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## 1. Linkage tests in homozygous interchange stocks.

2-6(001-15)2S.78-6 (sat.): Break between gl<sub>2</sub> and v<sub>i</sub>; lg gl<sub>2</sub> segment attached to 6 replacing at least part of the satellite. Based on 115 plants, recombination values are: lg-gl 22.6; gl-v<sub>i</sub>, 53.0; Y-lg 35.2; Y-gl 17.7; Y-v<sub>i</sub>, 52.1.

 $\frac{2-6b}{2-6(5472)}$ S.25-L.15; Breakpoint in 2 between  $\frac{gl_2}{gl_2}$  and  $\frac{v_4}{gl_2}$ .

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## 2. Albino seedling W7748. (see M.N.L. 43:113-114, 1969).

Crosses with the aleurone color testers show that  $\underline{r}$  is the one with which this character is linked. Crosses have been made with other markers in this chromosome.

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## 3. White tip seedling.

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This character was described last year (M.N.L. 43:114). It appeared among the self progeny of plants from crosses of Al88 inbred with pollen from white-striped sib plants, and also in crosses on Al88 interchange stocks. The latter  $F_1$ 's were backcrossed to white-tipped.

Segregation for the white-tipped character was close to 1:1, but most cultures had a few white-striped plants similar to the original ones, ranging from plants with a few white stripes to ones mostly white. Only in one culture was the segregation close to 3:1 (49 striped, 157 green).

There was no evidence of close linkage with T1-3 (5883), T5-7 (5179), T5-7e, or T3-7c. There was linkage with T2-10 (6061) (designated in Longley's ARS 34-16 list as T5-10 (6061)). The data are: