

## Soybean

### Variety SL 955

Soybean variety, SL 955 has been developed by Pulses Section, Department of Plant Breeding and Genetics, Punjab Agricultural University, Ludhiana, from the cross, SL 599 x PK 1283 following pedigree method of selection. SL 599 is an advance breeding line developed by PAU Ludhiana while PK 1283 is a line from G. B. Pant University of Agricultural Science and Technology, Pantnagar. Both the parental lines were resistant to yellow mosaic disease. SL 955 was identified for Northern Plain Zone in the Varietal Identification Meeting held during April 5-7, 2016 in 46<sup>th</sup> Annual Group Meet of AICRP on Soybean at the University of Agricultural Sciences, Dharwad (Karnataka). This variety was released and notified by the Central Sub-Committee on Crops Standards, Notification and Release of varieties for Agricultural Crops, Govt. of India vide notification No. 3-74/2019-SD.IV dated 28.10.2019 for commercial cultivation under timely sown irrigated conditions in North Plain Zone (NPZ) including Punjab, Haryana, Delhi, UP (Except Bundelkhand) and Bihar states of India. During testing in the All India Coordinated Research Trials for three years on 10 locations across the zone, on the basis of weighted the new variety gave an average grain yield of 2201 kg/ha with 26.9% increase over check, SL 688 (1733 kg/ha), 26.1% increase over PS 1347 (1746 kg/ha) and 37.2% increase over PS 1092 (1604 kg/ha). It was 4.3% better than other qualifying variety, SL 983 (2109 kg/ha).

It took about 126 days to mature ranging from 109 to 145 days over locations. Plants are light green with brown pubescence and white flowers. Average plant height is 63 cm. Its seeds are light in colour with brown hillum. It showed resistance to yellow mosaic disease, pod blight and *Rhizoctonia* aerial blight. It is moderately resistant to soybean mosaic disease. It has 100-grain weight of 8.8 g. The grains of this variety contain 18.9% oil and 38.9% protein. New variety has more nodules and leghaemoglobin content (1.98 mg/g fresh weight of nodules).

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### Variety SL 979

Soybean variety, SL 979 has been developed by Pulses Section, Department of Plant Breeding and Genetics following pedigree method of selection from the cross, SL 525 x DS 98-14. SL 525 is a variety released for Northern Plain Zone while DS 98-14 is a yellow mosaic disease resistant variety from IARI, New Delhi. SL 979 was identified for North Plain Zone in the Varietal Identification Meeting held on May 10, 2015 during 45<sup>th</sup> Annual Group Meet of AICRP on Soybean held at PDKV, Akola, Amravati, Maharashtra. This variety has been released and notified by the Central Sub-Committee on Crops Standards, Notification and Release of Varieties for Agricultural Crops, Govt. of India vide notification No. 3-74/2019-SD.IV dated 28.10.2019 for commercial cultivation under timely sown irrigated conditions in North Plain Zone (NPZ) including Punjab, Haryana, Delhi, UP (Except Bundelkhand) and Bihar states of India. SL 979 was tested in the All India Coordinated Research Trials from the year 2012-14 in 13 trials the zone. On the basis of weighted mean, it gave average grain yield of 2335 kg/ha with 15.5% increase over check, SL 688 (2021 kg/ha), 9.7% increase over PS 1347 (2128 kg/ha) and 65.4% increase over Bragg (1412 kg/ha). It was 2.3% and 3.6% better than other qualifying varieties, SL 982 and DS 2705, respectively.

The average maturity of SL 979 is about 130 days with a range of 120-136 days depending upon sowing date at different locations. Plants of this variety light green with brown pubescence and white flowers. Its average plant height is 69 cm. Seeds are light yellow in colour with brown hillum. It is tolerant to yellow mosaic disease and soybean mosaic virus. Its grains are medium bold with 100-grain weight of 11.3 g. The grains of this variety contain 20.6% oil and 37.9% protein. New variety has more nodules, nodule dry weight and leghaemoglobin content (4.16 mg/g fresh weight of nodules) than the check varieties.

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