Due to poor germination and dry weather, the conventional analysis yielded a total population of only 21,698. Of these 9 (41 x 10^-5) were apparently Wx, ae seeds. Of the nine apparent recombinants, 8 were carrying the bz marker and 1 Bz indicating a location for B21 distal to Q contrary to earlier hypothesis.

Oliver Nelson

4. Location of miniature seed (mn) on chromosome 2.

Crosses were made between a series of translocation stocks in which waxy (Wx) was used as a marker for the chromosomal interchanges and a miniature seed (mn) Wx stock. These F1 plants were then selfed, and the miniature seeds checked with iodine solution for waxy endosperm.

Slightly lower than expected ratios (25%) of waxy were obtained with all translocations except T 2-9 b. Progenies involving T 2-9 b, which has break points on the short arm of chromosome 2 at .18 and on the long arm of chromosome 9 at .22, gave 1.2% waxy seeds. It is therefore apparent that miniature seed is located on Chromosome 2.

Joseph Van Horn

UNIVERSITY OF TEXAS
Austin, Texas

1. Further studies on trivalent frequency in an array of maize chromosome 2-Tripsacum interchange chromosome constitutions.

An attempt was made to synthesize additional 21 chromosome constitutions combining the available primary and secondary maize chromosome 2-Tripsacum interchange chromosomes in various ways. A number of the plants derived repeated constitutions which have been reported earlier (Genetics 51: 23-40. 1965), and showed metaphase I trivalent frequencies very similar to those described before. Four previously unknown 21 chromosome constitutions were also derived. Metaphase I trivalent frequencies from microsporocyte samples of three of these four constitutions were approximately consistent with expectation from previous findings in that: 1. a constitution fitting into the general category