

Angus Soft Fruits Breeding Value experience Open call #1

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03/04/2025











270 genotypes
2 growing seasons
6197 observations



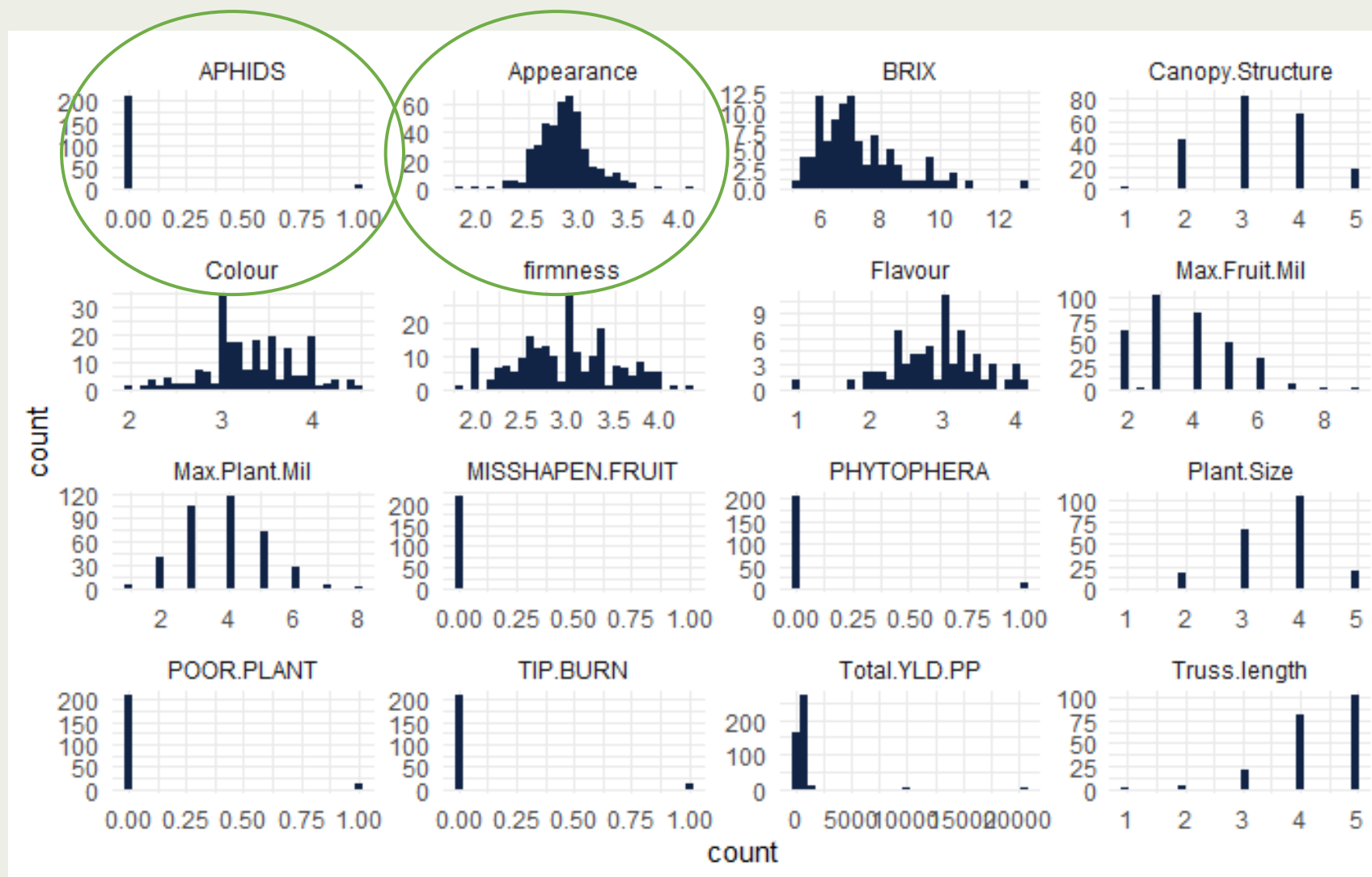


Table 1: Summary of polymorphic SNP in the Fluidigm® array.

Groups	Number of SNP
No polymorphism (only 1 class of allele)	10
Partial polymorphism (2 alleles: homozygous versus heterozygous)	27
Complete polymorphism but 1 class poorly represented (1 class < 10 samples)	8
Complete polymorphism and classes well represented	51



Table 2. Mean Brix levels per allele for each of the 7 markers detected in previous studies as involved in Brix/sugar content regulation.

	A31	A34	A36	SNP60.2024	A66	A67	A78
XX	6.13	7.38	-	7.70	7.34	7.46	7.75
XY	7.30	6.96	7.21	7.06	7.20	7.22	7.10
YY	7.26	-	7.37	6.73	7.29	7.24	7.70

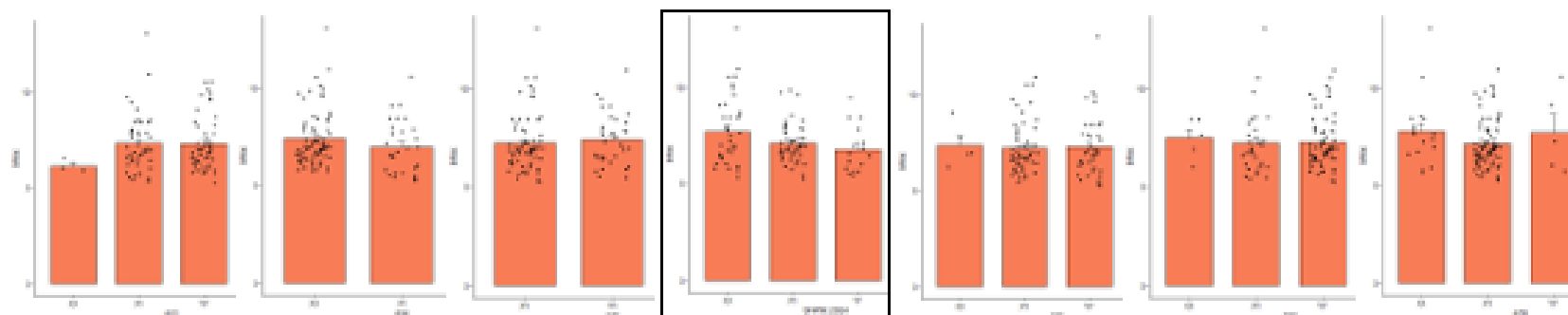
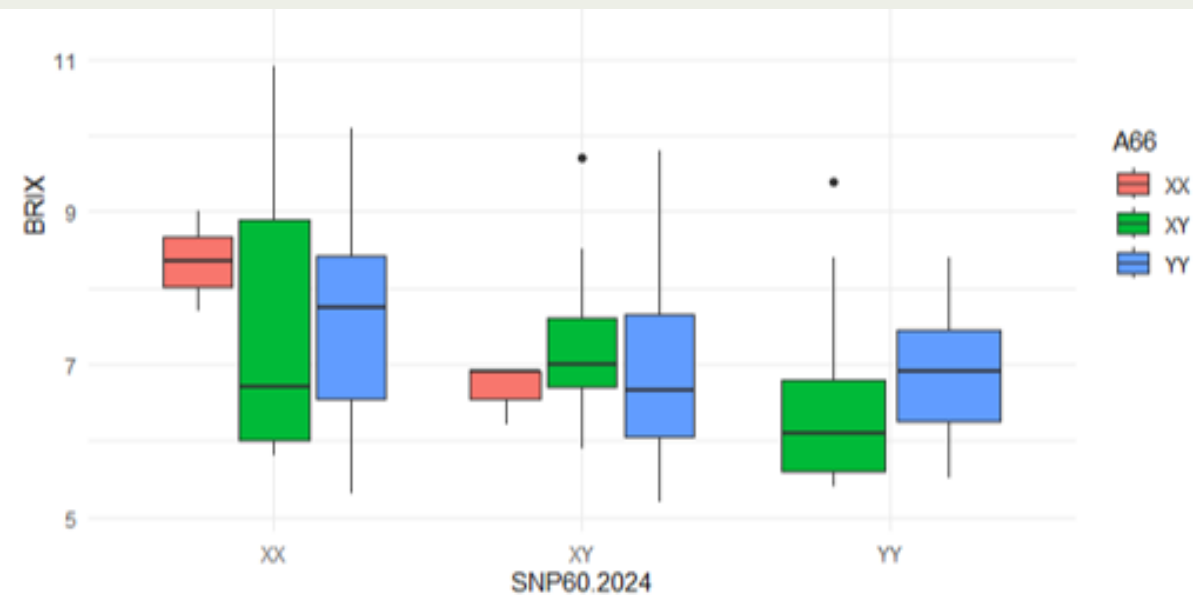


Figure 3. Boxplot comparing the means of Brix in function of the alleles (XX, XY, YY) of the 7 markers (in the same order as in the table above). The black box corresponds to the markers for which the p-value of the analysis of variance is significant.



		SNP60.2024		
		XX	XY	YY
A66	XX	8.35	6.67	NA
	XY	7.49	7.20	6.61
	YY	7.86	6.93	6.89

Figure 4. Table and boxplot comparing the combination of allelic effects of the two markers SNP60 and A66 in the variability of Brix content.

