maintain the collection for a period of five years. Maize
geneticists wishing to use the collection or to add to it
should get in touch with Dr. John Popenoe, Director, Fairchild
Tropical Garden, Miami, Florida.

W. C. Galinat
P. C. Mangelsdorf

3. Simple dominance of a day-neutral-like condition in an
$F_2$ generation of a corn-teosinte hybrid.

The distribution of anthesis dates in the $F_2$ of a cross be-
tween Gaspé Flint and Amecameca teosinte is bimodal with a
large peak in the middle of July and a small peak in the
middle of August. An organization of the data on the basis
of these two months separates the two peaks and reveals an
almost perfect 3:1 ratio, as follows:

<table>
<thead>
<tr>
<th>Anthesis Date</th>
<th>Frequency</th>
<th>Anthesis Date</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 6</td>
<td>2</td>
<td>August 2</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>April 4</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>9</td>
<td>July 4</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>17</td>
<td>August 6</td>
<td>3</td>
</tr>
<tr>
<td>14</td>
<td>5</td>
<td>September 8</td>
<td>5</td>
</tr>
<tr>
<td>16</td>
<td>6</td>
<td>October 10</td>
<td>2</td>
</tr>
<tr>
<td>18</td>
<td>3</td>
<td>December 12</td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>2</td>
<td>January 14</td>
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</tr>
<tr>
<td>22</td>
<td>2</td>
<td>February 16</td>
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</tr>
<tr>
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<td>3</td>
<td>March 18</td>
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<tr>
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<td>3</td>
<td>April 20</td>
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<tr>
<td>28</td>
<td>2</td>
<td>May 22</td>
<td>0</td>
</tr>
<tr>
<td>30</td>
<td>3</td>
<td>June 24</td>
<td></td>
</tr>
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<td><strong>TOTALS</strong></td>
<td><strong>61</strong></td>
<td><strong>20</strong></td>
<td></td>
</tr>
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</table>

The strong effect of Gaspé Flint germplasm in producing a
day-neutral-like condition for flowering of just the main
stalk, even in the presence of id id has been found by
Brawn (MNL, 1963). Likewise in our segregation from Gaspé
Flint x teosinte, many of the plants which flowered early
in July on the main stem, continued to grow tall tillers
which flowered about a month later, in August. The anthesis
dates reported are only for the main stems.

Much of the material from this segregation has promise for
the early synthesis of a 'day-neutral' type of teosinte of
possible agronomic, genetic and evolutionary importance.

W. C. Galinat