

per bulb planted for the various treatments is shown in Figure 5. The average number of flowers from bulbs receiving warm storage was 3.75 per bulb, and the number from bulbs given cool storage was 2.5 flowers per bulb.

The effect of storage treatment of the bulbs on time of flowering is likewise shown in Figure 5.

It will be seen in Figure 5 that flowering of the plants which developed from bulbs held in warm storage occurred during the months of April and May. As usually is the case, the bulk of the flowers were cut during late April and early May. While many plants from bulbs given cool storage produced flowers in advance of this time, the bulk of flowering likewise took place during April and May.

Attention is first called to the fact that only part of the cool treatments resulted in any substantial number of early flowers. In fact, only four treatments gave as much as 20 percent of the total flower yield before April. These were Treatments 11 (with 32% early flowers), 12 (with 53%), 16 (25%), and 17 (21%). In three of these instances the bulbs had been placed in cool storage after August 15 and kept there for 30 days. In Treatment 16, although the bulbs were placed in cool storage earlier (August 5), it required more than the 30-day exposure to bring about a similar effect. The data indicate that if cool storage is to be effective in bringing about a large proportion of early flowers it must be applied late in the summer, preferably after August 15.

It will be noted that practically all treatments which induced early flowering likewise resulted in a considerable number of flowers appearing in June, a month later than the regular blooming period. Part of these late flowers were formed on a second crop of flower stalks. In many instances following winter-flowering and death of the old tops, one or more new stalks promptly developed, and these flowered after the normal season (see Fig. 1).

**Bulb Production.**—At the end of the season all bulbs were dug and counted. The plats planted with bulbs given no cool temperature treatment averaged 4.3 bulbs harvested for every bulb planted (all sizes included), and the plats planted with bulbs given cool storage averaged 4.9 bulbs. This difference is not great enough to be significant. However, in those plats planted with bulbs stored for 30 days at warm temperatures (Treatments 3-7) an average of 3.8 bulbs was harvested per bulb