

Table 2. Correlation coefficient for different characters in tomato.

	Fruit length	Fruit width	Fruit thickness	No. of locules	Fruit/ bunch	Plant height	Flower Initiation	Days to flowering	Days to maturity	Fruits/ plant	No. of Primary branches	No. of secondary branches
Yield /plant	0.36	-0.13	0.07	-0.49*	0.46*	0.53*	0.08	0.07	0.14	0.70**	0.62**	0.24
Fruit length		0.52*	0.87*	0.34	-0.22	-0.18	0.51*	0.53*	0.39	-0.25	0.10	0.08
Fruit width			0.28*	0.17	-0.49*	-0.45	0.30	0.18	0.17	-0.62**	-0.33	-0.37
Fruit thickness				0.12	-0.08	-0.05	0.49*	0.48*	0.51*	-0.11	0.18	0.02
No. of locules					-0.31	-0.22	0.04	0.10	-0.05	-0.35	-0.36	0.16
Fruit/ bunch						0.71**	-0.05	-0.05	-0.01	0.60**	0.32	0.39
Plant height							-0.09	-0.06	-0.10	0.81**	0.28	0.54*
Flower initiation								0.95**	0.77**	-0.32	0.11	0.05
Days to flowering									0.73**	-0.27	0.24	0.24
Days to maturity										-0.26	0.27	0.16
Fruits/ plant											0.49*	0.42
No. of primary branches												0.56*

*,** Significant at 5 % and 1% levels.

Table 3. Indirect and direct effects for different characters in tomato.

Character	Fruit length	Fruit width	Fruit thickness	No. of locules	Fruit/ bunch	Plant height	Flower initiation	Days to flowering	Days to maturity	Fruits/ plant	No. of primary branches	No. of secondary branches	Correlation with yield/plant
Fruit length	0.39	0.24	-0.45	-0.02	-0.05	0.02	-0.22	0.24	0.17	-0.26	0.03	-0.03	0.36
Fruit width	0.20	0.46	-0.15	-0.01	-0.10	0.04	-0.13	0.08	0.08	-0.66	-0.09	0.15	-0.13
Fruit thickness	0.34	0.13	-0.52	-0.01	-0.02	0.004	-0.21	0.22	0.22	-0.12	0.05	-0.008	0.07
No. of locules	0.13	0.08	-0.06	-0.06	-0.07	0.02	-0.02	0.04	-0.02	-0.38	-0.10	-0.07	-0.49*
Fruits/bunch	-0.09	-0.22	0.04	0.02	0.21	-0.06	0.02	-0.02	-0.003	0.64	0.09	-0.16	0.46*
Plant height	-0.07	-0.21	0.02	0.01	0.15	-0.09	0.04	-0.03	-0.04	0.87	0.08	-0.21	0.53*
Flower initiation	0.20	0.14	-0.26	-0.003	-0.01	0.008	-0.43	0.43	0.33	-0.34	0.03	-0.02	0.08
Days to flowering	0.21	0.08	-0.25	-0.006	-0.01	0.005	-0.40	0.45	0.31	-0.29	0.06	-0.09	0.07
Days to maturity	0.15	0.08	-0.27	0.003	-0.001	0.009	-0.33	0.33	0.42	-0.28	0.07	-0.06	0.14
Fruits/plant	-0.10	-0.28	0.06	0.02	0.13	-0.07	0.14	0.12	-0.11	1.07	0.13	-0.17	0.70**
No. of primary branches	0.09	-0.15	-0.92	0.02	0.07	-0.03	-0.05	0.11	0.12	0.53	0.27	-0.22	0.62**
No. of secondary branches	0.32	-0.17	-0.01	-0.01	0.08	-0.05	-0.02	0.11	0.07	0.45	0.15	-0.40	0.24

*,** Significant at 5 % and 1% levels.