

Table(5): Response to selection for CMS in the high and low directions as well as realized heritability and parent-offspring regressions (b_{po})

Pop. No.	Pop 1		Pop 2		Pop 3		Pop4		Pop 5	
	Mean	% Response	Mean	%Response	Mean	%Response	Mean	%Response	Mean	%Response
F ₃ Bulk	79.13		66.71		44.44		67.73		52.84	
High	84.43	6.69**	75.38	13.00**	61.95	39.40**	70.50	4.08**	71.05	34.46**
Low	68.00	14.06**	57.49	13.82**	37.79	14.55*	64.99	4.04**	45.89	13.15*
<u>Heritability</u> 1-realized	0.22		0.34		0.57		0.09		0.53	
2- (b_{po})	0.22 ± 0.049**		0.34 ± 0.069**		0.55 ± 0.150**		0.09 ± 0.047*		0.52 ± 0.102**	

* P < 0.05 ** P < 0.01

Table 6: Correlated responses to selection for CMS in the high and low directions in Grain weight per spike (g) as well as realized heritability estimates and parent-offspring regression (b_{po}).

Pop No.	Pop 1		Pop 2		Pop 3		Pop4		Pop 5	
	Mean	%Response	Mean	%Response	Mean	%Response	Mean	%Response	Mean	%Response
F ₃ Bulk	1.725		1.9947		1.6462		2.151		2.004	
High	2.13	23.478**	2.17	8.788**	1.9603	19.080**	2.3813	10.706*	2.336	16.566**
Low	1.7	1.44	1.834	8.056**	1.757	6.74**	2.060	4.23	1.893	5.538
<u>Heritability</u> 1-Realized	0.70		0.55		0.59		0.39		0.55	
2- (b_{po})	0.45 ± 0.297		0.34 ± 0.154*		0.26 ± 0.130*		0.39 ± 0.236		0.54 ± 0.183**	

* P < 0.05 ** P < 0.01

Table(7): Correlated responses to selection for CMS in 1000 Grain weight in the high and low directions as well as realized heritability and parent-offspring regression (b_{po}).

Pop No.	Pop 1		Pop 2		Pop 3		Pop4		Pop 5	
	Mean	% Response	Mean	% Response	Mean	% Response	Mean	% Response	Mean	% Response
F ₃ Bulk	46.99		42.68		42.79		43.08		51.79	
High	49.72	5.80**	45.31	6.16**	48.00	12.17**	46.31	7.49**	56.32	9.65**
Low	42.85	8.81**	38.81	9.07**	45.03	5.23**	40.20	6.68*	49.38	4.65
<u>heritability</u> 1-Realized	0.85		0.88		0.57		0.86		0.78	
2- (b_{po})	0.51 ± 0.207*		0.88 ± 0.105**		0.24 ± 0.132*		0.63 ± 0.193**		0.79 ± 0.109**	

* P < 0.05 ** P < 0.01

Table(8): Correlated responses to selection for CMS in the high and low directions in Grain yield per plant as well as realized heritability and parent-offspring regression (b_{po}).

Pop No.	Pop 1		Pop 2		Pop 3		Pop4		Pop 5	
	Mean	% Response	Mean	% Response	Mean	% Response	Mean	% Response	Mean	% Response
F ₃ Bulk	24.54		27.68		25.94		29.41		27.13	
High	26.39	8.76	28.83	4.15	29.53	13.83**	33.25	13.05*	30.21	11.35
Low	24.60	0.24	28.05	1.33	29.41	13.81**	32.05	8.97	27.22	0.331
<u>heritability</u> 1-Realized	0.29		0.14		0.09		0.25		0.43	
2- (b_{po})	0.37 ± 0.276		0.12 ± 0.076		0.24 ± 0.113*		0.14 ± 0.23		0.24 ± 0.222	

* P < 0.05 ** P < 0.01