

seven weeks earlier than those held from July to September in common storage.

Townsend and Lobdell (8) kept Easter lily bulbs in a household refrigerator from July 22 until September 2 and then planted them. Plants from these bulbs made quick growth, began blooming on November 14 and continued to bloom for more than a month. The stalks died back during January, and later a second crop of stalks was formed which flowered in May. Plants from bulbs which did not receive cool storage grew much more slowly, and did not begin to flower until Easter.

EXPERIMENTS DURING 1932

METHODS

In 1932, all Easter lily bulbs were dug on August 1 and were held at prevailing temperatures for a period of 13 days before further treatment. At the end of that time 600 bulbs having a diameter of 1 to 1½ inches were selected for the tests. These were divided into 12 lots of 50 bulbs each, two lots to be used for each of six different methods of treatment. The six treatments were as follows: (1) Planted at once, (2) given 44 days additional storage at outdoor temperatures before planting, (3) given 21 days cool storage (40° F.) and planted, (4) given 34 days cool storage, (5) 51 days cool storage, and (6) 65 days cool storage. So far as temperature is concerned these treatments were essentially as follows:

- Treatment 1. Warm temperatures only.
- Treatment 2. Warm temperatures only.
- Treatment 3. Cool temperatures 21 days.
- Treatment 4. Cool temperatures 34 days.
- Treatment 5. Cool temperatures 51 days.
- Treatment 6. Cool temperatures 65 days.

During storage all bulbs were covered with dry sand. Warm storage was provided by the space beneath the laboratory building which was both protected from the weather and well ventilated. Cool storage was provided by the refrigeration facilities of the Leesburg Municipal Plant.

Following the treatment all bulbs were planted similarly in beds of Norfolk fine sand, duplicate lots being planted in separate beds. Depth of planting was approximately four inches and bulb spacing about 8 or 9 inches each way.