

**Maize Genetics Cooperation Newsletter vol 84 2010**

**Please Note: Notes submitted to the Maize Genetics Cooperation Newsletter may be cited only with consent of authors.**

URBANA, ILLINOIS

Maize Genetics Cooperation • Stock Center

**Additional new alleles of *pale yellow9* found in viviparous stocks in Maize COOP phenotype-only collection**

--Janet Day Jackson

This report summarizes allele testing of viviparous stocks characterized only by phenotype in the Maize Genetics COOP Stock Center collection (Jackson, MNL 81:32, 2007; Jackson, MNL 82:31, 2008). Here pale kernels linked to the viviparous trait characterized all stocks. They had previously given negative results in tests with *vp9*. Since *y9* is also characterized by pale endosperm and is slightly viviparous, allelism tests were next conducted with this stock. The *y9* stock also gives green to pale green seedlings and plants. This and zebra striping had been noticed previously in the phenotype-only stocks. Crosses were made as follows:  $[+ / vp^*] @ X y9$  and  $+ / + / vp^* X y9$ . Ears were scored for the segregation of pale kernels.

New designations have been assigned to these alleles and these have been placed into the main collection. It is expected that with further sorting and allelism testing of viviparous stocks characterized by phenotype only, additional alleles of *y9* will be discovered. Stocks with this same phenotype that were found to complement *y9* will be tested for allelism with other stocks linked to pale endosperm.

<u>Previous designation</u>	<u>allelism test with <i>y9</i></u>	<u>New designation</u>	<u>MGCSC: stock number</u>
<i>l</i> *-89-90-1552-10	2 positive	<i>y9</i> -89-90-1552-10	X07CE
<i>y1-l</i> *-Funk-84-9	4 positive	<i>y9</i> -Funk-84-9	X07CF