

6. Studies of chromosome segregation.

During the building of stocks for the genetic part of the study, it was found that a homozygous stock of T5-6c shows independence of y_s and v_2 . This places v_2 in the short distal segment of the long arm beyond the knob and beyond the translocation break point which is at .9.

Among a group of translocations with either or both interstitial segments long was one which gave an exceptionally high value for adjacent-2 segregation, 17.4% in place of an average of 3.2% for the eight others, (Genetics 35:446-481, 1950).

This, T6-8a, has been backcrossed to normal stocks. These semisterile plants have low values of adjacent-2 segregation, an average of 6% with a range from 3 to 9%.