

A third case of linkage between the *y* factor on chromosome 6 and a japonica trait expressed in seedling stage is indicated by the following F₂ data:

<u>Y kernels</u>		<u>y kernels</u>	
J	j	J	j
201	85	76	0
243	114	83	0

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4. Another case of balanced lethal factors.

A series of self-pollinations carried out on plants derived from crossing individuals segregating for det¹³ and det²⁵ (two extreme types of defective endosperm factors from maize-teosinte derivatives) has given the following results:

Number of ears segregating

both defectives (in repulsion)	one defective (or two in coupling)	no defective
202	62	2

In the first group the defective seeds form about 50% of the total number of kernels, whereas in the second group the percentage varies from 20-25 to 30-35.

The data suggest that this is another balanced lethal system.

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1. Crossing-over in the Lg - Gl - V region.

Recombination data for markers of chromosome 2 in different genetic backgrounds are reported in the following table (backcross of the multiple recessive stock to heterozygous plants possessing T cytoplasm): (Table 1)