

Table S4 Analysis of variance with respective F probabilities of eight isogenic hybrids grown in a split-plot design with four replications and whole plots following a completely randomized design. Treatment (AI versus control) was applied to whole plots, while the hybrids of the full factorial female x male crossing were allocated to the sub plots. Treatment main effects were tested at whole plot level, while all other effects were tested at subplot level.

Source of Variation	DF	SS	MS	VR	F Pr.
Environment	1	14.37	14.37	6.69*	0.04
Residual a	6	12.88	2.15	2.71	
Female	1	4.07	4.07	5.14*	0.03
Male	3	3.09	1.03	1.30	0.29
Environment*Female	1	0.04	0.04	0.04	0.83
Environment*Male	3	2.67	0.89	1.13	0.35
Female*Male	3	0.91	0.30	0.38	0.76
Environment*Female*Male	3	1.37	0.46	0.58	0.63
Residual b	42	33.25	0.79		

*Significant at 0.05 probability

DF: degrees of freedom

MS: mean square

SS: sum of squares

VR: variance ratio

F Pr.: probability (F-test).