

Table S2. Means and proportional changes from one cycle to the next (and their average over the three cycles) of the top 10% estimated genomic selection index ( $\mathbf{GSI}_E$ ) real values for different sets of markers and unobserved QTLs in linkage disequilibrium for four traits: grain yield (GY), ear height (EHT), plant height (PHT) and anthesis day (AD) in four real data sets: 3, 4, 5 and 6. To convert the proportional changes to percentages, subtract 1 from the proportional change value and multiply the result by 100.

Cycle	$\mathbf{GSI}_E$ means				$\mathbf{GSI}_E$ proportional changes <sup>b</sup>			
	3	4	5	6	3	4	5	6
0	7.0	6.3	6.9	4.0	--	--	--	--
1	8.1	6.8	7.1	4.1	1.16	1.08	1.03	1.03
2	8.0	5.6	10.1	5.0	0.99	0.82	1.42	1.22
Average	7.7	6.2	8.0	4.4	1.08	0.95	1.23	1.13

<sup>b</sup> Obtained as  $\frac{\mathbf{GSI}_{Ei+1}}{\mathbf{GSI}_{Ei}}$   $i = 0,1,2$ .