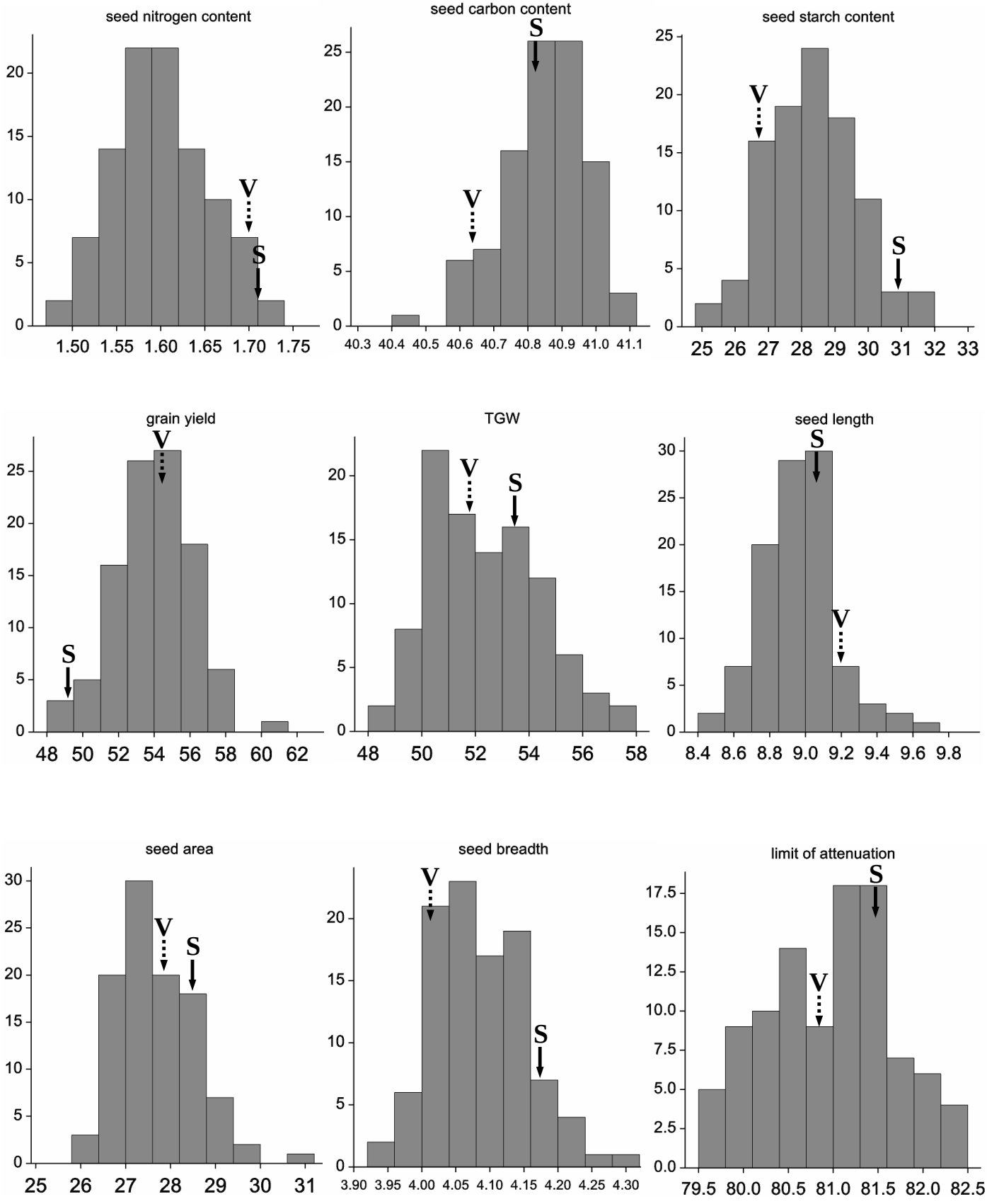
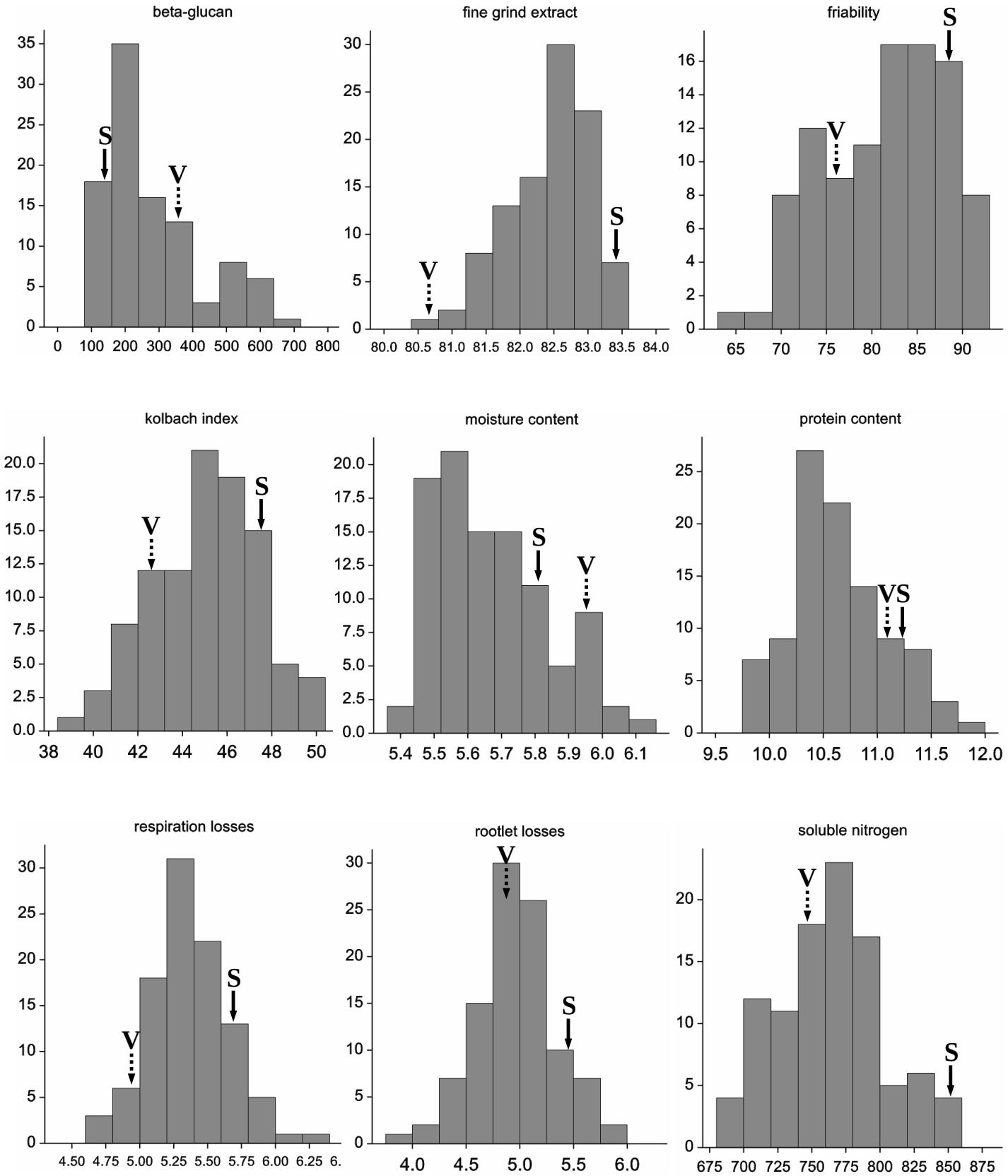
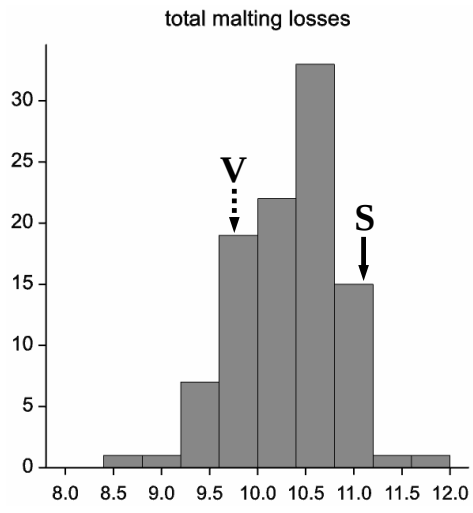
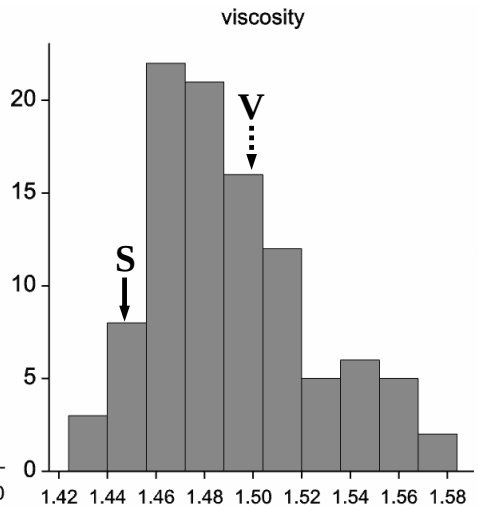
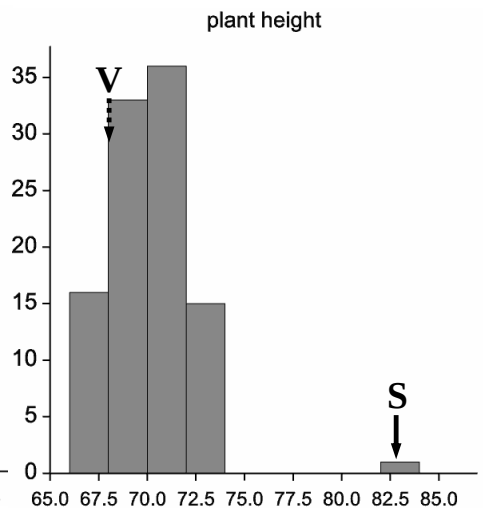
Additional file 1: Figure S1. Frequency distribution of the BLUEs of the 100 DH for the measured traits. The black arrows indicate the values of parents Sofiara (S) and Victoriana (V).

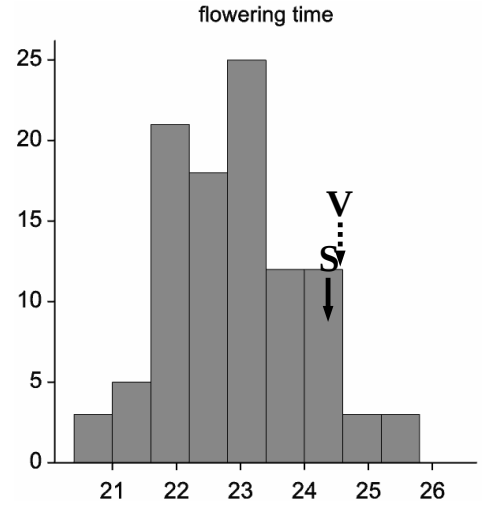



beta-glucan
S
V
0 100 200 300 400 500 600 700 800
fine grind extract
V
S
80.0 80.5 81.0 81.5 82.0 82.5 83.0 83.5 84.0
friability
V
S
65 70 75 80 85 90
kolbach index
V
S
38 40 42 44 46 48 50
moisture content
S
V
5.4 5.5 5.6 5.7 5.8 5.9 6.0 6.1
protein content
VS
9.5 10.0 10.5 11.0 11.5 12.0
respiration losses
V
S
4.50 4.75 5.00 5.25 5.50 5.75 6.00 6.25 6.
rootlet losses
V
S
4.0 4.5 5.0 5.5 6.0
soluble nitrogen
V
S
675 700 725 750 775 800 825 850 875


total malting losses
V
S
0
5
10
15
20
25
30
8.0
8.5
9.0
9.5
10.0
10.5
11.0
11.5
12.0


viscosity
V
S
0
5
10
15
20
1.42
1.44
1.46
1.48
1.50
1.52
1.54
1.56
1.58


plant height
V
S
0
5
10
15
20
25
30
35
65.0
67.5
70.0
72.5
75.0
77.5
80.0
82.5
85.0


flowering time
V
S
0
5
10
15
20
25
21
22
23
24
25
26