

wilt and anthracnose in Louisiana indicate disease resistance as good or better than 'Charleston Gray' and 'Jubilee' (Table 2). At locations in Louisiana where 'Red-N-Sweet' was grown next to 'Calhoun Gray', a cultivar with high type resistance to Races

0 and 1 of fusarium wilt, field resistance was similar for the two cultivars.

Seed availability

The Hollar Seed Company, Rocky Ford, CO 81067, has been granted exclusive rights

to produce seed of 'Red-N-Sweet', which has been registered with the Plant Variety Protection Office as PVPO no. 8700078.

Literature Cited

1. Maerz A. and P.M. Rea. 1930. Dictionary of color. McGraw-Hill, New York.

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'Royal Blackeye' Southernpea

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'Royal Blackeye' southernpea [*Vigna unguiculata* (L.) Walp.] was released in 1985 by the Louisiana Agricultural Experiment Station. This southernpea was developed primarily for local fresh market use. The purple hulls and blackeye seed coat pattern combination is unique among released cultivars.

Origin

'Royal Blackeye' was developed using the pedigree method of breeding. The final cross was made in 1966 between breeding lines L228 and L245. The pedigree of 'Royal Blackeye' is shown in Fig. 1.

Description

'Royal Blackeye' has an indeterminate, short vine plant habit. The pods are set in the upper portion of the plant. Pods are straight and purple when green mature, pendant, and average 185 mm in length. Dry seeds average 8.3 mm long, are oval, and have an average 100-seed weight of 19 g. Mature green peas have a smooth, light-green testa with a black eye. The mature green stage is reached in 57 to 63 days, and shell-out at this time is about 60%.

The breeding process for 'Royal Black-

eye' involved only field screening for naturally occurring viral and bacterial leaf blight diseases that can be crop limiting in the South and Southeast. Results from the Regional Southernpea Cooperative Trials generally indicated that 'Royal Blackeye' has field tolerance to bacterial leaf blight and mosaic virus. However, virus symptoms were noted in one location in 1984.

Organoleptic evaluations were conducted in 1984 in cooperation with the Dept. of Horticulture and Forestry and the Dept. of Food Science at the Univ. of Arkansas. As a canned product, the average overall acceptance score, rated on a scale of 1 (disliked extremely) to 10 (liked extremely), was 7.7 compared to 7.4 for 'Corona', 8.0 for 'Mississippi Cream', 7.5 for 'Mississippi Silver',

and 8.4 for 'Coronet'. As a frozen product, the average score was 7.9 compared to 7.7 for 'Corona', 8.1 for 'Mississippi Cream', 7.5 for 'Mississippi Silver', and 8.1 for 'Coronet'.

Yield of 'Royal Blackeye' has been evaluated in replicated trials at the Calhoun Research Station and as an entry for 3 years in the Regional Southernpea Cooperative Trials. In the Cooperative Trials, average yield for 'Royal Blackeye' compared favorably with 'Pinkeye Purple Hull'. In 5 years of trials at Calhoun, 'Royal Blackeye' averaged 8473 kg·ha⁻¹ in fresh pod yield compared to 6316 kg·ha⁻¹ for 'Pinkeye Purple Hull', which is the cultivar most commonly grown in Louisiana. 'Magnolia', a standard blackeye type, averaged 7327 kg·ha⁻¹ in two of the trials.

Availability

Sun Seeds has purchased exclusive rights to 'Royal Blackeye' and has applied for Plant Variety Protection. Information regarding purchase of this seed may be obtained by contacting Sun Seeds, 2320 Technology Parkway, Hollister, CA 95023. Breeders' seed can be obtained by contacting D.M. Lancaster, Calhoun Research Station, Louisiana State University Agricultural Experiment Station, Calhoun, LA 71225.

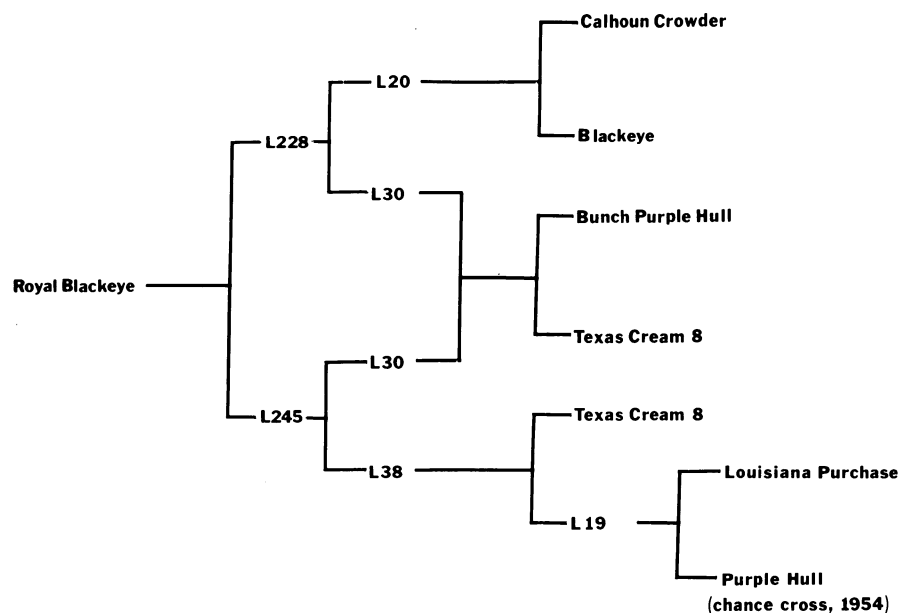


Fig. 1. Pedigree of 'Royal Blackeye' southernpea.

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