

**Supplementary Material**

**Augmenting the basis of lodging tolerance in wheat (*Triticum aestivum*) under natural and simulated conditions**

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**Supplementary Figure S1:** Wheat genotypes a) grown under controlled temperature growth chamber; b) induction of lodging under controlled condition; c) crop grown under field condition; d) naturally lodged crop under field condition

Control	PHT (cm)	EL (cm)	INTI (cm)	InWdt (mm)	SHTW (g)	INTWt (g)	SPKWt (g)	DH	DA	DM	GFD	BM (kg)	GY (g)	TGW (g)	INTRato	Lodge	LodgeD	Lodging score	PedL (cm)	PedWdt (mm)
C306	109.3	8.9	8.7	4.12	2.62	0.35	1.25	80.25	88.5	135	46.75	1.023	149.19	38.1	2.21	0	0	0	37	2.18
DBW14	75.7	7.7	7.9	3.62	2.14	0.38	1.3	72.75	79.25	126	46.5	0.914	156.55	39.4	2.17	0	0	0	28	2.54
DBW88	88.4	9	8	4.3	4.19	0.42	2.69	83.75	89	131	42.25	0.975	196.68	43.1	1.88	0	0	0	30	3.02
DM6	54.4	8.9	7.3	4.08	2.77	0.28	1.67	78	85.5	132	46.5	0.581	165.1	28.1	1.83	0	0	0	24	2.72
DM7	53.1	8.6	6.5	4.27	2.48	0.33	1.61	77.5	85	130	45	0.64	181.8	29.3	1.57	0	0	0	23	2.75
DBW621-50	89.7	9.6	7.7	3.71	4.51	0.55	2.16	84	90.5	131	40.5	0.836	201.28	39.4	2.1	0	0	0	29	2.97
HD3118	94	9.8	8.2	4.28	2.87	0.43	2.31	82.25	88.75	130	41	0.95	188.84	37.6	2	0	0	0	37	2.84
HD2967	82	10	7.4	3.72	4.3	0.43	2.32	87	94.5	133	38	0.819	245.18	36	1.96	0	0	0	29	2.86
UP262	102.4	8.9	8.2	4.02	2.76	0.4	1.6	76.75	83.75	133	48.75	0.737	179.55	49.5	2.04	0	0	0	30	2.34
WH1105	83.4	8.4	7.4	3.83	3.5	0.45	1.83	82.25	90.25	128	37.25	0.654	174.72	34.4	1.88	0	0	0	32	2.8

Open Field	PHT	EL	INTI	InWdt	SHTW	INTWt	SPKWt	DH	DA	DM	GFD	BM	GY	TGW	INTRatio	Lodge	LodgeD	Lodging Score	PedL	PedWdt
C306	106.9	9	11.1	3.93	3.68	0.64	2.82	82.25	87.5	126	38.75	1.2280	238.50	40.3	2.82	88	72.5	70.69	40	2.67
DBW14	76.1	10	7.8	4	3.09	0.33	1.9	78	87.25	125	38	0.9260	189.92	36	1.96	83	70	65.28	30	2.72
DBW88	89.4	10.3	9.6	4.23	3.62	0.51	3.09	89.5	95.25	130	34.5	1.3130	306.43	38.9	2.28	65	52.5	38.89	33	2.94
DM6	53.6	9.9	4.7	4.6	3.47	0.21	2.58	80.25	88	126	37.5	0.8350	173.06	31.8	1.02	4	16.25	1.39	23	2.69
DM7	53.7	10.1	5.4	4.67	3.36	0.28	2.58	80.5	87.5	127	39.25	0.8690	207.96	31.6	1.15	13	33.75	4.03	26	2.86
DBW621-50	91	10.5	8.3	4.24	3.95	0.37	2.8	87.75	93.25	128	34.5	1.2310	277.74	40.7	1.95	55	57.5	36.93	31	2.96
HD3118	90.9	9.9	9.2	4.24	3.76	0.41	3.03	82.75	86.75	127	40	1.2300	263.97	37.8	2.21	79	67.5	59.31	37	2.85
HD2967	87	10	7.8	4.55	4.21	0.41	3.1	87.25	94	127	33	1.1460	228.23	40.7	1.73	43	42.5	23.89	34	3.13
UP262	92	10.2	9.5	3.96	3.36	0.41	2.52	79.25	85.75	125	39.25	1.0780	209.75	42.2	2.41	78	65	57.22	30	2.81
WH1105	83.1	10.1	8.3	4.46	3.31	0.31	2.28	86.25	92	126	34.25	1.0680	252.55	37.1	1.87	61	37.5	28.19	34	2.51

Induced	PHT	EL	INTI	InWdt	SHTW	INTWt	SPKWt	DH	DA	DM	GFD	BM	GY	TGW	INTRatio	Lodge	LodgeD	Lodging Score	PedL	PedWdt
<b>C306</b>	82.5	7.3	8.4	3.18	2.13	0.39	1.38	77.5	87.5	138	50.25	0.65	146.05	33.1	2.82	84	68.75	62.88	32	2.16
<b>DBW14</b>	71.7	8.5	7	3.14	2.49	0.29	1.27	68.75	77.75	133	55	0.586	137.54	39.2	2.23	65	51.25	38.8194	26	2.49
<b>DBW88</b>	67.9	8.7	7.7	3.38	3.66	0.37	1.9	80.25	87.5	135	47.75	0.559	142.4	39.2	2.43	53	55	31.5277	30	2.56
<b>DM6</b>	48.9	9.4	6.6	3.93	2.71	0.28	2.12	70.5	80.5	136	55.25	0.474	137.19	30.3	1.72	18	17.5	7.5	26	2.56
<b>DM7</b>	47	7.8	7	3.93	2.29	0.23	2.11	75.25	82.5	134	51.5	0.555	158.77	28.3	1.79	19	15	7.22	25	2.76
<b>DBW621-50</b>	73.8	9.6	7.3	3.82	3.72	0.4	1.98	80.5	85.75	136	50	0.664	170.82	39.2	2.04	67	47.5	34.916	29	2.6
<b>HD3118</b>	72.5	9.3	7.7	3.65	3.54	0.33	1.8	83.75	90.75	138	47.25	0.625	161.47	34.6	2.16	77	63.75	54.083	32	2.78
<b>HD2967</b>	74.3	9	7.3	3.46	3.53	0.4	2.6	83.25	90.75	137	46	0.755	191.58	34.6	2.12	64	46.25	34.444	26	2.97
<b>UP262</b>	92.4	9.3	7.9	3.43	2.74	0.43	1.68	72.75	79.25	135	56	0.699	159.42	42.7	2.37	79	71.25	61.875	25	2.42
<b>WH1105</b>	75.1	9.5	7.7	3.32	3.63	0.38	2.13	82.75	87.5	138	50	0.531	128.08	33.7	2.3	75	57.5	48.3333	28	2.65

**Supplementary Table S1.** Mean values of the pooled data over the years (2015-16, 2016-17)