

2-3) Distinction between hard flint (transparent) and floury (opaque).

The material mentioned under (2-2) was used also for studying the contrasts mentioned in endosperm structure. The results so far obtained were rather confusing, since Negrito behaved rather ambiguously: when crossed with pop corn, a segregation of 3 transparent to one opaque was generally obtained; when crossed with a soft dent corn we obtained either a segregation of 1 transparent to 1 opaque or of 3:1; when crossing with opaque (floury) the segregation was on the whole 1:1. It should be remembered, that Negrito is an opaque but not very soft "flour" corn. From many other crosses between either transparent-flint races or opaque-floury races between themselves, we know that no segregations occurred or that thus no genetic differences between races of the same type are present. The segregation between groups gave (Mezzacappa unpublished) generally a 3:1 or 1:1 segregation for the contrast Transparent/opaque and exceptionally a 1:3 ratio, with further abnormalities when yellow-orange endosperm color was involved. The study of "hard floury" races should be extended and their connection with the question of the origin of the true floury races explained by future work.

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