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URBANA, ILLINOIS

Maize Genetics Cooperation • Stock Center

**New alleles of *chlorophyll* found in lemon white endosperm stocks in Maize COOP phenotype-only collection**

--Janet Day Jackson

This report summarizes allele testing of lemon white endosperm stocks characterized only by phenotype in the Maize Genetics COOP Stock Center collection. Here pale kernels linked to pale green or albino seedlings characterized all stocks. Many had previously given negative results in tests with *vp9*, *w3* and *y9*. The *c11 C1m1-3* stock used in crosses here carries a dominant modifier of *c11* that allows for viable green plants making crosses with a homozygous stock possible. Crosses were made as follows:  $[+//lw^*]@ \times c11 C1m1-3$  or  $+//+//lw^* \times c11 C1m1-3$ . Ears were scored for the segregation of pale yellow kernels.

New designations have been assigned to these alleles and they have been placed in the main collection. Stocks with this same phenotype that were found to complement *c11* will be tested for allelism with other stocks linked to pale endosperm.

<u>Previous designation</u>	<u>allelism test with <i>w3</i></u>	<u>New designation</u>	<u>MGCS stock number</u>
5910E <i>lw</i> *-1981-10	4 positive	<i>c11</i> -1981-10	306L
5912B <i>lw</i> *-B73	4 positive	<i>c11</i> -B73	306M
5912F <i>y-pg</i> *-1981-17	3 positive	<i>c11</i> -1981-17	306N