

Cherry pericarp color confirmed in *R1-r(Ecuador1172) Lc1* stock.

--Stinard, PS

Dominant alleles at the *Lc1* locus confer cherry pericarp color in the presence of sunlight or *P11* (Bray 1964, MNL 38:134), a pattern of expression similar to that of the displaced *r1* genes *Sn1* and *Hopi1*. The Maize Genetics Stock Center has been maintaining a line of *Lc1* in coupling with *R1-r(Ecuador1172)* (stock number X19E). However, during the course of its propagation, this line was maintained by crossing to *R1-g* and re-extracting a homozygous *R1-r(Ecuador1172)* isolate. The presence of the linked *Lc1* allele was inferred, but never directly tested. Last winter, we crossed our *R1-r(Ecuador1172) Lc1* stock to an *r1-r B1 P11* line in order to test for cherry pericarp expression of *Lc1*. F1's were grown to maturity in our observation nursery last summer and all ears on these plants had deep cherry pericarp, confirming the presence of *Lc1* in the *R1-r(Ecuador1172)* line. We are in the process of checking other Stock Center *Lc1* lines by crossing with *P11*.