## 14. A possible homozygous viable deficiency in the long arm of chromosome 1.

The  $bz_2$  locus which has been described and located cytologically on the long arm of chromosome #1 (Newsletter 28, 29) has shown linkage with an<sub>1</sub>. The data listed below indicate that  $bz_2$  is located between an<sub>1</sub> and gs:

Cross: an Bz gs/An bz Gs x an bz gs (bz seeds only)

Parentals	Region 1	Region 2	Doubles	Total
21	3	2	0	26

The distance between  $bz_2$  and  $an_1$  has become important because of discovery that one of the radiation-induced anther-ear mutants ( $an_{6923}$ ) found by Anderson has an associated bronze aleurone effect. A cross of  $an_{6923}$  with a  $bz_2$  tester gave all bronze seeds indicating that the two bz characters are allelic. The allelism of an1 with  $an_{6923}$  has not yet been determined but might reasonably be expected. If so then  $an_{6923}$  probably represents a rather sizable deficiency which is homozygous viable and which includes at least two previously established loci.

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