

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

Hybrid	Days to 50% flowering		Days to first harvest		Plant height (cm)		Average fruit weight (g)		Number of fruits/plant		Total fruit yield (kg/plant)	
	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	7.67	-9.43	8.33*	-18.44**	-20.61**	8.59	-22.41**	2.27	-17.27**	2.71	-20.73*	3.04
PVB-1 × 58-18-1-1	23.73**	4.27	2.78	-13.44**	-5.72	28.96**	-5.6	6.30	-17.20**	2.75	-2.66	15.90
PVB-1 × 55-26-1-1	1.24	-14.69*	0.00	-10.94**	-16.67**	13.99*	-13.06**	15.12**	13.53*	40.93**	36.00**	61.93**
PVB-1 × PVB-2	-18.17*	-24.17**	-15.78**	-15.94**	-4.03	31.27**	-28.56**	3.04	-4.9	18.01**	6.66	26.69**
Sel 12-1-17 × 115-1-8-1	-31.90**	-48.39**	-13.31**	-13.44**	-18.63**	14.88*	-7.9**	59.99**	-62.38**	-58.71**	-15.24	10.13
Sel 12-1-17 × 58-18-1-1	-11.65	-44.18**	0.00	0.00	-4.96	34.19**	0.17	74.02**	-27.84**	-40.68**	12.28	1.80
Sel 12-1-17 × 55-26-1-1	-1.26	-18.90**	1.54	1.56	9.6*	54.83**	1.15	75.71**	-18.95*	-34.92**	10.52	16.69
Sel 12-1-17 × PVB-2	0.00	-7.32	-10.8	-10.94**	-7.17	31.06**	-17.75**	42.86**	28.83**	-8.91	3.73	10.32
Sel 12-1-16 × 115-1-8-1	0.00	-24.17**	0.00	-15.94**	-14.37**	36.28**	2.3	42.78**	-6.05	3.15	32.32**	72.17**
Sel 12-1-16 × 58-18-1-1	-3.10	-33.65**	-2.9	-18.44**	-18.08**	30.48**	14.17**	59.21**	-15.64**	-30.66**	9.23	12.99
Sel 12-1-16 × 55-26-1-1	1.26	-16.80*	5.87	-10.94**	10.98*	76.78**	8.7*	51.56**	52.45**	22.44**	68.46**	73.62**
Sel 12-1-16 × PVB-2	-32.93**	-37.86**	-15.8**	-15.94**	-16.03**	33.74**	2.2	47.45**	-18.90	-42.68**	-18.26*	-13.60
102-8-6-1 × 115-1-8-1	-3.30	-8.37	-9.99**	-22.19**	-0.43	-20.30**	0.41	32.35**	-48.09**	-43.00**	-37.80**	-19.07
102-8-6-1 × 58-18-1-1	-32.23**	-35.76**	-2.94	-15.94**	24.54**	20.65**	19.43**	43.09**	-33.68**	-45.48**	-18.26	-25.37**
102-8-6-1 × 55-26-1-1	-12.23	-16.80*	-6.87	-7.81*	13.04	-9.51	-3.7	27.51**	24.01**	-0.56	5.26	11.14
102-8-6-1 × PVB-2	-26.66**	-30.49**	-21.54**	-18.44**	-20.73**	-0.92	7.3*	54.79**	15.59	-13.48	3.73	10.37
102-8-5-1 × 115-1-8-1	-16.00*	-33.65**	-4.50	-22.19**	2.45	-14.01*	-19.79**	5.71	-24.56**	-17.15*	-42.68**	-25.03*
102-8-5-1 × 58-18-1-1	-13.00	-30.49**	-5.00	-29.69**	12.76	9.24	-1.23	14.56**	12.08	0.02	-3.87	17.88
102-8-5-1 × 55-26-1-1	-1.26	-18.90**	0.00	-25.94**	2.01	-14.39*	-11.76**	16.84**	-23.58**	-31.81**	-32.9**	-17.17
102-8-5-1 × PVB-2	-24.90**	-30.49**	-21.98**	-22.19**	-23.33**	-4.19	-12.20**	26.64**	-42.15**	-48.37**	-42.58**	-29.76**
102-1-6-1 × 115-1-8-1	21.90*	-6.27	6.05	-13.44**	-25.72**	-28.41**	-28.19**	11.50*	-14.04	-5.62	-20.12*	3.73
102-1-6-1 × 58-18-1-1	-1.35	-24.17**	-4.54	-22.19**	-5.39	-8.34	-14.64**	32.56**	9.84	-9.71	21.34*	29.39**
102-1-6-1 × 55-26-1-1	-3.84	-21.01**	-9.09*	-25.94**	17.11*	12.89*	-16.54**	29.61**	12.12	-9.95	19.56*	26.43*
102-1-6-1 × PVB-2	-13.6	-19.96**	-18.26**	-18.44**	-11.82*	10.21	-16.63**	30.34**	6.41	-24.77**	-3.73	2.14
7-5-1 × 115-1-8-1	29.16**	-2.05	6.05	-13.44**	8.41	-13.46*	-49.97**	-34.07**	-27.37**	6.28	-35.36**	-15.61
7-5-1 × 58-18-1-1	49.00**	-19.96**	3.03	-15.94**	-24.95**	-27.30**	-38.86**	-31.19**	-20.26**	16.66*	-10.34	-17.17
7-5-1 × 55-26-1-1	-0.64	-23.12**	6.05	-13.44**	2.00	-18.58**	-54.21**	-39.37**	-16.04**	22.84**	-27.82**	-24.05*
7-5-1 × PVB-2	-22.7**	-28.38**	-10.83**	-10.94**	-24.35**	-5.46	-42.71**	-17.37**	-8.29	34.20**	0.74	7.14
7-4 × 115-1-8-1	-1.37	-25.22**	-13.63**	-29.69**	2.89	-19.48**	-35.15**	-14.53**	-3.93	37.19**	-10.97	15.53
7-4 × 58-18-1-1	-16.89**	-37.86**	0.00	-22.19**	-19.71**	-22.22**	-33.64**	-25.33**	-15.54**	20.63**	-5.17	-12.99
7-4 × 55-26-1-1	-38.46**	-49.45**	-4.67	-25.94**	1.43	-16.73*	-39.28**	-19.61**	-5.7	34.64**	1.5	6.85
7-4 × PVB-2	-18.37**	-25.22**	-18.26**	-18.44**	-37.21**	-21.52**	-53.43**	-32.83**	19.70**	70.95**	-2.98	2.80
2-1 × 115-1-8-1	33.33**	1.11	3.30	-15.94**	-3.75	-24.68**	-54.73**	-40.33**	4.82	15.09*	-39.63**	-21.43*
2-1 × 58-18-1-1	38.09**	-8.37	0.00	-18.44**	-22.82**	-25.24**	-19.52**	-9.43*	18.6*	-2.50	10.78	-10.03
2-1 × 55-26-1-1	-2.57	-19.96**	-9.09**	-10.94**	7.86	-16.66*	-51.68**	-36.02**	105.89**	65.35**	-6.76	-1.51
2-1 × PVB-2	-19.29**	-25.22**	-15.83**	-15.94**	-22.92**	-3.67	-39.90**	-13.31**	104.43**	59.09**	41.79**	50.45**
CH-2-2 × 115-1-8-1	20.00**	13.74*	-6.49*	-10.94**	3.71	4.54	5.41	63.45**	19.7**	31.43**	77.43**	130.71**
CH-2-2 × 58-18-1-1	6.6	1.11	-11.68**	-15.94**	22.83**	23.81**	2.61	59.09**	3.68	-14.75*	70.58**	38.41**

CH-2-2 × 55-26-1-1	20.00**	13.74*	-3.25	-7.81*	24.67**	25.67**	22.35**	89.71**	32.43**	6.36	103.07**	114.42**
CH-2-2 × PVB-2	30.00**	23.22**	-4.64	-4.69	-3.07	21.13**	-1.52	52.68**	-33.25**	-52.81**	-36.56**	-32.38**
CH-2-3-1 × 115-1-8-1	-5.5	-28.38**	-5.55	-15.94**	-27.45**	-21.40**	0.87	51.82**	-59.98**	-56.08**	-5.48	23.15*
CH-2-3-1 × 58-18-1-1	22.9*	-19.96**	-2.78	-13.44**	10.24	19.45**	2.92	54.96**	-31.00**	-43.29**	-9.83	-12.75
CH-2-3-1 × 55-26-1-1	16.65*	-4.16	12.15**	0.00	-20.9**	-14.32*	10.53**	66.44**	-9.42	-27.26**	6.01	11.98
CH-2-3-1 × PVB-2	-1.12	-8.37	-15.78**	-13.44**	-30.1**	-12.54	-8.42**	37.88**	-41.05**	-55.34**	-14.17	-9.13
CD at 5%	4.03		6.63		12.55		3.81		4.18		0.26	
CD at 1%	5.55		9.14		17.31		5.26		5.77		0.36	