Registration of Improved Cotton Varieties, IV

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REPORTS on the registration of improved cotton varieties were published in this JOURNAL in December 1936, January 1940, and March 1943. Two additional varieties, described in the paragraphs that follow, were submitted and approved for registration.

Empire, Reg. No. 38

Empire was selected at the Georgia Experiment Station from Stoneville 2 by W. W. Ballard in 1935 and the original plant was probably an accidental hybrid between Stoneville 2 and an unknown variety. For several years, reselections were made from progeny rows and from 1939 forward except for 2 years during the war, plants in the progeny rows have been selfed. Reselections for continuing the variety are made from progeny rows each year. The remainder of the seed from the best progeny rows is bulked and increased for 4 years, the fourth year of increase being released to the public. This variety represents a joint effort of the Georgia Agricultural Experiment Station and the Bureau of Plant Industry, Soils, and Agricultural Engineering.

The plants are stocky and compact, fruiting branch-}

Lankart-57, Reg. No. 37

Lankart-57 was selected from a double cross, (41 \times 42)F_1 \times (48 \times 101)F_3, made in 1929 in which 101 was an off-type, early maturing selection of Lankart and the other strains were straight Lankart selections. Reselection from selfed bolls was practiced through the F_4 generation when strain 57 appeared to be superior and subsequent selections have been made from it. This variety appears to be well adapted to Texas conditions and similar areas where rainfall is not too abundant. Among varieties adapted to such areas it would be classed as medium early.

Plants are medium in height, stocky, and spreading, with two to three vegetative branches; fruiting branches are long, internodes medium short. Leaves are medium heavy, thick, and dark green. Stems are slightly hairy. Bolls are rather large, spherical, short pointed, with considerable storm resistance. Average staple length is one inch, lint percentage 37 to 38; seeds are medium in size with white fuzz. About midseason in maturity and not highly resistant to Fusarium wilt.

Registered under a cooperative agreement between the Bureau of Plant Industry, Soils, and Agricultural Engineering, U. S. Dept. of Agriculture, and the American Society of Agronomy. Received for publication October 17, 1949.

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