

2. Sugar stalk corn.

Studies have been continued with sugar content of cornstalks where selections are being made for higher sugar content. A series of 3-way crosses and one four-way cross yielded the following data:

No. of different Stalk Samples	Single cross	x No. of different inbred lines	% Sugar*
62	C103xT1	10	13.34
83	T1xC103	11	12.87
68	C103x83	8	11.11
39	83xC103	7	13.48
48	T1x83	6	11.77
53	83xT1	6	11.98
54	(38-11xC103)x83	8	13.95

*For comparative readings in the field a Bausch and Lomb Hand Refractometer was used. Samples were taken at the "hard-dough" stage.