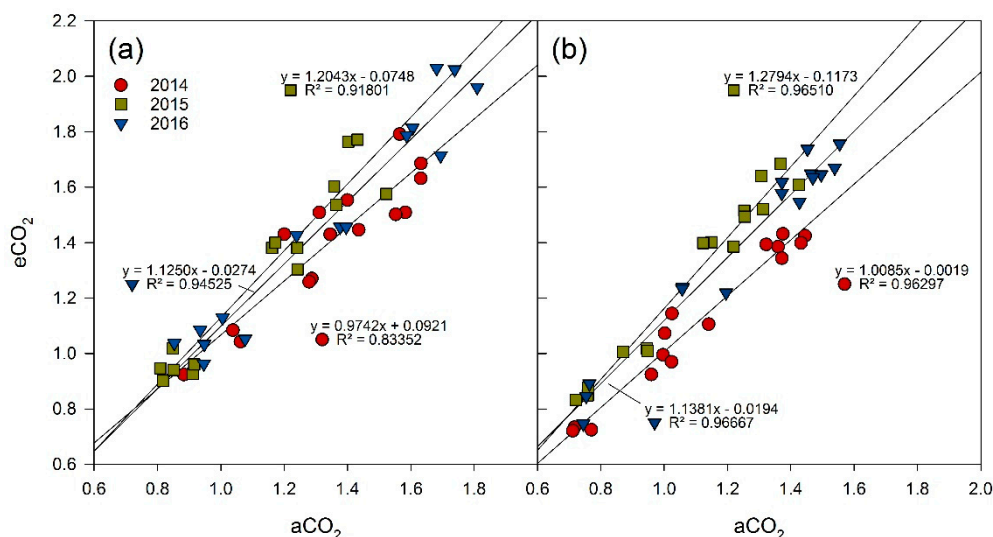## Supplementary Material

Figure 1. Relationship between aCO_2 and eCO_2 values of single-berry weight (g) for Riesling (**a**) and Cabernet Sauvignon (**b**) of the three single datasets of the three different seasons (2014, 2015, and 2016).

Table 1. Posterior predicted probabilities for differences in berry size categories between eCO_2 and aCO_2 being different from zero (P (difference < 0) and P (difference > 0)) for each year and both cultivars, Cabernet Sauvignon (CS) and Riesling (R), from Bayesian mixed-effects adjacent category models.

Cultivar	Year	P (Difference < 0)	P (Difference > 0)
R	2014	0.20	0.42
	2015	0.27	0.32
	2016	0.36	0.39
CS	2015	0.33	0.40
	2016	0.34	0.41