

Table 2 Phenotypic (σ_P^2), genetic (σ_G^2) and environment (σ_E^2) variance, additive (σ_A^2), dominance (σ_D^2), broad (h_a^2) and strict (h_r^2) sense heritability and heterosis (H) and loss of vigor (LV) estimates for three characters in five oat crosses (CR)

Cross	σ_P^2	σ_G^2	σ_E^2	σ_A^2	σ_D^2	h_a^2	h_r^2	H	LV
Grain yield per plant (GY P ⁻¹)									
CR1	14.16	9.00	5.15	7.51	1.48	63.58	53.08	120.96	34.73
CR2	12.27	6.61	5.65	3.04	3.57	53.90	24.78	42.52	22.54
CR3	17.16	12.56	4.60	5.08	7.47	73.18	29.64	15.89	8.27
CR4	10.58	5.45	5.13	3.73	1.72	51.52	35.28	11.78	10.90
CR5	9.40	4.79	4.60	3.99	0.79	50.99	42.49	17.73	5.82
Number of panicles per plant (NP P ⁻¹)									
CR1	8.53	6.17	2.36	2.26	3.90	72.25	26.52	4.91	12.89
CR2	7.36	4.48	2.88	1.73	2.74	60.82	23.54	-22.75	10.09
CR3	5.24	3.60	1.64	2.56	1.03	68.62	48.92	-25.00	-0.45
CR4	5.10	3.20	1.90	2.01	1.18	62.78	39.50	-24.12	12.45
CR5	3.32	1.97	1.34	0.46	1.51	59.48	13.90	-7.80	-7.05
Panicle weight per plant (PP)									
CR1	2.43	1.76	0.67	1.32	0.43	72.27	54.46	82.68	21.49
CR2	1.62	1.17	0.44	0.79	0.38	72.61	49.03	59.74	9.60
CR3	1.81	1.33	0.48	0.55	0.77	73.35	30.53	36.30	0
CR4	2.63	2.06	0.56	1.69	0.37	78.63	64.38	34.61	6.42
CR5	4.19	3.54	0.65	1.72	1.82	84.48	41.05	46.11	15.78

Note: CR1 (UPF 16/UPF 18); CR2 (UPF 16/UFRGS 7); CR3 (UPF 16/URPEL 15); CR4 (UPF 18/UFRGS 7); CR5 (UPF 18/UFRGS 17)