

3. Specific combining ability in relation to classes of sugars in stalk juices.

Six parent inbreds of hybrids entered in the trial at Pontevedra were classified as to the predominant class of sugar produced in the stalk juices. Use was made of the following symbols:

a = reducing sugar
b = non-reducing sugar

Their hybrids were classified as:

1 = Homozygous a x a and b x b
2 = Heterozygous a x b.
3 = Mixtures (a x b) x b and (a x b) x a

Differences in the average grain yields between the groups are reported below:

	Yield of grain Kg./Ha.	Groups Compared	"t"
1. Homozygous	9,441	1-2	4.2**
2. Heterozygous	10,461	1-3	3.2*
3. Mixtures	10,215	2-3	1.2

* = Significant at $P < 0.05$
** = Significant at $P < 0.01$

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