High Yielding Rice Variety developed by SKUAST-Jammu in 2020

1. Jammu Basmati 118

1. Yield potential of 45q/ha which is 20-25% higher than Basmati 370
2. It has outperformed the checks by registering a yield superiority of 15.67 and 29.95 per cent over Pusa Basmati 1 and Pusa Basmati 1121, respectively in AICRP trials.
3. An early maturing variety which matures 25 days earlier to Basmati 370
4. Jammu Basmati 118 is a lodging resistant with plant height of 130-135 cm.
5. Jammu Basmati 118 (IET 27733) has high hulling (79.77%), milling (71.70%) and head rice recovery (HRR) (61.00%).
6. Jammu Basmati 118 fulfills all the international standards of basmati export
7. The variety is moderately resistant to bacterial blight, leaf blast, sheath rot and brown spot
8. Basmati 118 showed moderate resistance to stem borer and leaf folder
9. Long slender grain with grain length on average 7.20 mm
10. Cooked grain non-sticky aromatic with amylose content of 23%.
1. Basmati 123 (IET 27718) is having yield potential of 40q/ha which is 15-20 percent more than yield of Basmati 370

2. Outperformed the checks by registering a yield superiority of 14.04 per cent over Pusa Basmati 1121 in national trials

3. The variety has high hulling (79.03%), milling (73.49%) and head rice recovery (HRR) (69.09%)

4. Panicle compact.

5. Grain, long slender, aromatic with average kernel length 6.8mm

6. Jammu Basmati 123 meets all the international standards of basmati export

7. moderately resistant to Bacterial blight, leaf blast and brown spot

8. This variety can be an alternative of Basmati 370 in Jammu and Kashmir

9. Jammu Basmati 123 is well performing in all the Geographical Indication (GI) districts of basmati rice such as Jammu, Samba and Kathua.
High Yielding Rice Variety
developed by
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Jammu Basmati 138

1. Basmati 138 (IET 27725) is having yield potential of 42q/ha which is 20-25 percent more than the potential yield of Basmati 370.
2. It has outperformed the checks by superiority 19.02 percent over Pusa Basmati 1121 in AICRP trials.
3. The variety has high hulling (78.68%), milling (72.49%) and head rice recovery (HRR) (66.59%).
4. Basmati 138 meets all the international standards of basmati export.
5. Bacterial blight, leaf blast and brown spot are serious and major diseases in our state and Basmati 138 (IET 27725) was found moderately resistant to these diseases.
6. Basmati 138 (IET 27725) showed moderate resistance to stem borer and leaf folder compared to checks and other entries tested in the trials.
7. Grain long slender with grain length 6.81 mm.
8. Cooked rice grain non-sticky with medium amylose content of 23.2%.
10. Test weight is 23.0 g with score of 5.
1. Jammu Lentil 71 has yield potential of 16-18 qtl/ha
2. Exhibits 50.7% superiority of higher grain yield over check variety PL 406
3. The variety is 12-15 days earlier in maturity over check variety PL 406
4. Resistant to diseases like wilt, root rot and also resistant to pod borer and aphids
5. Climate resilient variety of lentil due to earlier in maturity and matures in 140-145 days
6. Synchronous in maturity, determinate growth habit and no pod shattering takes place
7. Highly preferred and accepted by the farmers due to small seeds i.e. microsperma type.
8. Microsperma seeds, light brown in colour with cotyledon pink in color
9. High protein content that is 24%
10. Lodging resistant due to dwarf plant stature of 40-50 cm.
1. Climate resilient variety with maturity period 122-125 days.
2. Yield potential of 16-16.5 q/ha.
3. An exhibited earlier in maturity by 25-30 days over regional check PL 406.
4. In general, 17.21% higher in grain yield over regional check PL 406.
5. Field resistant to Wilt, Root Rot, Pod Borer and Aphids.
6. Suitable for cultivation under rainfed ecology of Jammu region of Union Territory of J&K.
7. Seeds are microsperma type light brown in colour, very good choice of consumers.
8. High protein content (24%).
9. Lodging resistant due to dwarf plant stature of 50-60 cm.
10. Synchronous in maturity with determinate growth habit and having no pod shattering.
High Yielding Lobia/Rongi
Variety developed by SKUAST-Jammu in 2020
Jammu Lobia Super 60
(Lobia Super 60)

1. An extra early variety, matures 25-27 days
earlier as compared to local check.
2. Superiority of grain yield over local check 44 to
50%.
3. Grain yield potential is 12.0-12.5 q/ha.
4. Field Resistant to YMV, Fusarium oxysporum
and Pod borer.
5. Light brown colour grain of medium size with
1000 grain weight 120 -130 g.
6. Lodge resistant due to dwarf plant stature.
7. Synchronous maturity with determinate growth
habit.
8. Prolific pod bearing variety.
9. No pod shattering takes place.
10. 1000 grain weight is 120-130 g and seed size is
medium.
BR-104 is superior in grain yield in comparison to local check by 30-40%.
2. Grain yield potential is 6.0-8.0 q/ha.
3. 1000 seed weight lies between 250-350g.
4. Seed is bold and shining maroon in color.
5. On cooking, preparation is reddish and gives characteristic flavor.
6. Asynchronous flowering, white flower and solitary.
7. Indeterminate type with climbing habit.
8. Adopted to grow as intercrop with maize in kharif season.
9. Acclimatized to temperate zone.
10. Plant remains green till maturity.
1. Jammu Radish 45 (CR 45) has yield potential of 350q/ha with superiority over check by 20-25%.
2. Tap root snow white in color and invariably show root elongation of 30-40 cm under optimum environment.
3. Early in maturity as ready for marketing in just 40-45 days.
4. The variety is late bolting so provides a large buffer period for marketing to farmers.
5. Favors high cropping intensity sequences with crop rotation efficiency of 400-500%.
6. As root production crop, entire period is free from diseases and pests so ecofriendly variety.
7. Responds very well to organic nutrient management so recommended for organic cultivation.
8. Jammu Radish 45 (CR 45) is resistant to forking behavior.
9. A self-compatible open pollinated variety, flower white with tinge of violet streaks, prolific siliquae bearing.
10. Seed production potential under Jammu subtropics is
1. The proposed variety SJBB-01 is erect type.
2. It is a mid duration variety attaining plant height of 150-160 cm in open field conditions.
3. No. of pods/plant ranges between 75-80 with average pod length of 5-6 cm.
4. The seed germinates in 7-9 days after sowing and the variety gives first picking in 95 - 100 days.
5. It gives average yield of 80-100 q/ha with superiority over check 50%.
6. The variety can withstand harsh weather and cold climates and can be grown in high saline clayey soils.
7. The variety is performing consistently over the years at various locations of Jammu region.
1. Cherry tomato variety SJCT-01 can set fruits in hot temperature between 35.0 - 40.0 °C and cold set fruiting at temperatures 10 - 15 °C.
2. Shows field resistance to nematodes and moderately tolerant to fruit borer.
3. Suitable for cultivation under both open and protected conditions.
4. Average fruit yield: 300 - 350 q/ha with superiority over check by 15-20%.
5. SJCT-01 is high yielding and early type of variety, tolerant to insect pest and diseases in Jammu region.
High Yielding Walnut Variety developed by SKUAST-Jammu in 2020
Walnut variety GL0109 (Bhushan)

1. High yielding potential of 65+5.0 kg fruit nut per tree at age of 20± 1 year.
2. Bears fruit in clusters of 2-5.
3. Red blush on fruit hull.
4. Jumbo size fruit with thin shell and weak pad on suture.
5. Light brown kernel with recovery of 60+2.0%.
6. Adaptation range in the high altitude of 1700+200 metres.
7. Tolerant to anthracnose.
8. Bearing habit intermediate.
9. Early maturing at lower elevation.
10. Numerical rating for export related traits 9.25 out of 10 (J&K Walnut Exporter Association.)
1. SKJPP25 yields 48 kg/tree which was higher than popular commercial cultivars. It was 29.73% more than Cv. Mahan, 45.45% more than Cv. Schley and 60% more than Cv. Burkett.

2. Oil content in SKJPP25 is 74.87% which was 16.87% more than Mahan, 17.17% more than Schley and 12.25% more than Burkett.

3. Kernel weight of SKJPP25 is 6.41 g which is 71.61% more than Mahan, 135.6% more than Schley and 137.4% more than Burkett.

4. Nut weight of SKJPP25 is 8.08 g which is 50.46% more than Mahan, 110.97% more than Schley and 86.60% more than Burkett.

5. Shell thickness is 1.40 mm which is 17.65% more than Mahan, 38.61% more than Schley and 12.90% more than Burkett.

6. SKJPP 25 is high in vitamin content (0.67 mg/100g Vit. B1, 0.24 mg/100g Vit. B6 and 25.23 mg/100g Vit. B9)

7. SKJPP 25 is high in mineral content (73.34 mg/100g Ca, 122.93 mg/100g Mg, 4.84 mg/100g Zn, 15.50 mg/100g Cu and 9.47 mg/100g Mn)

8. It is free from walnut weevil.