

Table S1. Training (about 80%) and validation set (about 20%) size for cross-validation (CV) scenarios used to evaluate within-family genomic selection for fusiform rust disease.

Scenario / Training data	Test set	Training size	Testing size
1) <i>Random-CV</i>		578	145
2) <i>Family-CV</i>			
CxD, CxE, FxC, GxE	AxB	677	46
AxB, CxE, FxC, GxE	CxD	596	127
AxB, CxD, FxC, GxE	CxE	499	224
AxB, CxD, CxE, GxE	FxC	617	106
AxB, CxD, CxE, FxC	GxE	503	220
3) <i>Within-family-CV</i>			
AxB	AxB	579	9
CxD	CxD	579	25
CxE	CxE	579	45
FxC	FxC	579	21
GxE	GxE	579	44