

Table 4 Path coefficient analysis of fruit yield per plant versus yield components in F₄ populations of single and double cross

Characters	Populations	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	Correlation with yield
X1	SCH	0.254	-0.148	0.046	-0.119	0.095	-0.227	0.015	-0.085	0.025	0.001	-0.368	-0.511**
	DCH	0.133	-0.003	0.107	-0.085	-0.109	-0.066	-0.028	-0.041	-0.064	-0.004	-0.281	-0.441**
X2	SCH	0.130	-0.287	0.019	0.074	0.007	0.045	0.008	-0.027	0.046	-0.001	-0.105	-0.091
	DCH	0.048	-0.007	0.024	-0.055	0.037	0.03	-0.017	0.011	0.042	-0.003	-0.253	-0.143
X3	SCH	-0.130	0.060	0.286	0.069	-0.114	-0.089	-0.015	0.016	0.054	-0.001	0.569	0.705**
	DCH	-0.069	0.001	0.129	0.092	-0.203	0.083	0.036	0.054	0.021	0.005	0.507	0.656**
X4	SCH	-0.093	-0.065	-0.019	0.327	-0.048	0.221	-0.010	0.061	-0.072	0.001	0.178	0.481**
	DCH	-0.076	0.003	-0.126	0.148	0.088	0.075	0.031	0.043	-0.035	0.006	0.364	0.521**
X5	SCH	0.108	-0.010	0.046	-0.070	-0.108	-0.223	0.016	-0.045	-0.392	0.000	0.223	-0.455**
	DCH	0.069	0.001	0.124	-0.061	-0.211	-0.077	-0.024	-0.057	0.008	-0.005	-0.348	-0.581**
X6	SCH	-0.109	-0.024	-0.048	0.136	-0.094	0.529	-0.014	-0.047	-0.050	-0.002	0.381	0.658**
	DCH	-0.048	-0.001	-0.092	0.061	0.09	0.182	0.028	0.028	-0.023	0.002	0.235	0.462**
X7	SCH	-0.137	-0.028	-0.047	0.115	-0.126	0.272	0.085	0.055	-0.048	-0.001	0.403	0.543**
	DCH	-0.055	0.002	-0.11	0.068	0.077	0.075	0.067	0.022	-0.013	0.003	0.319	0.455**
X8	SCH	0.052	-0.019	0.003	-0.048	0.024	0.060	0.004	-0.416	0.077	0.001	-0.122	-0.384*
	DCH	0.052	0.001	0.103	-0.06	-0.113	-0.048	-0.014	-0.106	0.029	-0.003	-0.383	-0.542**
X9	SCH	-0.017	0.035	0.013	0.062	0.064	0.070	-0.004	0.084	-0.380	-0.001	0.198	0.124
	DCH	0.059	0.002	0.029	0.034	0.012	0.028	0.006	0.021	-0.145	-0.003	0.081	0.124
X10	SCH	-0.079	-0.037	-0.037	0.070	-0.027	0.128	-0.006	0.076	-0.024	-0.002	0.429	0.491**
	DCH	-0.028	0.001	-0.052	0.052	0.045	0.023	0.011	0.019	0.014	0.018	0.391	0.494**
X11	SCH	-0.105	0.034	-0.057	0.066	-0.099	0.227	-0.013	0.057	-0.085	-0.001	0.887	0.911**
	DCH	-0.046	0.002	-0.127	0.066	0.091	0.053	0.026	0.05	-0.014	0.009	0.813	0.923**

Note: Residual for SCH=0.0826, Residual for DCH=0.0614; * Significant @ 5%; **Significant @ 1%; X1: Days to first flowering; X2: Days to 50 per cent flowering; X3: Plant height; X4: Number of branches per plant; X5: Internodal length; X6: Fruit weight; X7: Fruit length; X8: Fruit diameter; X9: Number of seeds per fruit; X10: 100 seed weight; X11: Number of fruits per plant