Table 2 Genotypic correlation between yield and yield components in F_4 generation of TRY (R) 2 ×Mapillai Samba

Characters	DFF	PH	NPT	PL	NFG	HGW	KL	KB	KLBR	KLAC	KBAC	LER	BER	Fe	Zn	SPY
DFF	1.000	0.854*	−0.868*	0.667*	−0.488*	−0.365*	−0.212	0.897*	−0.876*	−0.626*	−0.011	−0.240*	−0.950*	−0.853*	0.761*	0.878*
PH		1.000	−0.998*	0.010	−0.785*	0.578*	−0.010	−0.261*	0.198	0.347*	0.412*	0.281*	0.427*	−0.831*	0.966*	0.773*
NPT			1.000	0.475*	0.535*	−0.611*	−0.885*	−0.110	−0.252*	−0.948*	−0.897*	0.468*	−0.471*	0.959*	−0.727*	−0.800*
PL				1.000	0.878*	−0.993*	−0.168	−0.768*	−0.786*	−0.943*	−0.008	−0.545*	−0.865*	−0.544*	0.406*	−0.135
NFG					1.000	−0.900*	0.103	0.411*	−0.313*	−0.563*	−0.010	−0.719*	−0.354*	0.223	−0.321*	−0.527*
HGW						1.000	0.039	−0.981*	0.830*	0.711*	0.096	0.544*	0.845*	0.099	0.131	0.903*
KL							1.000	−0.257*	0.619*	0.778*	0.897*	−0.850*	0.621*	−0.225	−0.217	−0.344*
KB								1.000	−0.918*	−0.778*	−0.204	−0.275*	−0.896*	−0.505*	0.199	−0.861*
KLBR									1.000	0.962*	0.524*	−0.113	0.979*	0.337*	−0.264*	0.676*
KLAC										1.000	0.672*	−0.330*	0.932*	0.048	−0.162	−0.017
KBAC											1.000	−0.825*	0.622*	−0.581*	0.238*	−0.612*
LER												1.000	−0.163	0.429*	0.142	0.940*
BER													1.000	0.141	−0.046	−0.153
Fe														1.000	−0.896*	−0.944*
Zn															1.000	0.584*
Genotypic correlation between yield and yield components in F_4 generation of ADT37 ×IR68144-3B-2-2-3																
DFF	1.000	0.094	0.087	−0.227	0.921*	0.232	−0.945*	−0.049	−0.394*	0.481*	0.533*	0.972*	0.258*	−0.778*	−0.100	0.526*
PH		1.000	0.089	−0.457*	0.867*	0.157	−0.672*	0.595*	−0.867*	0.592*	0.117	0.748*	−0.310*	−0.323*	0.292*	0.538*
NPT			1.000	−0.358*	0.880*	0.135	−0.742*	0.167	−0.479*	0.272*	0.481*	0.651*	0.114	−0.648*	0.181	0.448*
PL				1.000	−0.607*	0.962*	−0.071	0.055	−0.090	0.575*	−0.353*	0.315*	−0.193	−0.002	−0.643*	−0.679*
NFG					1.000	−0.240*	−0.673*	0.189	−0.477*	0.224	0.234	0.578*	−0.014	−0.230	0.110	0.687*
HGW						1.000	−0.293*	0.414*	−0.532*	0.886*	−0.366*	0.640*	−0.415*	−0.251*	−0.237*	−0.935*
KL							1.000	0.172	0.272*	−0.474*	−0.357*	−0.898*	−0.265*	0.531*	0.581*	−0.102
KB								1.000	−0.902*	0.643*	−0.768*	0.228	−0.963*	0.469*	0.432*	−0.120
KLBR									1.000	−0.844*	0.604*	−0.623*	0.828*	−0.237*	−0.159	0.064
KLAC										1.000	−0.580*	0.815*	−0.655*	0.136	−0.417*	−0.550*
KBAC											1.000	−0.042	0.914*	−0.864*	0.069	0.376*
LER												1.000	−0.159	−0.298*	−0.570*	−0.208
BER													1.000	−0.669*	−0.242*	0.240*
Fe														1.000	0.032	0.041
Zn															1.000	0.344*

Continued Table 2

Characters	DFF	PH	NPT	PL	NFG	HGW	KL	KB	KLBR	KLAC	KBAC	LER	BER	Fe	Zn	SPY
Path coefficient analysis of yield and yield components in F_4 generation of TRY (R) 2 ×Mapillai Samba (Residual effect F_4 =0.208)																
DFF	−0.050	0.123	−0.003	0.127	0.266	−0.234	0.050	0.045	0.227	0.093	−0.002	−0.017	−0.040	−0.510	0.804	0.878*
PH	−0.043	0.524	−0.004	0.002	0.427	0.581	0.002	−0.103	−0.044	−0.051	−0.110	−0.041	0.019	0.024	−0.410	0.773*
NPT	0.044	−0.523	0.004	0.091	−0.029	−0.615	0.208	−0.044	0.057	0.140	−0.217	−0.062	−0.045	−0.669	0.862	−0.800*
PL	−0.034	0.005	0.002	0.191	−0.478	−1.000	0.039	0.524	0.263	0.140	−0.107	0.022	−0.030	1.104	−0.777	−0.135
NFG	0.025	−0.123	0.002	0.017	−0.544	−0.067	−0.024	0.162	0.070	0.083	0.305	−0.001	0.136	−0.921	0.352	−0.527*
HGW	0.018	0.303	−0.002	−0.190	0.035	1.007	−0.009	−0.388	−0.186	−0.105	0.101	0.024	0.048	−0.312	0.560	0.903*
KL	0.011	−0.005	−0.003	−0.032	−0.056	0.039	−0.235	−0.102	−0.139	−0.115	0.202	0.062	−0.015	0.526	−0.482	−0.344*
KB	−0.057	−0.137	0.006	0.253	−0.223	−0.988	0.060	0.396	0.206	0.115	0.456	0.026	0.107	−0.762	−0.311	−0.861*
KLBR	0.051	0.104	−0.001	−0.224	0.170	0.835	−0.145	−0.363	−0.224	−0.142	−0.421	−0.008	−0.118	0.967	0.195	0.676*
KLAC	0.031	0.182	−0.003	−0.180	0.306	0.716	−0.183	−0.308	−0.215	−0.148	−0.127	−0.058	−0.010	−0.821	0.800	−0.017
KBAC	0.001	0.216	−0.004	−0.001	0.005	0.097	−0.211	−0.081	−0.117	−0.099	0.445	0.030	0.135	−0.659	−0.366	−0.612*
LER	0.012	0.148	0.002	−0.104	0.391	0.548	0.200	−0.109	0.025	0.049	−0.214	−0.062	−0.015	−0.560	0.630	0.940*
BER	0.048	0.224	−0.002	−0.211	0.193	0.851	−0.146	−0.354	−0.219	−0.138	−1.230	−0.038	0.024	0.067	0.779	−0.153
Fe	0.043	−0.436	0.003	−0.104	−0.121	0.065	0.053	−0.200	−0.076	−0.007	0.321	−0.026	0.100	−1.230	0.670	−0.944*
Zn	−0.038	0.054	−0.003	0.077	0.045	0.032	0.051	0.043	0.059	0.024	−0.137	−0.033	−0.016	−0.763	1.188	0.584*
Path coefficient analysis of yield and yield components in F_4 generation of ADT37 ×IR68144-3B-2-2-3 (Residual effect F_4=0.231)																
DFF	−0.238	0.005	−2.002	0.383	0.433	−0.009	0.080	0.004	−0.340	−0.150	−0.148	1.977	−0.213	0.803	−0.058	0.526*
PH	−0.238	0.005	−1.795	0.769	0.483	−0.006	0.051	−0.047	−0.749	−0.185	−0.032	1.523	0.256	0.334	0.170	0.538*
NPT	−0.279	0.006	−0.704	0.602	0.413	−0.005	0.056	−0.013	−0.414	−0.085	−0.134	1.324	−0.094	0.669	0.105	0.448*
PL	0.002	−0.002	0.609	−0.234	−0.285	−0.038	0.005	−0.004	−0.078	−0.180	0.098	0.640	0.159	0.002	−0.373	−0.679*
NFG	−0.219	0.005	−0.678	0.045	0.654	0.010	0.051	−0.015	−0.412	−0.070	−0.065	0.067	0.011	0.237	0.064	0.687*
HGW	−0.055	0.001	−0.231	−1.619	−0.113	−0.040	0.022	−0.033	−0.459	−0.277	0.102	1.302	0.343	0.259	−0.138	−0.935*
KL	0.250	−0.004	1.264	0.119	−0.316	0.012	−0.076	−0.014	0.235	0.148	0.099	−1.827	0.219	−0.549	0.338	−0.102
KB	0.012	0.003	−0.284	−0.092	0.089	−0.017	−0.013	−0.079	−0.778	−0.201	0.213	0.465	0.795	−0.484	0.251	−0.120
KLBR	0.094	−0.005	0.816	0.152	−0.224	0.021	−0.021	0.071	0.863	0.263	−0.168	−1.268	−0.684	0.245	−0.092	0.064
KLAC	−0.114	0.003	−0.463	−0.969	0.105	−0.035	0.036	−0.051	−0.729	−0.312	0.161	1.659	0.541	−0.140	−0.242	−0.550*
KBAC	−0.127	0.001	−0.819	0.594	0.110	0.015	0.027	0.060	0.522	0.181	−0.278	−0.086	−0.755	0.892	0.040	0.376*
LER	−0.231	0.004	−1.109	−0.530	0.271	−0.026	0.068	−0.018	−0.538	−0.255	0.012	0.034	0.131	0.308	−0.331	−0.208
BER	−0.061	−0.002	−0.194	0.324	−0.007	0.017	0.020	0.076	0.715	0.204	−0.254	−0.323	−0.826	0.690	−0.141	0.240*
Fe	0.185	−0.002	1.104	0.004	−0.108	0.010	−0.040	−0.037	−0.205	−0.042	0.240	−0.606	0.552	−1.032	0.018	0.041
Zn	0.024	0.002	−0.308	1.082	0.052	0.009	−0.044	−0.034	−0.137	0.130	−0.019	−1.160	0.200	−0.033	0.581	0.344*

Note: * Significant at 5% level, Bold values denotes direct effects