

Table 6. Expected (Ex.) and actual (Ac.) gain % from the first cycle of S₁ line selections in two yellow maize Populations across two locations.

Population	Selection methods	Days to 50% silking		Plant height (cm)		Ear height (cm)		Ear length (cm)		Ear diameter		No. of rows/ear		No. of kernels/ row			100-kernel weight, g.		Grain yield (Kg/plot).	
		Ex.	Ac.	Ex.	Ac.	Ex.	Ac.	Ex.	Ac.	Ex.	Ac.	Ex.	Ac.	Ex.	Ac.	Ex.	Ac.	Ex.	Ac.	
Tuxpeno Corn Belt (Pop. A)	yield	4.03	3.70	10.76	7.10	11.13	11.00	10.78	4.29	5.69	-1.94	2.02	-1.82	3.80	15.29	8.26	8.62	23.58	17.12	
	silk	4.03	0.40	10.76	6.00	11.13	3.00	10.78	6.65	5.69	-1.94	2.02	-4.86	3.80	14.32	8.26	3.06	13.69	8.01	
Puerto Rico (Pop. B)	yield	5.09	0.00	9.05	-3.40	9.53	-0.90	5.89	5.08	1.71	3.48	7.30	6.80	4.73	-0.67	10.39	17.26	31.87	8.06	
	Silk	5.09	-1.30	9.05	-5.70	9.53	-4.00	5.89	6.72	1.71	1.02	7.30	-2.04	4.73	-2.01	10.39	6.83	31.87	-15.32	