

IV. REPORT ON MAIZE COOPERATIVE

During the past season, a large number of intercrosses of chromosome testers were made with a view to extracting new combinations of traits and determining map positions. It will be some time, however, before many of these new combinations have been extracted and are available for distribution. If anyone desires specific combinations of traits not yet listed in the catalog of available stocks, it is quite likely that stocks can be furnished from which such combinations may be readily derived.

Stocks of about 150 reciprocal translocations were increased last summer. Many of these have closely-linked markers. In each instance, pollen examinations were made to confirm the presence of the complete translocation. Crosses were made to the inbred lines M14, W23, and Oh51A and, when necessary, to appropriate genetic testers to determine their positions on the linkage maps. Most were also crossed to the inbred line Kys to provide material more suitable for cytological studies. Inventory of these stocks has not yet been completed.

The stocks which follow represent traits or combinations supplementary to those listed in last year's News Letter. Additional copies of the previous catalog of stocks are available upon request. Requests should be sent to the Botany Department, University of Illinois, Urbana, Illinois. Newly-available stocks are as follows:

Chromosome 1

sr₁ p^wR an₁ gs₁ bm₂

Chromosome 2

lg₁ gl₂ b sk v₄; carries fl₁
ws₃ lg₁ gl₂ B sk

Chromosome 3

a₁; A₂ C R B Fl dt₁
A₁ sh₂; A₂ C R
a₁st et; Dt₁
a₁st sh₂; Dt₁
gl₇
lg₂ a₁st et; Dt₁
lg₂ a₁ sh₂ et; carries Dt₁
lg₂ pm

Chromosome 5

a₂ bt₁ pr; seg bm₁ bv₁; may seg v₂; A₁ C R

Chromosome 6

po Y₁ pl
y₁ pb₄ Pl
Y₁ pb₄ pl
y₁ Pl Bh

Chromosome 7

bd

Chromosome 9

bk₂ ms₂₀
wx bk₂
wx d₃
yg₂ c sh₁ wx; A₁ A₂ R

Chromosome 10

R^S sr₂
r^r sr₂

E. B. Patterson