

Table S2

Pearson correlation coefficients between morpho-physiological traits and yield components in tomato cultivars under summer stress.

Traits	PH	LN	LA	DFF	FCN	FN	CHLL	FLAV	ANTHO	NFI	DFFruit	DFFH	Nfruit	DI	DS	FL	FD	IFW	FYPlant	FYPlot	YIELD
PH	1.0000	0.2701	0.1853	0.0145	-0.0926	0.0042	-0.1090	0.4137	-0.3414	0.2661	-0.1817	-0.1762	0.3599	-0.3694	-0.6423	-0.0911	0.1995	-0.0128	0.3506	0.3680	0.3686
LN	0.2701	1.0000	0.0849	-0.0450	-0.1509	0.4159	0.2762	0.0524	0.1241	-0.0606	-0.2043	-0.2002	0.3060	-0.1405	-0.2390	-0.0554	0.0067	-0.1479	0.2621	0.2732	0.2762
LA	0.1853	0.0849	1.0000	-0.4486	-0.3773	0.0979	-0.2686	0.0122	-0.1748	-0.1291	-0.4934	-0.4933	0.4006	-0.1594	-0.2373	0.1839	-0.3965	-0.1522	-0.1110	-0.0850	-0.0827
DFF	0.0145	-0.0450	-0.4486	1.0000	0.0503	-0.1842	-0.2478	0.0906	0.0105	0.0667	0.9218	0.9238	-0.0735	-0.1126	-0.3233	-0.3397	0.5669	0.2441	-0.1854	-0.2620	-0.2596
FCN	-0.0926	-0.1509	-0.3773	0.0503	1.0000	0.5207	0.3505	-0.1345	-0.1759	0.0855	0.1827	0.1864	0.1147	-0.1453	0.0321	-0.3338	0.1266	-0.1125	-0.1182	-0.1554	-0.1543
FN	0.0042	0.4159	0.0979	-0.1842	0.5207	1.0000	0.3923	-0.3019	-0.2581	0.1560	-0.0869	-0.0832	0.4747	-0.3866	-0.3098	-0.0866	-0.2940	-0.2448	0.2670	0.2792	0.2828
CHLL	-0.1090	0.2762	-0.2686	-0.2478	0.3505	0.3923	1.0000	0.0698	0.0900	0.2779	-0.1501	-0.1507	0.0534	0.1209	0.1704	-0.0052	-0.1949	-0.2196	0.0092	0.1032	0.1013
FLAV	0.4137	0.0524	0.0122	0.0906	-0.1345	-0.3019	0.0698	1.0000	-0.0080	0.1277	-0.1005	-0.0992	0.4404	0.1004	-0.1277	-0.2164	0.6124	0.2350	0.0019	-0.0077	-0.0097
ANTHO	-0.3414	0.1241	-0.1748	0.0105	-0.1759	-0.2581	0.0900	-0.0080	1.0000	-0.7679	-0.0104	-0.0070	-0.2906	0.1067	0.2264	0.0239	0.1974	0.1460	-0.2281	-0.2046	-0.2078
NFI	0.2661	-0.0606	-0.1291	0.0667	0.0855	0.1560	0.2779	0.1277	-0.7679	1.0000	0.1558	0.1525	0.0536	0.1367	-0.0133	0.0059	-0.1163	-0.0565	0.2333	0.2358	0.2347
DFFruit	-0.1817	-0.2043	-0.4934	0.9218	0.1827	-0.0869	-0.1501	-0.1005	-0.0104	0.1558	1.0000	0.9999	-0.2078	0.0159	-0.1462	-0.3049	0.4010	0.1795	-0.2051	-0.2888	-0.2874
DFFH	-0.1762	-0.2002	-0.4933	0.9238	0.1864	-0.0832	-0.1507	-0.0992	-0.0070	0.1525	0.9999	1.0000	-0.2038	0.0089	-0.1531	-0.3116	0.4033	0.1794	-0.2080	-0.2914	-0.2899
Nfruit	0.3599	0.3060	0.4006	-0.0735	0.1147	0.4747	0.0534	0.4404	-0.2906	0.0536	-0.2078	-0.2038	1.0000	-0.4372	-0.4645	-0.2531	0.1540	-0.0222	0.2300	0.2013	0.2063
DI	-0.3694	-0.1405	-0.1594	-0.1126	-0.1453	-0.3866	0.1209	0.1004	0.1067	0.1367	0.0159	0.0089	-0.4372	1.0000	0.6802	0.0736	-0.1199	-0.1263	-0.3096	-0.3653	-0.3711
DS	-0.6423	-0.2390	-0.2373	-0.3233	0.0321	-0.3098	0.1704	-0.1277	0.2264	-0.0133	-0.1462	-0.1531	-0.4645	0.6802	1.0000	0.0101	-0.1082	-0.0449	-0.2082	-0.2485	-0.2527
FL	-0.0911	-0.0554	0.1839	-0.3397	-0.3338	-0.0866	-0.0052	-0.2164	0.0239	0.0059	-0.3049	-0.3116	-0.2531	0.0736	0.0101	1.0000	-0.1760	0.4951	0.4842	0.5121	0.5087
FD	0.1995	0.0067	-0.3965	0.5669	0.1266	-0.2940	-0.1949	0.6124	0.1974	-0.1163	0.4010	0.4033	0.1540	-0.1199	-0.1082	-0.1760	1.0000	0.6242	0.1236	0.0263	0.0256
IFW	-0.0128	-0.1479	-0.1522	0.2441	-0.1125	-0.2448	-0.2196	0.2350	0.1460	-0.0565	0.1795	0.1794	-0.0222	-0.1263	-0.0449	0.4951	0.6242	1.0000	0.4348	0.3672	0.3651
FYPlant	0.3506	0.2621	-0.1110	-0.1854	-0.1182	0.2670	0.0092	0.0019	-0.2281	0.2333	-0.2051	-0.2080	0.2300	-0.3096	-0.2082	0.4842	0.1236	0.4348	1.0000	0.9786	0.9787
FYPlot	0.3680	0.2732	-0.0850	-0.2620	-0.1554	0.2792	0.1032	-0.0077	-0.2046	0.2358	-0.2888	-0.2914	0.2013	-0.3653	-0.2485	0.5121	0.0263	0.3672	0.9786	1.0000	1.0000
YIELD	0.3686	0.2762	-0.0827	-0.2596	-0.1543	0.2828	0.1013	-0.0097	-0.2078	0.2347	-0.2874	-0.2899	0.2063	-0.3711	-0.2527	0.5087	0.0256	0.3651	0.9787	1.0000	1.0000

Note: PH = plant height (cm); LN = number of leaves per plant; LA = individual leaf area (cm²); CHLL = chlorophyll content per leaf (μmol m⁻²); FLAV = flavanol content per leaf (μmol m⁻²); ANTHO = anthocyanin content per leaf (μmol m⁻²); NFI = nitrogen flavanol index; DFF = days to first flowering; FCN = number of flower clusters per plant; FN = number of flowers per plant; DFFruit = days to first fruiting; DFFH = days to first fruit harvest; Nfruit = number of fruits per plant; DI = disease incidence (%); DS = disease severity (%); FL = fruit length (cm); FD = fruit diameter (cm); IFW = individual fruit weight (g); FYPlant = yield per plant (kg); FYPlot = yield per plot (kg); YIELD = yield per hectare (t ha⁻¹). Yield per hectare was derived from yield per plot.