CROP VARIETIES DEVELOPED BY SKUAST-JAMMU

Directorate of Research
Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu, Main Campus, Chatha- 180 009 (J&K)

CROP VARIETIES DEVELOPED
BY SKUAST-JAMMU

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SKUAST-Jammu has developed 28 varieties in different field and horticultural crops, with improved agronomical traits including resistance to insect pests and diseases. One variety of rice Basna-Mati (Traditional variety of Basmati) is also being maintained by School of Biotechnology. The released varieties include 05 of rice, 05 of wheat, 02 of maize, 08 of oilseeds, 01 of pulses, 06 of vegetables and 01 of mango fruit crops.

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FOREWARD

Biotic and abiotic stresses with passage of time cause breakdown of genetic potential of newly released varieties. So development of high yielding varieties remain a continuous process to maintain high productivity per unit area. With the climate change experiences it has become imperative that varieties are associated with features of resilience against climatic stresses to give sustainable production. Magnitude of climatic stresses varies from place to place, necessitating development of location specific varieties. SKUAST Jammu, which has mandate for Jammu province, has so far developed 28 varieties to cater to the needs of farmers of this area. The information on these varieties has been compiled by Directorate of Research in the form of a booklet, "Crop varieties developed by SKUAST-Jammu". This will serve as a ready reckoner for field functionaries, students and farmers to know about the genetic potential of these varieties. I appreciate the efforts of Directorate of Research for compilation and publication of this booklet.

(Prof. Pradeep K. Sharma)

INDEX

Rice: Basmati 370

1. Rice: Basmati 370

Year of Notification	1976
Parentage	Selection from land races of Basmati
Breeding method	Pure line selection
Production conditions	Transplanted
Recommended areas	Basmati growing areas Jammu, Samba and Kathua districts of Jammu region
Duration	150-160 days
Yield	25±5 q/ha
Characteristics	▪ Long slender grains (6.6± to 0.4 mm) ▪ Highly aromatic grain ▪ Non sticky ▪ Soft texture

Ranbir Basmati (IET 11348)

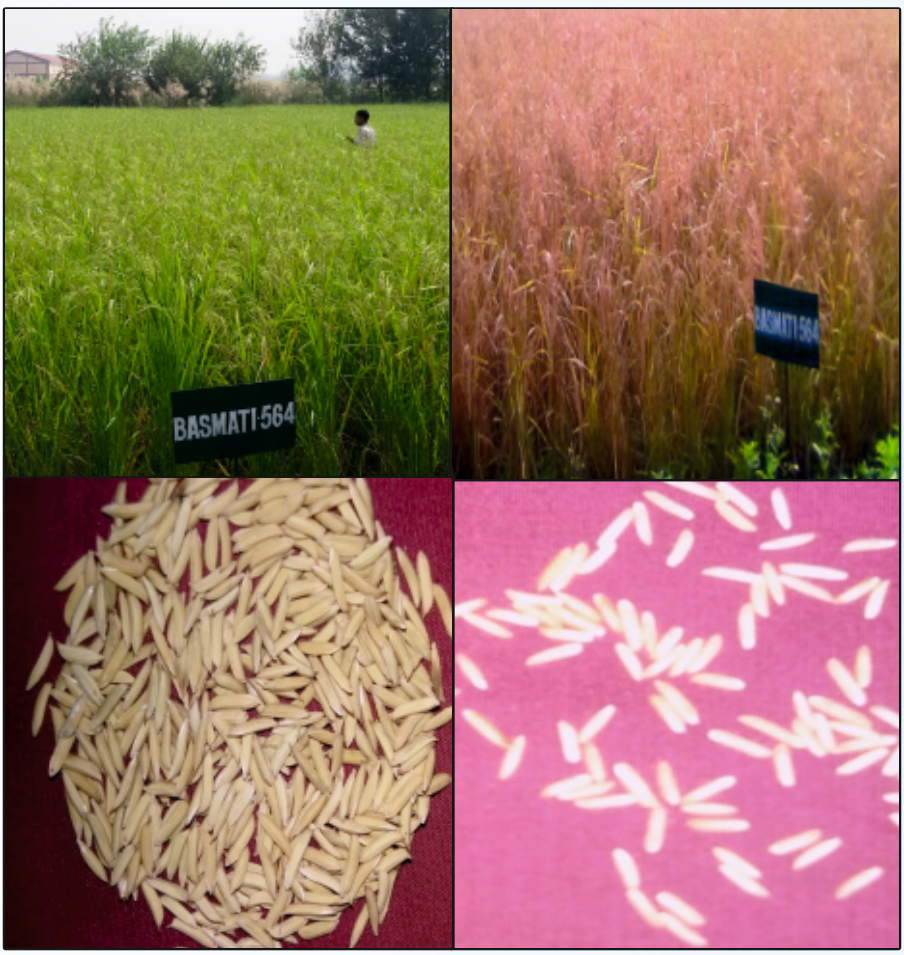
2. Ranbir Basmati (IET 11348)

Year of Released	1995
Parentage	Selection from Basmati 370
Breeding method	Pure line selection
Production conditions	Irrigated Transplanted
Recommended areas	Suited to the non-basmati growing areas like Rajouri and Poonch districts because of its earliness in addition to Jammu, Samba and Kathua
Duration	120-125days
Average yield	25-30 q/ha
Characteristics	▪ Matures in 20-25 days earlier to Basmati 370 ▪ Long slender grains ▪ Quality at par with Basmati 370

Saanwal Basmati (IET 15815)

3. Saanwal Basmati (IET 15815)

Year of Release	2005
Parentage	A secondary selection from Basmati 370
Breeding method	Selection
Production conditions	Irrigated Transplanted
Recommended areas	Irrigated areas of Jammu, Samba and Kathua districts
Duration	140-145days
Average yield	30-35 q/ha
Characteristics	▪ Having compact and straight panicle ▪ Matures in, 7-10 days earlier to Basmati 370 ▪ Moderately resistant to shattering, slightly responsive to fertilizers than basmati 370 ▪ Quality parameters at par with Basmati 370 ▪ Has a yield advantage of 10.0 to 15.0 % over Basmati 370



Basmati 564 (IET 17269)

4. Basmati 564 (IET 17269)

Year of Release	2014
Parentage	Selection from basmati
Breeding method	Selection
Production conditions	Irrigated Transplanted
Recommended areas	Irrigated areas of Jammu, Samba and Kathua districts
Duration	130-135 days
Average yield	35-40 q/ha
Characteristics	▪ Has grain quality at par with that of Basmati 370 ▪ Resistant to lodging and other biotic stresses ▪ Has a yield advantage of more than 15% over Basmati 370 ▪ Has semi-dwarf plant type

SJR 5 (IET 19972)

5. SJR 5 (IET 19972)

Year of Release	National Release Notified in 2011 for cultivation
Parentage	IR25393-57/RD23//IR27316-96///SPRLR77205-3-2/ SPRLR79134-51-2
Breeding method	Hybridization followed by pedigree selection
Production conditions	Irrigated ecology
Recommended areas	J&K, Haryana and Tamil Nadu
Duration	135 days
Average yield	52-55 q/ha
Characteristics	• Has head rice recovery (HRR) 68.25% • Grain len gth 6.96 mm, amylose content 24.57% and soft gel consistency • Resistant to leaf blast and moderately resistant to brown spot & bacterial leaf blight • Yield potential: 55-60 q/ha • Alternative to Jaya and PC 19

Jammu Basmati 129 (SJR-129-2-2)

6. Jammu Basmati 129 (SJR-129-2-2)

Year of Release	2017
Parentage	IR75483-385-2-2/PB-1/P2511
Breeding method	Hybridization followed by pedigree method of selection.
Production conditions	Transplanted
Recommended areas	Basmati growing belt of Jammu, Samba and Kathua Districts
Duration	130-135 days
Average yield	40±5 q/ha
Characteristics	▪ Short stature, white coloured ligule, erect leaf flag, well exerted panicles with deflexed curvature ▪ Long slender grain of 7.3 mm coupled with other desirable basmati quality characters like HRR (56.3%), amylose content (22.4%) soft gel consistency and good aroma ▪ Resistant to lodging due to its short stature and moderately resistant to stem borer, leaf folder and bacterial leaf blight ▪ Matures 15 days earlier than Basmati 370 ▪ Grain yield superiority of more than 15% over Basmati 370

Basna Mati (Traditional Variety)

7. Basna Mati (Traditional Variety)

Variety	Basna Mati
Parentage	Local land race of Basmati. Popular among farmers
Breeding method	Pure line selection
Production conditions	Transplanted
Recommended areas	Basmati growing areas Jammu, Samba and Kathua districts of Jammu region
Duration	150-155 days
Plant height	155-160 cm
Average Yield	35-37 q/ha
Characteristics	• Highly aromatic • Soft texture grains • Non-sticky grains • Long slender grains of size 6.8±0.2 mm

Grain quality traits of Basna Mati and Basmati 370

	Length (mm)	Breadth (mm)	L/B ratio	KLAC (mm)	ASV	Volume expansion ratio	Water uptake ratio	Gel consistency (cm)	Amylose (%)	Cooking time (Min)
Basna Mati	7.150	1.644	4.34	12.3	5	3.38	1.07	8.7	24.6	12
Basmati 370	6.898	1.730	3.98	13.1	4	3.68	1.05	4.2	22.4	15

Wheat: RSP 81

8.Wheat: RSP 81

Year of Released	1999
Parentage	Magpie 's'/ Tessopeco 76
Breeding Method	Selection
Production conditions	Timely sown rainfed conditions
Recommended areas	Rainfed areas of Jammu region
Duration	150-160
Average Yield	30-35 q/ha
Characteristics	• Has strong root system and stiff straw, beneficial for drought resistance • Easy threshability and has white glumes with profuse awns • Grains are attractive, amber, medium-sized with 1000-grains weight of about 38g • Moderately resistant to lodging, yellow and brown rust

Wheat: RSP 303

9.Wheat: RSP 303

Year of Released	2001 (State level)
Parentage	DT35/HD2428
Breeding Method	Modified pedigree
Production conditions	Normal sown irrigated conditions
Recommended areas	Rainfed areas of Jammu region
Duration	140-150
Average Yield	45-50 q/ha
Characteristics	• Semi dwarf variety • Moderately resistant to lodging, yellow and brown rust • Has strong root system and stiff straw, beneficial for drought resistance • Easy threshability and has white glumes and profuse awns • Grains are attractive, amber, medium sized with 1000 grains weight of about 36g

Wheat : RSP 561

10. Wheat : RSP 561

Year of Released	2015
Parentage	HD 2637 /*Ae. crassa*/ HD 2687
Breeding Method	Modified pedigree
Production conditions	Timely sown irrigated conditions
Recommended areas	Plains and mid-hills of Jammu region like Jammu, Samba, Kathua, Udhampur, Reasi, Rajouri and Poonch districts
Duration	130-150 days
Average Yield	42-50 q/ha
Characteristics	▪ Extra long spike and green apiculus. ▪ Semi erect, takes 80-90 days to 50% flowering. ▪ Yield advantage of 15-30 per cent over PBW 343 ▪ Moderately resistant to lodgin . ▪ Moderately resistant to all three rusts (yellow/ stripe, leaf and stem rust) ▪ Excellent grain charact ers (semi hard to hard texture and amber coloured) and good chapatti making quality with 10.33% protein ▪ High iron, zinc and manganese content in grain than the check ▪ Possesses terminal heat tolerance with high canopy temperature depression and low reduc tion in chlorophyll under late sown condition ▪ Potential to withstand present late heat conditions prevailing due to climatic change ▪ Can with stand elevated temperature during flowering and maturity ▪ Can be an alternative to PBW 343

Wheat: Jammu Wheat 584 (JAUW 584)

11. Wheat: Jammu Wheat 584 (JAUW 584)

Year of Released	2017
Parentage	PDW233/ *Ae. crassa* //PBW 343
Breeding Method	Modified pedigree
Production conditions	Timely sown irrigated conditions
Recommended areas	Irrigated plain and mid hill areas of Jammu region like Jammu, Samba, Kathua, Udhampur, Reasi and Rajouri districts
Duration	140-155 days
Average Yield	45-52 q/ha
Characteristics	• Bold grain, semi hard to hard texture, amber colour with high protein content (12.06%) • Moderately resistant to yellow and brown rusts

Wheat: Jammu Wheat 598 (JAUW 598)

12. Wheat: Jammu Wheat 598 (JAUW 598)

Year of Released	2017
Parentage	HD 4702/ *Ae.sharonensis*/ HD 2687
Breeding method	Modified pedigree
Production conditions	Rainfed areas of Jammu province
Recommended areas	Rainfed plain and mid hill areas of Jammu region like Samba, Kathua, Udhampur, Reasi and Rajouri
Duration	155-165 days
Average Yield	40-42 q/ha
Characteristics	• Has excellent grain characters (bold grain, semi hard to hard amber colour seed), high protein content (12.8%) over the check (PBW 175 and PBW 644) • Moderately resistant to lodging • Moderately resistant to yellow, brown rusts and blight disease

Maize: PHM 12 (JPMH 4)

13. Maize: PHM 12 (JPMH 4)

Year of Released	2013
Parentage	B 1-19 x B 1-20
Breeding method	Hybridization
Production conditions	Mid hill ecology
Recommended areas	Irrigated plains of Jammu province
Duration	130-135 days
Average Yield	45-50 q/ha
Characteristics	• Yellow single cross maize hybrid variety • Single cross hybrid with wide adaptability • Has feature like small leaf angle, straight leaf attitude, canico-cylindrical ear shape and semi flint yellow grain type • High shelling 85.64%, with average cob length of 20.75 cm and good test weight of 334.6g

Maize: Jammu Maize Composite 3 (PMSY 3)

14. Maize: Jammu Maize Composite 3 (PMSY 3)

Year of Released	2017
Parentage Breeding method	Composites of inbred lines
Production conditions	Mid hill ecology
Recommended areas	Mid hill of Jammu province
Duration	130-135 days
Average Yield	50-60 q/ha
Characteristics	• Yellow grain composite, small leaf angle, semi-drooping leaf attitude, canico-cylindrical ear shape and semi flint yellow grain type • High shelling 84.33% with average cob length of 22.4 cm and test weight of 314.3 g • Moderately resistance to Turcicum and Maydis leaf blight, stem borer and blister beetle

Toria: RSPT-1 (TCN-12)

15. Toria: RSPT-1 (TCN-12)

Year of Released	2005
Parentage Breeding method	Selection from local germplasms, Mass selection
Production conditions	Timely sown irrigated/ rainfed conditions
Recommended areas	Subtropical areas of Jammu division like Jammu, Samba, Kathua and some parts of Udhampur and Reasi Districts
Duration	80-90 days
Average Yield	6-8 q/ha
Characteristics	• Has broad leaves, resistance to lodging and responsive to fertilizers • Early maturity • Contain 40 per cent oil content • Resistant to white rust and possesses moderate resistance to Alternaria blight

Toria: RSPT-2 (TCN-04-22)

16. Toria: RSPT-2 (TCN-04-22)

Year of Released	2007
Parentage	Selection from local germplasms
Breeding method	Mass Selection
Production conditions	Timely sown irrigated/ rainfed condition
Recommended areas	Sub tropical areas of Jammu Division like Jammu, Samba, Kathua and some parts of Udhampur and Reasi Districts
Duration	65-75 days
Average Yield	7-8 q/ha
Characteristics	• Has broad leaves, resistance to lodging and responsive to fertilizers • Matures one week earlier than RSPT-2 • Contains 41 per cent oil content • Resistant to white rust and Alternaria blight

Toria: Jammu Toria-6 (RSPT-6)

17. Toria: Jammu Toria-6 (RSPT-6)

Year of Released	2017
Parentage	RSPT-1 x RSPT-2
Breeding method	Intra-specific hybridization followed by selection
Production conditions	Early sown irrigated/rainfed conditions
Recommended areas	Sub tropical areas of Jammu division like Jammu, Kathua, Samba and some parts of Udhampur and Reasi Districts
Duration	85-90 days
Average Yield	10-12 q/ha
Characteristics	• Has narrow leaves, resistance to lodging, basal branching • Fits well in maize-toria-wheat rotation for rainfed areas and short duration rice-toria-wheat in irrigated areas • Contains 42 per cent oil content • Moderately resistant to aphid infestation, Alternaria blight and White rust

Raya : RSPR–01 (MCN–29)

18. Raya : RSPR-01 (MCN-29)

Year of Released	2005
Parentage	Brassica juncea x Diplotaxis muralis
Breeding method	Distant hybridization followed by pedigree method
Production conditions	Timely sown irrigated/ rainfed conditions
Recommended areas	Sub tropical areas of Jammu Division like Jammu, Samba, Kathua and some parts of Udhampur and Reasi districts
Duration	140-145 days
Average Yield	12-15 q/ha
Characteristics	• Has broad leaves • Resistance to lodging and responsive to fertilizers • Medium early maturity • Possesses primary branches/plant 8-12 and seeds/pod 20-25 • Contains 40 per cent oil content • Moderately resistant to white rust, aphids and Alternaria blight

RAYA: RSPR 03

19. RAYA: RSPR 03

Year of Released	2005
Parentage	Selection from the exotic collection
Breeding method	Pure line selection
Production conditions	Timely sown irrigated conditions
Recommended areas	Subtropical areas of Jammu Division like Jammu, Samba, Kathua and some parts of Udhampur and Reasi districts
Duration	150-170 days
Average Yield	16-18 q/ha
Characteristics	• Leaves are thick, smooth and sweet in taste and give high quality saag • Broad leaves, resistant to lodging and responsive to fertilizers • Distinguishing morphological characters like primary branches 8-12, secondary branches 10-18 and seeds/ pod 20-25 • Has low erucic acid and glucosinolate • Profusely branched with intense pod-bearing capacity • Contain 42% oil content

Mustard: Jammu Raya 69 (RSPR-69)

20. Mustard: Jammu Raya 69 (RSPR-69)

Year of Released	2017
Parentage	RLM 198 and Varuna
Breeding method	Hybridization followed by pedigree selection
Production conditions	Timely sown conditions
Recommended areas	Subtropical areas of Jammu Division like Jammu, Samba, Kathua and some parts of Udhampur and Reasi
Duration	135-145 days
Average Yield	15-16 q/ha
Characteristics	• Has broad leaves, basal branching and resistant to lodging • Mature 8 days earlier than check varieties • Moderately resistant to aphid infestation and Alternaria blight and white rust diseases • Contains 39.4% oil content

Gobhi Sarson: DGS–1 (NCN–18)

21. Gobhi Sarson: DGS-1 (NCN-18)

Year of Released	2005
Parentage	Selection from the exotic collection
Breeding method	Pure line selection
Production conditions	Timely sown irrigated conditions
Recommended areas	Subtropical areas of Jammu division like Jammu, Samba, Kathua and some parts of Udhampur and Reasi districts
Duration	150-170 days
Average Yield	16-18 q/ha
Characteristics	• Leaves are thick, smooth and sweet in taste and give high quality saag • Broad leaves, resistant to lodging and responsive to fertizers • Distinguishing morphological characters like primary branches 8-12, secondary branches 10-18 and seeds/ pod 20-25 • Has low erucic acid and glucosinolate • Profusely branched with intense pod-bearing capacity • Contain 42% oil content

Gobhi Sarson : RSPN-25 (NCN-15)

22. Gobhi Sarson : RSPN-25 (NCN-15)

Year of Released	2005
Parentage	Brassica napus X *Brassica hirta*
Breeding method	Inter specific hybridization followed by selection
Production conditions	Timely sown irrigated conditions
Recommended areas	Sub tropical areas of Jammu division like Jammu, Samba, Kathua and some parts of Udhampur and Reasi districts
Duration	145-155 days
Average Yield	15-20 q/ha
Characteristics	• Has broad leaves, basal branching • Resistant to lodging and responsive to fertilizers • Distinguishing morphological characters like primary branches/plant 10-12, secondary branches/plant 10-18 and seeds/pod 12-16 • Contains 39% oil content • 13-16 % yield advantage over check (GSL-1) • Resistant to white rust and moderately resistant to Alternaria blight and major pests

Chick pea : SCS-3

23. Chick pea: SCS-3

Year of Released	2005
Parentage	IPC-97-67
Breeding Method	Pure line selection
Production conditions	Timely sown rainfed conditions.
Recommended areas	Chickpea growing areas under Sub tropical climate of Jammu region
Duration	157-167 days
Average Yield	20-25 q/ha
Characteristics	• Semi tall (62-65cm), erect plant type with two grains per pod and medium maturity • Seeds are medium size, brown in colour with 100-seed weight of 22 g • Good cooking quality with protein content of 21 per cent and methionine content of 1.3g/mg • Superior to popular varieties C-235 and PBG-1 in grain yield and grain size • Moderately resi stance to wilt/root rot disease complex • Tolerant to pod borer and drought

Knol-Khol : G-40 (SJKK-01)

24. Knol-Khol: G-40 (SJKK-01)

Year of Released	2013
Parentage	White Vienna
Breeding Method	Mass selection
Production conditions	Transplanted crop
Recommended areas	Subtropical and mid hill zone
Duration	30-35 days
Average Yield	300-350 q/ha
Characteristics	• Possesses good globular flat knob with earliness to knob formation, sweet in taste and remain non fibrous till marketable maturity (6-7.5 cm diameter) and erect leaf habit • Knob is less fibrous even at higher weight so suitable for pickle purpose • Short stalk length, smooth green leaves with erect plant type • An early maturing variety with 30 days to marketing marketing • Round dark brown seed with test weight of 3-4 g • Tolerant to Alternaria blight, stalk rot, downy mildew diseases and cabbage butter fly and semi-loopers • Average yield of 252.4q/ha • Fits well for seed production under sub tropical conditions of Jammu

Jammu Broccoli (Early Green)

25. Jammu Broccoli (Early Green)

Year of Released	2017
Parentage	Selection from KTS-1
Breeding Method	Individual plant selected
Production conditions	Transplanted crop
Recommended areas	Sub-tropical plain and mid hill conditions of Jammu region
Duration	150-160 days (seed to seed)
Average Yield	180-200 q/ha (curd), 5-6 q/ha (seed)
Characteristics	• Produces dark green coloured curds of the size of 120-140g and produces 7-8 lateral shoots of the size of 50-70g per plant after harvesting of main curd • Yield superiority of 22 per cent over the check (KTS-120) • Upright plant type, dark green leaves with wavy margins and takes 22-24 days to 50% knob formation • Ready for harvest after 75-80 days after harvesting • Seeds are brown in colour, round shaped with test weight of 12-15g • Low chilling requirement • Ability to set quality seed under sub tropical plains of Jammu • Moderately resistant to prevalent diseases (Black rot, stalk rot and alternaria leaf spot) and pests

Coriander: Jammu Coriander-07 (Khushboo)

26. Coriander: Jammu Coriander-07 (Khushboo)

Year of Released	2017
Parentage	Selection from local germplasm collected from Marh (Jammu)
Breeding Method	Mass selection
Production conditions	Direct sown crop
Recommended areas	Subtropical and mid hill zones of Jammu
Duration	100-120 days (green leaves)
Average Yield	150-160 q/ha (green leaves) 10-15q/ha (seed)
Characteristics	• Semi spreading plant type • Leaves are dark green and rich in fragrance/aroma • Short duration, ready for first cut in 30 days • Late bolting and multi-cut variety, 4-5 cuts in winter season • First cutting 28-35 days after sowing and subsequent cutting 22-25 days after first cutting • Round shaped light brown seed with test weight of 10-12g • Yield advantage of 24 % over check • Moderately resistance to Alternaria leaf spot, blight, viruses and aphids

Okra : Jammu Okra-08 (Seli Special)

27. Okra: Jammu Okra-08 (Seli Special)

Year of Released	2017
Parentage	Varsha Uphaar x VRO-05-01
Breeding Method	Hybridization
Production conditions	Direct sown crop
Recommended areas	Subtropical and mid hill zone
Duration	40-45 days (seed to fruiting) 100-120 days (seed to seed)
Average Yield	120-150 q/ha (fruits), 5-6 q/ha (seed)
Characteristics	• The fruits are dark green in colour, medium in size with high shelling percentage, table purpose, tender and straight • Fruits remain tender 7 days after fruit set and comparatively less mucilaginous • Medium tall (90-100 cm) with short inter nodal distance and profuse bearing • Early maturing variety • First flower appears at 3rd to 4th node making it early fruit bearing variety • The plant bear 25-30 fruits with edible fruit length (17-20 cm), seed fruit length (17-20cm) and average fruit weight of 10-15 g • 15% superiority over check (Pusa sawani) • Seeds are greenish, round shaped with test weight of 8-9g • Resistance to lodging, shattering and heavy response to fertilizers • Field resistant to yellow vein mosaic virus

Fenugreek: Jammu Methi-07 (Kasuri Supreme)

28. Fenugreek: Jammu Methi-07 (Kasuri Supreme)

Year of Released	2017
Parentage	Selection from local germplasms.
Breeding Method	Pure line selection
Production conditions	Direct sown
Recommended areas	Subtropical and intermediate zones of Jammu
Duration	• 100-120 days (vegetable crop) • 190-210 days (seed crop)
Average Yield	• 200-250 q/ha(green leaves), 6-7 q/ha (seed)
Characteristics	• Dwarf variety with plant height of 25-30 cm and dark green, broad lobed leaves • Plants are fragrant at flowering, fruits sickle shaped, leaves small and relatively less bitter • Bushy type and ready for first cut after 30-35 days of sowing • Short duration, a multi-cut variety giving 4-5 cuts in rabi season each at 25-30 days intervals and can left for seed production after 4 cuts • Seeds are light yellowish brown colour, cuboid shaped with test weight of 1.60-1.75g • Uniform and stable in reproduction through seed • Performed consistently better over check. • An alternative to the other popular varieties/ hybrids • Yield advantage of 16% over check • Possesses field tolerance to Alternaria, Rhizoctonia and viruses

Spinach: Jammu Palak-07 (C-13)

29. Spinach: Jammu Palak-07 (C-13)

Year of Released	2017
Parentage	A selection from 13 diverse genotypes collected from different parts of the country
Breeding Method	Mass selection
Production conditions	Direct sown
Recommended areas	Subtropical /intermediate zone of Jammu.
Duration	120-130 days (green leaves)
Average Yield	150-160 q/ha (green leaves) 8-10 q/ha (seed)
Characteristics	• Short duration, a multi-cut variety with smooth dark green semi erect leaves with entire margins and the plant type is erect with a plant height of 35-45 cm • Is ready for first harvest after 25-30 days of sowing and subsequent cuts are taken after 20-25 days • For green leaves, 4-5 cuts can be taken within a span of 120–130 days • Very high yielding strain performing consistently over the checks • Seeds are light brown, lenticular shaped with test weight of 4-5g • Good seed setting capability under Jammu plain • 16 % yield superiority over check • Moderately tolerant to blight and Aternaria leaf spot

Mango : Jammu Mango Selection 5

30. Mango : Jammu Mango Selection 5

Year of Released	2017
Parentage	Selection from the mango tree of seedling origin.
Breeding Method	Pureline Selection
Production conditions	Grafting
Recommended Areas	Rainfed/Kandi area of Jammu sub-tropics
Characteristics	• Flowers in the 3rd week of February with full bloom in first week of March • Moderately resistant to mango malformation at flowering stage and has higher fruit set (14.66 per cent) with 446.75 number of fruits per tree • Has total soluble solids of 18.91° Brix and 14.68% of total sugars • Is tolerant to drought during fruit set and fruit development

Notes: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