



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Improved / Hybrid Varieties of Vegetable

Bitter gourd – Hirkani



Release year	1991
Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
Soil type	Sandy loam rich in organic matter
Climate	Moderate warm temperature
Sowing Time / Planting period	<i>Kharif</i> : June-July first week Summer : January-February
Seed Rate (Per acre)	1 kg
Crop duration	180 days
Productivity	140 q/ha
Characters / features	Fruits are dark green, 15-20 cm long, Prominent prickles on fruits, Fruits are tapering both ends

Bitter gourd – Phule Green Gold



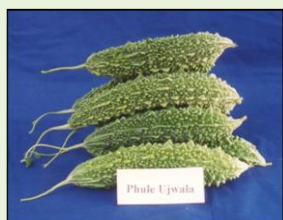
Release year	1996
Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
Soil type	Sandy loam rich in organic matter
Climate	Moderate warm temperature
Sowing Time / Planting period	<i>Kharif</i> : June-July first week Summer : January-February
Seed Rate (Per acre)	1 kg
Crop duration	150-180 days
Productivity	225-250 q/ha
Characters / features	Fruits dark green, 20-22 cm long, Tolerant to downy mildew, Prominent prickles on fruits



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Bitter gourd – Phule Ujwala



	Release year	1999
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam rich in organic matter
	Climate	Moderate warm temperature
Sowing Time / Planting period	Kharif : June-July first week Summer : January-February	
Seed Rate (Per acre)	1 kg	
Crop duration	180 days	
Productivity	147 q/ha	
Characters / features	Fruits dark green, Medium in length and prickled, Excellent shelf-life and suitable for long distance market, Tolerant to Downey mildew	

Bitter gourd – Phule Priyanka (F₁ Hybrid)



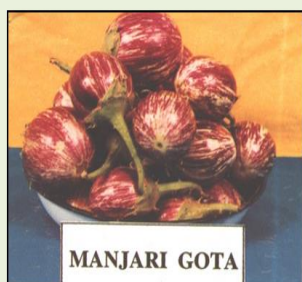
	Release year	1999
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam rich in organic matter
	Climate	Moderate warm temperature
Sowing Time / Planting period	Kharif : June-July first week Summer : January-February	
Seed Rate (Per acre)	600 g	
Crop duration	180 days	
Productivity	200 q/ha	
Characters / features	Foliage colour dark green, Fruit length 20-22 cm, Tolerant to Downey mildew, Prominent prickles on fruits	



Mahatma Phule Krishi Vidyapeeth, Rahuri

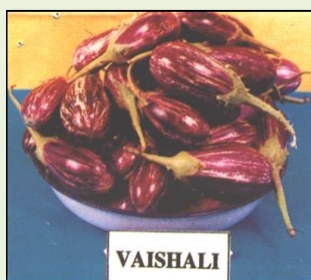
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Brinjal- Manjari Gota



	Release year	1965
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Well drained silt loam or clay loam soils rich in organic matter
	Climate	Warm season crop with temperature range of 25-27° C.
Sowing Time / Planting period	Kharif seed sowing June second week & transplanting; July-August Summer seed sowing January second week & transplanting; February last week	
Seed Rate (Per acre)	200 g	
Crop duration	180 days	
Productivity	250 q/ha	
Characters / features	Plants medium tall and spreading, Spines on leaf, midribs and pedicel of fruits, Fruits round purple with white strips	

Brinjal- Vaishali



	Release year	1985
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Well drained silt loam or clay loam soils rich in organic matter
	Climate	Warm season crop with temperature range of 25-27° C.
Sowing Time / Planting period	Kharif seed sowing June second week & transplanting July-August Summer seed sowing January second week & transplanting February last week	
Seed Rate (Per acre)	200 g	
Crop duration	180-190 days	
Productivity	350 q/ha	
Characters / features	Plant medium tall and spreading, Fruits are in cluster of 3-4, Fruit oblong, purple with white strips	



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Brinjal- Pragati

	Release year	1988
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Well drained silt loam or clay loam soils rich in organic matter
	Climate	Warm with temperature range of 25-27° C.
Sowing Time / Planting period	Kharif seed sowing June second week & transplanting July-August Summer seed sowing January second week & transplanting February last week	
Seed Rate (Per acre)	200 g	
Crop duration	180-190 days	
Productivity	350 q/ha	
Characters / features	Plant are hardy, resistance to lodging, fruits are tasty, Fruits are in clusters with spines on pedicel, Egg shaped, purple with white strips fruits	

Brinjal- Krishna (F₁ Hybrid)

	Release year	1991
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Well drained silt loam or clay loam soils rich in organic matter
	Climate	Warm with temperature range of 25-27° C.
Sowing Time / Planting period	Kharif seed sowing June second week & transplanting; July-August Summer seed sowing January second week & transplanting; February last week	
Seed Rate (Per acre)	60 g	
Crop duration	180-190 days	
Productivity	400 q/ha	
Characters / features	Plant are hardy, resistance to lodging, fruits are tasty, Fruits are borne in solitary with spines on pedicel, Egg shaped, purple with white strips fruits	



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Brinjal- Phule Harit (Roasting/Bharta Purpose)



	Release year	2002
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Well drained silt loam or clay loam soils rich in organic matter
	Climate	Warm with temperature range of 25-27° C.
Sowing Time / Planting period	<i>Kharif</i> seed sowing June second week & transplanting; July-August <i>Summer</i> seed sowing January second week & transplanting; February last week	
Seed Rate (Per acre)	200 g	
Crop duration	180 days	
Productivity	300 q/ha	
Characters / features	Good for Kharif season, The fruit colour is pale green with white strips at tip, The average weight of fruit is about 190 g, The fruits are tender and less spiny, Good for roasting (Bharta) purpose	

Brinjal- Phule Arjun (F₁ Hybrid)



	Release year	2011
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Well drained silt loam or clay loam soils rich in organic matter
	Climate	Warm with temperature range of 25-27° C.
Sowing Time / Planting period	<i>Kharif</i> seed sowing June second week & transplanting; July-August <i>Summer</i> seed sowing January second week & transplanting; February last week	
Seed Rate (Per acre)	60 g	
Crop duration	175-180 days	
Productivity	450 q/ha	
Characters / features	Good for Kharif and Summer season, The fruit colour is green with purple and white strips, The average weight of fruit is 60 g, The fruits are oval, tender and spiny	



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Bottle gourd- Samrat



	Release year	1992
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam soil
	Climate	Optimal temperature range of 24-27°C.
Sowing Time / Planting period	Kharif : June-July Summer : January-February	
Seed Rate (Per acre)	600 g	
Crop duration	150-180 days	
Productivity	400-500 q/ha	
Characters / features	Fruits 30-40 cm long and perfectly cylindrical in shape, Fruits green in colour with dense pubescence and good keeping quality, Good for box packing	

Bottle gourd- Phule Gaurav (RHRBG-54)



	Release year	2024
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Medium to deep, well drained
	Climate	Optimal temperature range of 24-27°C.
Sowing Time / Planting period	Kharif : June-July Summer : January-February	
Seed Rate	2.5 to 3 kg/ha	
Crop duration	152 days	
Productivity	413.63 q/ha	
Characters / features	Fruits are green and cylindrical, Fruits are medium in length (27 to 30 cm) and weight (540 to 550 g).	
Remark	Recommended for cultivation in Maharashtra.	



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Bottle gourd- Phule Gaurav (RHRBG-54)



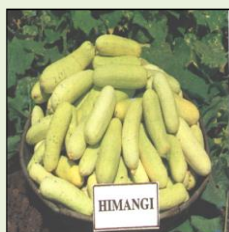
	Release year	2025
	Name of Institute / University	Vegetable Improvement Project, MPKV, Rahuri
	Soil type	Medium to deep, well drained
	Climate	Subtropical
Sowing Time / Planting period	Kharif and Summer	
Seed Rate	2.5 to 3 kg/ha	
Crop duration	154 days	
Productivity	374.17 q/ha	
Characters / features	Fruits are green and cylindrical; fruits are medium in length (27 to 30 cm) and weight (540 to 550 g)	
Remark	Recommended to release at national level for cultivation in Maharashtra, Punjab, Bihar and Uttar Pradesh	



Mahatma Phule Krishi Vidyapeeth, Rahuri

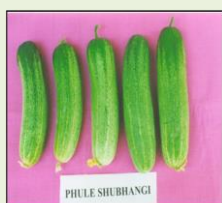
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Cucumber- Himangi



	Release year	1992
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Well drained fertile soil
	Climate	Warm climate
Sowing Time / Planting period	Kharif : June-July Summer : January-February	
Seed Rate (Per acre)	600 g	
Crop duration	100-110 days	
Productivity	190 q/ha	
Characters / features	Fruits white in colour and resistant to bronzing, Good shelf life,	

Cucumber- Phule Shubhangi



	Release year	1999
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Well drained fertile soil
	Climate	Warm climate
Sowing Time / Planting period	Kharif : June-July Summer : January-February	
Seed Rate (Per acre)	600 g	
Crop duration	100-110 days	
Productivity	180 q/ha	
Characters / features	Stem light green and fruits green in colour, Fruit surface smooth with trichomes, Tolerant to Powdery Mildew disease	



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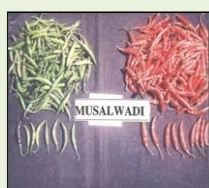
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Cucumber- Phule Prachi



	Release year	2001
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Well drained fertile soil
	Climate	Warm climate
Sowing Time / Planting period	Kharif : June-July Summer : January-February	
Seed Rate (Per acre)	600 g	
Crop duration	90 days	
Productivity	360 q/ha	
Characters / features	Fruits are yellowish white colour, suitable for green house cultivation	

Chilli - Musalwadi Selection



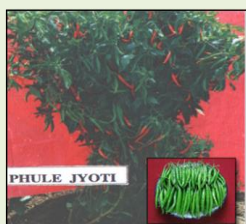
	Release year	1988
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam
	Climate	Warm humid climate
Sowing Time / Planting period	Kharif seed sowing May second week to last week of June	
Seed Rate (Per acre)	300 g	
Crop duration	180 days	
Productivity	Red dry fruits 19 q/ha	
Characters / features	Plants tall, spreading, foliage dark green, Fruits smooth, medium long, mature fruits dark green with black patches, Ripe fruits dark red with retentive colour, Tolerant to die-back and wilt	



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Chilli- Phule Jyoti



	Release year	1995
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam
	Climate	Warm humid climate
Sowing Time / Planting period	Kharif seed sowing May second week to last week of June	
Seed Rate (Per acre)	300 g	
Crop duration	190 days	
Productivity	Green fruits yield 250 q/ha Red dry fruits yield 24 q/ha	
Characters / features	Plants tall and spreading with branching habit from ground level, Leaves are broad and dark green, Fruits smooth, medium and cluster of 5-6 with pendent habit, Tolerant to thrips, mites and wilt	

Chilli - Agnirekha



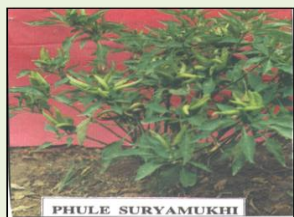
	Release year	1996
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam
	Climate	Warm humid climate
Sowing Time / Planting period	Kharif seed sowing May second week to last week of June	
Seed Rate (Per acre)	160-200 g	
Crop duration	180 days	
Productivity	Green fruits yield 250 q/ha, Red dry 28 q/ha	
Characters / features	Fruits long, bold, smooth, light green, Plants tall and spreading, Recommended for summer for green fruits	



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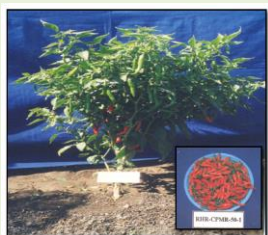
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Chilli - Phule Suryamukhi



	Release year	1996
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam
	Climate	Warm humid climate
Sowing Time / Planting period	Kharif seed sowing May second week to last week of June	
Seed Rate (Per acre)	300 g	
Crop duration	190 days	
Productivity	Green fruits yield 190 q/ha Red dry yield 22 q/ha.	
Characters / features	Plants tall, spreading with branching habit from ground level, Leaves are broad and dark green, Fruits smooth, medium and cluster of 5-6 and upright erect, Tolerant to thrips and wilt	

Chilli - Phule Mukta



	Release year	1999
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam
	Climate	Warm humid climate
Sowing Time / Planting period	Kharif seed sowing May second week to last week of June	
Seed Rate (Per acre)	300 g	
Crop duration	210 days	
Productivity	Red dry fruit yield 17 q/ha	
Characters / features	Foliage colour dark green, Fruiting habit solitary pendant, Average fruit length is 7.2 cm Fruits colour dark green, which turns red after ripening, and surface is smooth, Excellent colour retention of dry red fruits, Resistant to powdery mildew and moderately resistant to thrips and mites	



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Chilli - Phule Sai



Release year	2000
Name of Institute / University	Agricultural Research Station, Gadhinglaj
Soil type	Medium to Deep Black
Climate	Agro ecological zone an7, 9 and 12 on 'C' of soil of sub-montane zone of Maharashtra. i.e. agro ecological situation no.3,4 and 5
Sowing Time / Planting period	June Last Week to July Second week
Seed Rate (Per acre)	400 gms
Crop duration	150-160 days
Productivity	15-16 qts/ ha
Characters / features	Foliage color : Dark green, Fruit color (Unripe): Dark green, Fruit color (Ripened): Dark red, Fruit orientation : Pendent, Fruit surface: Plastic

Snake Gourd- Phule Vaibhav



Release year	2001
Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
Soil type	Sandy loam soil
Climate	Optimal temperature range of 24-27° C.
Sowing Time / Planting period	<i>Kharif</i> and Summer season
Seed Rate (Per acre)	1 kg
Crop duration	190 days
Productivity	285 q/ha
Characters / features	Foliage colour green with dark green stem, Fruit colour white with green strips and smooth surface, Tolerant to Downey mildew under field conditions



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Dolichos bean- Phule Gauri



	Release year	2001
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam soil
	Climate	Optimal temperature range of 24-27° C.
Sowing Time / Planting period	Kharif : June-July, Rabi : Sept.-Oct., Summer : February	
Seed Rate (Per acre)	1.0 kg	
Crop duration	180-200 days	
Productivity	260 q/ha	
Characters / features	Stem colour green with white flowers, pod colour whitish green, Pod shape flat and slightly curved, Fruit surface smooth, Tolerant to leaf miner and pod borer, Moderately resistant to anthracnose and leaf spot under field conditions	

Dolichos bean- Phule Ashwini



	Release year	2004
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam soil
	Climate	Optimal temperature range of 24-27° C.
Sowing Time / Planting period	Kharif : June-July, Rabi : Sept.-Oct., Summer : February	
Seed Rate (Per acre)	1.0 kg	
Crop duration	160-180 days	
Productivity	260 q/ha	
Characters / features	Pods are straight and dark green colour, pod length 10-15 cm., climbing type, stable for local market.	



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Dolichos bean- Phule Suruchi

	Release year	2009
	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
	Soil type	Light to medium and well drained.
	Climate	Subtropical
Sowing Time / Planting period	Kharif-June-July, Summer-January-February.	
Seed Rate (Per acre)	12-15 kg	
Crop duration	90-100 days	
Productivity	85-90 q/ha	
Characters / features	Pods straight slightly curved, attractive green colour with purples tinge at both edges	
Remark	Suitable for cultivation in Western Maharashtra	

Sponge gourd - Prajakta

	Release year	1999
	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
	Soil type	Medium to deep and well drained.
	Climate	Subtropical
Sowing Time / Planting period	Kharif - June-July, Summer - January-February	
Seed Rate (Per acre)	1-1.5 kg	
Crop duration	140-150 days	
Productivity	140-150 q/ha	
Characters / features	Fruits medium green, straight, slender, tapering at ends and flesh colour pure white	
Remark	Suitable for cultivation in Western Maharashtra	



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Sponge gourd - Phule Komal (F₁ Hybrid)

	Release year	2017
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam soil
	Climate	Optimal temperature range of 24-27°C.
Sowing Time / Planting period	Kharif : June-July Summer : January-February	
Seed Rate (Per acre)	1.0-1.5 kg	
Crop duration	135-155 days	
Productivity	210-220 q/ha	
Characters / features	Attractive, shiny green, cylindrical fruits, Average weight of fruit 111.93 g., Moderately resistant to powdery mildew, downy mildew diseases and pests fruit fly, leaf miner, white fly and thrips at field condition	

Broccoli - Ganesh Broccoli

	Release year	2006
	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
	Soil type	Light to medium and well drained.
	Climate	Subtropical
Sowing Time / Planting period	Rabi season Seed sowing - 25 th September to 25 th October Transplanting - 25 th October to 25 th November	
Seed Rate (Per acre)	200-250 g	
Crop duration	60-70 days	
Productivity	65-70 q/ha	
Characters / features	Curds are attractive dark green compact, dome shaped with average weight -180-200 g	
Remark	Suitable for cultivation in Western Maharashtra	



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Cluster bean- Phule Guar



	Release year	2016
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam soil
	Climate	Optimal temperature range of 30-35° C.
Sowing Time / Planting period	<i>Kharif</i> : June-July <i>Summer</i> : January-February	
Seed Rate (Per acre)	5-6 kg	
Crop duration	100 to 105 days	
Productivity	<i>Kharif</i> : 104.00 q/ha <i>Summer</i> : 153.00 q/ha	
Characters / features	Attractive light green pods, pod length 6 cm, average weight of 50 pods is 41 g, Moderately resistant to powdery mildew disease	

Okra - Kirti



	Release year	1999
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Medium, fertile and well drained.
	Climate	Subtropical
Sowing Time / Planting period	<i>Kharif</i> -June-July, <i>Summer</i> - January-February	
Seed Rate (Per acre)	6 kg	
Crop duration	100-125 days	
Productivity	160 q /ha	
Characters / features	Fruits are green with red tinge, suitable for kharif and summer season	



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Okra - Phule Utkarsha



Release year	2003
Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
Soil type	Medium, fertile and well drained.
Climate	Subtropical
Sowing Time / Planting period	<i>Kharif</i> -June-July, <i>Summer</i> - January-February
Seed Rate (Per acre)	6-7 kg
Crop duration	110-120 days
Productivity	220-230 q /ha
Characters / features	Fruits are dark green with five ridges, tender, attractive, shining.
Remark	Suitable for cultivation in Western Maharashtra

Okra - Phule Vimukta



Release year	2016
Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
Soil type	Medium, fertile and well drained.
Climate	Subtropical
Sowing Time / Planting period	<i>Kharif</i> - June-July, Summer - January-February
Seed Rate (Per acre)	6-7 kg
Crop duration	110-120 days
Productivity	200-210 q/ha
Characters / features	Attractive green colour fruits with shining. Resistant to yellow vein mosaic virus disease
Remark	Suitable for cultivation in Western Maharashtra



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Okra - Phule Gayatri (RHROKH-01)



	Release year	2025
	Name of Institute / University	Vegetable Improvement Project, MPKV, Rahuri
	Soil type	Medium, fertile and well drained
	Climate	Subtropical
	Sowing Time / Planting period	Kharif - June-July, Summer - January-February
Seed Rate	12-15 kg/ ha.	
Crop duration	110-120 days	
Productivity	234.64 q/ha.	
Characters / features	Medium size fruit, fruit length 10-15 cm, fruit weight 10-12 g, Fruits are attractive green in colour without seediness, moderately resistant to Yellow Vein Mosaic Virus, fruit borer and white fly	
Remark	Recommended in Western Maharashtra	



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Lettuce - Padma

	Release year	2015
	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
	Soil type	Light to medium and well drained.
	Climate	Subtropical
Sowing Time / Planting period	Seed sowing -25 th September to 25 th October Transplanting -25 th October to 25 th November	
Seed Rate (Per acre)	200-250 g	
Crop duration	35-45 days	
Productivity	290 -300 q/ha	
Characters / features	Attractive green and crispy leaves Moderately resistant to downy mildew and as well as aphids and cutworms High content of vitamin A and dietary fiber	
Remark	Suitable for cultivation in Western Maharashtra	

Ridge gourd -Phule Sucheta

	Release year	2001
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam soil
	Climate	Optimal temperature range of 24-27°C.
Sowing Time / Planting period	Kharif : June-July Summer : January-February	
Seed Rate (Per acre)	1 kg	
Crop duration	140-150 days	
Productivity	120 q/ha	
Characters / features	Foliage colour dark green, Fruit colour green with prominent ridges on fruit, Tolerant to Downey mildew and Powdery mildew under field conditions	



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Ridge gourd hybrid: Phule Kiran (RHRRGH-3)



	Release year	2024
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Medium to deep, well drained
	Climate	Optimal temperature range of 24-27°C.
Sowing Time / Planting period	Kharif : June-July Summer : January-February	
Seed Rate	2.5-3 kg/ ha	
Crop duration	144 days	
Productivity	245.68 q/ha	
Characters / features	Fruits are green in colour, straight and medium in length (28 to 31 cm), Fruit weight - 155 to 165 g.	
Remark	Recommended for cultivation in Western Maharashtra, Vidarbha and Marathwada.	

Pea - Phule Priya



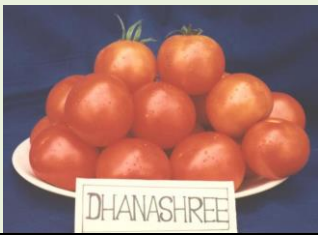
	Release year	2010
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Sandy loam soil
	Climate	Cool season crop
Sowing Time / Planting period	Rabi : October-November	
Seed Rate (Per acre)	10 kg, 16 kg (sowing)	
Crop duration	100-110 days	
Productivity	100-105 q/ha	
Characters / features	Pods straight, green, tender, sweet, 8-10 grains per pod, Tolerant to powdery mildew disease, Suitable for Rabi season,	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Tomato- Dhanshree

	Release year	1992
	Name of Institute / University	Tomato Improvement Project, MPKV, Rahuri
	Soil type	Medium Black
	Climate	Warm and Humid
Sowing Time / Planting period	Sowing -May-June, September – October, December – January Planting period - June –July, October – November, January - February	
Seed Rate (Per acre)	500gm/ha	
Crop duration	165 days	
Productivity	45-50 t/ha	
Characters / features	Semi indeterminate growth habit, Developed for local fresh market, Medium round, Orange red fruits, High yield potential	

Tomato- Bhagyashree

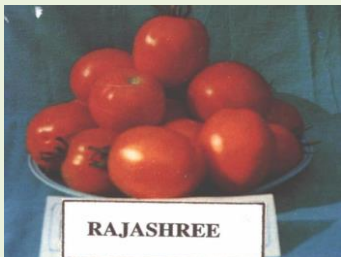
	Release year	1992
	Name of Institute / University	Tomato Improvement Project, MPKV, Rahuri
	Soil type	Medium Black
	Climate	Warm and Humid
Sowing Time / Planting period	Sowing - May-June, September – October, December – January Planting period - June –July, October – November, January - February	
Seed Rate (Per acre)	500gm/ha,	
Crop duration	165 days	
Productivity	40-45	
Characters / features	Determinate growth habit, Suitable for processing, , Rich in lycopene content, High juice percentage, Dark red fruits, High yield potential	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Tomato- Rajashree (Hybrid)

	Release year	1996
	Name of Institute / University	Tomato Improvement Project, MPKV, Rahuri
	Soil type	Medium Black
	Climate	Warm and Humid
Sowing Time / Planting period	Sowing- May-June, September – October, December – January Planting period- June –July, October – November, January - February	
Seed Rate (Per acre)	100gm/ha	
Crop duration	175 days	
Productivity	50-55 t/ha	
Characters / features	Semi indeterminate growth habit, Large potato leaf type, , Oval round, Orange red fruits, Tolerant to viral diseases, High yield potential	

Tomato- Phule Raja (Hybrid)

	Release year	2006
	Name of Institute / University	Mahatma Phule Krishi Vidhyapeeth, Rahuri
	Soil type	Medium Black
	Climate	Warm and Humid
Sowing Time / Planting period	Sowing- May-June, September – October, December – January Planting period- June –July, October – November, January - February	
Seed Rate (Per acre)	100 gm/ha	
Crop duration	180 days	
Productivity	55-60 t/ha	
Characters / features	Indeterminate growth habit, Stout fruit, Oval round with thick pericarp, Orange red fruits, Moderately resistance to viral diseases	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Tomato- Phule Kesari

	Release year	2017
	Name of Institute / University	Tomato Improvement Project, MPKV, Rahuri
	Soil type	Medium Black
	Climate	Warm and Humid
Sowing Time / Planting period	Sowing- May-June, September – October, December – January Planting period- June –July, October – November, January - February	
Seed Rate (Per acre)	500gm/ha	
Crop duration	150 days	
Productivity	55-60 t/ha	
Characters / features	Determinate growth habit, Developed for local fresh market, Medium round, Orange fruits, Rich in <i>B-carotene</i> (5.93 mg/100g) content, Tolerant to thrips ,white fly & leaf curl and spotted wilt virus	

Cherry Tomato- Phule Jayshree

	Release year	2018
	Name of Institute / University	Tomato Improvement Project, MPKV, Rahuri
	Soil type	Medium Black
	Climate	Warm and Humid
Sowing Time / Planting period	Sowing- May-June, September – October, December – January Planting period- June –July, October – November, January - February	
Seed Rate (Per acre)	400-500 gm/ha	
Crop duration	165 days	
Productivity	50 t/ha	
Characters / features	Indeterminate growth habit, Round Fruit shape, Total Soluble Solid (6.30%), Orange red fruits, Moderately resistant to leaf curl and spotted wilt virus	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Tomato hybrid: Phule Surya (RHRT-3 x 5)



	Release year	2024
	Name of Institute / University	Tomato Improvement Scheme, MPKV, Rahuri
	Soil type	Medium to deep, well drained
	Climate	Warm and dry
Sowing Time / Planting period	<i>Kharif & rabi</i>	
Seed Rate	125 g/ha	
Crop duration	150 days	
Productivity	Average yield - 66.26 t/ ha	
Characters / features	Oval fruit with thick pericarp (0.72 cm), Lycopene content - 4.18 mg 100 g ⁻¹ .	
Remark	Recommended for cultivation in Western Maharashtra, Vidarbha and Marathwada	

Onion - Baswant-780



	Release year	1986
	Name of Institute / University	Onion & Grape Research Station, Pimpalgaon Baswant, Ta. Niphad, Dist. Nashik
	Soil type	Medium black, well drained
	Climate	Warm and humid
Sowing Time / Planting period	<i>Kharif</i> :July-August <i>Rangda</i> : September-Mid October	
Seed Rate (Per acre)	3 kg	
Crop duration	Duration is 100-110 days.	
Productivity	Average yield is 250 q/ha.	
Characters / features	Bulbs globose in shape with crimson red colour, 13 % TSS, Less percentage of bolting, Average bulb weight- 90-100 g	
Remark	Recommended for <i>Kharif</i> planting in western Maharashtra	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Onion - N-2-4-1

	Release year	1987
	Name of Institute / University	Onion & Grape Research Station, Pimpalgaon Baswant, Ta. Niphad, Dist. Nashik
	Soil type	Medium black, well drained
	Climate	Cool climate
Sowing Time / Planting period	October sowing and transplanting in December	
Seed Rate (Per acre)	3 kg	
Crop duration	120-130 days	
Productivity	Average yield is 300-350 q/ha.	
Characters / features	Bulbs are globose in shape with brick red colour which improves in storage, Excellent storage ability, Resistant to premature bolting	
Remark	Released at national level for zone IV and VII	

Onion – N-53

	Release year	1987
	Name of Institute / University	Onion & Grape Research Station, Pimpalgaon Baswant, Ta. Niphad, Dist. Nashik
	Soil type	Medium black, well drained
	Climate	Warm and humid
Sowing Time / Planting period	Suitable for <i>kharif</i> season in Western as well as Northern India.	
Seed Rate (Per acre)	3 kg	
Crop duration	90-100 days.	
Productivity	Average yield is 250 q/ha.	
Characters / features	Bulbs medium size, flatish round and red in colour, Average bulb weight -70-80 g	
Remark	Recommended by Department of Agriculture during 1960 and released at National level during 1987. Suitable for <i>kharif</i> season in Western as well as Northern India	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Onion – Phule Safed (Dehydration purpose)



	Release year	1994
	Name of Institute / University	Scheme for Research on Onion Storage, MPKV, Rahuri
	Soil type	Medium black, well drained
	Climate	Cool to warm with dry
Sowing Time / Planting period	<i>Kharif</i> : July-August <i>Rabi</i> : October-November	
Seed Rate (Per acre)	3-3.5 Kg.	
Crop duration	120-125 days	
Productivity	250-300 qtl/ha	
Characters / features	Bulbs are globular in shape with attractive white colour, TSS is 13 %. Suitable for dehydration, Moderately resistant to purple blotch and thrips, under field conditions	
Remark	Recommended for <i>kharif</i> Rangad and <i>Rabi</i> season	

Onion - Phule Suvarna



	Release year	1996
	Name of Institute / University	Scheme for Research on Onion Storage, MPKV, Rahuri
	Soil type	Medium black, well drained
	Climate	Cool to warm with dry
Sowing Time / Planting period	<i>Kharif</i> : July-August, <i>Rabi</i> : October-November	
Seed Rate (Per acre)	3-3.5 Kg.	
Crop duration	120-125 days	
Productivity	240 qtl/ha	
Characters / features	It is useful for round the year plantation. Yellow coloured variety suitable for export to Europe , Australia and America, Pungency mild, TSS 11.5 % and excellent keeping quality (4-6 months). Suitable for both the rangada and rabi seasons, Moderately resistant to purple blotch and thrips, under field conditions	
Remark	Recommended for <i>Rangad</i> and <i>Rabi</i> season	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Onion – Phule Samarth



	Release year	2004
	Name of Institute / University	Scheme for Research on Onion Storage, MPKV, Rahuri
	Soil type	Medium black, well drained
	Climate	Cool to warm with dry
Sowing Time / Planting period	<i>Kharif</i> : July-August, <i>Rangda</i> : September- Mid October	
Seed Rate (Per acre)	3-3.5 Kg.	
Crop duration	90-100 days	
Productivity	300 qtl/ha	
Characters / features	Controlled vegetative growth coupled with rapid bulb development, early maturity, (75 – 90 days), natural foliage top fall, thin bulb neck, dark red lustrous bulb colour, Globular bulb shape, high yield potential for regular and late <i>kharif</i> season, and excellent keeping quality (2-3 months), Moderately resistant to purple blotch and thrips, under field conditions	
Remark	Recommended for <i>Kharif</i> and <i>Rangada</i> season	

Onion: Phule Swami (RHROR-12)



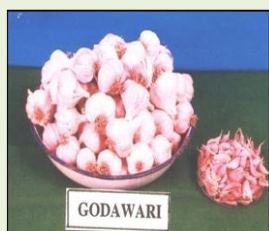
	Release year	2024
	Name of Institute / University	Scheme for Research on Onion Storage, MPKV, Rahuri
	Soil type	Medium to deep, well drained
	Climate	Cool and dry
Sowing Time / Planting period	<i>rabi</i> season	
Seed Rate (Per acre)	8-10 kg/ ha	
Crop duration	120 days.	
Productivity	Average yield - 39.41 t/ha	
Characters / features	Globular light red colored bulb, better for storage (up to 6 months)	
Remark	Recommended for cultivation in Western Maharashtra, Vidarbha and Marathwada in <i>rabi</i> season.	



Mahatma Phule Krishi Vidyapeeth, Rahuri

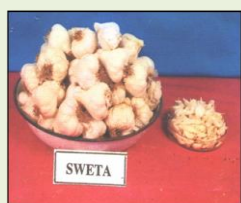
Information about Crop wise Improved / Hybrid Varieties Developed by University

Garlic- Godavari



	Release year	1987
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Medium black, well drained
	Climate	Cool season crop
Sowing Time / Planting period	<i>Rabi</i> : October-November	
Seed Rate (Per acre)	200 kg	
Crop duration	130-140 days	
Productivity	150 q/ha	
Characters / features	Bulbs medium size with 25-30 cloves, Cloves are pink in colour, Tolerant to mites	

Garlic- Sweta



	Release year	1987
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Medium black, well drained
	Climate	Cool season crop
Sowing Time / Planting period	<i>Rabi</i> : October-November	
Seed Rate (Per acre)	200 kg	
Crop duration	120-130 days	
Productivity	130 q/ha	
Characters / features	Bulb medium in size with 20-25 cloves, Cloves are white in colour, Tolerant to thrips and mites	



Mahatma Phule Krishi Vidyapeeth, Rahuri

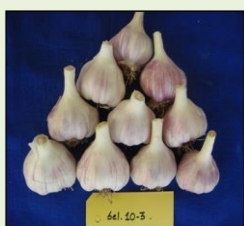
Information about Crop wise Improved / Hybrid Varieties Developed by University

Garlic- Phule Baswant



Release year	2007
Name of Institute / University	Onion & Grape Research Station, Pimpalgaon Baswant, Ta. Niphad, Dist. Nashik
Soil type	Medium black, well drained
Climate	Rabi
Sowing Time / Planting period	October/ 135- 150 days
Seed Rate (Per acre)	200kg / acre, spacing -15x 10 cm
Crop duration	135- 150 days
Productivity	Average yield is 154 q/ha. 152.82 qtl/ha
Characters / features	Violet colour bulbs with medium size. Cloves Pink and attractive, More sulphur content-46.14mg/100 g, responsible for higher pungency, Bulb size big (25.11 g), big clove size(0.97 g), Moderately resistant to purple blotch and stemphyllium blight.
Remark	Attractive violet colours bulbs, recommended for rabi season

Garlic- Phule Nilima



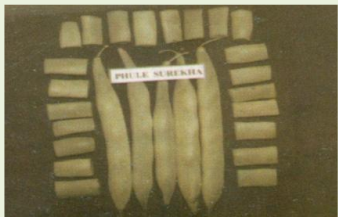
Release year	2014
Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
Soil type	Medium black, well drained
Climate	Cool season crop
Sowing Time / Planting period	<i>Rabi</i> : October-November
Seed Rate (Per acre)	200 kg
Crop duration	140-150 days
Productivity	160-165 q/ha
Characters / features	Attractive violate coloured bulbs, Big bulb size, Moderately resistant to purple blotch, thrips, mites under field conditions



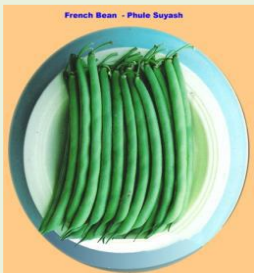
Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

French bean - Phule Surekha

	Release year	1997
	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
	Soil type	Light to medium and well drained
	Climate	Subtropical
Sowing Time / Planting period	Kharif - June to July	
Seed Rate (Per acre)	16 kg	
Crop duration	90-100 days	
Productivity	150 q/ha	
Characters / features	Pods are 9-10 cm long, flat, light green colour, curly lives, resistant to vicucurus and rot.	
Remark	Suitable for cultivation in Western Maharashtra	

French bean - Phule Suyash

	Release year	2003
	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
	Soil type	Light to medium and well drained
	Climate	Subtropical
Sowing Time / Planting period	Kharif - June to July, Rabi - October to November	
Seed Rate (Per acre)	25-30 kg	
Crop duration	70-80 days	
Productivity	160-170 q/ha	
Characters / features	Attractive, tender, straight to slightly curved smooth green pods.	
Remark	Suitable for cultivation in Western Maharashtra	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Double bean - Phule Suvarn

	Release year	2019
	Name of Institute / University	NARP, Ganeshkhind, Pune
	Soil type	Medium Black
	Climate	Warm / Semi tropical
Sowing Time / Planting period	Kharif (June-July)	
Seed Rate (Per ha)	8-10 kg	
Crop duration	267 days	
Productivity	132.66 q/ha	
Characters / features	Pods are slightly curved, green in colour with bold grain size, Moderately tolerant to bean common mosaic virus disease, Moderately resistant to aphids	

Winged bean- Shrivani-Phule Chardhari Wal (PWB 17-18)

	Release year	2024
	Name of Institute / University	AICRN on Potential Crops, MPKV, Rahuri
	Soil type	Fertile well drained soil
	Climate	Warm & humid
Sowing Time / Planting period	Kharif	
Seed Rate	20 kg/ ha	
Crop duration	Late maturity (165 days)	
Productivity	Average Yield- 13.81 q ha ⁻¹ , Green pod yield- 142.96 q ha ⁻¹	
Characters / features	Dark brown seed, Oil content- 16.01 %, Protein content- 24.95 % Moderately resistant to wilt and sterility mosaic diseases	
Remark	Recommended for winged bean growing areas of Maharashtra, Chhattisgarh, Uttar Pradesh and Jharkhand state	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Fenugreek - Phule Kasturi

	Release year	2019
	Name of Institute / University	NARP, Ganeshkhind Pune
	Soil type	Medium black soils under irrigated condition
	Climate	Cool and dry
Sowing Time / Planting period	<i>Rabi</i>	
Seed Rate (Per ha)	25-30 kg	
Crop duration	42 days	
Productivity	110.15 q/ha	
Characters / features	Green colour foliage with red leaf margin, Moderately resistant to powdery mildew, damping off and leaf miner, Rich source of vitamin A and dietary fibre	

Vegetable Safflower - Phule Abhilasha (SSF-07)

	Release year	2025
	Name of Institute / University	Vegetable Improvement Project, MPKV, Rahuri
	Soil type	Moderate, well drained
	Climate	Subtropical
Sowing Time / Planting period	<i>Rabi</i>	
Seed Rate (Per acre)	4 kg	
Crop duration	45-55 days	
Productivity	Fresh leaf yield 120.87 q/ha	
Characters / features	Moderately resistant to disease (<i>Alternaria</i> leaf spot) and pest (aphids) under field conditions, recommended for cultivation in Western Maharashtra	