Registration of Crop Varieties

CLARK 63 SOYBEANS¹
(Reg. No. 39)

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'CLARK 63' soybeans (Glycine max (L.) Merr.) originated as a composite of 13 F₂ plant progenies from a cross between 2 backcrosses, [Clark (4) × S54-1714] × [Clark (6) × Blackhawk], in a cooperative program of the Illinois and Missouri Agricultural Experiment Stations and the U. S. Regional Soybean Laboratory. Prior to release, Clark 63 was identified by the designation SL1. It is classed in maturity Group IV and is adapted to the area where Clark is grown. Clark was registered in 1958 (Reg. No. 20, Agron. J. 50: 690).

Distinguishing characteristics of Clark 63: Flower—purple; pubescence—tawny; pod—brown; seedcoat—dull yellow; and hilum—black.

In these traits and in other respects, Clark 63 appears indistinguishable from Clark in the absence of disease. The distinguishing features are the high degree of resistance of Clark 63 to bacterial pustule caused by Xanthomonas phaseoli var. sojense and to Phytophthora rot caused by Phytophthora megasperma var. sojae. The resistance to pustule is due to a single recessive gene transferred from the CNS variety through strain S54-1714, which is a selection from Clark × [(Lincoln (2) × Richland) × (Lincoln × CNS)]. The Phytophthora resistance is due to a single dominant gene transferred from the Blackhawk variety.

Regional tests indicate that Clark 63 performs similarly to Clark in the absence of disease, whereas when Phytophthora rot is moderate or severe the yield of Clark 63 is appreciably higher than that of Clark. No estimates are available for the effects of pustule on yield of the two varieties.

Clark 63 was released in 1963 in Illinois, Indiana, Iowa, Kansas, Missouri, and Ohio. The Missouri Agricultural Experiment Station is responsible for maintenance of breeder seed.

Other information on Clark 63 has been published:


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