

maturity than those developing from bulbs held in warm storage nor that they were more thrifty in any respect. As a matter of fact, the opposite was true, as will appear later.

Flower Production.—Figure 2 shows both average flower production for the various lots and distribution of the flowering season.

In respect to number of flowers, it was found that duplicate plats differed a great deal, this being particularly true for the cool treatments. Averages of the duplicate plats failed to show the more abundant flower production characteristic of warm treatments, which was definitely established by the second year's tests.

Figure 2 shows that most of the flower crop was harvested in April, whereas usually heavy flowering continues well into May. Due to severe hail injury on April 28, many flowers and buds were cut then which otherwise would have been harvested in May. It will be seen that the 34-day cool storage treatment resulted in about one-fifth of the flower crop maturing ahead of the regular season of blooming; the 51-day treatment resulted in about two-fifths of the flowers being produced ahead of time, and the 65-day treatment resulted in about four-fifths of the crop coming in advance of the customary season. Treatments 4 to 6 resulted in a distribution of flowering over approximately six months of the year, and in the case of Treatment 5 the flower spread was fairly uniform.

EXPERIMENTS DURING 1933

METHODS

The first season's results were considered of sufficient importance to warrant continuing the work a second year, and it was decided to increase the number of procedures for handling bulbs during the summer rest period. July 1 was considered to be the beginning of the dormant season, since flowering was then completed and all old tops had died back.

The new schedule of treatments, starting July 6, required that some bulbs remain undug; others were to be dug and immediately replanted; others to be dug at 2-weeks intervals throughout the summer, placed in warm or cool storage for 30 days, and replanted; and still others to be dug at the beginning of the rest period and to receive either continuous warm or cool storage, or to receive periods of both warm and cool storage for various lengths of time, with cool storage following warm