

Information about Crop wise Improved / Hybrid Varieties Developed by University

Improved / Hybrid Varieties of Vegetable

Bitter gourd - Hirkani

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 /	Kharif: June-July first week	
Planting period	Summer : January-February	
Seed Rate	1 kg	
(Per acre)		
Crop duration	180 days	
Productivity	140 q/ha	
Characters /	Fruits are dark green, 15-20 cm long, Prominent prickles on fruits, Fruits	
features	are tapering both ends	

Bitter gourd - Phule Green Gold

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



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Bitter gourd – Phule Ujwala



Release year	1999
Name of Institute /	AICRP on Vegetable Crops, MPKV,
University	Rahuri
Soil type	Sandy loam rich in organic matter
Climate	Moderate warm temperature
Kharif: June-July first week	

period	Summer : January-February
Seed Rate	1 kg
(Per acre)	1 kg
Crop duration	180 days
Productivity	147 q/ha
	Fruits dark green, Medium in length and prickled, Excellent
Characters / features	shelf-life and suitable for long distance market, Tolerant to
	Downey mildew

Bitter gourd – Phule Priyanka (F₁ Hybrid)

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PI	ule Priy	anka (F	1)	

Release year	1999
Name of Institute /	AICRP on Vegetable Crops, MPKV,
University	Rahuri
Soil type	Sandy loam rich in organic matter
Climate	Moderate warm temperature

	Cililate	Wioderate warm temperature
Sowing Time / Planting	Kharif: June-July first week	
period	Summer : January-February	
Seed Rate	600 g	
(Per acre)	000 g	
Crop duration	180 days	
Productivity	200 q/ha	
Characters / features	Foliage colour dark green	, Fruit length 20-22 cm, Tolerant to
	Downey mildew, Promin	ent prickles on fruits



Information about Crop wise Improved / Hybrid Varieties Developed by University

Brinjal- Manjari Gota

MANJARI GOTA

Release year	1965
Name of Institute /	AICRP on Vegetable Crops, MPKV,
University	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-AugustSummer 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

VAISHALI

Release year	1985
Name of Institute /	AICRP on Vegetable Crops, MPKV,
University	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.

VAISHALI	range of 23-27°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	



Mahatma Phule Krishi Vidyapeeth, Rahuri Information about Crop wise Improved / Hybrid Varieties Developed by University

Brinjal- Pragati

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

Brinjal- Krishna (F₁ Hybrid)

	Release year	1991
NRISHNA NRISHNA	Name of Institute /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Well drained silt loam or clay loam soils rich in organic matter
	Climate	Warm with temperature range of 25-27° C.
	Kharif seed sowing June second week & transplanting; July-AugustSummer seed sowing January second week & transplanting;	
Sowing Time / Planting		
period		
	February last week	
Seed Rate	60 g	
(Per acre)	00 g	
Crop duration	180-190 days	
Productivity	400 q/ha	
	Plant are hardy, resistance to lodging, fruits are tasty, Fruits are	
Characters / features	borne in solitary with spines on pedicel, Egg shaped, purple with	
	white strips fruits	



Brinjal- Phule Harit (Roasting/Bharta Purpose)

फूले हरित

Release year	2002
Name of Institute /	AICRP on Vegetable Crops, MPKV,
University	Rahuri
Soil type	Well drained silt loam or clay loam
	soils rich in organic matter
Climata	Warm with temperature range of 25-
Climate	27° C.

फुले हरित	Climate 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	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 /	AICRP on Vegetable Crops, MPKV,
University	Rahuri
Soil type	Well drained silt loam or clay loam soils rich in organic matter
Climate	Warm with temperature range of 25-27° C.

	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	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



Bottle gourd- Samrat

	Release year	1992
	Name of Institute /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Sandy loam soil
Samrat	Climate	Optimal temperature range of 24-27°C.
Sowing Time / Planting	<i>Kharif</i> : June-July	
period	Summer: January-February	
Seed Rate	C00 -	
(Per acre)	600 g	
Crop duration	150-180 days	
Productivity	400-500 q/ha	
	Fruits 30-40 cm long and perfectly cylindrical in shape, Fruits	
Characters / features	green in colour with dense pubescence and good keeping quality,	
	Good for box packing	

Cucumber- Himangi

	Release year	1992
	Name of Institute /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Well drained fertile soil
HIMANGI	Climate	Warm climate
Sowing Time / Planting	Kharif: June-July	
period	Summer: January-February	
Seed Rate	600 ~	
(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,	



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Cucumber- Phule Shubhangi

	Release year	1999
	Name of Institute /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Well drained fertile soil
PHULE SHUBHANGI	Climate	Warm climate
Sowing Time / Planting	Kharif: June-July	
period	Summer: January-February	
Seed Rate	600 a	
(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	

Cucumber- Phule Prachi

	Release year	2001
	•	
	Name of Institute /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Well drained fertile soil
	Climate	Warm climate
Sowing Time / Planting	<i>Kharif</i> : June-July	
period	Summer: January-February	
Seed Rate	(00)	
(Per acre)	600 g	
Crop duration	90 days	
Productivity	360 q/ha	
Chamastana / faatumas	Fruits are yellowish white colour, suitable for green house	
Characters / features	cultivation	



Chilli - Musalwadi Selection

	Release year	1988
	Name of Institute /	AICRP on Vegetable Crops, MPKV,
MUSALWADI	University	Rahuri
DNO HOW	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	300 g	
(Per acre)	č	
Crop duration	180 days	
Productivity	Red dry fruits 19 q/ha	
	Plants tall, spreading, foliage dark green, Fruits smooth, media long, mature fruits dark green with black patches, Ripe fruits dark red with retentive colour, Tolerant to die-back and wilt	
Characters / features		

Chilli- Phule Jyoti

PHULE JYOTI	Release year Name of Institute / University Soil type Climate	1995 AICRP on Vegetable Crops, MPKV, Rahuri Sandy loam 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	



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Chilli - Agnirekha

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

Chilli - Phule Suryamukhi

	Release year	1996
	Name of Institute /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Sandy loam
PHULE SURYAMUKHI	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	
Duodiniti	Green fruits yield 190 q/ha	
Productivity	Red dry yield 22 q/ha.	
	Plants tall, spreading with branching habit from ground level Leaves are broad and dark green, Fruits smooth, medium at	
Characters / features		
	cluster of 5-6 and upright erect, Tolerant to thrips and wilt	



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Chilli - Phule Mukta

Deed the last	Release year	1999
	Name of Institute /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Sandy loam
155 CF33.861	Climate	Warm humid climate
Sowing Time / Planting period	Kharif seed sowing May second week to last week of June	
Seed Rate	300 g	
(Per acre)	300 g	
Crop duration	210 days	
Productivity	Red dry fruit yield 17 q/ha	
	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	
Characters / features		
	retention of dry red fruits, Resistant to powdery mildew and	
	moderately resistant to thrips and mites	

Chilli - Phule Sai

A SAME	Release year	2000
	Name of Institute /	Agricultural Reseach Station,
Charles and the second	University	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

The state of the s	Release year	2001
《 公正 水石》。	Name of Institute /	AICRP on Vegetable Crops, MPKV,
A CONTRACTOR OF THE PARTY OF TH	University	Rahuri
	Soil type	Sandy loam soil
tra busan	Climate	Optimal temperature range of 24-27° C.
Sowing Time / Planting period	Kharif 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	

Dolichos bean- Phule Gauri

	Release year	2001
	Name of Institute /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
THE STATE OF THE S	Soil type	Sandy loam soil
MOST BASE	Climate	Optimal temperature range of 24-27° C.
Sowing Time / Planting period	Kharif: June-July, Rabi: SeptOct., Summer: February	
Seed Rate (Per acre)	1.0 kg	
Crop duration	180-200 days	
Productivity	260 q/ha	
	Stem colour green with white flowers, pod colour whitish gre	
	Pod shape flat and slightly curved, Fruit surface smooth, Tolerant	
Characters / features	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 /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Sandy loam soil
फुले आखेती	Climate	Optimal temperature range of 24-27° C.
Sowing Time / Planting period	Kharif: June-July, Rabi: SeptOct., 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, pold length 10-15 cm., climbing type, stabile for local market.	

Dolichos bean- Phule Suruchi

Dolichos Bean - Phule Suruchi	Release year	2009
CO AND	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
	Soil type	Light to medium and well drained.
	Climate	Subtropical
Sowing Time / Planting	Kharif-June-July,	
period	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

Smooth Gourd - Phule Prajakta	Release year	1999
	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
PHULE	Soil type	Medium to deep and well drained.
100	Climate	Subtropical
Sowing Time / Planting	Kharif - June-July,	
period	Summer - January-February	
Seed Rate	1-1.5 kg	
(Per acre)		
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

Sponge gourd - Phule Komal (F₁ Hybrid)

	Release year	2017
	Name of Institute /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Sandy loam soil
	Climate	Optimal temperature range of 24-27°C.
Sowing Time / Planting	Kharif: June-July	
period	Summer: January-February	
Seed Rate	1.0-1.5 kg	
(Per acre)	1.0-1.3 Kg	
Crop duration	135-155 days	
Productivity	210-220 q/ha	
	Attractive, shiny green, cylindrical fruits, Average weight of fruit	
Characters / features	111.93 g., Moderately resistant to powdery mildew, downy	
Characters / Teatures	mildew diseases and pests fruit fly, leaf miner, white fly thrips at field condition	



Broccoli - Ganesh Broccoli

Broccoll - Ganesh Broccoll	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	

Cluster bean- Phule Guar

	Release year	2016
	Name of Institute /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Sandy loam soil
Set-10	Climate	Optimal temperature range of 30-35° C.
Sowing Time / Planting	<i>Kharif</i> : June-July	
period	Summer: January-February	
Seed Rate	5-6 kg	
(Per acre)	J-0 kg	
Crop duration	100 to 105 days	
Productivity	Kharif : 104.00 q/ha	
Troductivity	Summer : 153.00 q/ha	
Characters / features	Attractive light green pods, pod length 6 cm, average weig	
50 pods is 41 g, Moderately resistant to power		ately resistant to powdery mildew disease



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Okra - Kirti

	Release year	1999	
	Name of Institute /	AICRP on Vegetable Crops, MPKV,	
CALL SEE	University	Rahuri	
The Park	Soil type	Medium, fertile and well drained.	
PHULE KIRTI	Climate	Subtropical	
Sowing Time / Planting	Kharif-June-July, Summer- January-February		
period	Kharij-Julie-July, Summer-Jahuary-Feoruary		
Seed Rate	6 kg		
(Per acre)			
Crop duration	100-125 days		
Productivity	160 q /ha		
Characters / features	Fruits are green with re-	d tinge, suitable for kharif and summer	
Characters / Teatures	season		

Okra - Phule Utkarsha

AAAAA	Release year	2003
AAAAA	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
	Soil type	Medium, fertile and well drained.
777	Climate	Subtropical
Sowing Time / Planting period	Kharif-June-July, Summer- 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	



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Okra - Phule Vimukta

	Release year	2016
	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
Town Town	Soil type	Medium, fertile and well drained.
this war II	Climate	Subtropical
Sowing Time / Planting	Kharif - June-July,	
period	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 shinning. Resistant to yellow vein mosaic virus disease	
Characters / Teatures		
Remark	Suitable for cultivation in Western Maharashtra	

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	Seed sowing -25 th September to 25 th October	
period	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	



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Ridge gourd -Phule Sucheta

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owing Time / Planti	ng

Release year	2001
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Name of Institute /	AICRP on Vegetable Crops, MPKV,
University	Rahuri
Soil type	Sandy loam soil
Climate	Optimal temperature range of 24-27°C.

Sowing Time / Planting	Kharif: June-July	
period	Summer : January-February	
Seed Rate	1.100	
(Per acre)	1 kg	
Crop duration	140-150 days	
Productivity	120 q/ha	
	Foliage colour dark green, Fruit colour green with prominent	
Characters / features	ridges on fruit, Tolerant to Downey mildew and Powdery mildew	
	under field conditions	

Pea - Phule Priya

HRP-87	
W. W. W. W.	

Release year	2010	
Name of Institute /	AICRP on Vegetable Crops, MPKV,	
University	Rahuri	
Soil type	Sandy loam soil	
Climate	Cool season crop	

	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

10-22	Release year	1992
	Name of Institute /	Tomato Improvement Project, MPKV,
The second	University	Rahuri
	Soil type	Medium Black
DHANASHREE	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
A STATE OF THE STA	Name of Institute /	Tomato Improvement Project, MPKV,
	University Soil type	Rahuri Medium Black
BHAGYASHREE	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	



Tomato- Rajashree (Hybrid)

	Release year	1996
	Name of Institute /	Tomato Improvement Project, MPKV,
	University	Rahuri
3.4	Soil type	Medium Black
RAJASHREE	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)

Phule Raja	Release year	2006
	Name of Institute /	Mahatma Phule Krishi
	University	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	



Tomato- Phule Kesari

Anna	Release year	2017
	Name of Institute /	Tomato Improvement Project, MPKV,
0-10-1-0	University	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</i> -carotene (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 /	Tomato Improvement Project, MPKV,
	University	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	



Onion - Baswant-780

TO AND THE PROPERTY OF THE PRO	Release year	1986
	Name of Institute / University	Onion & Grape Research Station, Pimpalgaon Baswant, Ta. Niphad, Dist. Nashik
	Soil type	Medium black, well drained
बसवंत- ७८०	Climate	Warm and humid
Sowing Time / Planting	Kharif: July-August	
period	Rangda: September-Mid October	
Seed Rate	3 kg	
(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	

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
N-2-4-1 (STORED)	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	



Information about Crop wise Improved / Hybrid Varieties Developed by University

Onion – N-53

<u>A</u>	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 kharif season in Western as well as Northern India	

Onion – Phule Safed (Dehydration purpose)

	Release year	1994
633565	Name of Institute / University	Scheme for Research on Onion Storage,MPKV,Rahuri
	Soil type	Medium black, well drained
फुले सफेद	Climate	Cool to warm with dry
Sowing Time / Planting	Kharif :July-August	
period	Rabi : October-November	
Seed Rate (Per acre)	3-3.5 Kg.	
Crop duration	120-125 days	
Productivity	250-300 qtl/ha	
	Bulbs are globular in shape with attractive white colour, TSS is	
Characters / features	13 %. Suitable for dehydration, Moderately resistant to purple	
	blotch and thrips, under field conditions	
Remark	Recommended for kharif Rangad and Rabi season	



Characters / features

Remark

Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Onion - Phule Suvarna

Omon - 1 nuic buvarna		
7	Release year	1996
	Name of Institute /	Scheme for Research on
The state of the s	University	Storage,MPKV,Rahuri
	Soil type	Medium black, well drained
फले सुवर्णा	Climate	Cool to warm with dry
Sowing Time / Planting	Kharif :July-August, Rabi : October-November	
period	, , , , , , , , , , , , , , , , , , , ,	
Seed Rate (Per acre)	3-3.5 Kg.	
Crop duration	120-125 days	
Productivity	240 qtl/ha	

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 Recommended for Rangad and Rabi season

for Research on Onion

Onion – Phule Samarth

Release year Name of Institute / University Scheme for Research on Onion Storage,MPKV,Rahuri Medium black, well drained Climate Cool to warm with dry Sowing Time / Planting period Seed Rate (Per acre) Crop duration Productivity 300 qtl/ha Controlled vegetative growth coupled with rapid bulb develment, 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 kharif season, and excellent keeping quality (2-3 months), Moderately resistant to purple blotch and thrips, under field conditions Remark Recommended for Kharif and Rangada season				
University Storage,MPKV,Rahuri Soil type Medium black, well drained Climate Cool to warm with dry Sowing Time / Planting period Kharif: July-August, Rangda: September- Mid October Seed Rate (Per acre) 3-3.5 Kg. Crop duration 90-100 days Productivity 300 qtl/ha Controlled vegetative growth coupled with rapid bulb develment, 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 kharif season, and excellent keeping quality (2-3 months), Moderately resistant to purple blotch and thrips, under field conditions		Release year	2004	
Sowing Time / Planting period Seed Rate (Per acre) Crop duration Productivity Characters / features Soil type Medium black, well drained Cool to warm with dry Kharif: July-August, Rangda: September- Mid October 3-3.5 Kg. Crop duration 90-100 days Controlled vegetative growth coupled with rapid bulb develment, 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 kharif season, and excellent keeping quality (2-3 months), Moderately resistant to purple blotch and thrips, under field conditions		Name of Institute /	Scheme for Research on Onion	
Sowing Time / Planting period Seed Rate (Per acre) Crop duration Productivity Characters / features Soll type Climate Cool to warm with dry Characters / features Cool to warm with dry Cool to warm with dry Kharif: July-August, Rangda: September- Mid October 3-3.5 Kg. Crop duration 90-100 days Controlled vegetative growth coupled with rapid bulb develment, 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 kharif season, and excellent keeping quality (2-3 months), Moderately resistant to purple blotch and thrips, under field conditions		University	Storage,MPKV,Rahuri	
Sowing Time / Planting period Seed Rate (Per acre) Crop duration Productivity Characters / features Kharif :July-August, Rangda : September- Mid October 3-3.5 Kg. Corop duration 90-100 days Controlled vegetative growth coupled with rapid bulb develment, 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 kharif season, and excellent keeping quality (2-3 months), Moderately resistant to purple blotch and thrips, under field conditions		Soil type		
Seed Rate (Per acre) Seed Rate (Per acre) Crop duration Productivity 3-3.5 Kg. Controlled vegetative growth coupled with rapid bulb develment, 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 kharif season, and excellent keeping quality (2-3 months), Moderately resistant to purple blotch and thrips, under field conditions	फूले समर्थ	Climate	Cool to warm with dry	
Crop duration 90-100 days Productivity 300 qtl/ha Controlled vegetative growth coupled with rapid bulb develment, 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 kharif season, and excellent keeping quality (2-3 months), Moderately resistant to purple blotch and thrips, under field conditions		Kharif: July-August, Rangda: September- Mid October		
Productivity 300 qtl/ha Controlled vegetative growth coupled with rapid bulb develment, 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 kharif season, and excellent keeping quality (2-3 months), Moderately resistant to purple blotch and thrips, under field conditions	Seed Rate (Per acre)	3-3.5 Kg.		
Characters / features New York / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1	Crop duration	90-100 days		
Characters / features 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 kharif season, and excellent keeping quality (2-3 months), Moderately resistant to purple blotch and thrips, under field conditions	Productivity	300 qtl/ha		
Remark Recommended for <i>Kharif</i> and <i>Rangada</i> season	Characters / features	early maturity, $(75 - 90 \text{ days})$, natural foliage top fall, thin bulb neck, dark red lustrous bulb colour, Globular bulb shape, high yield potential for regular and late kharif season, and excellent keeping quality $(2-3 \text{ months})$, Moderately resistant to purple		
	Remark	Recommended for Kharif and Rangada season		



Garlic- Godavari

	Release year	1987
	Name of Institute / University	AICRP on Vegetable Crops, MPKV, Rahuri
	Soil type	Medium black, well drained
GODAWARI	Climate	Cool season crop
Sowing Time / Planting period	Rabi : 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

SWETA	Release year	1987
	Name of Institute /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Medium black, well drained
SHEIA	Climate	Cool season crop
Sowing Time / Planting	Dali's Ostalon Massaulan	
period	Rabi : October-November	
Seed Rate	200 1/2	
(Per acre)	200 kg	
Crop duration	120-130 days	
Productivity	130 q/ha	
Characters / feetures	Bulb medium in size with 20-25 cloves, Cloves are white in	
Characters / features	colour, Tolerant to thrips and mites	



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 /	AICRP on Vegetable Crops, MPKV,
	University	Rahuri
	Soil type	Medium black, well drained
6el. 10-3 .	Climate	Cool season crop
Sowing Time / Planting period	Rabi : October-November	
Seed Rate	200 kg	
(Per acre)		
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	



French bean - Phule Surekha

ARREST	Release year	1997
E THE STREET	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
	Soil type	Light to medium and well drained
= 14441 =	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

French Bean - Phule Suyash	Release year	2003
A PART	Name of Institute / University	N.A.R.P, Ganeshkhind, Pune
	Soil type	Light to medium and well drained
	Climate	Subtropical
Sowing Time / Planting	Kharif -June to July,	
period	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	



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	

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	Rabi	
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	