

Reviews and Abstracts

Light and Plant Growth. 1959. By R. van der Veen and G. Meijer. MacMillan Co. 161 pages. \$8.50.

This outstanding book by two leading plant physiologists from the Netherlands brings us up-to-date on what is now known about the various relationships between light and plant growth. It includes discussions of photosynthesis, phototropisms, photoperiodism, and the effects of light on germination and dormancy in plants. The last chapter deals with different practical horticultural techniques for manipulating artificial light in the growing of plants in the greenhouse or the home.

The authors' very readable presentation of a rather technical subject will be understandable to anyone with an interest in plants and just a basic knowledge of plants.

New Jersey Apple and Peach Surveys. 1959. By J. M. Fenton and H. R. Pool, Jr. New Jersey Crop Reporting Service Circular No. 410. 43 pages.

This detailed survey of apples and peaches of New Jersey was made in 1957. It includes numbers of trees by age and variety for Pennsylvania, Maryland, Virginia, West Virginia and New York, as well as for New Jersey.

Apples. The leading summer variety in New Jersey is reported to be Starr, with about 44% of the total for that season; Twenty Ounce is second and N.J. No. 2 and No. 3 are increasing in importance. Delicious is the leading September variety (60%) and McIntosh is second. Rome Beauty leads in October (50%) and for all seasons. Stayman is a strong second in October

and for all seasons. The most heavily planted during the 1950-56 period were Delicious, Red Rome, Jerseyred, Golden Delicious and Starr.

Peaches. The leading peach in New Jersey for July is Jerseyland (25%), with Redhaven second and Sunrise third. In August, Sunhigh leads (20%), followed by M. A. Blake and Triogem. Elberta leads in September (38%), followed by Rio-Oso-Gem, Hale and Brackett. Although Elberta leads for all seasons, it has dropped from 30.6% in 1937 to 10% of all peach trees in New Jersey in 1957. The most heavily planted varieties in 1955 and 1956 were as follows: July—Redhaven, Jerseyland, Sunrise; August—M.A. Blake, Sunhigh, Summerqueen; September—Rio-Oso-Gem, J. H. Hale and Elberta.

Preliminary Evaluation of Domestic and Introduced Fruit Plants. 1958.

By S. A. McCrory. S. Dak. Agr. Exp. Sta. Bul. No. 471. 39 pages.

Listed in this bulletin from South Dakota are a number of native and imported fruits including apple, crab apple, pear, sand cherry and apricot species and varieties. These are part of a fruit collection being maintained at the South Dakota State College in Brookings. The planting includes species collected and brought back by Dr. N. E. Hansen from Asia and Europe, native species he collected from the wild, or crosses made by Dr. Hansen.

In the bulletin are found descriptions of the varieties and species as well as tables for the apples and crab apples showing the average date of bloom, susceptibility to fire blight and scab, and time of maturity, size and color of the fruit.