

## 5. Gametophyte factors in pop corns.

Tests of Black Beauty Pop Corn were made to determine how many of the chromosomes carry a gametophyte factor.

- Chrom. 1 - Certain plants gave low ratios for  $zb_4$  which may indicate a Ga factor. (classification difficult for  $zb_4$ ).
- " 2 - a few plants gave slightly deficient ratios for  $v_4$ , but normal ratios for gl.
- " 3 - Five out of 10 plants gave low ratios for a.
- " 4 - two out of 15 plants gave very low ratios for su.
- " 5 - The 12 plants tested all gave low ratios for bt.
- " 6 - normal ratios for Y.
- " 7 - normal ratios for gl
- " 8 - normal ratios for  $v_{16}$
- " 9 - normal ratios for c
- " 10 - normal ratios for r

Other popcorns were tested for ratios for bt in 5 and su in 4:

Supergold pop corn gave normal ratios with bt and su. A red pericarp pop corn gave low ratios for su, slightly low ones for bt

A hairy sheath pop corn: 2 plants gave low ratios for both bt and su.

An a-tester gave normal ratios for bt and su.

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