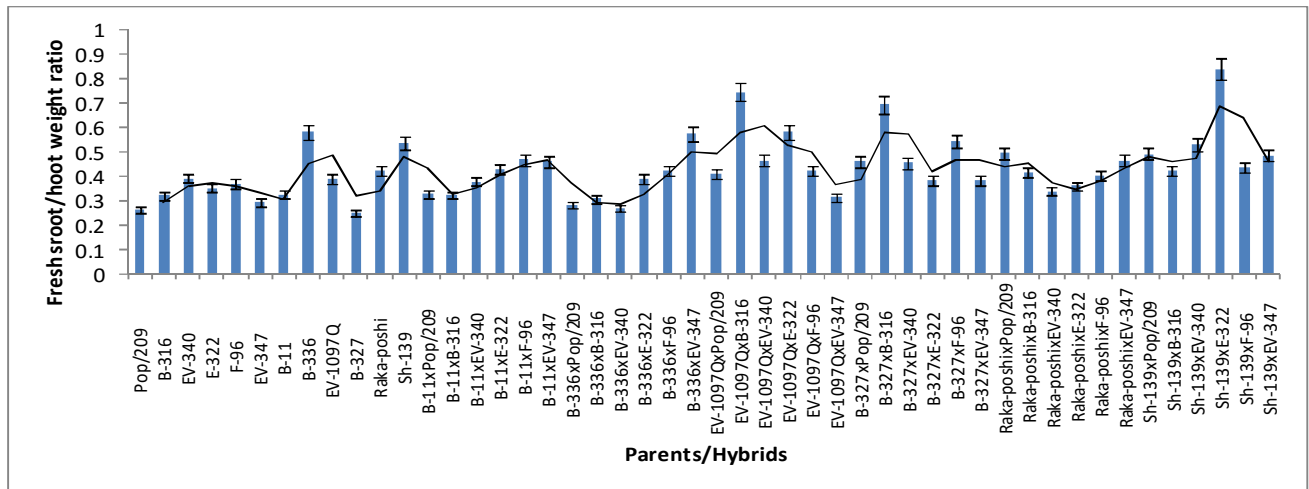


Figure S6a: Mean performance of maize accessions for fresh root/shoot weight ratio

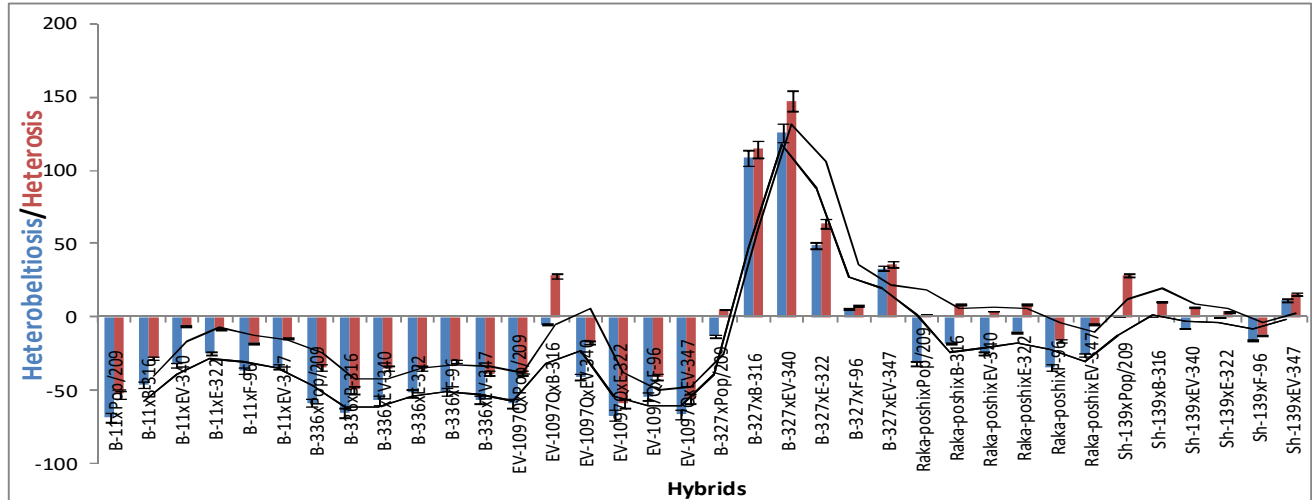


Figure S7: Heterosis and heterobeltiosis of maize F₁ hybrids for dry root weight

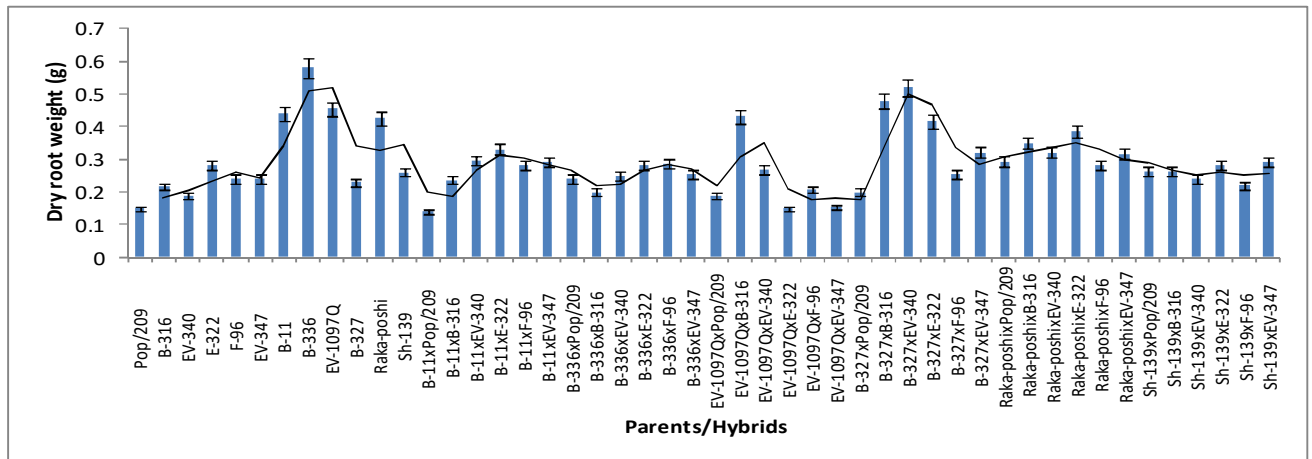


Figure S7a: Mean performance of maize accessions for dry root weight (g)

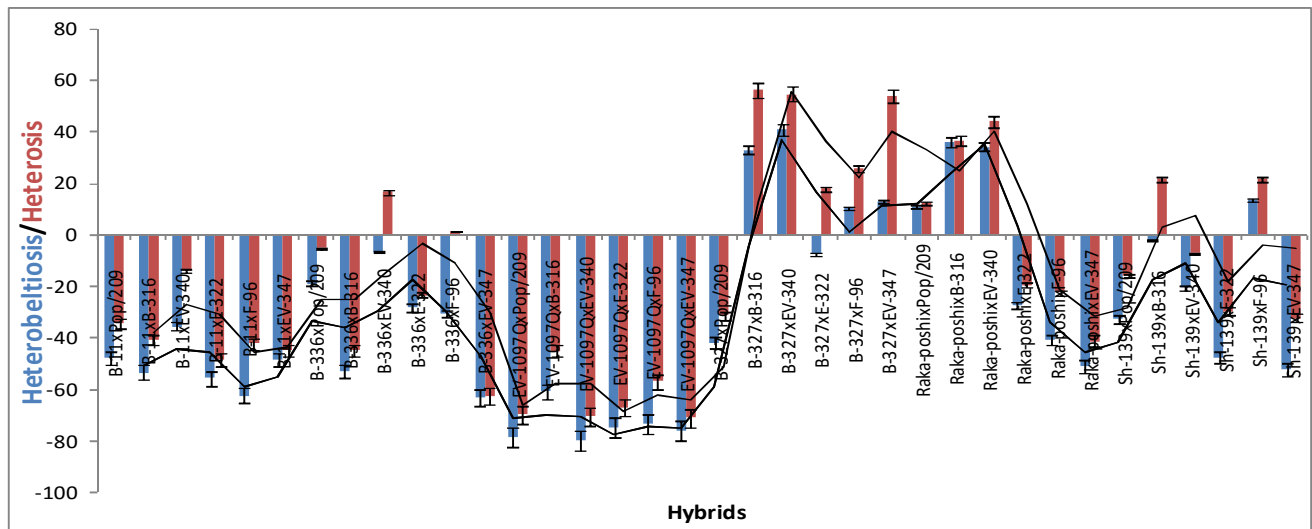


Figure S8: Heterosis and heterobeltiosis of maize F₁ hybrids for dry shoot weight

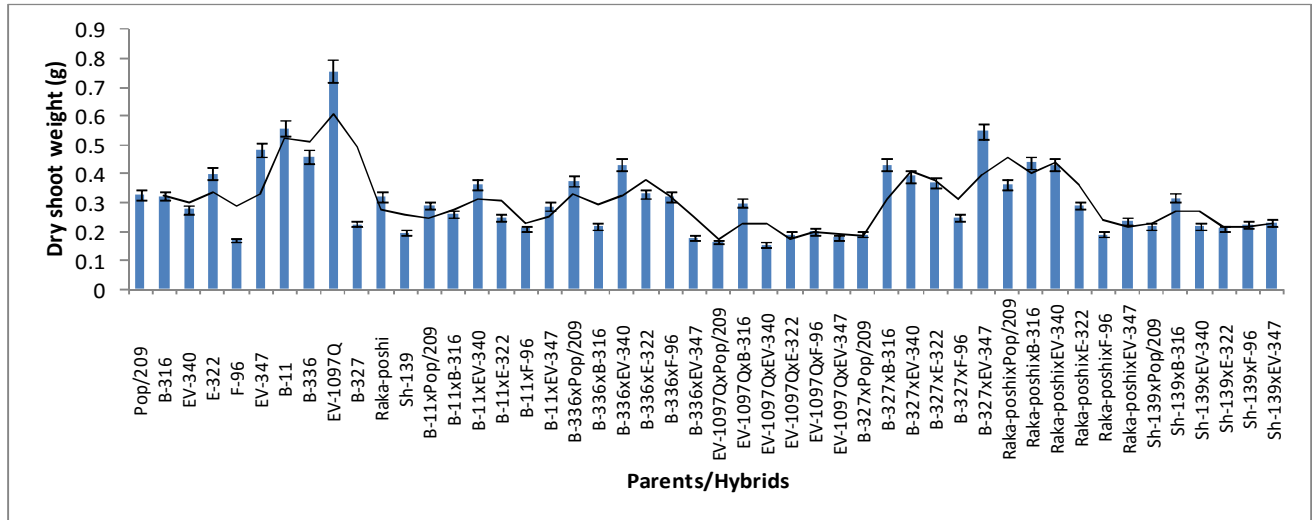


Figure S8a: Mean performance of maize accessions for dry shoot weight (g)

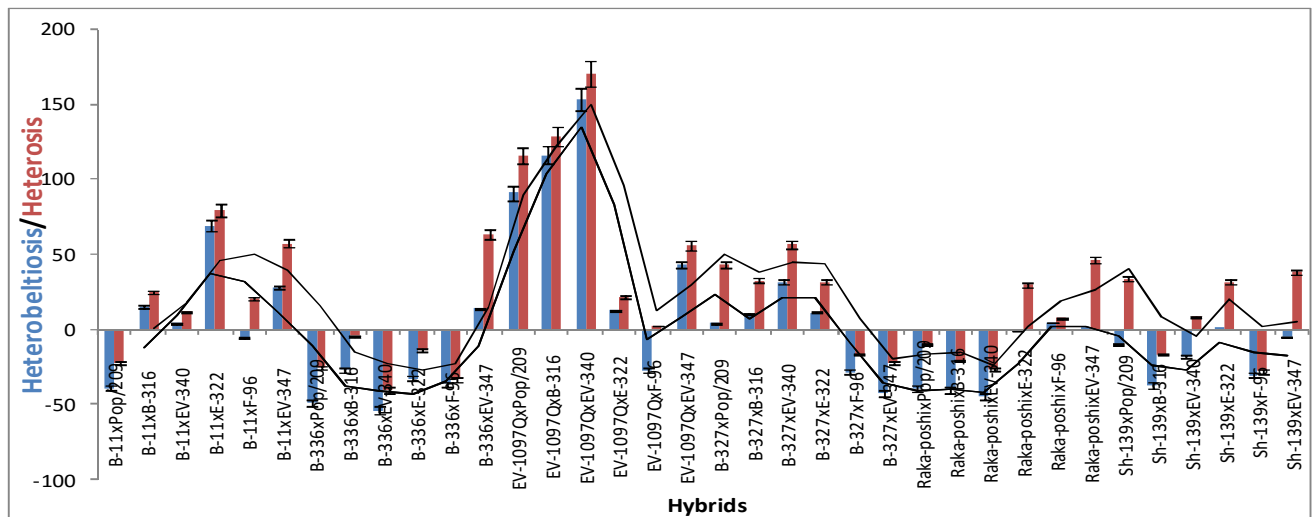


Figure S9: Heterosis and heterobeltiosis of maize F1 hybrids for Dry root/shoot weight ratio

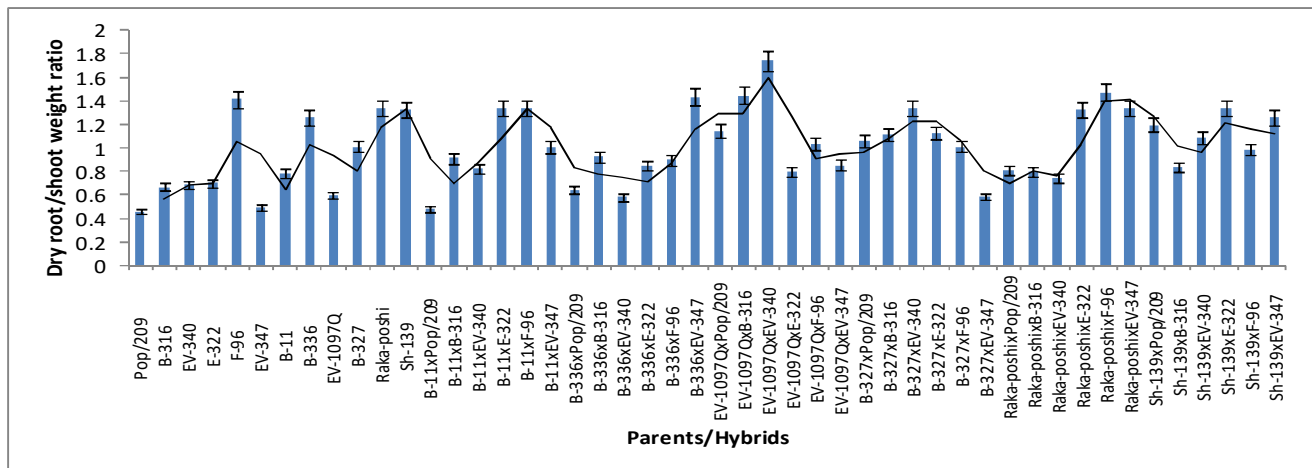


Figure S9a: Mean performance of maize accessions for dry root/shoot weight ratio

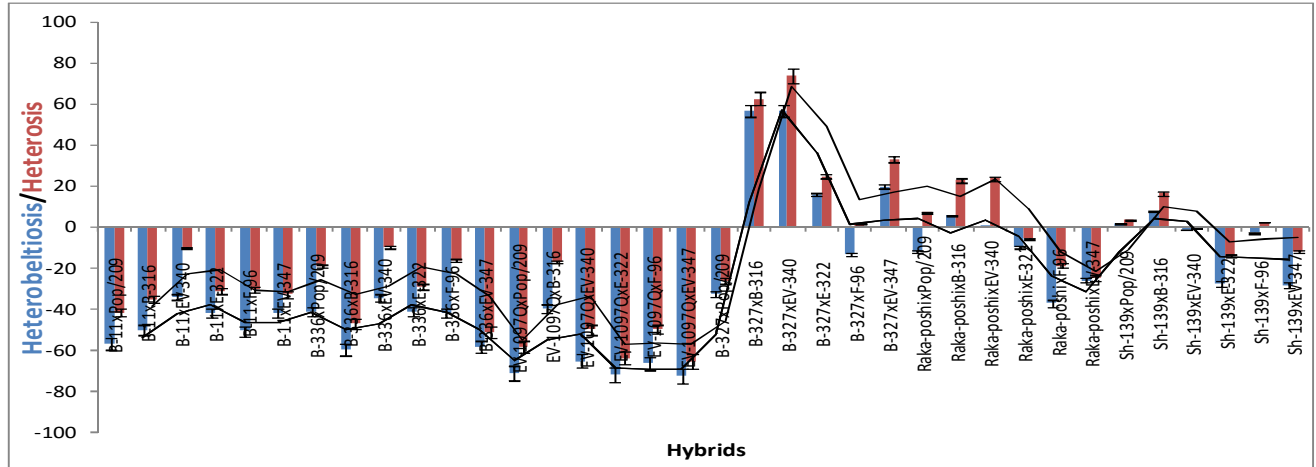


Figure S10: Heterosis and heterobeltiosis of maize F1 hybrids for total dry weight

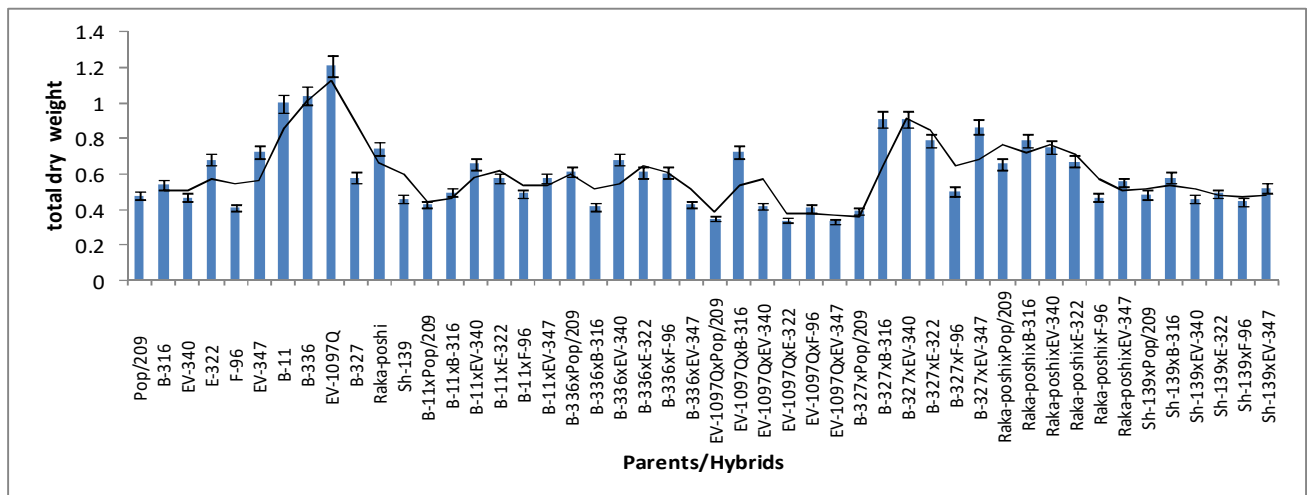


Figure S10a: Mean performance of maize accessions for total dry weight (g)

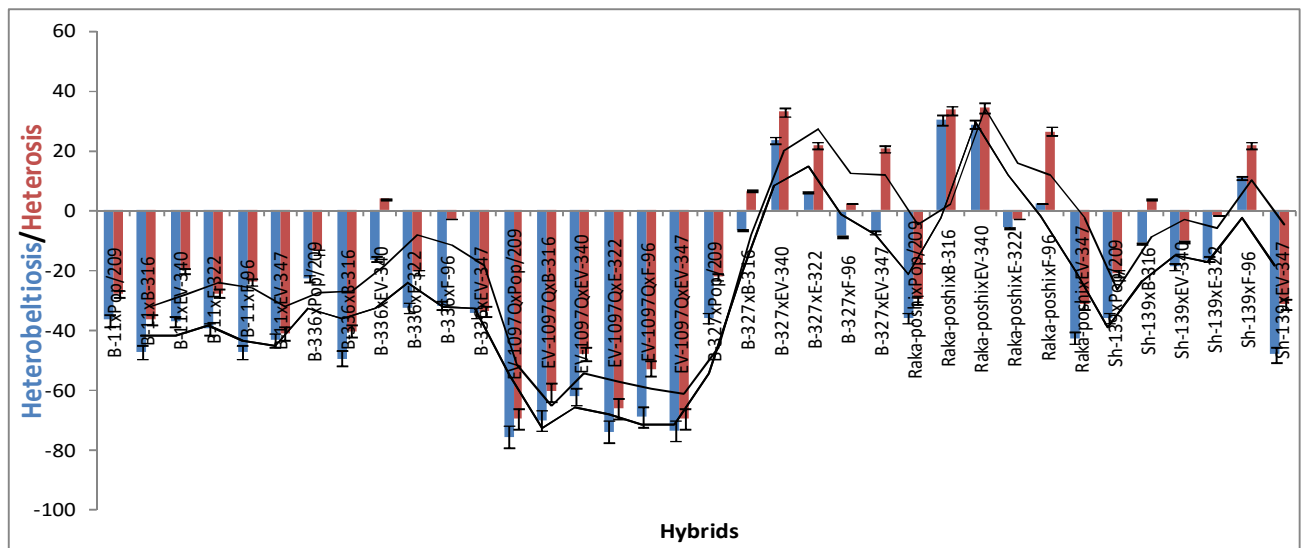


Figure S11: Heterosis and heterobeltiosis of maize F1 hybrids for total fresh weight

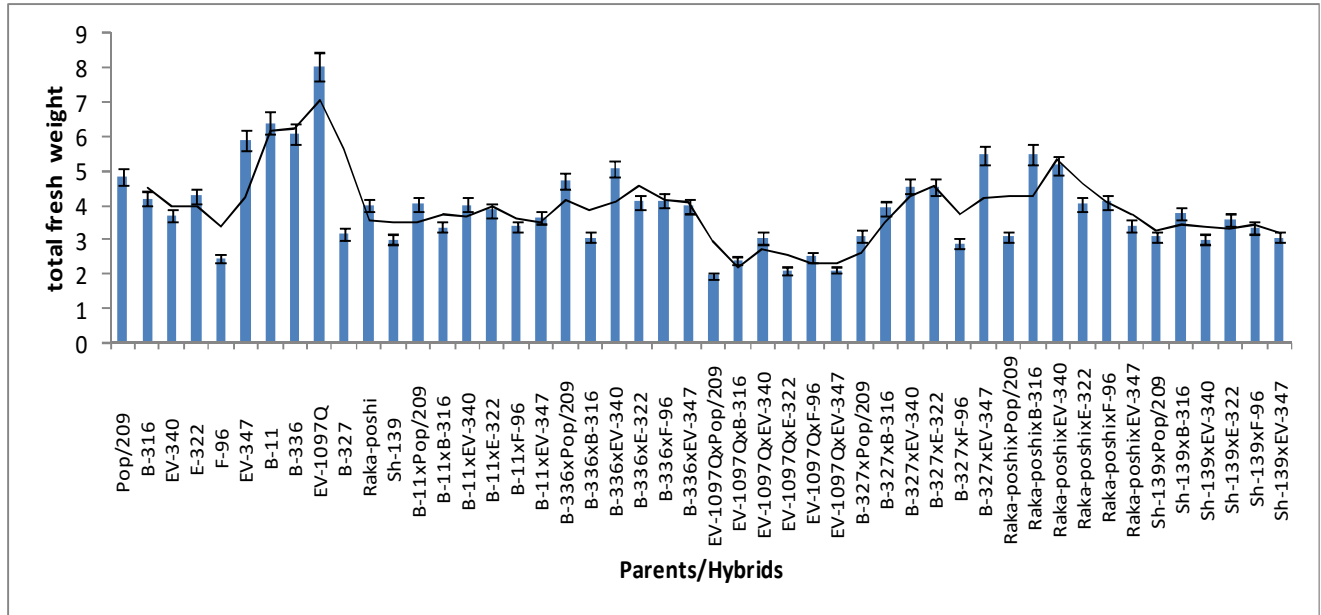


Figure S11a: Mean performance of maize accessions for total fresh weight (g)

Genotypes	Fresh root length	Fresh shoot length	Fresh root/shoot length ratio	Fresh root weight	Fresh shoot weight (g)	Fresh root/shoot weight ratio	Dry root weight (g)	Dry shoot weight (g)	Dry root/shoot weight ratio	Total dry weight	Total fresh weight
B-11xPop/209	16.5667	10.5333	1.57299	1	3.04667	0.328202	0.14	0.29	0.48394	0.43	4.04667
B-11xB-316	18.3	10.6667	1.71571	0.82333	2.55	0.322894	0.236667	0.26	0.91164	0.49667	3.37333
B-11xEV-340	16.2	12.3333	1.31376	1.10667	2.92	0.379102	0.296667	0.36	0.82397	0.65667	4.02667
B-11xE-322	22.7	11.4667	1.98006	1.16	2.70333	0.429103	0.33	0.246667	1.33778	0.57667	3.86333
B-11xF-96	22.4667	10.4333	2.15557	1.08	2.3	0.469658	0.28	0.21	1.33463	0.49	3.38
B-11xEV-347	20.5333	11.2	1.83314	1.14667	2.48333	0.461755	0.29	0.286667	1.01235	0.57667	3.63
B-336xPop/209	20.6	13.2333	1.55683	1.03333	3.66	0.28241	0.24	0.373333	0.64428	0.61333	4.69333
B-336xB-316	17.5	10.8667	1.61135	0.72	2.34667	0.307022	0.2	0.216667	0.9228	0.41667	3.06667
B-336xEV-340	19.6333	15.5333	1.26408	1.06667	4.00667	0.266398	0.25	0.43	0.58142	0.68	5.07333
B-336xE-322	21.5333	13.2	1.63132	1.15	2.95667	0.389085	0.28	0.33	0.84871	0.61	4.10667
B-336xF-96	20.2667	13.5333	1.49773	1.23	2.92	0.421689	0.286667	0.32	0.89642	0.60667	4.15
B-336xEV-347	32.8333	12.6333	2.5995	1.45333	2.53	0.574548	0.253333	0.176667	1.43573	0.43	3.98333
EV-1097QxPop/209	15.4667	10.5	1.47541	0.57333	1.39333	0.412412	0.186667	0.163333	1.14338	0.35	1.96667
EV-1097QxB-316	14.2333	8.5333	1.67207	1.03	1.38	0.746237	0.43	0.296667	1.44981	0.72667	2.41
EV-1097QxEV-340	10.7667	13.7	0.78658	0.97	2.08333	0.465554	0.266667	0.153333	1.74167	0.42	3.05333
EV-1097QxE-322	9.5667	12.3	0.77772	0.77	1.32333	0.58241	0.15	0.19	0.79094	0.34	2.09333
EV-1097QxF-96	10.3	17.7667	0.5798	0.73667	1.75333	0.420694	0.206667	0.2	1.03175	0.40667	2.49
EV-1097QxEV-347	9.4667	14.3667	0.65937	0.50667	1.62	0.312941	0.153333	0.18	0.85466	0.33333	2.12667
B-327xPop/209	10.3	17.0667	0.60364	0.98	2.12667	0.461014	0.2	0.19	1.05643	0.39	3.10667
B-327xB-316	11.3333	18.2333	0.62155	1.61	2.32	0.694409	0.48	0.43	1.11632	0.91	3.93
B-327xEV-340	11.7667	21.6667	0.54311	1.42667	3.13667	0.454784	0.52	0.39	1.3337	0.91	4.56333
B-327xE-322	10.6333	19.7333	0.539	1.26	3.28	0.384181	0.416667	0.37	1.12692	0.78667	4.54
B-327xF-96	9.8333	13.2667	0.74126	1.02333	1.87333	0.5463	0.253333	0.25	1.01444	0.50333	2.89667
B-327xEV-347	10.9333	22.4333	0.48741	1.51667	3.96	0.383018	0.32	0.546667	0.58557	0.86667	5.47667
Raka-poshixPop/209	9.8	19.6667	0.49836	1.02667	2.07667	0.494294	0.293333	0.363333	0.80862	0.65667	3.10333
Raka-poshixB-316	11.1333	21.3	0.52317	1.61	3.87667	0.41538	0.35	0.44	0.7959	0.79	5.48667
Raka-poshixEV-340	11.3	19.5	0.57939	1.3	3.86667	0.336251	0.32	0.43	0.74409	0.75	5.16667
Raka-poshixE-322	10.5667	19.6333	0.5381	1.07	2.96333	0.361102	0.383333	0.29	1.32291	0.67333	4.03333
Raka-poshixF-96	10.7333	21.2667	0.50469	1.17667	2.92667	0.402076	0.28	0.19	1.47632	0.47	4.10333
Raka-poshixEV-347	9.3333	18.3	0.51026	1.07667	2.31667	0.465114	0.316667	0.236667	1.33756	0.55333	3.39333
Sh-139xPop/209	10.2	16.2333	0.6283	1.02	2.07667	0.49115	0.263333	0.22	1.19656	0.48333	3.09667
Sh-139xB-316	11.2	22.6	0.49571	1.11333	2.63333	0.422881	0.263333	0.316667	0.83317	0.58	3.74667
Sh-139xEV-340	19.6333	11.4667	1.71402	1.03667	1.96333	0.528032	0.24	0.22	1.09176	0.46	3
Sh-139xE-322	18.2333	10.4667	1.74443	1.64	1.95	0.840969	0.28	0.21	1.33463	0.49	3.59
Sh-139xF-96	19.7	10.2	1.93292	1.01667	2.32333	0.437563	0.22	0.223333	0.98611	0.44333	3.34
Sh-139xEV-347	26.0667	11.1333	2.34384	1	2.06667	0.484278	0.29	0.23	1.2618	0.52	3.06667

Table S1: Mean performance of Zea mays F1 hybrids

Variable	PC1	PC2	PC3
Fresh root length	0.022	-0.586	0.011
Fresh shoot length	0.162	0.510	0.038
Fresh root/shoot length ratio	-0.067	-0.610	0.026
Fresh root weight	0.375	-0.092	0.274
Fresh shoot weight	0.404	-0.086	-0.228
Fresh root/shoot weight ratio	-0.074	-0.010	0.582
Dry root weight	0.304	0.016	0.441
Dry shoot weight	0.427	-0.015	-0.090
Dry root/shoot weight ratio	-0.169	-0.005	0.544
Total dry weight	0.418	-0.003	0.156
Total fresh weight	0.426	-0.094	-0.098

Table S2: Principal Component Analysis

Variable	Factor1	Factor2	Factor3	Communality
FRL	-0.272	-0.834	-0.414	0.940
FSL	0.738	0.480	0.229	0.827
FRSLR	-0.479	-0.800	-0.338	0.984
FRW	0.705	-0.517	0.281	0.844
FSW	0.828	-0.125	-0.475	0.927
FRSWR	-0.205	-0.389	0.761	0.772
DRW	0.660	-0.317	0.567	0.857
DSW	0.912	-0.055	-0.176	0.866
DRSWR	-0.302	-0.293	0.719	0.694
TDW	0.904	-0.202	0.197	0.897
TFW	0.879	-0.254	-0.303	0.930
Variance	5.0223	2.2952	2.2210	9.5385
% Var	0.457	0.209	0.202	0.867

Table S3: Factor Analysis