

The backcross program has been continued. Selections from the seventh backcross will be tested in 1960; F<sub>2</sub> segregation from the eighth backcross will be selected.

### Growth Abnormalities in Segregating Progeny of Snap Bean Crosses

W. A. Frazier

Segregating progeny of crosses of Blue Lake Pole x bush beans have shown a wide range of abnormalities such as mottles, leaf distortions, leaf necrosis, and lethals (albinos). With continued use of Blue Lake as recurrent parent in a backcross program, these abnormalities have been greatly reduced. It appears that over the long period within which bean varieties have been evolved there has been a tendency for "isolating" mechanisms to develop, in which hybridization and recombination results in various abnormalities reminding one of progeny behavior of certain species crosses in plants. Both nuclear and cytoplasmic factors appear to be involved.

Segregating progeny of backcross-derived-bush beans from Blue Lake x common bush beans may be expected to show the abnormalities observed in the early Blue Lake pole x common bush progeny.

### Memorandum to American Snap Bean Breeders Regarding Snap Beans for Observational Trial in 1960 (1)

James C. Hoffman

The 28 members of the Southern Cooperative Snap Bean Trials located in 13 Southern States are now making plans for snap bean trials in 1960. It will be necessary to get seed to several of the cooperators in Florida early in February. So, February 15 is set as the latest date for receiving entries.

We would like to have your entries of recently introduced varieties and advanced breeding lines that are approaching introduction. Such varieties and lines will be placed in the observational trials the first year, and later in the replicated trials if requested by the cooperators. Both types will be considered for the replicated trials the following year.

Since several of the cooperating experiment stations plant two crops of snap beans each year, the total amount of seed of the bush types needed for

(1) Editors note: While the EIC report cannot reach members in time to be effective in exchange of information for early spring plantings it is felt members will be interested in operation of the Southern Cooperative Snap Bean Trials.