

**Supplementary Table 1:** Mean MDS and IT of 48 wheat genotypes and 39 wheat lines with known *Lr* genes in the 2014-15 and 2015-16 growing seasons

Lines	<i>Lr</i> genes	2015BD	2016BD	Mean MDS	IT
RL6003	<i>Lr1</i>	90	80	85	S
RL6016	<i>Lr2a</i>	30	50	40	S
RL6047	<i>Lr2c</i>	80	80	80	S
RL6002	<i>Lr3</i>	50	30	40	S
RL6010	<i>Lr9</i>	0	0	0	R
RL6005	<i>Lr16</i>	60	70	65	MS
RL6064	<i>Lr24</i>	0	0	0	R
RL6078	<i>Lr26</i>	70	80	75	S
RL6007	<i>Lr3ka</i>	40	50	45	S
RL6053	<i>Lr11</i>	80	80	80	S
RL6008	<i>Lr17</i>	15	15	15	M
RL6049	<i>Lr30</i>	30	40	35	S
RL6051	<i>LrB</i>	60	90	75	S
RL6004	<i>Lr10</i>	40	40	40	S
RL6013	<i>Lr14a</i>	40	50	45	S
RL6009	<i>Lr18</i>	1	5	3	R
RL6019	<i>Lr2b</i>	70	70	70	S
RL6042	<i>Lr3bg</i>	50	60	55	S
RL6011	<i>Lr12</i>	5	5	5	MR
MANITOU	<i>Lr13</i>	5	5	5	M
RL6006	<i>Lr14b</i>	5	5	5	S
RL6052	<i>Lr15</i>	50	80	65	S
RL6040	<i>Lr19</i>	0	0	0	R
RL6092	<i>Lr20</i>	40	50	45	S
RL6043	<i>Lr21</i>	10	20	15	M
Thatcher	<i>Lr22b</i>	80	80	80	S
RL6012	<i>Lr23</i>	15	30	22.5	M
RL6079	<i>Lr28</i>	0	0	0	R
RL6080	<i>Lr29</i>	0	0	0	R
RL6057	<i>Lr33</i>	50	80	65	S
RL6058	<i>Lr34</i>	5	5	5	S
RL5711	<i>Lr35</i>	1	1	1	R
E84018	<i>Lr36</i>	0	0	0	R
RL6081	<i>Lr37</i>	12.5	7.5	10	M
RL6147	<i>Lr44</i>	10	5	7.5	M
RL6144	<i>Lr45</i>	1	1	1	R
PAVON + <i>Lr47</i>	<i>Lr47</i>	1	1	1	R
C78.5	<i>Lr51</i>	0	0	0	R
98M71	<i>Lr53</i>	0	0	0	R
Baiheshang		7.5	1	4.25	S
SAAR		5	5	5	MS

Hongsuimai		5	5	5	S
Tutouhong		5	5	5	S
Shimai		2.5	7.5	5	S
Qitouzi		5	5	5	S
Laiyanghuangmai		5	5	5	S
Cuodaosiguatou		2.5	7.5	5	S
Xueliqing	<i>Lr34</i>	10	1	5.5	S
Daqingmang		10	2.5	6.25	S
Zijiezi		5	10	7.5	S
Caizihuang		5	10	7.5	S
Xinlijun		10	5	7.5	S
Xiaoyangmai		10	5	7.5	S
Xiaohongmang		10	5	7.5	S
Hongliaomai		10	5	7.5	S
Zijielumai	<i>Lr34</i>	10	7.5	8.75	S
Laiyangbang		10	7.5	8.75	S
Dabaimang		15	2.5	8.75	S
Hongtutou	<i>Lr34</i>	10	10	10	S
Hongmangmai		10	10	10	S
Hongkulongding		10	10	10	S
Honghuomai		10	5	10	S
Baishamai		15	5	10	S
Xiaobaisui		15	7.5	11.25	S
Banmangmai		15	7.5	11.25	S
Huangxiandalibai		12.5	15	12.5	S
Zaoyuansi		15	10	12.5	S
Xiaobaimang		15	10	12.5	S
Hongmangbaimai		15	10	12.5	S
Baimai		15	10	12.5	S
Baimazhatou	<i>Lr34</i>	15	10	12.5	S
Baiguozitou	<i>Lr34</i>	15	10	12.5	S
Hongguangtou	<i>Lr34</i>	20	7.5	13.75	S
Biansuimaomai		20	7.5	13.75	S
Xiaomai		15	15	15	S
Huomai		20	10	15	S
Hongtangliangmai		20	10	15	S
Bodongqing		20	10	15	S
Baitutou	<i>Lr34</i>	25	7.5	16.25	S
Hongpimai		20	15	17.5	S
Daqingsui		20	15	17.5	S
Wutongmangmai		20	17.5	18.75	S
Hongbanmang		25	15	20	S
Dalatou		30	15	22.5	S
Kulouding		25	22.5	23.75	S

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Baimangbiansui	80	90	85	S
Zhengzhou 5389	100	100	100	S

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