

Table 2 The comparison between the variation parameters of the phenotype traits and diversity index of the domestic bred varieties in Northern Xinjiang

Traits	Minimum	Maximum	Mean	Range	Std. deviation	Variance	CV (%)	H'
Growth period (day)	119	137	125.9	18.0	4.07	16.58	3.23	1.921 904
Cotyledon node height (cm)	4.6	7.8	6.1	3.2	0.79	0.63	13.02	1.965 288
Plant height (cm)	45.8	92.8	72.9	47.0	12.62	159.36	17.32	1.935 271
Boll branch	6.8	12.0	9.1	5.2	1.08	1.16	11.90	2.077 739
Boll number each plant	3.3	9.7	6.1	6.4	1.51	2.27	24.56	1.952 028
Boll weight (g)	5.0	8.4	6.6	3.4	0.71	0.51	10.74	2.002 329
Lint (%)	35.2	45.2	39.4	10.0	2.45	6.02	6.23	1.993 858
Seed weight (g)	9.7	13.9	11.4	4.2	1.04	1.09	9.14	2.011 692
Top-half plant mean height (mm)	27.7	34.6	30.9	6.9	2.06	4.26	6.68	1.857 958
Trim index (%)	81.4	86.9	84.9	5.5	1.38	1.91	1.63	1.923 775
Micronaire	3.2	5.2	4.3	2.0	0.46	0.21	10.48	2.061 943
Span length (%)	6.2	6.6	6.4	0.4	0.09	0.01	1.33	0.867 286
Strength (cN/tex)	26.0	37.2	30.4	11.2	2.72	7.39	8.94	1.834 006