

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<sub>2</sub> generation of a corn-teosinte hybrid.

The distribution of anthesis dates in the F<sub>2</sub> of a cross between Gaspé Flint and Amecameca teosinte is<sup>2</sup> 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:

<u>Anthesis Date</u>	<u>Frequency</u>	<u>Anthesis Date</u>	<u>Frequency</u>
July 6	2	August 2	1
8	4	4	1
10	9	6	2
12	17	8	3
14	5	10	5
16	6	12	2
18	3	14	2
20	2	16	0
22	2	18	1
24	3	20	1
26	3	22	1
28	2	24	0
30	3	26	0
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TOTALS	61		20

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