

Table 2 Direct and indirect phenotypic effects of seed cotton yield and different quantitative characters in derived F₁ crosses

Characters	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	Phenotypic correlation with seed cotton yield
X1	0.0289	0.0104	0.0152	0.0135	0.0081	0.0029	0.0151	-0.0003	0.0042	-0.002	0.0033	0.003	-0.0033	-0.0089	0.3495**
X2	0.0634	0.1771	0.0514	0.079	0.0369	-0.011	0.0291	-0.0186	0.0285	-0.007	0.0282	0.012	-0.0382	-0.0414	0.4058**
X3	0.0228	0.0126	0.0434	0.0223	0.0109	-0.0053	0.0104	0.0046	0.0056	0.0036	0.0072	0.0018	-0.0033	-0.0129	0.3506**
X4	0.0492	0.047	0.0541	0.1053	0.0317	-0.0205	0.0179	-0.0026	0.0064	-0.007	0.0078	-0.0005	-0.0194	-0.0398	0.4013**
X5	0.0516	0.0386	0.0464	0.0557	0.1852	-0.0461	0.0109	-0.012	0.0331	0.0146	0.0406	0.0094	-0.0089	-0.0325	0.4200**
X6	-0.014	0.0088	0.0172	0.0275	0.0351	-0.1411	-0.0697	-0.0142	0.0143	0.0181	0.0187	0.0022	0.0033	-0.0178	-0.2390
X7	0.0621	0.0196	0.0286	0.0202	0.007	0.0589	0.1192	0.0155	-0.005	-0.012	-0.0055	-0.005	-0.0118	-0.0135	0.1125
X8	0.0007	0.0078	-0.008	0.0018	0.0049	-0.0075	-0.0097	-0.0746	0.0061	-0.007	0.0023	0.0042	-0.0112	-0.0191	-0.1508
X9	0.0056	0.0063	0.0051	0.0024	0.007	-0.004	-0.0017	-0.0032	0.0393	0.0044	0.0186	0.0082	-0.0025	-0.0071	0.2999**
X10	-0.0043	-0.003	0.0065	-0.005	0.0062	-0.0101	-0.0081	0.0075	0.0089	0.0786	0.0354	0.0183	0.0099	0.0057	0.2154**
X11	0.0274	0.0381	0.0395	0.0177	0.0524	-0.0318	-0.0111	-0.0073	0.1131	0.1078	0.2394	0.0726	0.0067	-0.0155	0.4448**
X12	0.0162	0.0107	0.0067	-0.0008	0.0081	-0.0025	-0.0062	-0.009	0.033	0.0369	0.0481	0.1588	0.0858	0.0454	0.2327**
X13	0.0035	0.0067	0.0023	0.0057	0.0015	0.0007	0.003	-0.0046	0.002	-0.004	-0.0009	-0.017	-0.0309	-0.0173	-0.0861
X14	0.0595	0.0453	0.0577	0.0732	0.034	-0.0244	0.0218	-0.0496	0.0348	-0.014	0.0125	-0.055	-0.1086	-0.1937	-0.3150

Note: Residual effect=0.7086; 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)