

Table S4. Associative analysis of SNPs markers and phenotyping (visual score) of soybean Brazilian genotypes submitted to flooding (Experiment 1).

Experiment 1							
Molecular Marker	Phenotyping			Molecular Marker	Phenotyping		
	N ⁽¹⁾	M ⁽²⁾	<i>p-value</i>		N ⁽¹⁾	M ⁽²⁾	<i>p-value</i>
GSM0599				GSM0615			
CC	92	7.97	0.46	GG	54	7.94	0.32
GG	3	7.93		AA	41	7.99	
GSM0600				GSM0616			
AA	62	7.86	0.01	TT	62	8.08	0.00
CC	33	8.15		CC	32	7.76	
GSM0601				GSM0617			
TT	79	7.9	0.01	TT	30	8.08	0.09
AA	17	8.24		AA	63	7.91	
GSM0602				GSM0618			
TT	60	8.03	0.05	TT	27	8.04	0.15
AA	36	7.84		CC	66	7.91	
GSM0603				GSM0619			
TT	38	8.04	0.17	TT	89	7.97	0.22
GG	57	7.92		GG	4	7.74	
GSM0604				GSM0620			
TT	68	7.97	0.46	GG	81	7.97	0.05
AA	26	7.96		AA	2	7.31	
GSM0605				GSM0621			
TT	24	7.66	0.00	AA	94	7.97	0.05
GG	70	8.06		TT	2	7.31	
GSM0611				GSM0622			
TT	26	7.83	0.07	GG	52	7.94	0.36
CC	67	8.03		AA	44	7.98	

GSM0612				GSM0623			
TT	37	8.06	0.10	TT	24	8.14	0.04
CC	55	7.91		AA	72	7.9	
GSM0613				GSM0625			
GG	39	8.05	0.13	GG	74	8.07	0.00
AA	53	7.92		AA	22	7.58	
GSM0614				GSM0626			
CC	40	7.98	0.39	GG	78	7.97	0.43
AA	54	7.95		AA	17	7.95	

(1) Number of genotypes classified in each allele group and (2) Average grade of the visual damage scale; nd: data not available. Values in bold highlights p-values < 0.05 obtained by t-test