

Table 1 Phenotypic correlation coefficient of seed cotton yield per plant and different quantitative characters in derived F₁ crosses

Characters	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15
X1	1.0000	0.3578**	0.5250**	0.4670**	0.2785**	0.0990	0.5207**	-0.0098	0.1437*	-0.0553	0.1146	0.1022	-0.1133	-0.3070**	0.3495**
X2		1.0000	0.2903**	0.4460**	0.2085**	-0.0621	0.1643**	-0.1048	0.1611**	-0.0416	0.1593**	0.0676	-0.2157**	-0.2338**	0.4058**
X3			1.0000	0.5138**	0.2505**	-0.1216*	0.2397**	0.1068	0.1290*	0.0822	0.1651**	0.0421	-0.0755	-0.2981**	0.3506**
X4				1.0000	0.3010**	-0.1946**	0.1695**	-0.0248	0.0608	-0.0689	0.0739	-0.005	-0.1846**	-0.3779**	0.4013**
X5					1.0000	-0.249**	0.0591	-0.065	0.1788**	0.0791	0.219**	0.0508	-0.0482	-0.1755**	0.4200**
X6						1.0000	0.4939**	0.1008	-0.1014	-0.1283*	-0.1328*	-0.0155	-0.0235	0.1258*	-0.2390
X7							1.0000	0.1296*	-0.0428	-0.1032	-0.0465	-0.0391	-0.0986	-0.1128	0.1125
X8								1.0000	-0.0816	0.0951	-0.0306	-0.0567	0.1498*	0.2563**	-0.1508
X9									1.0000	0.1131	0.4726**	0.2077**	-0.0636	-0.1798**	0.2999**
X10										1.0000	0.4501**	0.2323**	0.1265*	0.0728	0.2154**
X11											1.0000	0.3031**	0.0279	-0.0646	0.4448**
X12												1.0000	0.5401**	0.2858**	0.2327**
X13													1.0000	0.5606**	-0.0861
X14														1.0000	-0.3150
X15															1.0000

Note: * Significant at P=0.05; ** Significant at P=0.01; X1: Plant height (cm); X2: Number of monopodia; X3: Number of sympodia; X4: Number of bolls; X5: Mean boll weight (g); X6: Reproductive points; X7: Sympodial length at 50% plant height (cm); X8: Inter branch distance (cm); X9: Seed index (g); X10: Ginning outturn (%); X11: Lint index (g); X12: Photosynthetic rate ($\mu\text{mol CO}_2 \text{ m}^{-2} \text{ s}^{-1}$); X13: Stomatal conductance ($\mu\text{mol m}^{-2} \text{ s}^{-1}$); X14: Transpiration rate ($\text{mmol H}_2\text{O m}^{-2} \text{ s}^{-1}$); X15: Seed cotton yield (kg/ha)