

Table 1 The values of agronomic traits and t values of the candidate NILs with three genetic backgrounds ($t_{0.05}=2.26$, $t_{0.01}=3.25$, $n=10$)

Code No.	Var.	PH(cm)	ST(cm)	BH(cm)	NFB	NSB	LMI(cm)	SMI	SFB	SSB	SL(cm)	SS	SW(g)
1	T78	131.80	1.28	38.40	9.60	4.00	48.40	60.40	260.20	30.60	5.87	14.32	2.86
2	wh7	136.00	1.30	40.00	6.40	1.80	55.20	68.60	174.40	6.20	6.74	21.16	4.23
	t	-1.11	-0.14	-0.39	6.82**	2.06	-1.76	-1.19	3.66**	4.10**	-3.89**	-4.86**	-4.86**
3	wh12	144.20	1.32	54.40	7.80	1.00	45.80	56.80	196.40	8.00	6.23	16.24	3.25
	t	-3.42**	-0.26	-4.29**	5.69**	3.16*	1.00	0.46	3.76**	3.89**	-1.12	-1.18	-1.18
4	wh13	157.40	1.70	46.80	8.80	4.20	49.40	50.80	265.60	47.60	5.95	15.04	3.01
	t	-7.02**	-2.12	-3.27**	1.26	-0.15	-0.24	1.58	-0.14	-0.96	-0.21	-0.45	-0.45
5	wh14	141.60	1.38	52.40	9.20	1.60	39.00	50.20	242.80	11.00	5.22	16.44	3.29
	t	-2.11	-0.69	-2.59*	0.45	1.53	2.76*	1.27	0.51	1.73	2.62*	-1.19	-1.19
6	wh15	147.80	1.26	42.00	8.40	4.20	47.20	46.20	215.40	19.00	6.00	17.36	3.47
	t	-4.55**	0.15	-0.96	2.12	-0.11	0.21	2.34	2.29	1.27	-0.29	-1.67	-1.67
7	wh26	138.40	1.56	44.80	8.00	3.00	50.00	59.60	199.20	16.80	6.44	17.88	3.58
	t	-1.77	-1.74	-2.15	2.67*	0.58	-0.51	0.06	2.25	1.14	-3.46**	-2.70*	-2.70*
8	wh28	166.00	1.45	63.75	8.00	1.75	51.25	57.75	213.00	8.75	5.98	13.95	2.79
	t	-8.91**	-1.15	-8.40**	4.00**	2.21	-1.29	0.53	3.59**	3.56**	-0.68	0.32	0.32
9	T84	128.00	1.20	45.00	7.00	3.00	43.00	68.00	178.00	17.00	5.39	19.05	3.81
10	wh59	115.60	1.12	35.40	6.00	0.40	43.20	65.20	131.60	0.60	5.03	18.44	3.69
	t	3.90**	1.12	2.27*	1.13	0.56	-1.44	-1.95	0.32	1.10	1.64	0.98	0.98
11	wh68	110.40	1.36	29.40	8.40	4.60	36.20	51.60	211.60	31.20	4.49	16.96	3.39
	t	4.69**	-0.91	3.38**	-1.35	-2.26*	1.03	0.90	-2.08	-2.22	3.88**	1.71	1.71
12	wh71	115.40	1.12	31.20	7.20	1.60	43.00	60.20	192.60	5.60	4.81	19.44	3.89
	t	9.77**	1.01	2.49*	-0.73	-0.78	-1.51	-0.55	-2.63*	-0.25	2.77*	-0.69	-0.69
13	wh75	109.00	1.22	23.60	6.40	3.20	40.60	52.20	197.60	17.80	4.56	18.84	3.77
	t	8.61**	0.03	3.87**	0.64	-1.53	-0.19	0.27	-1.90	-1.10	3.34**	0.22	0.22
14	wh77	111.00	1.24	25.20	7.20	3.80	43.00	54.20	163.00	38.60	4.86	19.24	3.85

Continued Table 1

Code No.	Var.	PH(cm)	ST(cm)	BH(cm)	NFB	NSB	LMI(cm)	SMI	SFB	SSB	SL(cm)	SS	SW(g)
	t	9.31**	-0.09	3.80**	-0.73	-1.94	-0.93	0.23	-0.92	-2.17	2.76*	-0.33	-0.33
15	wh78	119.60	1.20	29.00	6.80	1.00	46.60	64.40	173.60	2.00	5.17	19.84	3.97
	t	2.31*	0.27	3.38**	-0.07	-0.26	-2.04	-1.68	-1.42	0.60	0.54	-1.08	-1.08
16	ZS9	137.00	1.38	54.60	8.20	2.40	46.40	57.80	218.20	12.60	5.23	20.07	4.01
17	wh118	128.80	1.34	40.00	6.40	5.00	50.80	51.40	208.80	46.60	5.14	19.53	3.91
	t	2.73*	0.21	2.60*	1.52	-1.20	-1.48	1.59	0.17	-1.39	0.43	0.55	0.55
18	wh123	130.60	1.40	35.40	6.40	10.20	56.80	53.60	208.00	81.60	5.52	21.84	4.37
	t	1.88	-0.18	4.43**	1.58	-4.75	-3.63**	1.33	0.18	-5.11**	-1.33	-1.55	-1.55
19	wh124	135.00	1.36	45.20	6.20	5.40	48.00	49.20	168.60	41.00	5.16	19.24	3.85
	t	0.46	0.08	1.54	1.70	-1.02	-0.32	1.15	0.80	-1.02	0.46	0.84	0.84
20	wh127	127.20	1.20	39.80	6.40	2.60	49.80	58.40	172.80	9.60	5.44	20.08	4.02
	t	4.88**	1.35	2.41*	1.58	-0.14	-0.48	-0.15	0.80	0.36	-0.97	-0.01	-0.01
21	wh128	123.75	1.38	32.00	7.00	7.25	56.25	54.75	181.50	31.00	5.88	18.50	3.70
	t	5.10**	0.02	4.60**	0.97	-2.37*	-4.02**	0.54	0.61	-1.80	-1.75	1.28	1.28
22	wh129	123.40	1.40	30.40	6.40	7.80	55.20	53.60	180.80	75.60	5.13	17.76	3.55
	t	4.60**	-0.16	5.19**	1.58	-2.85*	-2.77*	0.56	0.67	-3.06**	0.57	1.85	1.85
23	wh133	124.35	1.65	29.35	8.10	9.20	54.55	56.90	233.95	66.15	5.47	20.87	4.02
	t	7.46**	-3.02*	5.29**	-0.36	-5.58**	-2.86*	-0.06	-0.56	-5.42**	-1.74	-0.63	-0.63
24	wh136	119.80	0.96	38.60	6.00	4.00	50.20	90.60	143.60	20.20	6.60	16.40	3.92
	t	3.92**	3.29**	2.76*	1.90	-0.76	-1.31	-0.86	1.34	-0.57	-0.87	0.37	0.37

Note: The bold rows mean the values of agronomic traits of the genetic donors; *: means data with significance at 0.05 level; **: means data with significance at 0.01 level; VAR: Variety and lines; PH: Plant height; ST: Stem thickness; BH: Branch height; NFB: Number of the first branches; NSB: Number of the second branches; LMI: Length of the main inflorescence; SMI: Siliques of the main inflorescence; SFB: Siliques of the first branches; SSB: Siliques of the second branches; SL: Silique length; SS: Seeds per silique; SW: 1000-seed weight