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1. Location of fl2.

The study of the progenies of the backcrosses (see News Letter, 36, p. 91) confirmed the linkage between genes <u>la</u> and <u>fl</u>₂, and <u>Tu</u> and <u>fl</u>₂. The results obtained were as follows:

Progenies

Genes	Parental	Non-parental	Total	Percent recom- bination
fl ₂ la	252 234 (fl ₂ +) (+ la)	9 6 (++) (fl ₂ la)	501	3
fl ₂ Tu	97 88 (fl ₂ +) (+ Tu)	38 42 (+ +) (fl ₂ Tu)	265	30

Thus gene fl appears really to be located on the short arm of chromosome IV, very near to la.

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2. Location of rp_x (sensitivity to Puccinia Sorghi).

The study of the progenies of the backcrosses comprising genes \underline{rp}_x , \underline{ws}_3 and \underline{lg}_1 , provides the possibility of defining accurately the situation of the locus \underline{rp}_x on chromosome II (see News Letter 35, p. 134).

The backcrosses with $\underline{ws_3}$ $\underline{rp_k}$ resulted in a progeny of 934 plants, of which 196, or 21%, were recombinant.

The three-point test $(\underline{ws_3}, \underline{lg_1}, \underline{rp_x})$ provided a progeny of 332 plants, among which were counted:

65 recombinants between ws_3 and rp_x , or 19.5 per cent 40 " " lg_1 and rp_x , or 12 " " 25 " " ws_3 and lg_1 , or 7.5 " " 2 double recombinant plants, or 0.6 " "

Thus it seems possible to locate the locus \underline{rp}_{χ} on the short arm of chromosome II, between genes $\underline{lg_1}$ and $\underline{gl_2}$ and more or less at the same distance from both.

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