

Table 2b Percentage increase / decrease (heterosis) over better parent (BP) and check hybrid (NS-524) for different traits

Hybrid	Harvesting span (days)		Fruit shape index		Pericarp thickness (cm)		Number of locules per fruit		TSS (%)		Lycopene content (mg/100g)	
	Better parent	NS-524	Better parent	NS-524	Better parent	NS-524	Better parent	NS-524	Better parent	NS-524	Better parent	NS-524
PVB-1 × 115-1-8-1	8.3*	3.57	-3.96	-0.68	4.2	-1.30	-7.66	-9.96	9.73*	-11.54*	-66.9**	-34.93**
PVB-1 × 58-18-1-1	3.37	-2.78	-4.21	-7.14*	0.00	-5.19	22.83**	15.26*	-24.53**	-22.91**	12.04	-0.44
PVB-1 × 55-26-1-1	-9.27*	-14.68**	-1.08	-7.14*	19.17**	12.99**	0.00	4.55	-2.43	-4.22	-42.08**	-42.62**
PVB-1 × PVB-2	0.39	1.19	1.12	-8.16*	-6.66	-9.09*	-13.62**	15.37*	-5.25	-5.17	-18.98**	8.06
Sel 12-1-17 × 115-1-8-1	-16.59**	-20.24**	-15.84**	-13.61**	29.98**	3.90	-9.66	-12.12	2.75	-1.91	-15.45**	66.02**
Sel 12-1-17 × 58-18-1-1	7.3	-6.75	-9.47**	-12.24**	4.76	-14.29**	29.77**	-5.30	4.44	6.60	-3.98	55.10**
Sel 12-1-17 × 55-26-1-1	1.28	-5.95	-6.26*	-12.24**	23.18**	10.39*	3.46	8.12	17.00**	11.69*	10.62*	78.52**
Sel 12-1-17 × PVB-2	-17.71**	-17.06**	15.73**	4.76	-2.66	-5.19	-17.51**	10.06	5.73	5.73	-9.51	45.99**
Sel 12-1-16 × 115-1-8-1	-1.24	-5.56	-21.78**	-19.05**	4.28	-5.19	7.33	4.55	19.77**	24.42**	28.7**	152.83**
Sel 12-1-16 × 58-18-1-1	11.94**	0.40	-2.10	-5.44	8.57	-1.30	15.82*	4.55	12.18**	16.39**	0.00	64.95**
Sel 12-1-16 × 55-26-1-1	5.98	-1.59	-5.43	-10.88**	18.57**	7.79	-10.24	-6.28	17.17**	22.20**	6.29	75.14**
Sel 12-1-16 × PVB-2	2.36	3.17	3.48	-9.52**	6.66	3.90	-24.33**	0.97	2.76	6.60	4.77	72.38**
102-8-6-1 × 115-1-8-1	4.15	-0.40	-13.86**	-11.22**	22.05**	7.79	14.33*	11.26	-5.71	-13.37**	-54.9**	-11.49
102-8-6-1 × 58-18-1-1	-13.45**	-23.41**	-3.15	-5.78	20.00**	-14.29**	3.95	-6.17	-19.62**	-17.82**	2.14	2.11
102-8-6-1 × 55-26-1-1	-10.25*	-16.67**	-17.39**	-22.79**	24.63**	11.69**	0.00	4.55	19.03**	5.97	30.35**	30.24**
102-8-6-1 × PVB-2	-7.08*	-6.35	-7.86*	-16.67**	6.66	3.90	-24.33**	0.97	5.72	5.81	-10.42	19.46*
102-8-5-1 × 115-1-8-1	5.00	0.00	-8.91**	-5.78	-9.09*	-9.09*	-11.33	-13.57*	-1.36	3.50	-20.00**	57.00**
102-8-5-1 × 58-18-1-1	1.25	-3.57	2.10	-1.36	-14.28**	-14.28**	35.97**	22.62**	0.68	5.65	-7.44	-6.62
102-8-5-1 × 55-26-1-1	11.25**	5.95	1.86	-5.44	-5.19	-5.19	-3.41	0.97	2.5	7.56*	-30.85**	-30.23**
102-8-5-1 × PVB-2	-5.9	-5.16	-9.09**	-18.37**	-14.28**	-14.28**	-15.81**	12.23	-10.91*	-6.52	33.42**	-10.94
102-1-6-1 × 115-1-8-1	-12.44**	-16.27**	-11.88**	-9.52**	-7.35	-18.18**	0.00	-2.60	-3.89	-11.69*	-28.18**	41.01**
102-1-6-1 × 58-18-1-1	13.45**	0.40	-3.15	-6.46	8.19	-14.28**	7.24	0.97	-6.54	-4.46	15.43*	28.29**
102-1-6-1 × 55-26-1-1	11.11**	3.17	-1.08	-6.80	-23.18**	-31.17**	-9.31	-5.30	3.52	-8.83*	58.19**	75.87**
102-1-6-1 × PVB-2	-7.87*	-7.14	14.28**	6.12	-28.00**	-29.87**	-10.70*	19.16**	-7.39	-7.40	-15.51**	12.87
7-5-1 × 115-1-8-1	10.79**	5.95	3.51	20.07**	-17.64**	-27.27**	-18.66**	-20.67**	-17.25**	-3.82	-71.45**	-43.82**
7-5-1 × 58-18-1-1	8.78*	3.17	-5.26*	10.54**	-8.88	-35.06**	33.33**	-2.71	-12.52**	1.75	-51.12**	-61.20**
7-5-1 × 55-26-1-1	5.84	0.40	0.00	16.33**	-33.33**	-40.36**	-31.05**	-27.92**	-26.69**	-14.72**	-38.48**	-38.99**
7-5-1 × PVB-2	-1.58	-0.79	-7.01**	8.50**	-46.66**	-48.05**	-8.04	22.62**	-15.81**	-2.23	-47.32**	-29.49**
7-4 × 115-1-8-1	-2.02	-3.57	-16.21**	-5.10	-22.06**	-31.17**	-2.66	-5.30	-2.93	-5.25	-53.81**	-9.12
7-4 × 58-18-1-1	4.83	3.17	-7.20**	5.44	17.77**	-31.17**	-11.11	-35.06**	15.65**	18.06**	31.39**	4.46
7-4 × 55-26-1-1	7.56	5.95	-8.11**	3.74	-18.84**	-27.27**	3.41	8.01	12.71**	10.10*	-34.16**	-34.81**
7-4 × PVB-2	-3.54	-2.78	5.41*	19.39**	-33.33**	-35.06**	-32.19**	-9.85	2.38	2.43	-54.88**	-39.67**
2-1 × 115-1-8-1	0.00	-2.38	0.00	22.45**	-27.94**	-36.36**	-33.33**	-35.06**	17.31**	14.80**	-30.18**	37.20**
2-1 × 58-18-1-1	5.69	3.17	-25.83**	-9.18**	11.11	-35.06**	13.33	-17.10*	-9.81*	-7.80*	-22.42**	7.52

2-1 × 55-26-1-1	-10.15**	-12.30**	-15.00**	3.74	-33.33**	-40.36**	-28.26**	-25.11**	8.53*	6.21	10.31	24.36**
2-1 × PVB-2	-5.12	-4.37	-21.66**	-4.42	-38.66**	-40.36**	-37.56**	-16.77*	4.3	4.38	15.20*	59.50**
CH-2-2 × 115-1-8-1	-10.78**	-14.68**	-6.9*	-3.74	-1.23	3.9	25.66**	22.51**	8.83*	0.08	-44.18**	9.69
CH-2-2 × 58-18-1-1	-9.13*	-21.03**	2.10	-1.22	-6.17	-1.30	12.89	-6.28	-21.03**	-6.92	-18.53**	34.95**
CH-2-2 × 55-26-1-1	-18.37**	-24.21**	-8.89**	-14.80**	-6.17	11.69**	-10.24	-6.28	14.36**	0.72	-16.16**	38.75**
CH-2-2 × PVB-2	-29.52**	-28.97**	-2.22	-10.20**	-6.17	-1.30	0.00	33.44**	-7.16	-7.24	0.43	66.25**
CH-2-3-1 × 115-1-8-1	-4.83	-6.35	-6.9*	-4.42	2.94	-9.09*	20.43**	26.30**	-7.92*	-5.65	-69.63**	-40.24**
CH-2-3-1 × 58-18-1-1	-0.81	-2.38	-15.78**	-18.03**	17.64**	3.90	3.40	8.55	-5.59	-3.42	-46.63**	-57.60**
CH-2-3-1 × 55-26-1-1	0.00	-1.59	-16.13**	-20.07**	1.45	-9.09*	23.83**	29.87**	9.32*	11.85**	-44.96**	-45.46**
CH-2-3-1 × PVB-2	-15.35**	-14.68**	-20.43**	-24.49**	6.66	3.9	17.95	62.34**	2.33	4.69	-55.88**	-40.92**
CD at 5%	5.83		0.06		0.07		0.39		0.32		1.43	
CD at 1%	8.04		0.08		0.09		0.55		0.52		1.98	