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1. Linkage tests in homozygous interchange stocks.

2-6(001-15)2S.78-6 (sat.): Break between gl_2 and v_4 ; $lg\ gl_2$ segment attached to 6 replacing at least part of the satellite. Based on 115 plants, recombination values are: $lg-gl$ 22.6; $gl-v_4$ 53.0; $Y-lg$ 35.2; $Y-gl$ 17.7; $Y-v_4$ 52.1.

2-6b S.69-L.49; Breakpoint in 2 between gl_2 and v_4 .

2-6(5472)S.25-L.15; Breakpoint in 2 between gl_2 and v_4 .

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

Crosses with the aleurone color testers show that 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.

This character was described last year (M.N.L. 43:114). It appeared among the self progeny of plants from crosses of A188 inbred with pollen from white-striped sib plants, and also in crosses on A188 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: