

**Table (3):** Estimates of heritability, expected and observed response to selection for stomata frequency and coefficient of variation for different families selected for high and low directions in populations1 and 2 in the first (F<sub>3</sub>) and second (F<sub>4</sub>) cycles of selection.

Selection direction	Families	Population(1)						Population (2)							
		F <sub>3</sub>													
		bop♣	h <sup>2</sup> φ	h <sup>2</sup> !!	Ex.resp.%	O.resp. %	Variance♠	C.V.	bop♣	h <sup>2</sup> φ	h <sup>2</sup> !!	Ex.resp.%	O.resp. %	Variance♠	C.V.
Low	1	0.45	0.1867	0.3176	7.5060	3.6276	23.06*	5.806	0.266	0.2210	0.2885	5.3439	5.4560	28.75 <sup>ns</sup>	6.969
	2		0.1843		7.5060	3.5808	39.35 <sup>ns</sup>	7.580		0.4349		5.0221	10.0895	32.42 <sup>ns</sup>	7.782
	3		0.5820		5.8815	8.8622	17.22**	5.306		0.2097		6.1419	5.9489	30.32 <sup>ns</sup>	6.316
High	1	0.7642	0.7124	0.7642	8.4735	15.6282	35.45 <sup>ns</sup>	6.000	0.266	0.3387	0.4580	6.3414	9.9235	58.38 <sup>ns</sup>	8.541
	2		0.6378		9.5490	15.7684	29.01 *	5.421		0.4502		5.2216	10.8600	54.70 <sup>ns</sup>	8.198
	3		0.9426		6.8445	16.7032	24.10*	4.901		0.5851		5.2216	14.1134	29.00 <sup>ns</sup>	5.799
Bulk							68.25	9.625						52.22	8.880
Selection direction	Families	F <sub>4</sub>													
		bop♣	h <sup>2</sup> φ	h <sup>2</sup> !!	Ex.resp.%	O.resp. %	Variance♠	C.V.	bop♣	h <sup>2</sup> φ	h <sup>2</sup> !!	Ex.resp.%	O.resp. %	Variance♠	C.V.
		Low	1	0.497	0.576	0.484	4.328	6.548	27.60 <sup>ns</sup>	6.648	0.363	0.699	0.620	3.082	9.300
2	0.324		5.678		4.839		38.87 <sup>ns</sup>	7.748	0.411	4.309		7.643		39.25 <sup>ns</sup>	8.014
3	0.552		5.948		8.635		33.71 <sup>ns</sup>	7.515	0.748	3.508		11.326		40.96 <sup>ns</sup>	8.187
High	1	0.509	0.573	0.509	9.752	14.697	26.18 *	5.275	0.363	0.564	0.441	4.656	11.326	42.62 <sup>ns</sup>	6.984
	2		0.524		9.302	12.805	42.20 <sup>ns</sup>	6.810		0.442		4.975	9.485	66.28 <sup>ns</sup>	8.732
	3		0.430		9.392	10.617	34.13 <sup>ns</sup>	6.245		0.316		5.403	7.367	99.30 <sup>ns</sup>	11.067
Bulk							63.22	9.403						75.31	9.960

♣ = mid-parent offspring regression (F<sub>3</sub> /F<sub>4</sub>), φ = Family realized heritability, !! = realized heritability in the high or low directions, Ex.resp.% = expected response to selection, O.resp.% = observed response to selection. (ns= variances non-significantly different from the controls' variances, ♠ family variances were tested against bulk variances using F test: \*= significantly different from the control (P<0.05), \*\* = high-significantly different from the control, based on F test).