

Supplemental Table S1. Names and pedigree information of wheat parents used in a 10 x 10 half-diallel mating design.

Parents	Pedigree information
LM02	MILAN/KAUZ//PRINIA/3/BAV92/5/TRAP#1/BOW//VEE#5/SARA/3/ZHE JIANG 4/4/DUCULA
LM22	MUNAL#1
LM32	ATTILA*2//CHIL/BUC*2/3/KUKUNA
LM44	ROLF07/TUKURU/5/WBLL1*2/4/YACO/PBW65/3/KAUZ*2/TRAP//KAUZ
LM71	BABAX/3/PRL/SARA//TSI/VEE#5/4/CROC_1/AE.SQUARROSA (224)//2*OPATA
LM72	BABAX/3/PRL/SARA//TSI/VEE#5/4/WBLL1
LM81	CROC_1/AE.SQUARROSA (224)//2*OPATA/3/2*RAC655
LM82	HD30/5/CNDO/R143//ENTE/MEXI75/3/AE.SQ/4/2*OCI
LM95	D67.2/P66.270//AE.SQUARROSA (320)/3/CUNNINGHAM
LM100	SW89.5277/BORL95//SKAUZ

Supplemental Table S2. Mean values for agronomic and physiological traits† evaluated among 10 wheat parents and their progenies under irrigated moisture regime in rainout shelter (RS) and glasshouse (GH) environments.

Genotypes	DTM		PH		SL		TN		SPS		GPS		GY		TKW		SC		CCI	
	RS	GH	RS	GH	RS	GH	R S	G H	RS	GH	RS	GH	RS	GH	RS	GH	RS	GH	RS	GH
Parents																				
LM02	99	99	99	101	12.41	13.71	6	7	15.91	18.91	39.07	38.91	6.39	7.64	57.28	56.95	152.52	212.19	35.51	37.67
LM22	98	97	90	92	7.63	11.13	5	6	17.83	22.58	46.17	47.96	7.71	8.49	65.82	63.56	152.97	221.05	38.72	33.03
LM32	99	97	90	93	12.27	10.59	5	6	19.86	22.61	47.48	46.87	8.53	9.93	67.06	66.90	179.83	245.49	49.36	42.66
LM44	99	98	98	100	13.93	16.32	6	7	19.57	21.87	44.14	46.88	6.53	7.70	65.25	65.09	183.38	228.15	47.96	45.98
LM71	98	97	96	98	14.63	14.13	5	6	21.51	23.81	49.53	52.02	8.72	9.70	70.12	66.45	139.92	187.48	35.88	31.09
LM72	102	102	98	100	13.18	15.08	6	8	23.76	25.56	55.03	55.62	7.22	8.08	66.91	64.16	171.24	218.62	32.35	25.59
LM81	103	101	98	101	8.27	12.22	6	7	17.19	19.69	39.89	42.23	7.95	9.35	66.83	66.21	221.37	284.16	35.58	38.22
LM82	102	100	100	102	12.45	14.15	5	6	22.06	24.41	50.88	52.32	6.15	5.29	57.22	54.34	154.43	202.06	37.39	34.43
LM95	99	98	92	94	10.26	11.71	6	7	17.28	19.33	42.05	41.00	7.37	8.23	57.77	59.72	167.95	235.91	29.93	28.96
LM100	103	102	99	101	11.16	12.71	6	6	19.23	20.73	46.45	44.95	7.37	7.13	68.45	66.56	169.93	230.81	44.65	39.50
Crosses																				
LM02×LM100	95	86	98	101	10.39	13.39	6	7	20.78	22.08	48.31	47.95	6.30	6.45	51.91	52.16	206.21	221.05	35.57	24.97
LM02×LM22	96	87	96	97	7.24	12.79	5	7	18.77	23.77	43.04	50.53	6.05	5.89	61.08	62.94	159.33	145.11	46.10	36.13
LM02×LM32	93	82	100	102	10.06	10.56	6	6	20.02	21.37	46.04	46.53	7.55	6.77	58.10	55.65	161.83	147.61	43.54	39.21
LM02×LM81	96	90	72	74	7.28	7.63	6	7	18.39	18.24	45.77	43.82	8.69	8.38	69.29	68.81	144.86	194.55	44.13	27.35
LM22×LM100	96	89	95	98	16.12	17.57	6	7	21.40	24.40	43.81	51.80	8.34	9.32	69.10	65.27	166.06	210.35	26.15	19.00
LM22×LM81	91	77	87	89	15.11	14.61	5	6	20.86	22.86	48.47	48.57	7.44	8.69	64.74	61.71	160.88	210.04	37.74	28.78
LM32×LM100	94	86	91	94	14.47	13.27	5	7	21.68	23.18	47.37	48.71	7.70	7.54	63.91	65.97	187.83	242.69	35.17	31.22
LM32×LM22	95	85	93	99	12.15	13.80	6	6	19.66	22.16	46.82	47.61	7.46	8.24	66.07	63.86	177.53	284.16	47.85	43.58
LM32×LM81	98	89	96	98	12.38	13.68	6	7	21.79	23.14	50.48	50.32	5.81	5.03	60.28	58.13	185.09	250.91	43.21	32.46
LM44×LM02	96	87	95	98	15.07	17.17	5	7	20.08	23.58	45.91	49.85	6.99	7.73	62.56	64.63	208.48	231.07	38.76	30.99
LM44×LM100	97	86	98	100	14.38	16.14	6	6	20.89	23.89	49.28	51.12	8.47	9.52	68.30	67.84	177.42	195.99	43.08	43.12
LM44×LM22	95	86	100	102	15.36	17.06	5	6	20.15	22.45	39.80	48.94	7.77	8.63	67.66	69.72	178.71	220.27	47.91	35.08
LM44×LM32	97	88	84	97	8.08	10.68	6	7	19.53	24.53	50.07	51.86	6.19	6.78	55.51	52.46	189.14	239.02	32.49	24.42
LM44×LM81	94	86	96	98	11.82	13.52	5	6	18.00	20.80	43.51	43.85	6.78	7.48	61.74	58.49	167.86	212.19	42.14	48.72
LM71×LM02	92	85	91	97	13.57	14.97	5	6	19.04	21.54	45.58	47.32	7.40	8.54	66.42	66.46	166.59	147.63	45.14	42.11
LM71×LM100	97	88	95	97	13.93	14.63	5	7	21.73	23.63	49.92	47.51	8.75	10.0 0	62.18	61.72	182.52	242.57	42.10	31.03
LM71×LM22	93	84	95	98	9.30	13.20	0	7	16.04	19.04	39.09	41.78	6.00	7.10	61.46	57.99	152.73	210.20	36.10	23.86
LM71×LM32	93	83	97	99	12.24	13.69	5	6	20.97	22.87	46.45	49.74	8.69	10.0 2	71.21	70.81	174.06	238.91	42.92	29.13
LM71×LM44	95	86	96	101	11.21	12.96	5	6	20.36	22.86	46.72	48.86	9.24	10.1 0	72.24	68.89	157.12	220.13	43.28	38.12

LM71×LM72	95	85	80	87	11.93	13.53	6	7	16.03	18.53	38.95	40.30	7.23	8.56	68.23	67.73	166.69	225.96	41.06	23.76
LM71×LM81	97	89	99	101	8.86	12.11	5	6	17.34	23.74	49.43	50.17	9.68	10.86	71.70	68.29	164.85	248.36	51.46	40.20
LM71×LM95	95	82	94	96	16.31	17.31	6	8	18.29	19.79	44.07	42.72	7.37	7.45	67.83	64.65	176.00	240.28	40.59	24.90
LM72×LM02	95	93	93	95	9.54	11.14	6	7	22.05	24.05	51.00	51.65	6.76	6.44	53.05	49.92	151.39	251.62	42.33	36.51
LM72×LM100	98	88	95	96	14.97	16.32	5	6	19.90	19.40	39.80	41.55	7.63	8.33	70.51	67.54	177.80	176.90	48.03	23.57
LM72×LM22	96	88	99	101	13.86	15.31	6	7	18.72	20.72	44.45	45.39	8.19	9.13	69.93	67.80	182.55	163.34	42.47	35.31
LM72×LM32	94	87	103	105	7.95	11.35	5	6	18.16	20.16	43.82	44.37	7.60	8.74	63.37	63.06	143.51	195.61	42.86	29.72
LM72×LM44	102	93	86	88	11.64	13.24	6	6	21.91	23.56	44.82	51.61	6.71	7.65	65.43	67.51	192.52	191.11	41.59	28.47
LM72×LM81	96	89	86	88	11.60	13.13	6	7	19.88	21.78	46.77	46.91	6.51	7.84	60.36	59.91	167.82	222.62	37.22	32.02
LM72×LM95	96	86	97	99	8.87	11.17	6	7	20.35	23.15	47.69	45.09	7.11	8.21	47.15	43.84	182.47	254.33	33.78	33.89
LM81×LM100	94	86	88	90	9.98	11.63	5	6	16.45	18.95	39.79	41.29	7.92	8.78	66.93	68.93	163.82	211.39	39.24	30.68
LM82×LM02	94	84	98	100	12.23	13.08	5	6	21.45	23.75	49.65	51.40	7.29	8.07	58.22	56.16	154.44	206.22	35.50	26.67
LM82×LM100	95	86	100	102	10.09	11.89	5	6	18.32	23.22	43.65	49.54	7.34	8.12	62.84	59.48	171.28	164.89	30.26	21.46
LM82×LM22	95	86	89	97	10.44	14.77	6	8	19.62	22.47	48.24	48.28	7.67	6.97	66.43	68.42	177.55	245.17	35.28	25.68
LM82×LM32	94	88	92	95	13.18	14.23	5	6	23.01	24.26	47.03	52.27	6.52	6.75	58.79	58.58	209.03	228.15	38.67	40.09
LM82×LM44	98	89	90	92	16.47	18.02	6	7	16.50	20.55	40.50	41.14	7.83	8.77	67.83	67.63	175.43	174.36	39.30	17.66
LM82×LM71	98	88	80	83	9.80	12.34			17.00	19.30	40.89	42.69	8.57	9.82	70.86	70.81	140.66	134.56	33.28	29.90
LM82×LM72	97	88	72	74	9.18	11.23	5	7	18.04	19.54	43.08	42.08	6.26	7.27	55.81	57.94	187.71	244.35	44.44	44.80
LM82×LM81	95	85	100	102	9.25	14.12	6	6	20.76	23.56	44.52	50.41	6.25	7.42	61.72	61.61	181.55	225.70	44.86	39.06
LM82×LM95	94	84	95	100	8.58	11.06	5	5	20.27	22.12	47.55	47.09	7.52	7.13	68.07	67.46	152.02	215.90	26.97	19.40
LM95×LM02	97	88	96	100	12.16	13.91	5	6	18.83	20.83	45.41	44.71	9.01	9.09	71.60	68.22	175.54	169.34	39.88	33.29
LM95×LM100	93	81	101	103	7.33	10.53	5	7	15.93	21.58	46.76	46.35	7.33	6.86	50.06	46.72	174.75	168.69	38.31	35.85
LM95×LM22	96	87	97	102	9.15	11.00	6	7	17.60	21.20	45.20	44.99	7.53	8.23	67.92	64.84	160.94	271.24	42.38	36.84
LM95×LM32	94	85	100	102	10.26	13.01	5	6	21.78	23.18	48.57	49.61	8.19	9.05	69.31	67.15	187.84	242.72	39.92	32.12
LM95×LM44	102	93	99	102	15.45	17.05	5	6	22.99	25.34	53.49	54.23	7.09	6.70	63.41	63.10	152.28	234.30	40.53	46.68
LM95×LM81	94	83	95	97	15.21	16.61	6	6	21.11	23.36	43.12	49.36	8.86	9.53	70.16	67.66	158.31	231.40	46.32	50.35
Mean	96	89	94	97	11.65	13.49	5	6	19.57	22.07	45.73	47.28	7.48	8.10	64.07	62.88	171.39	217.33	39.95	33.18
P-value	**	**	ns	**	**	**	ns	ns	*	*	ns	ns	**	*	*	ns	ns	ns	ns	ns
SED‡	2.50	3.01	6.51	5.25	1.20	1.79	0.76	1.02	2.23	2.07	5.14	4.46	0.49	1.27	6.64	7.33	21.21	46.59	8.36	9.85
LSD (5%)§	5.01	6.04	13.05	10.52	2.41	3.60	1.52	2.05	4.48	4.15	10.31	8.90	1.45	2.54	13.31	14.69	42.53	93.40	16.77	19.74

CV (%)¶	2.60	3.40	6.90	5.40	10.30	13.30	13 .9 0	15 .8 0	11.40	9.40	11.20	9.40	10.5 0	15.6 0	10.40	11.70	12.40	21.40	20.90	29.70
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* and ** denotes significant at 5 and 1% probability levels, respectively.

† DTM, Number of days to maturity; PH, Plant height; SL, Spike length; TN, Number of productive tillers; SPS, Number of spikelets per spike; GPS, Grain per spike; GY, Grain yield; TKW, Thousand-kernel weight; SC, Stomatal conductance; CCI, Chlorophyll content index.

‡ SED, Standard error of difference.

§ LSD, Least significant difference.

¶ CV, Coefficient of variation.

Supplemental Table S3. Mean values for agronomic and physiological traits† evaluated among 10 wheat parents and their progenies under terminal drought moisture regime in rainout shelter (RS) and glasshouse (GH) environments.

Genotypes	DTM		PH		SL		TN		SPS		GPS		GY		TKW		SC		CCI	
	RS	GH	RS	GH	RS	GH	RS	GH	RS	GH	RS	GH	RS	GH	RS	GH	RS	GH	RS	GH
Parents																				
LM02	88	98	93	104	9.32	9.80	5	5	17.95	14.62	39.80	31.38	3.06	3.85	24.22	32.67	33.84	63.05	25.64	13.49
LM22	98	98	93	97	9.78	4.01	6	5	21.26	19.24	46.79	42.48	5.35	5.81	22.21	40.82	59.07	75.19	31.49	16.75
LM32	89	98	77	93	8.17	5.56	5	6	18.81	18.82	41.65	41.14	3.95	4.19	25.30	40.24	56.44	88.44	29.08	16.25
LM44	89	98	95	106	11.36	12.25	6	8	22.45	20.08	38.72	43.91	5.36	3.60	30.30	43.96	47.99	48.17	32.46	19.47
LM71	90	98	78	99	6.54	12.66	6	6	13.92	20.89	39.67	44.88	3.62	5.84	27.38	37.91	63.55	79.09	25.24	15.97
LM72	105	102	94	100	11.18	10.98	6	7	23.74	22.10	47.97	47.30	3.53	2.63	26.36	44.39	43.00	45.62	20.25	13.30
LM81	91	102	94	99	11.16	9.15	5	6	21.08	17.88	46.60	40.31	4.09	3.07	26.95	40.09	33.37	38.94	24.01	19.72
LM82	101	101	88	98	8.36	9.93	6	4	17.40	21.31	38.10	46.06	3.88	4.81	21.08	27.84	53.75	62.59	22.93	14.81
LM95	101	98	93	92	12.48	9.00	6	7	21.30	16.18	46.37	38.86	3.59	3.06	27.26	41.26	65.41	43.77	24.28	11.97
LM100	98	102	95	103	9.42	7.14	6	8	17.36	17.59	46.26	40.23	3.48	3.98	23.78	35.12	64.07	65.67	29.76	19.25
Crosses																				
LM02×LM100	92	79	92	103	7.60	7.36	6	5	19.24	19.02	47.22	40.94	3.66	3.64	25.95	32.12	48.29	66.38	28.55	12.92
LM02×LM22	101	79	91	98	10.58	7.77	5	6	18.29	20.60	39.67	43.60	5.04	2.86	28.66	27.70	59.56	47.30	23.09	14.01
LM02×LM32	90	75	94	100	11.98	6.96	6	8	20.84	18.58	45.82	39.57	4.40	4.79	27.90	29.14	63.29	79.41	26.43	14.21
LM02×LM81	87	82	94	71	9.49	5.85	6	8	18.00	15.00	40.89	46.50	3.97	4.90	23.12	46.34	61.06	65.80	33.00	14.46
LM22×LM100	91	82	92	97	6.15	13.26	6	5	16.28	20.81	44.46	45.73	4.25	2.28	21.15	35.02	57.43	49.65	27.94	10.30
LM22×LM81	94	69	88	81	11.40	12.39	5	4	16.92	19.85	39.47	43.05	5.65	4.10	22.42	40.24	64.39	59.27	31.76	11.84
LM32×LM100	89	77	87	96	11.04	11.41	6	6	21.35	20.17	46.79	43.68	3.43	5.10	27.92	30.19	47.17	90.42	29.58	15.45
LM32×LM22	96	78	89	102	7.68	10.08	6	5	17.48	18.80	47.16	42.15	4.18	3.81	23.28	30.61	58.74	28.13	19.25	21.18
LM32×LM81	95	80	89	95	10.84	8.45	6	7	19.21	20.98	44.65	45.46	4.60	2.58	23.30	38.60	52.59	43.13	30.80	13.01
LM44×LM02	92	80	91	99	12.23	13.38	5	5	21.66	20.97	47.01	45.99	5.04	4.38	26.04	33.89	69.21	75.55	23.50	15.58
LM44×LM100	90	80	96	102	12.91	9.45	6	8	20.99	20.73	43.39	44.06	4.36	5.00	26.33	31.17	70.64	69.67	30.26	18.64
LM44×LM22	88	77	91	105	13.57	12.21	5	7	22.99	19.42	39.05	41.64	5.45	5.37	24.78	31.51	47.41	82.22	26.76	14.06
LM44×LM32	101	79	95	99	11.53	7.52	6	8	19.51	22.37	43.03	47.24	3.51	3.92	28.48	34.51	44.11	59.97	33.94	11.01
LM44×LM81	91	78	80	105	7.58	10.24	6	5	22.29	18.99	44.51	40.72	4.69	2.92	21.20	33.21	55.73	34.85	20.99	18.12
LM71×LM02	88	77	84	100	10.77	10.96	7	6	20.50	18.01	44.28	36.63	3.22	4.41	25.12	40.10	74.18	76.81	22.43	18.44
LM71×LM100	89	80	83	96	8.03	11.68	6	5	16.62	22.09	37.29	46.88	4.40	4.23	27.57	45.28	62.97	64.81	25.99	12.74
LM71×LM22	86	76	94	101	8.54	6.23	5	5	18.03	17.19	40.19	39.64	3.08	5.36	26.62	28.07	53.00	63.95	9.61	11.41
LM71×LM32	90	77	96	95	9.82	8.78	6	6	19.85	19.97	45.16	38.00	4.32	5.03	24.36	34.50	73.00	78.19	34.84	14.82
LM71×LM44	90	78	87	101	11.68	8.49	5	6	23.06	20.14	45.12	38.84	4.72	5.44	23.34	38.47	67.15	79.85	25.92	16.64
LM71×LM72	87	76	85	88	14.67	8.30	6	6	17.49	16.45	41.84	36.85	4.12	3.48	28.06	39.24	49.95	64.29	22.65	11.54
LM71×LM81	105	81	94	100	8.27	3.70	6	6	16.90	20.61	37.88	43.98	4.93	4.55	28.16	34.44	44.27	73.17	27.58	15.93
LM71×LM95	89	74	92	97	9.83	13.86	5	5	21.61	16.63	46.75	36.47	3.79	2.67	21.56	39.54	46.57	34.17	20.75	10.96
LM72×LM02	98	84	90	96	8.04	9.26	5	5	20.11	22.38	48.10	47.65	3.87	3.87	21.37	32.87	61.25	60.13	30.81	20.99

LM72×LM100	91	81	90	101	12.07	9.95	5	7	16.42	15.81	37.10	34.67	5.31	4.37	28.52	39.73	65.27	82.36	27.38	10.61
LM72×LM22	89	79	93	102	11.76	11.44	6	5	17.73	19.13	42.09	41.86	3.55	3.03	28.36	41.23	43.73	46.51	29.32	17.04
LM72×LM32	97	80	99	106	10.50	8.40	6	5	19.31	16.53	44.92	35.87	3.79	2.29	24.08	33.32	31.93	46.49	23.11	12.38
LM72×LM44	97	86	80	77	13.84	14.15	6	5	22.06	20.87	47.96	44.84	5.50	3.60	28.16	28.64	61.28	62.21	29.44	12.45
LM72×LM81	87	82	80	86	10.15	9.37	5	6	19.41	18.75	38.86	55.86	4.48	2.77	27.13	43.52	45.15	46.62	24.87	15.67
LM72×LM95	90	80	94	99	8.87	6.31	6	8	20.35	19.42	45.19	45.10	3.61	3.76	15.07	22.37	65.96	70.65	22.18	12.75
LM81×LM100	89	78	81	97	9.56	7.59	7	5	20.60	16.78	48.47	37.07	3.85	3.95	26.80	29.49	62.71	68.97	30.35	15.29
LM82×LM02	89	78	90	101	12.21	8.63	6	5	21.82	20.48	41.81	50.96	4.37	3.79	26.33	29.35	56.46	67.85	30.97	14.06
LM82×LM100	88	78	81	99	6.67	6.85	5	6	15.90	20.33	37.40	44.47	3.58	3.90	22.06	29.50	71.98	35.64	15.42	10.89
LM82×LM22	104	78	97	94	10.35	10.54	6	9	21.91	20.53	48.37	43.97	4.93	4.19	20.21	43.09	48.84	48.76	25.29	14.03
LM82×LM32	85	81	97	94	10.38	9.75	5	7	20.21	22.25	43.25	49.01	3.87	3.89	17.43	31.80	51.98	61.21	19.66	15.79
LM82×LM44	87	82	93	95	8.15	11.44	6	6	17.37	16.25	42.44	38.55	3.89	3.11	27.71	40.05	52.27	39.05	25.88	9.62
LM82×LM71	97	79	95	81	12.95	8.09			21.48	17.72	50.13	38.60	3.20	4.15	24.61	37.86	45.59	60.09	25.53	15.91
LM82×LM72	92	83	92	74	9.76	5.75	5	6	17.58	17.56	41.96	37.92	4.24	4.19	27.75	22.77	68.58	63.49	24.63	15.64
LM82×LM81	95	79	77	104	9.30	4.93	6	7	17.82	20.80	37.79	45.71	4.26	4.00	30.93	34.30	57.64	82.48	21.13	15.64
LM82×LM95	86	76	96	96	8.56	5.39	6	4	25.71	18.75	42.51	40.70	5.45	4.89	28.56	42.96	43.79	79.75	27.42	9.35
LM95×LM02	89	80	89	103	14.51	7.72	5	6	17.97	17.60	40.32	39.01	2.67	5.61	26.82	30.26	47.44	78.29	21.59	14.92
LM95×LM100	83	76	92	99	7.75	9.57	5	6	15.79	19.67	35.58	42.80	5.51	3.78	23.53	36.68	64.67	71.89	29.10	15.79
LM95×LM22	85	77	90	102	11.57	6.41	6	8	19.49	16.93	42.07	39.47	4.16	4.09	26.46	42.14	59.94	60.46	29.39	17.03
LM95×LM32	88	77	93	101	9.91	7.87	6	6	17.90	21.35	44.56	45.51	4.27	3.95	30.27	40.63	58.76	63.21	28.28	13.05
LM95×LM44	92	84	77	96	8.43	12.49	6	5	16.75	22.25	36.10	46.56	4.11	2.59	27.16	32.17	65.40	34.73	25.06	16.00
LM95×LM81	86	75	92	99	9.84	12.71	5	5	17.67	21.46	42.64	45.77	3.82	3.49	29.71	41.04	64.58	68.88	30.17	15.53
Mean	92	82	90	94	10.16	9.15	6	6	19.37	19.26	42.97	42.47	4.20	4.29	25.44	35.71	56.12	61.77	26.14	14.70
P-value	*	**	**	**	**	ns	ns	ns	*	**	ns	*	*	*	ns	**	ns	**	ns	ns
SED ‡	3.70	3.50	7.56	3.93	1.63	2	0.61	1.93	2.74	2.33	4.13	4.41	0.79	0.78	4.15	6.43	1.48	8.47	8.18	4.61
LSD (5%) §	7.43	7.02	15.1 5	7.88	3.28	4.02	1.22	3.82	5.48	4.67	8.88	8.84	1.58	1.56	8.32	12.89	35.04	16.99	16.40	9.24
CV (%) ¶	4.00	4.30	8.40	4.10	16.10	21.90	10.7 0	31.7 0	14.10	12.10	10.30	10.40	18.70	18.20	16.30	18	31.10	13.70	31.30	31.40

* and ** denotes significant at 5 and 1% probability levels, respectively.

† DTM, Number of days to maturity; PH, Plant height; SL, Spike length; TN, Number of productive tillers; SPS, Number of spikelets per spike; GPS, Grain per spike; GY, Grain yield; TKW, Thousand-kernel weight; SC, Stomatal conductance; CCI, Chlorophyll content index.

‡ SED, Standard error of difference.

§, LSD, Least significant difference.

¶ CV, Coefficient of variation.

Table S4. Specific combining ability effects for selected agronomic and physiological traits† among 45 crosses of bread wheat evaluated under irrigated (WW) in rainout shelter (RS) and glasshouse (GH) environments.

Crosses	DTM		PH		SL		TN		SPS	
	RS	GH	RS	GH	RS	GH	RS	GH	RS	GH
LM02×LM100	-0.74	0.08	-5.86	-4.44	-2.10**	-1.72	-0.07	-0.14	-3.00*	-3.02*
LM02×LM22	1.44	3.77*	-1.86	-2.37	3.14**	2.59*	0.31	-0.06	2.18	2.10
LM02×LM32	-0.31	0.65	-6.61	-7.27*	2.48**	0.27	-0.55	0.46	0.73	0.16
LM02×LM81	-0.06	-0.98	2.50	3.06	-1.19	0.34	0.51	0.01	0.73	-0.24
LM100×LM44	-0.37	-1.42	1.70	1.08	0.06	0.45	0.49	-0.20	0.71	0.53
LM22×LM100	-2.74*	-3.79*	0.52	0.42	-4.97**	-3.39**	0.13	0.69	-3.84**	-0.91
LM22×LM81	1.69	-0.17	2.35	2.56	3.14**	3.05**	-0.50	-0.45	0.40	-1.88
LM32×LM100	1.88	2.33	0.55	0.14	1.15	0.32	-0.13	-0.01	3.26**	2.30
LM32×LM22	-0.81	-0.48	6.71	6.82*	-1.70*	-1.92	-0.18	-0.30	-1.17	0.96
LM32×LM81	-3.62**	-7.48**	-5.46	-5.58	3.40**	0.67	-0.41	-0.59	1.95	1.05
LM44×LM02	4.13**	3.40	3.15	2.83	1.67*	1.72	0.52	0.81	1.15	0.60
LM44×LM100	1.88	3.27	-18.70**	-18.51**	-3.03**	-4.37**	0.52	0.71	-1.35	-3.59**
LM44×LM22	-2.93*	-2.17	4.81	3.98	-1.23	-1.14	-0.89*	-0.25	-1.86	-2.07
LM44×LM32	-1.31	-1.54	0.49	0.43	4.18**	3.73**	0.21	-0.02	1.65	1.36
LM44×LM81	-0.37	0.58	-0.76	-0.31	1.04	0.91	0.46	0.54	0.69	0.99
LM71×LM02	2.82*	4.58*	10.16**	9.48**	-2.65**	-1.16	-0.49	-0.85	-0.82	2.90*
LM71×LM100	0.13	-0.73	12.17**	12.11**	-1.27	1.36	0.16	-0.20	1.58	1.78
LM71×LM22	1.32	0.58	-3.46	-1.85	0.53	0.21	0.22	-0.27	-0.76	-0.71
LM71×LM32	2.07	1.46	1.15	-0.58	-3.97**	-0.85	-0.49	0.40	-0.75	1.61
LM71×LM44	-1.74	-1.48	4.65	2.29	1.40	0.77	-0.44	-0.48	0.51	-0.76
LM71×LM72	1.38	2.65	-2.09	-0.68	-2.79**	-3.51**	0.12	0.80	-1.64	-1.13
LM71×LM81	0.32	0.27	8.15*	7.22*	2.40**	1.45	0.32	-0.28	-0.25	-0.40
LM71×LM95	-1.49	-0.23	1.94	0.43	-3.12**	-1.70	-0.29	-0.85	-1.90	-2.13
LM72×LM02	0.32	0.46	-3.04	1.12	-0.98	0.37	0.66	1.33*	0.66	0.36
LM72×LM100	-1.18	-3.67	4.47	2.85	-0.16	-1.10	0.12	-0.07	-1.22	-1.52
LM72×LM22	0.01	-0.10	-11.50**	-3.63	-4.88**	-3.63**	0.55	0.87	-1.83	0.61
LM72×LM32	-0.87	0.02	0.08	-1.60	-0.69	0.47	-0.13	-0.30	0.82	0.13
LM72×LM44	-1.93	-1.35	10.98**	9.76**	-2.52**	-0.53	-0.28	-1.03	-2.53*	-1.68

LM72×LM81	-0.74	-1.35	2.98	0.63	0.82	0.77	-0.19	0.12	1.31	0.98
LM72×LM95	-0.43	1.83	0.00	-1.73	2.75**	1.81	-0.27	-0.57	2.33	1.43
LM81×LM100	-0.74	-1.73	1.75	0.26	2.51**	2.81**	-0.25	0.14	-0.39	0.36
LM82×LM02	2.38	1.90	-1.30	0.09	1.62*	1.33	-0.02	-0.48	-1.22	-1.51
LM82×LM100	-0.68	3.52	3.46	3.50	-0.53	-0.79	-0.40	0.39	2.26	2.91*
LM82×LM22	-2.49	-0.98	-0.90	2.31	2.55**	2.01	0.27	-0.21	0.27	0.35
LM82×LM32	-1.18	-2.79	7.58	7.01*	2.20**	0.61	-0.25	-0.88	1.67	1.63
LM82×LM71	4.07**	5.46**	0.58	-0.16	2.17**	1.82	-0.41	-0.55	2.81*	1.95
LM82×LM72	3.01*	2.08	-4.53	-5.67	-1.17	-1.34	0.28	-0.48	1.99	1.38
LM82×LM81	-1.81	-1.42	3.63	4.67	-2.55**	-2.66*	0.31	0.74	1.47	0.63
LM82×LM95	0.51	0.77	-0.99	-2.83	3.70**	2.91**	0.37	0.21	-3.41**	-2.62*
LM95×LM02	-0.87	-1.29	3.23	2.72	-1.92**	-1.63	0.56	0.53	0.83	1.84
LM95×LM100	-0.18	-2.29	-2.16	-3.65	4.57**	3.47**	0.02	0.04	-0.19	-1.57
LM95×LM22	-1.87	-1.10	0.64	2.42	-2.17**	-2.29*	-0.47	-0.72	0.77	-0.17
LM95×LM32	-1.24	-3.17	-8.00*	-4.44	0.66	0.34	0.04	0.34	-2.19	-1.62
LM95×LM44	0.07	-0.48	-14.88**	-15.34**	-1.10	-1.46	-0.48	0.44	-1.20	-1.54
LM95×LM81	3.26**	2.52	-8.19*	-9.58**	-1.43*	-1.39	0.47	0.69	-1.21	-1.84
LM02×LM100	-5.70	-3.02*	0.08	0.18	2.88	6.35	-9.22	-9.08	-1.01	-2.35
LM02×LM22	-0.06	2.10	0.69	1.07	4.12	1.57	-9.63	10.90	-11.06*	-8.40
LM02×LM32	0.03	0.16	0.14	-0.43	2.41	5.62	-0.31	16.51	-2.62	1.65
LM02×LM81	1.71	-0.24	-1.30**	-1.20	-7.80	-6.84	28.97*	78.72*	-2.76	-4.01
LM100×LM44	3.50	0.53	0.74	1.13	4.53	4.43	-8.61	-23.69	4.98	12.14
LM22×LM100	0.01	-0.91	-0.76	-1.40	-12.56**	-13.37*	-1.42	-43.15	2.76	6.12
LM22×LM81	-4.26	-1.88	0.28	0.08	10.60**	8.50	-2.41	-24.58	9.34	-4.27
LM32×LM100	5.77	2.30	0.29	0.47	-5.02	-3.83	11.21	30.46	3.15	2.56
LM32×LM22	-1.00	0.96	-0.16	0.10	0.84	-2.42	-8.58	-36.10	-2.77	-3.46
LM32×LM81	4.20	1.05	0.02	0.43	-2.89	-4.24	-0.73	-11.42	-5.52	-7.17
LM44×LM02	2.74	0.60	-1.52**	-1.95*	-3.87	-4.46	11.03	2.72	-0.63	-5.71
LM44×LM100	-1.22	-3.59	1.32**	0.72	6.93	7.57	-18.30	-12.89	-0.25	-10.23
LM44×LM22	-2.66	-2.07	-0.72	-0.92	-4.67	-7.17	-4.08	9.61	-2.01	9.14
LM44×LM32	-4.02	1.36	1.00*	1.26	4.89	5.33	-3.79	-2.45	4.72	1.87
LM44×LM81	2.32	0.99	-0.61	-0.42	-2.20	-1.37	1.69	-0.86	-7.52	-4.41
LM71×LM02	4.88	2.90	1.45**	1.31	1.85	0.50	7.62	21.66	6.45	13.28*

LM71×LM100	-0.53	1.78	-1.02*	-0.60	-2.93	-2.52	15.77	2.70	5.78	5.55
LM71×LM22	0.70	-0.71	0.32	0.62	0.99	0.15	0.82	15.40	7.05	11.09
LM71×LM32	-2.34	1.61	-1.13*	-1.41	-2.21	0.57	-6.48	-41.31	4.76	4.23
LM71×LM44	-4.75	-0.76	0.46	0.57	0.31	2.93	4.11	10.40	6.80	1.18
LM71×LM72	-0.32	-1.13	-0.15	0.31	1.72	1.38	-3.81	7.45	3.82	4.20
LM71×LM81	1.61	-0.40	1.26**	1.22	6.44	5.40	13.76	-39.13	0.78	4.56
LM71×LM95	-3.84	-2.13	-2.04**	-2.09**	-9.32*	-10.93*	-7.15	4.52	-5.86	-7.53
LM72×LM02	4.81	0.36	0.58	-0.71	0.85	3.16	9.11	43.19	-0.76	-2.16
LM72×LM100	-2.81	-1.52	0.46	-0.25	-1.71	-3.36	-16.43	-65.54*	1.62	5.09
LM72×LM22	2.05	0.61	-1.03*	-0.99	-8.36*	-10.97*	2.09	4.22	-9.20	-11.70
LM72×LM32	-0.42	0.13	0.60	1.42	6.59	7.06	10.64	3.17	0.78	-2.74
LM72×LM44	-2.48	-1.68	0.77	1.11	3.36	4.01	-37.73**	-33.58	0.58	-3.25
LM72×LM81	0.06	0.98	0.74	1.11	3.91	5.25	1.73	6.51	0.38	-4.48
LM72×LM95	0.13	1.43	-0.47	-0.64	-3.32	-3.32	28.14*	50.58	2.05	10.03
LM81×LM100	-1.36	0.36	-0.27	0.28	0.48	2.54	32.33**	64.58*	-3.47	-4.54
LM82×LM02	-2.83	-1.51	1.38**	1.77*	10.67**	9.46*	9.24	-29.47	0.20	-0.98
LM82×LM100	5.44	2.91*	-0.12	-0.86	-5.17	-7.78	-18.95	31.68	-0.49	4.13
LM82×LM22	-0.07	0.35	-0.59	-0.05	0.91	2.24	5.16	-44.04	2.06	9.09
LM82×LM32	3.50	1.63	0.26	1.00	-2.09	-4.40	-15.55	18.26	-1.66	-2.79
LM82×LM71	6.07	1.95	-0.67	-1.36	-1.58	-0.07	-22.80	1.23	1.09	10.41
LM82×LM72	0.09	1.38	-0.29	-0.40	3.15	5.39	13.40	-31.59	-0.99	-5.91
LM82×LM81	1.90	0.63	1.11*	0.76	2.68	0.26	-13.10	13.10	0.43	3.10
LM82×LM95	-4.83	-2.62**	0.67	0.94	3.46	2.66	-3.34	-47.86	2.37	-13.81*
LM95×LM02	1.99	1.84	-0.26	0.29	-13.98**	-14.96**	13.20	39.47	-6.25	0.77
LM95×LM100	-1.72	-1.57	-1.12*	-1.75*	-0.59	-0.66	15.64	22.21	0.29	-8.86
LM95×LM22	1.25	-0.17	-0.01	-0.55	4.84	5.81	-16.90	1.53	-7.41	-10.80
LM95×LM32	-4.16	-1.62	-0.51	-0.62	2.52	3.47	2.29	18.25	-2.38	-8.11
LM95×LM44	-0.53	-1.54	-0.52	-0.40	-4.70	-2.66	14.75	40.34	6.92	16.49**
LM95×LM81	-2.81	-1.84	0.67	0.86	3.06	3.70	-23.40	-72.66*	-4.51	0.95

* and ** denote significantly different from zero at 5 and 1% probability level of a t-test statistic, respectively..

† DTM, Number of days to maturity; PH, Plant height; SL, Spike length; TN, Number of productive tillers; SPS, Number of spikelets per spike; GPS, Grain per spike; GY, Grain yield; TKW, Thousand-kernel weight; SC, Stomatal conductance; CCI, Chlorophyll content index.

Table S5. Specific combining ability effects for studied agronomic and physiological traits† among 45 crosses of bread wheat evaluated under terminal drought (TD) in rainout shelter (RS) and glasshouse (GH) environments.

Crosses	DTM		PH		SL		TN		SPS	
	RS	GH	RS	GH	RS	GH	RS	GH	RS	GH
LM02×LM100	-0.69	0.03	-2.84	1.54	1.35	-1.23	0.75*	-1.03	3.28*	-2.60
LM02×LM22	0.43	4.47*	1.62	-3.78	-2.71**	2.55*	0.57	-0.70	-1.08	1.42
LM02×LM32	-0.94	-1.47	-4.46	-5.82*	1.93	2.09	-0.07	0.14	3.17*	-0.19
LM02×LM81	2.74	-0.85	3.32	3.68	-1.99	-1.79	0.43	-0.62	0.72	-0.29
LM100×LM44	-0.01	-0.66	10.21**	1.30	3.01**	-2.39	-0.18	1.69	1.43	0.25
LM22×LM100	-2.01	-1.85	3.10	-3.29	-0.82	-0.14	-0.13	-0.09	-2.09	0.18
LM22×LM81	1.56	-0.47	2.45	5.72*	2.20*	0.16	-0.40	1.34	-1.10	-2.79
LM32×LM100	-0.19	2.47	-5.50	-2.86	-1.20	2.25	-0.33	-0.29	-1.54	3.25*
LM32×LM22	-0.88	-1.66	-7.90	3.52	-1.78	-1.49	-0.63	-0.45	-2.80	0.77
LM32×LM81	0.06	-7.53*	0.45	-13.73**	1.96	3.17**	-0.21	-1.53	-1.14	0.73
LM44×LM02	1.68	2.53	-0.54	-0.01	1.14	0.61	-0.14	0.21	0.33	0.89
LM44×LM100	-5.63**	3.15	7.76	-21.95**	-0.68	-1.82	-0.03	2.38*	-1.23	-4.04**
LM44×LM22	-2.38	-1.66	-3.63	10.13**	-2.90**	-0.11	0.30	-1.09	2.03	-1.22
LM44×LM32	-1.88	-1.85	5.83	3.04	0.69	4.49**	-0.79*	-1.01	-0.90	2.24
LM44×LM81	-6.32**	1.03	-4.74	-2.15	-0.30	1.07	-0.53	0.16	1.18	0.43
LM71×LM02	12.93**	3.97	8.03	8.61**	-1.54	-4.25**	0.27	0.65	-1.97	2.05

LM71×LM100	2.24	0.34	-10.31*	14.53**	0.27	-1.92	0.37	1.25	-1.58	1.51
LM71×LM22	1.81	1.47	-6.72	0.86	-2.67**	0.36	-0.13	-1.71	-1.44	-1.29
LM71×LM32	7.49**	1.59	-1.90	-0.10	-0.23	-1.79	-0.64	-0.18	-0.97	1.55
LM71×LM44	-5.76**	-1.72	1.87	4.97*	2.44*	-0.03	-0.18	0.47	2.70	-0.79
LM71×LM72	-3.76	1.59	-2.72	0.68	1.78	-3.70**	0.29	2.27	0.87	-2.29
LM71×LM81	-4.69*	-0.53	1.79	8.19**	0.67	1.25	0.58	-0.58	-0.54	0.80
LM71×LM95	-6.44**	0.40	1.69	3.95	-1.92	-3.60**	-0.41	-0.95	-0.87	-1.37
LM72×LM02	10.87**	0.28	3.92	-1.03	0.67	1.79	0.13	2.91**	2.47	1.23
LM72×LM100	-2.88	-3.35	-0.23	0.28	0.91	-1.20	0.35	1.02	0.76	-1.43
LM72×LM22	7.87**	-0.66	3.57	-1.75	0.14	-3.33**	0.38	1.62	-1.60	1.19
LM72×LM32	-0.63	0.15	-1.83	-1.08	-0.15	-0.86	0.15	0.06	-1.54	1.16
LM72×LM44	3.43	-0.97	5.90	11.24**	-0.86	-0.40	-0.21	-1.48	0.23	-2.76
LM72×LM81	-2.82	-0.03	2.20	-2.82	-0.89	0.33	0.12	-0.22	0.13	0.44
LM72×LM95	-7.51**	2.34	2.11	-0.92	0.44	2.40	-0.45	0.36	-0.04	1.99
LM81×LM100	-0.94	-1.53	2.51	0.15	0.38	2.69*	-0.29	-0.87	0.20	0.83
LM82×LM02	1.56	1.78	-2.36	2.54	3.99**	-0.84	-0.34	0.35	-1.81	-1.54
LM82×LM100	5.12*	2.15	-0.51	4.01	-3.78**	0.63	-0.44	-0.51	0.68	4.13**
LM82×LM22	-4.13	-0.91	-6.64	3.62	-0.41	2.68*	0.77**	0.02	0.44	-0.48
LM82×LM32	-3.32	-2.03	-1.93	7.78**	1.81	1.44	0.19	-1.60	1.22	1.26
LM82×LM71	4.31	4.47*	-11.61**	-5.10*	-2.40*	1.25	0.01	-1.10	-4.06**	1.94
LM82×LM72	3.87	2.34	-6.24	-14.07**	1.70	2.83*	0.13	-0.90	1.59	1.45
LM82×LM81	-1.88	-1.22	-0.66	3.97	0.19	-2.47*	-0.52	0.57	1.96	0.49
LM82×LM95	-5.07*	0.65	3.98	0.39	-2.57**	1.57	0.36	-0.40	-4.26**	-4.14**
LM95×LM02	1.87	-0.35	3.93	4.04	-1.93	-2.88*	0.76*	1.87	1.57	1.00
LM95×LM100	2.12	-1.91	1.37	-1.14	-0.34	5.03**	-0.19	-0.19	2.19	-2.04
LM95×LM22	-1.57	-2.03	4.29	0.32	-0.83	-2.35	0.24	-2.17	5.76**	-0.65
LM95×LM32	-4.82*	-4.03	-4.46	-2.87	3.21**	-0.60	0.30	0.21	-1.58	-1.32
LM95×LM44	-0.01	0.84	1.88	-14.12**	-0.92	-2.07	-0.19	-0.10	-2.02	-0.94
LM95×LM81	5.24 *	1.28	3.97	-10.46**	2.90**	0.63	-0.02	0.19	1.24	-1.02
LM02×LM100	8.01*	-7.66**	-0.67	-0.20	0.76	-7.92*	1.58	3.51	1.02	1.02
LM02×LM22	3.08	3.88	-0.27	0.08	-3.53	0.30	-1.82	-8.70	2.14	-3.40
LM02×LM32	2.56	1.16	-0.60	0.88	2.60	-2.49	-10.64	24.08**	0.85	1.75
LM02×LM81	4.26	-2.13	-0.36	-0.70	0.09	-0.37	-16.92	-8.37	0.51	-1.86

LM100×LM44	1.25	1.29	-0.28	0.78	0.24	-1.55	6.37	4.84	2.04	4.79
LM22×LM100	-4.95	0.91	1.35**	-0.44	-2.05	0.94	2.42	4.07	1.86	2.78
LM22×LM81	-4.97	-7.13**	1.02*	0.33	3.01	7.00	6.02	16.95**	0.08	-2.86
LM32×LM100	-4.86	8.18**	0.44	-0.62	1.95	8.32*	0.77	-7.17	1.08	-0.65
LM32×LM22	-4.37	1.52	-0.63	-0.11	-3.08	-4.23	12.22	-29.22**	-9.57*	-1.57
LM32×LM81	-1.60	-1.78	0.89	-0.02	-2.63	1.52	10.52	8.00	5.20	-3.47
LM44×LM02	0.73	-0.05	0.33	-0.22	-2.39	1.92	0.15	-16.13**	1.31	-2.30
LM44×LM100	-1.75	0.45	-0.28	0.64	-3.10	9.85**	1.23	-1.87	4.20	-1.93
LM44×LM22	2.68	-5.03	-0.19	-0.22	-5.26*	-3.51	-3.16	-22.90**	-7.99	2.66
LM44×LM32	2.43	0.90	-0.58	-0.65	3.75	1.30	7.70	8.14	2.17	0.91
LM44×LM81	-2.89	11.09**	-0.05	0.81	1.26	6.79	-8.73	-11.71**	-3.19	0.59
LM71×LM02	-3.95	2.30	0.74	-0.22	2.18	-6.51	-12.55	8.26	1.91	0.94
LM71×LM100	-3.67	-0.22	-0.19	0.07	5.42*	-3.43	3.26	24.70**	-4.62	1.58
LM71×LM22	2.32	-0.48	-0.09	-0.52	-1.06	-3.38	8.19	-24.01**	-6.71	6.45*
LM71×LM32	-3.89	0.42	0.78	-1.44**	3.79	-6.09	1.61	-13.26**	-2.19	-1.81
LM71×LM44	-3.70	-1.24	0.56	1.18**	-0.33	-2.52	-9.59	31.59**	1.31	-0.83
LM71×LM72	0.93	-2.52	-0.24	-0.09	1.86	5.10	4.94	6.83	4.92	2.98
LM71×LM81	-0.58	-0.04	-0.99*	0.03	3.84	7.20	-8.26	-4.71	4.79	2.54
LM71×LM95	-2.56	0.84	-1.12*	0.56	1.99	-10.19**	-1.94	6.16	-12.53**	-3.01
LM72×LM02	5.99*	0.91	0.48	0.22	-3.94	8.06*	-3.65	-1.90	3.07	0.54
LM72×LM100	-0.59	-4.27	0.63	0.31	2.40	-2.61	6.78	10.86*	-1.78	-1.61
LM72×LM22	-2.57	3.70	-0.89	-0.44	2.74	2.53	-11.46	1.35	5.55	-3.88
LM72×LM32	0.57	2.84	0.36	-0.41	5.04	5.62	5.20	1.60	0.87	-0.99
LM72×LM44	-0.60	-6.70**	-0.26	0.11	-1.07	1.33	-18.63	-12.71**	-4.35	-2.12
LM72×LM81	-0.44	-1.48	0.61	0.05	-0.90	-1.72	19.49	12.42**	9.76*	0.40
LM72×LM95	-1.98	5.28*	-0.09	0.25	-7.36**	-1.19	0.92	2.56	-5.50	2.31
LM81×LM100	2.69	1.90	0.66	0.05	-0.23	2.09	6.24	8.51	-4.19	-0.39
LM82×LM02	-2.39	-4.20	-1.22*	1.28**	1.05	-4.56	-13.52	8.26	-5.13	-0.21
LM82×LM100	3.85	4.54	-0.16	-0.28	-4.32	1.07	3.29	-7.50	4.03	5.40*
LM82×LM22	-0.04	-3.39	-0.47	0.46	-0.68	4.07	13.28	2.61	-1.96	2.93
LM82×LM32	-2.14	6.69**	0.43	-0.32	1.01	-3.45	-2.00	0.78	6.51	-0.51
LM82×LM71	-5.80*	3.65	-0.41	-0.63	1.16	-2.88	5.39	-25.38**	-1.83	1.80

LM82×LM72	4.53	2.03	0.84	-0.43	2.24	-3.39	4.27	4.51	2.50	-2.21
LM82×LM81	1.61	-0.88	0.39	0.60	-2.69	2.21	7.19	15.58**	1.36	2.07
LM82×LM95	-0.70	-5.42*	-0.68	-0.89	2.15	7.02	-5.24	-18.09**	1.24	-4.02
LM95×LM02	3.37	3.17	-0.56	-0.27	-10.35**	-12.69**	10.96	9.96*	-3.79	-1.06
LM95×LM100	4.85	-2.37	-0.05	0.33	-3.97	0.26	-11.38	-33.09**	-2.83	-2.77
LM95×LM22	0.98	-2.38	1.36**	0.89	3.50	6.91	-11.71	19.61**	3.76	-3.45
LM95×LM32	-1.60	-1.89	0.15	-0.67	2.61	2.97	-5.00	-0.56	-0.99	-2.65
LM95×LM44	-1.10	-5.07	0.01	0.37	2.77	-10.28**	16.08	5.77	0.91	2.38
LM95×LM81	6.99**	-1.30	-0.69	-0.48	-0.48	0.59	-9.86	-4.20	4.20	2.74

* and ** denote significant at 5 and 1% probability level of a t-test statistic, respectively.

† DTM, Number of days to maturity; PH, Plant height; SL, Spike length; TN, Number of productive tillers; SPS, Number of spikelets per spike; GPS, Grain per spike; GY, Grain yield; TKW, Thousand-kernel weight; SC, Stomatal conductance; CCI, Chlorophyll content index.