noted where a bridge of chromosomes was formed from one pole to the other during anaphase. These are referred to in Table 1 as "Anaphase bridge."

**Interpretation of the Data.** In any interpretation of data, it is important that the number of cases be statistically significant. In this preliminary study, only one root tip was examined for each of the time intervals indicated in Table 1, with the exception of four root tips from seeds that had been treated for 18 hours with castor oil. The number of cells per root tip, however, was large. The following trends were noted:

1. The number of mitotic figures was greater in the treated seeds than in the controls. Since the root tips were cut the same length and at the same time of the day, the vegetable oils may be acting as a stimulant in cell division.

2. The number of cells with mitotic aberrations was greater in the treated seeds than in the controls. There was no apparent effect on the number of binucleated cells.

3. The number of cells with two nucleoli in the treated material (91) is significantly greater than in the control (5). Further data are required to determine the effect of the peanut oil on the role of chromosome 6 in the formation of the nucleolus.

Fred Winston

DEKALB AGRICULTURAL ASSOCIATION, INC.
DeKalb, Illinois

Fifteen commercial hybrids were placed in eight different 7 x 7 latin square experiments last summer. The arrangement of the hybrids within the plots and the plot locations are shown in Tables 1 and 2. Averages are for number of fertile (F.) and sterile (S.) tassels. Partial fertiles of all classes were included in the sterile count for each entry. Yield deviation is the total of the deviations for each of three pairs of restorer vs. normal version of a hybrid. Where the restorer version outyielded the normal one its deviation is a plus figure. LSD's at the 5% level are given in bushels per acre for each experiment. One general conclusion which may be drawn is that at no environmental region under test did the percent of fertile tassels reach the danger level. It is interesting to note in Table 1 that the ratio of fertile to sterile tassels decreased at each extremity of the "corn belt." Also of interest is the indication from the same table that a higher plus yield deviation is correlated with the lowest ratio of fertile to sterile tassels. The negative yield correlations are disappointing but not discouraging. As restored versions of male parental lines are improved negative yield differences tend to diminish.

Loring M. Jones
<table>
<thead>
<tr>
<th>Expt.</th>
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<th>R51-3</th>
<th>R51-4</th>
<th>R53-1</th>
<th>R52-2</th>
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<td>206 44</td>
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<td>8.3</td>
<td>6.5</td>
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<td>116.2</td>
<td>110 115</td>
<td>94.6</td>
<td>131 117</td>
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<td>116.4</td>
<td>202 69</td>
<td>115.8</td>
<td>109 163</td>
<td>103.0</td>
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## Table 2

Comparison between Restorer Pilot Production and Sterile-blended or Normal Commercial Production, 1960

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<td>Deshler, Ohio</td>
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<table>
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<tr>
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