

Table 6 Estimates of heterosis (%) over better parent (H₁) and standard check (H₂) for grain quality traits

Traits	Protein content		Amylose content		Gelatinization temperature		Gel consistency	
	H ₁	H ₂	H ₁	H ₂	H ₁	H ₂	H ₁	H ₂
Cross combinations	H ₁	H ₂	H ₁	H ₂	H ₁	H ₂	H ₁	H ₂
HPR 2615 ×Kasturi	-5.51	-5.51	-14.68*	-14.68*	0.00	0.00	-7.97*	-7.97*
HPR 2615 ×HPR 2216	-10.28*	-2.75	-33.20*	-0.72	-33.33*	0.00	-6.57*	34.06*
HPR 2615 ×Pusa Basmati 1509	2.72	5.59	-28.44*	-5.92*	-47.06*	50.00*	-10.62*	-26.81*
HPR 2668 × Kasturi	2.65	8.39*	-10.37*	-10.37*	116.67*	116.67*	15.83*	16.67*
HPR 2668 ×HPR 2216	-5.16	2.80	-29.56*	4.68*	-11.11*	33.33*	-12.12*	26.09*
HPR 2668 ×Pusa Basmati 1509	13.12*	19.44*	-25.99*	-2.70	0.00	183.33*	6.47*	7.25*
HPR 2720 × Kasturi	2.54	11.14*	-2.47	18.28*	0.00	0.00	-2.90	-2.90
HPR 2720 × HPR 2216	7.62*	16.65*	-12.62*	29.86*	-33.33*	0.00	-6.06*	34.78*
HPR 2720 ×Pusa Basmati 1509	7.62*	16.65*	-4.82*	25.13*	-17.65*	133.33*	-8.55*	-22.46*
HPR 2748 (P) ×Kasturi	-8.30*	-8.30*	-7.31*	13.84*	-55.00*	50.00*	-10.00*	-8.70*
HPR 2748 (P) × HPR 2216	0.00	8.39*	-10.99*	32.27*	-45.00*	83.33*	-21.21*	13.04*
HPR 2748 (P) × Pusa Basmati 1509	-2.72	0.00	-7.17*	22.05*	-10.00*	200.00*	22.86*	24.64*
HPR 2748 (W) ×Kasturi	-16.63*	-2.75	-3.24*	10.97*	-25.00*	0.00	-10.14*	-10.14*
HPR 2748 (W) ×HPR 2216	14.38*	33.42*	-11.53*	31.47*	-33.33*	0.00	-30.30*	0.00
HPR 2748 (W) × Pusa Basmati 1509	-18.99*	-5.51	-4.82*	25.13*	-11.76*	150.00*	1.96	-24.64*
HPR 2754 × Kasturi	-2.75	-2.75	-5.64*	7.43*	0.00	0.00	14.75*	52.17*
HPR 2754 × HPR 2216	7.62*	16.65*	-19.90*	19.04*	-33.33*	0.00	12.63*	61.59*
HPR 2754 ×Pusa Basmati 1509	-5.40	-2.75	-11.75*	16.02*	-52.94*	33.33*	-4.92*	26.09*
HPR 2755 × Kasturi	-11.06*	-11.06*	-0.65	4.00*	0.00	0.00	30.43*	30.43*
HPR 2755 × HPR 2216	-7.74*	0.00	-35.39*	-3.99*	-33.33*	0.00	-1.52	41.30*
HPR 2755 ×Pusa Basmati 1509	-13.47*	-11.06*	-24.76*	-1.08	-17.65*	133.33*	18.75*	-3.62
HPR 2761 × Kasturi	0.00	8.39*	-4.16*	38.09*	-50.00*	-50.00*	-4.35*	-4.35*
HPR 2761 × HPR 2216	0.00	8.39*	0.57	49.46*	-33.33*	0.00	13.64*	63.04*
HPR 2761 ×Pusa Basmati 1509	5.08	13.89*	-1.21	42.35*	5.88	200.00*	2.94	-23.91*
HPR 2858 × Kasturi	-2.36	13.89*	-8.07*	5.35*	50.00*	50.00*	5.07*	5.07*
HPR 2858 × HPR 2216	0.00	16.65*	-15.28*	25.90*	0.00	50.00*	-3.54*	38.41*
HPR 2858 ×Pusa Basmati 1509	9.59*	27.83*	-16.67*	9.55*	0.00	183.33*	1.80	-18.12*
HPR 2862 × Kasturi	5.44	8.39*	-9.38*	-0.72	0.00	0.00	-15.00*	10.87*
HPR 2862 × HPR 2216	-7.74*	0.00	-22.91*	14.57*	33.33*	100.00*	2.53	47.10*
HPR 2862 ×Pusa Basmati 1509	21.63*	25.03*	-15.06*	11.67*	-17.65*	133.33*	-18.33*	6.52*
SE ±	0.24	0.24	0.22	0.22	0.25	0.25	0.85	0.85

Note: * Significant at 5% level of significance