

<u>Gene Combination</u>	<u>% Amylose</u>	<u>Birefringence End Point, °C</u>	<u>Phenotype</u>
Normal dent	27	68	Normal dent
du	38	69	dull dent
ha	61	89	tarnished dent
su	30	65	wrinkled
su <sub>2</sub>	42	55	translucent, full
wx	0	68	opaque
du ha	58	70	translucent, full
du su	64	68	wrinkled
du su <sub>2</sub>	48	56	translucent, full
du wx	0	70	opaque, shrunken
ha su	60	85	translucent, full
ha su <sub>2</sub>	40	83	opaque
ha wx	15	72	opaque, shrunken
su su <sub>2</sub>	56	66	wrinkled
su wx	0	67	wrinkled
su <sub>2</sub> wx	0	53	opaque

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#### 5. Recombination with Y and su<sub>2</sub> in T6-10b.

The interchange point in T6-10b is very close to Y. Repeated back-crossing of y<sup>T</sup>/YN to a du su<sub>2</sub> stock since 1951 has finally resulted in a Semisterile YY su<sub>2</sub> su<sub>2</sub> plant. This will permit a test for linkage between su<sub>2</sub> and y in the homozygous translocation. If linkage is found, y will have been placed on the long arm of chromosome 6 distal to the translocation point. In the absence of linkage the position of y will remain uncertain.

#### 6. Close linkage of v, ms-si, and rg on chromosome 6.

Material heterozygous for Yy, for a new "male sterile silky ear" mutant, and for a new recessive ragged leaf seedling mutant supplied by E. G. Anderson, who had located them on chromosome 6, was planted out.

Data from y si/Y Si selfed gave 48 Y Si: 1 Y si: 1 y Si: 39 y si for which recombination by maximum likelihood is 1.8%.