

Table S1 MPWGAIM QTL analysis of hectolitre weight

Chromosome	dist (cM)	dist (cM)	Founder	Size	Founder Prob	Founder LOGP	Prob	% var	LOGP
1A	32.05	32.55	Yitpi	-0.022	0.448	0.35	0.008	1.5	2.08
			Chara	-0.351	0.023	1.65			
			Baxter	0.178	0.152	0.82			
			Westonia	0.179	0.151	0.82			
1A	156.36	159.45	Yitpi	-0.113	0.236	0.63	0.047	0.9	1.33
			Chara	0.254	0.046	1.34			
			Baxter	0.027	0.429	0.37			
			Westonia	-0.179	0.12	0.92			
1B	124.79	126.83	Yitpi	-0.539	0.009	2.07	0	3.3	3.74
			Chara	0.301	0.092	1.04			
			Baxter	0.083	0.36	0.44			
			Westonia	0.125	0.288	0.54			
1D	114.95	115.96	Yitpi	-0.252	0.069	1.16	0.003	1.6	2.5
			Chara	0.033	0.427	0.37			
			Baxter	-0.119	0.275	0.56			
			Westonia	0.322	0.036	1.44			
2A	303.23	303.73	Yitpi	0.176	0.102	0.99	0.062	0.8	1.21
			Chara	0.036	0.4	0.4			
			Baxter	-0.22	0.052	1.29			
			Westonia	-0.001	0.499	0.3			
2B	81.9	82.4	Yitpi	0.367	0.036	1.44	0.019	1.6	1.72
			Chara	-0.291	0.105	0.98			
			Baxter	-0.002	0.497	0.3			
			Westonia	-0.096	0.321	0.49			
2B	321.49	323.01	Yitpi	0.568	0.058	1.24	0	13.7	6.39
			Chara	-0.903	0.015	1.82			
			Baxter	0.642	0.068	1.17			
			Westonia	-0.425	0.126	0.9			
2D	62.8	80.63	Yitpi	-0.222	0.165	0.78	0	3.1	3.39
			Chara	0.494	0.012	1.93			
			Baxter	-0.256	0.133	0.88			
			Westonia	-0.044	0.423	0.37			
3B	97.29	97.79	Yitpi	0.312	0.074	1.13	0.024	1.6	1.61
			Chara	-0.107	0.329	0.48			
			Baxter	-0.304	0.057	1.25			
			Westonia	0.079	0.371	0.43			
4B	25.22	25.72	Yitpi	0.08	0.305	0.52	0.043	0.9	1.37
			Chara	-0.167	0.181	0.74			
			Baxter	0.23	0.072	1.14			
			Westonia	-0.154	0.174	0.76			
4D	18	20.04	Yitpi	0.327	0.026	1.59	0.022	1.1	1.67
			Chara	-0.176	0.138	0.86			
			Baxter	-0.056	0.368	0.43			
			Westonia	-0.109	0.263	0.58			
5A	241.75	245.09	Yitpi	-0.216	0.137	0.86	0.001	2.1	3.08
			Chara	-0.317	0.05	1.3			
			Baxter	0.305	0.07	1.15			
			Westonia	0.205	0.144	0.84			
5A	321.45	324.54	Yitpi	-0.261	0.064	1.2	0.037	1.3	1.43
			Chara	-0.119	0.274	0.56			
			Baxter	0.122	0.278	0.56			
			Westonia	0.243	0.096	1.02			
5B	191.23	191.73	Yitpi	0.111	0.265	0.58	0.053	1.1	1.27
			Chara	-0.29	0.058	1.24			
			Baxter	0.189	0.156	0.81			
			Westonia	-0.025	0.461	0.34			
6A	227.37	228.38	Yitpi	-0.264	0.066	1.18	0.039	1.1	1.41
			Chara	0.267	0.097	1.01			
			Baxter	-0.112	0.266	0.58			
			Westonia	0.093	0.294	0.53			
6B	175.44	175.95	Yitpi	0.299	0.042	1.38	0.061	1.1	1.21
			Chara	-0.094	0.329	0.48			
			Baxter	-0.043	0.406	0.39			
			Westonia	-0.176	0.154	0.81			
7A	161.15	161.66	Yitpi	-0.158	0.206	0.69	0.003	1.9	2.47
			Chara	0.13	0.247	0.61			
			Baxter	0.314	0.043	1.36			
			Westonia	-0.305	0.057	1.24			
7A	353.95	355.47	Yitpi	-0.078	0.317	0.5	0.149	0.5	0.83
			Chara	-0.008	0.478	0.32			
			Baxter	-0.138	0.19	0.72			
			Westonia	0.216	0.064	1.19			
7D	74.93	81.32	Yitpi	0.092	0.318	0.5	0.257	0.5	0.59
			Chara	-0.003	0.494	0.31			
			Baxter	-0.202	0.087	1.06			
			Westonia	0.104	0.295	0.53			
Unlinked3	4.06	7.69	Yitpi	-0.22	0.086	1.07	0.123	0.7	0.91
			Chara	0.024	0.454	0.34			
			Baxter	0.173	0.153	0.81			
			Westonia	0.011	0.479	0.32			