10.1071/CP18014_AC

Supplementary Material: ***Crop & Pasture Science*****, 2018, 69, 547–560.**

Genotype × management strategies to stabilise the flowering time of wheat in the wheatbelt of south-eastern Australia

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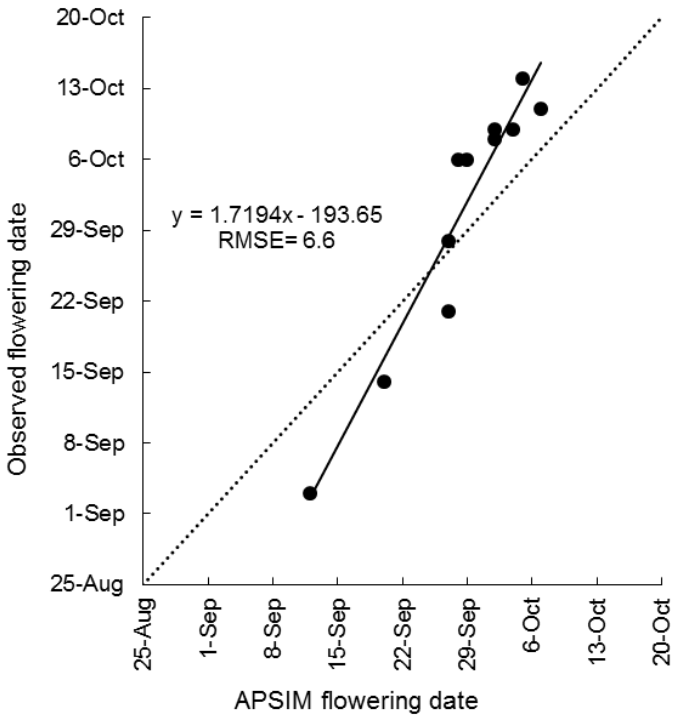

Figure S1. Validation of flowering time for APSIM cultivar V4-P1 used in simulations at locations Saddleworth, Lameroo, Waikerie, Walpeup and Condobolin. Observed flowering dates were recorded in Temora, New South Wales in 2015 and 2016 and Minnipa, South Australia in 2015. Flowering dates were simulated using the same sowing dates and under the same seasonal conditions as field experiments from Flohr *et al.* (2017b).

Table S1. P-values of two-tailed t-test between yield of the baseline strategy vs. yield of strategies 1 to 11, and slope of the linear function for deviation of yield from the environmental mean and the environmental mean (mean of all strategies at a particular location).

Bold text highlights significant differences, a slope closer to zero suggest the strategy is equally stable as the environmental mean, a positive slope indicates that the strategy is more stable than the environmental mean, and a negative slope indicates the strategy is less stable as per Eberhart and Russell (1966).

Strategy	CW-FS-LC 1		FL-FS 2		FL-FS-LC 3		LF-FS 4		LF-FS-LC 5		CW-Opp-WW 6		CW-WW-LC 7		FL-Opp-WW 8		FL-WW-LC 9		LF-Opp-WW 10		LF-WW-LC 11	
Site	P-value	Slope	P-value	Slope	P-value	Slope	P-value	Slope	P-value	Slope	P-value	Slope	P-value	Slope	P-value	Slope	P-value	Slope	P-value	Slope	P-value	Slope
Charlton	0.22	-0.162	0.106	-0.164	**0.005**	-0.157	**0.000**	-0.189	**0.000**	-0.133	**0.001**	0.083	**0.000**	0.237	**0.000**	0.101	**0.000**	0.13	**0.000**	0.211	**0.000**	0.246
Condobolin	0.271	-0.344	0.021	-0.333	**0.000**	-0.28	**0.000**	-0.4	**0.000**	-0.333	**0.004**	0.197	**0.000**	0.304	**0.000**	0.245	**0.000**	0.364	**0.000**	0.472	**0.000**	0.487
Cootamundra	0.954	-0.261	0.197	-0.279	0.357	-0.237	0.239	-0.308	0.496	-0.277	**0.000**	0.311	**0.000**	0.257	**0.000**	0.324	**0.000**	0.247	**0.000**	0.286	**0.000**	0.234
Lameroo	**0.041**	-0.241	0.226	-0.426	0.494	-0.291	**0.048**	-0.449	0.727	-0.306	**0.000**	0.423	**0.000**	0.397	**0.000**	0.299	**0.000**	0.367	**0.000**	0.27	**0.000**	0.324
Saddleworth	0.327	-0.284	0.12	-0.432	0.875	-0.305	**0.005**	-0.465	0.348	-0.327	**0.000**	0.371	**0.000**	0.43	**0.000**	0.349	**0.000**	0.43	**0.000**	0.324	**0.000**	0.311
Temora	0.373	-0.201	0.255	-0.195	0.184	-0.194	0.408	-0.232	0.813	-0.218	**0.001**	0.196	**0.000**	0.198	**0.021**	0.166	**0.000**	0.212	**0.000**	0.264	**0.000**	0.216
Waikerie	**0.02**	-0.139	0.475	-0.183	**0.007**	-0.075	0.147	-0.2	**0.001**	-0.165	**0.004**	0.164	**0.000**	0.185	0.069	**0.008**	**0.000**	0.184	**0.000**	0.168	**0.000**	0.248
Walpeup	**0.017**	-0.141	**0.001**	-0.295	0.28	-0.16	**0.000**	-0.543	**0.000**	-0.341	0.513	0.187	**0.009**	0.218	**0.000**	0.284	**0.000**	0.381	**0.000**	0.318	**0.000**	0.335
Yarrawonga	0.322	-0.101	0.366	-0.181	0.041	-0.121	0.104	-0.234	**0.002**	-0.161	0.537	0.131	**0.000**	0.188	0.017	0.212	**0.000**	0.202	0.047	0.083	**0.000**	0.144