




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

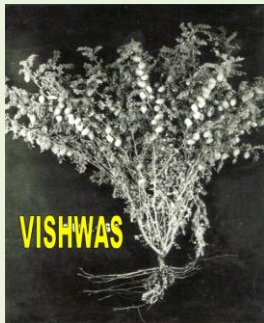
Improved / Hybrid Varieties of Chickpea

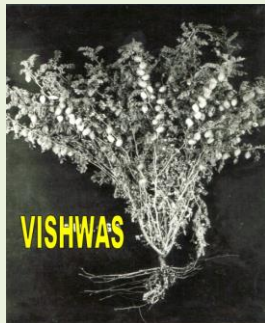
Chickpea-Vikas



	Release year	1982
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Rainfed crop : 20 th Sept to 10 Oct Irrigated crop : 20 th Oct to 10 Nov Duration : 105-110 Days	
Seed Rate (Per acre)	Seed rate : 30 kg acre ⁻¹	
Crop duration	105-110 Days	
Productivity	Rainfed: Trial yield: 10-11 q ha ⁻¹ , Average yield: 10.00 q ha ⁻¹ Irrigated: Trial yield: 22-24 q ha ⁻¹ , Average yield: 15.00 q ha ⁻¹	
Characters / features	Medium size seeds, less damage by bruchid beetles in storage, Suitable for rainfed condition, Released for Western Maharashtra.	

Chickpea-Vishwas




	Release year	1985
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Rainfed crop : 20 th Sept to 10 Oct Irrigated crop : 20 th Oct to 10 Nov Duration : 115-120 Days	
Seed Rate (Per acre)	35-40 kg acre ⁻¹	
Crop duration	115-120 Days	
Productivity	Rainfed : Trial yield: 10-11 q ha ⁻¹ , Average yield: 10.00 q ha ⁻¹ Irrigated: Trial yield: 28-30 q ha ⁻¹ , Average yield: 24.00 q ha ⁻¹	
Characters / features	Bold seeds, Responsive to irrigation and fertilizer, Released for Maharashtra, Madhya Pradesh, Gujrat, W.Bengal, East Uttar Pradesh, Orissa and Bihar.	




Mahatma Phule Krishi Vidyapeeth, Rahuri

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Chickpea-Phule G 12

	Release year	1989
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Rainfed crop : 20 th Sept to 10 Oct Irrigated crop : 20 th Oct to 10 Nov Duration : 110-115 Days	
Seed Rate (Per acre)	Seed rate : 30 kg acre ⁻¹	
Crop duration	110-115 Days	
Productivity	Rainfed: Trial yield : 12 – 13 q ha ⁻¹ , Average yield: 10.00 q ha ⁻¹ Irrigated: Trial yield : 28 – 30 q ha ⁻¹ , Average yield :22.00 q ha ⁻¹	
Characters / features	Attractive yellowish brown medium size seeds, Suitable for rainfed and irrigated conditions, Released for Maharashtra.	

Chickpea-Vijay

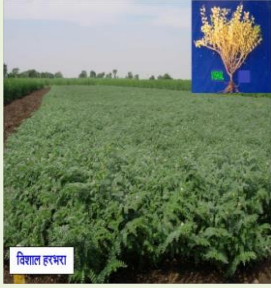
	Release year	1993
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Rainfed crop : 20 th Sept to 10 Oct Irrigated crop : 20 th Oct to 10 Nov Duration : 105-110 Days	
Seed Rate (Per acre)	Seed rate : 30 kg acre ⁻¹	
Crop duration	105-110 Days	
Productivity	Rainfed: Trial yield: 14-15 q ha ⁻¹ , Average yield: 14.00 q ha ⁻¹ Irrigated: Trial yield: 35-40 q ha ⁻¹ , Average yield: 23.00 q ha ⁻¹ Late sown: Trial yield : 16-18 q ha ⁻¹ , Average yield : 16.00 q ha ⁻¹	
Characters / features	High yield potential, wilt resistant, drought tolerant, Suitable for rainfed, irrigated and late sown conditions, Released for Maharashtra, Madhya Pradesh and Gujarat.	




Mahatma Phule Krishi Vidyapeeth, Rahuri

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Chickpea-Vishal

	Release year	1995
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Rainfed crop : 20 th Sept to 10 Oct Irrigated crop : 20 th Oct to 10 Nov Duration : 110-115 Days	
Seed Rate (Per acre)	Seed rate : 35-40 kg acre ⁻¹	
Crop duration	110-115 Days	
Productivity	Rainfed: Trial yield: 14-15 q ha ⁻¹ , Average yield: 13.00 q ha ⁻¹ Irrigated: Trial yield: 30-35 q ha ⁻¹ , Average yield: 20.00 q ha ⁻¹	
Characters / features	Attractive yellowish brown bold seeds, wilt resistant, Fetches good market price, suitable for irrigated conditions, Released for Western Maharashtra.	

Chickpea-Virat

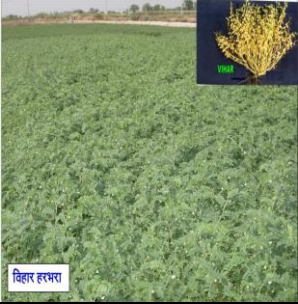
	Release year	2001
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Irrigated crop : 20 th Oct to 10 Nov Duration : 110-115 Days	
Seed Rate (Per acre)	Seed rate : 35-40 kg acre ⁻¹	
Crop duration	110-115 Days	
Productivity	Rainfed: Trial yield: 10 – 12 q ha ⁻¹ , Average yield: 11.00 q ha ⁻¹ Irrigated: Trial yield: 30-32 q ha ⁻¹ , Average yield: 19.00 q ha ⁻¹	
Characters / features	Extra bold seeded kabuli variety, Wilt resistant, Released for Maharashtra.	




Mahatma Phule Krishi Vidyapeeth, Rahuri

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Chickpea-Vihar

	Release year	2002
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15°C, Maximum temperature 25 to 30°C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Irrigated crop : 20 th Oct to 10 Nov Duration : 90-95 Days (SZ : Karnataka, A.P, Orissa and Tamilnadu)	
Seed Rate (Per acre)	Seed rate : 35-40 kg acre ⁻¹	
Crop duration	90-95 Days (SZ : Karnataka, A.P, Orissa and Tamilnadu)	
Productivity	Irrigated: Trial yield: 30-32 q ha ⁻¹ , Average yield: 18.00 q ha ⁻¹	
Characters / features	Extra bold seeded kabuli variety, Wilt resistant, Released for Karnataka, Andhra Pradesh, Orissa and Tamilnadu.	

Chickpea-Rajas


	Release year	2005
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15°C, Maximum temperature 25 to 30°C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Late sown irrigated crop : First week of December Duration : 135-140 Days in NWPZ	
Seed Rate (Per acre)	Seed rate : 35-40 kg acre ⁻¹	
Crop duration	135-140 Days in NWPZ	
Productivity	Late sown : Trial Yield : 20-22 q ha ⁻¹ , Average yield : 18.00 q ha ⁻¹	
Characters / features	Yellowish brown bold seeds, Wilt resistant, Suitable for late sown conditions of North West Plain Zone. Released for Rajasthan, Punjab, Haryana Uttaranchal, New Delhi, and Jammu.	




Mahatma Phule Krishi Vidyapeeth, Rahuri

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Chickpea-Digvijay

	Release year	2006
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Rainfed crop : 20 th Sept to 10 Oct Irrigated crop : 20 th Oct to 10 Nov Duration : 105-110 Days	
Seed Rate (Per acre)	Seed rate : 35-40 kg acre ⁻¹	
Crop duration	105-110 Days	
Productivity	Rainfed: Trial yield: 14-15 q ha ⁻¹ , Average yield: 14.00 q ha ⁻¹ Irrigated: Trial yield: 35-40 q ha ⁻¹ , Average yield: 23.00 q ha ⁻¹ Late sown: Trial yield: 20-22 q ha ⁻¹ , Average yield: 21.00 q ha ⁻¹	
Characters / features	High yield potential, bold seeds, wilt resistant, Suitable for rainfed, irrigated and late sown conditions, Released for Maharashtra	

Chickpea-Kripa


	Release year	2009
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Irrigated crop : 20 th Oct to 10 Nov Duration : 105-110 Days	
Seed Rate (Per acre)	Seed rate : 45-50 kg acre ⁻¹	
Crop duration	105-110 Days	
Productivity	Irrigated : Trial Yield : 30-32 q ha ⁻¹ , Average yield : 18.00 q ha ⁻¹	
Characters / features	Extra-large seeded kabuli variety (59.4 g/100 seeds), milky white seed colour, Fetches premium market price, Released for MS, MP and Karnataka	




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Chickpea-Himali

	Release year	2012
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea :Irrigated crop : 20 th Oct to 10 Nov Duration : 190-195 Days (NHZ)	
Seed Rate (Per acre)	Seed rate : 35-40 kg acre ⁻¹	
Crop duration	190-195 (NHZ)	
Productivity	Irrigated: Average yield : 12.00 q ha ⁻¹ Potential yield- 44.00 q ha ⁻¹	
Characters / features	Extra bold seeded kabuli variety, 37.7 g. per 100 seeds, Wilt resistant, Released for NHZ (North Hill Zone comprising the states of Jammu and Kashmir, Himachal Pradesh, Uttarakhand and NEH region).	

Chickpea-Phule Vikram

	Release year	2016
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Rainfed crop : 20 th Sept to 10 Oct Irrigated crop : 20 th Oct to 10 Nov Late sown : First week of December Duration : 105-110 Days	
Seed Rate (Per acre)	Seed rate : 30 kg acre ⁻¹	
Crop duration	105-110 Days	
Productivity	Rainfed : Potential Yield : 16-18 q ha ⁻¹ , Average yield : 16.00 q ha ⁻¹ Irrigated : Potential Yield : 35-42 q ha ⁻¹ , Average yield : 22.00 q ha ⁻¹ Late sown : Potential Yield : 20-22 q ha ⁻¹ , Average yield : 21.00 q ha ⁻¹	
Characters / features	Tall growth habit hence suitable for mechanical harvesting, medium size yellowish brown seeds, Wilt resistant, suitable for rainfed, irrigated and late sown conditions, Released for Maharashtra.	



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Chickpea-Phule Vikrant (Phule G 0405)



	Release year	2017
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Irrigated crop : 20 th Oct to 10 Nov Duration : 105-110 Days	
Seed Rate (Per acre)	Seed rate : 30 kg acre ⁻¹	
Crop duration	105-110 Days	
Productivity	Irrigated : Trial Yield : 35-42 q ha ⁻¹ , Average yield : 20.00 q ha ⁻¹	
Characters / features	Yellowish brown medium size seeds, Wilt resistant, suitable for irrigated condition, Released for WCZ (MS, Gujarat, West MP and South Rajasthan)	

Chickpea-Phule Vishwaraj



	Release year	2020
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	Minimum temperature 10-15 ⁰ C, Maximum temperature 25 to 30 ⁰ C Rainfall 750 to 1000 mm Humidity 21-41 %
Sowing Time / Planting period	Optimum sowing period for chickpea : Rainfed crop : 20 th Sept to 10 Oct Irrigated crop : 20 th Oct to 10 Nov Duration : 105-110 Days	
Seed Rate (Per acre)	Seed rate : 30 kg acre ⁻¹	
Crop duration	95-105 Days	
Productivity	Average yield : 15.63 q ha ⁻¹ (rainfed condition)	
Characters / features	Suitable for rainfed condition Resistant to <i>Fusarium</i> wilt. Yellowish brown, medium size seeds (22-23 g/100 seeds).	



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Pigeon pea – T-Vishakha 1



	Release year	1982
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	21 to 25 °C to 30 to 35°C, Rainfall 750 to 1000 mm Humidity 60-80 %
Sowing Time / Planting period	2 nd fortnight of June to First week of July	
Seed Rate (Per acre)	Seed rate : 1.800 - 2.000 kg acre ⁻¹	
Crop duration	135-140 Days	
Productivity	Irrigated : Average yield : 10-12 q ha ⁻¹	
Characters / features	Early maturity, Suitable for sole and multiple cropping, red colour seeds, Released for Maharashtra.	

Pigeon pea-Vipula



	Release year	2006
	Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
	Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
	Climate	21 to 25 °C to 30 to 35°C, Rainfall 750 to 1000 mm Humidity 60-80 %
Sowing Time / Planting period	2 nd fortnight of June to First week of July Duration : 160-170 Days	
Seed Rate (Per acre)	Seed rate : 1.800 - 2.000 kg acre ⁻¹	
Crop duration	160-170 Days	
Productivity	Trial Yield : 28-30 q ha ⁻¹ , Average yield : 16.00 q ha ⁻¹	
Characters / features	Resistant to <i>Fusarium</i> wilt, moderately resistant to sterility mosaic disease, Red colour medium seeds, Released for Maharashtra.	



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Pigeon pea-Rajeshwari



Release year	2012
Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
Climate	Temperature range: 21 to 25 °C to 30 to 35°C, Rainfall 750 to 1000 mm Humidity 60-80 %
Sowing Time / Planting period	2 nd fortnight of June to First week of July Duration : 135-150 Days
Seed Rate (Per acre)	Seed rate : 1.800 - 2.000 kg acre ⁻¹
Crop duration	135-150 Days
Productivity	Trial Yield : 28-30 q ha ⁻¹ , Average yield : 22.00 q ha ⁻¹
Characters / features	Early maturity, dark brown colour, medium bold seeds (10.5 to 11.0 g/100 seeds), Moderately resistant to wilt and sterility mosaic diseases, Released for Maharashtra, MP and Gujarat

Pigeon pea- Phule Trupti



Release year	2022
Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
Climate	Temperature range: 21 to 25 °C to 30 to 35°C, Rainfall 750 to 1000 mm Humidity 60-80 %
Sowing Time / Planting period	2 nd fortnight of June to First week of July
Seed Rate (Per acre)	Seed rate : 1.800 - 2.000 kg acre ⁻¹
Crop duration	167-169 Days
Productivity	Potential Yield : 32.03 q ha ⁻¹ , Average yield : 22.66 q ha ⁻¹
Characters / features	Recommended for timely sown condition in <i>kharif</i> season, irrigated and rainfed situation. Light brown colour, bold seeds (10.81 g/100 seeds), Moderately resistant to wilt and sterility mosaic diseases, released for Maharashtra, Madhya pradesh, Gujarat and Chattisgard



Mahatma Phule Krishi Vidyapeeth, Rahuri

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Pigeon pea- Phule Kaveri



Release year	2022
Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
Climate	Temperature range: 21 to 25 °C to 30 to 35°C, Rainfall 750 to 1000 mm Humidity 60-80 %
Sowing Time / Planting period	2 nd fortnight of June to First week of July
Seed Rate (Per acre)	Seed rate : 1.800 - 2.000 kg acre ⁻¹
Crop duration	164-166 Days
Productivity	Potential Yield : 24.41 q ha ⁻¹ , Average yield : 15.91 q ha ⁻¹
Characters / features	Recommended for timely sown condition in <i>kharif</i> season, irrigated and rainfed situation. Light brown colour, bold seeds (11.52 g/100 seeds), Moderately resistant to wilt and sterility mosaic diseases, released for Tamilnadu, Karnataka, Andhra Pradesh and Telangana

Pigeonpea - Phule Pallavi (PT-12-19-2)



Release year	2024
Name of Institute / University	Pulses Improvement Project, MPKV, Rahuri
Soil type	Well drained, medium to deep soils having 45 to 60 cm depth.
Climate	Temperature range: 21 to 25 °C to 30 to 35°C, Rainfall 750 to 1000 mm Humidity 60-80 %
Sowing Time / Planting period	Second fortnight of June to first week of July
Seed Rate	5.00 kg/ha for 180 x 30 cm spacing. Line sowing by seed drill and 8-10 kg/ha for 90 x 30 cm sowing.
Crop duration	Mid early maturity (157-159 days)
Productivity	Average yield- 21.45 q ha ⁻¹ , Yield potential- 37.11 q ha ⁻¹
Characters / features	Light brown color and bold grains (11.00g /100 seeds), Moderately resistant to wilt and sterility mosaic diseases and showing less incidence of pod borer and pod fly
Remark	Recommended for central zone (Maharashtra, Gujarat, Madhya Pradesh, Rajasthan and Chhattisgarh) of India



Mahatma Phule Krishi Vidyapeeth, Rahuri

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Horsegram - Seena



	Release year	1984
	Name of Institute / University	AICRP on DLA, Solapur, MPKV, Rahuri
	Soil type	Light soil
	Climate	Optimum Temperature:22.0 to 32.0 °C
Sowing Time / Planting period	15 June to 15 July	
Seed Rate (Per acre)	6.0 kg acre ⁻¹	
Crop duration	115-120 days	
Productivity	6-8 q ha ⁻¹ (2.5-3.0 q acre ⁻¹)	
Characters / features	Grain colour brick red	
Remarks	Recommended for Maharashtra state	

Horsegram - Man



	Release year	1986
	Name of Institute / University	AICRP on DLA, Solapur, MPKV, Rahuri
	Soil type	Light soil
	Climate	Optimum Temperature:22.0 to 32.0 °C
Sowing Time / Planting period	15 June to 15 July	
Seed Rate (Per acre)	6.0 kg acre ⁻¹	
Crop duration	100-105 days	
Productivity	6-7 q ha ⁻¹ (2.5-3.0 q acre ⁻¹)	
Characters / features	Grain colour -Ash, high crude protein-18.37%, Iron 36.23 mg/100g, Erect type	
Remarks	Recommended for Maharashtra state	



Mahatma Phule Krishi Vidyapeeth, Rahuri

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Horsegram - Phule Sakas



	Release year	2016
	Name of Institute / University	AICRP on DLA, Solapur, MPKV, Rahuri
	Soil type	Light soil
	Climate	Optimum Temperature:22.0 to 32.0 °C
Sowing Time / Planting period	15 June to 15 July	
Seed Rate (Per acre)	6.0 kg acre ⁻¹	
Crop duration	90-95 days	
Productivity	8-10 q ha ⁻¹ (3.0-4.0 q acre ⁻¹)	
Characters / features	Grain colour -brown, Early maturity, high crude protein-22.09%, Iron37.86mg/100g	
Remarks	Recommended for Maharashtra state	

Mothbean - MBS-27



	Release year	1989
	Name of Institute / University	AICRP on DLA, Solapur, MPKV, Rahuri
	Soil type	Light soil
	Climate	Optimum Temperature:22.0 to 34.0 °C
Sowing Time / Planting period	15 June to 15 July	
Seed Rate (Per acre)	6.0 kg acre ⁻¹	
Crop duration	120-130 days	
Productivity	6-7 q ha ⁻¹ (2.5-3.0 q acre ⁻¹)	
Characters / features	Grain colour -brown	
Remarks	Recommended for Maharashtra state	



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Moth bean - Phule Sarita (MBS-803)



Release year	2020
Name of Institute / University	ZARS, Solapur
Soil type	Light to Medium Soil
Climate	Suitable for <i>Kharif</i>
Sowing Time / Planting period	First fort night of June to 7 th July.
Seed Rate	6-7 kg ha ⁻¹
Crop duration	118 days
Productivity	6 q ha ⁻¹ (average)
Characters / features	Early maturity, Moderately resistant to yellow vein mosaic

Cowpea – Phule Pandhari (PCP 9708)



Release year	2007
Name of Institute / University	Mahatma Phule Krishi Vidyapeeth Rahuri
Soil type	Medium to Deep soils Multipliable cropping Systems (Rain fed /Irrigated conditions)
Climate	Humid and Dry land conditions
Sowing Time / Planting period	Through out the year, K:1 st Forth night of June to 2 nd fort night of July Planting period : K: June to July and Summer : Feb to March
Seed Rate (Per acre)	10-12 kg
Crop duration	65-72 days
Productivity	15-25 q ha ⁻¹
Characters / features	High yielding, Short duration Erect growth habit, Brown shiny grains, suitable for multiple cropping system, Pale green leaf & stem colour, non-Lodging, Moderately resistant to Pest and Diseases



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Cowpea – Phule Vithai (PCP 05040)



	Release year	2015
	Name of Institute / University	Mahatma Phule Krishi Vidyapeeth Rahuri
	Soil type	Medium to Deep soils Multipliable cropping Systems (Rain fed /Irrigated conditions)
	Climate	Humid and Dry land conditions
Sowing Time / Planting period	Throughout the year, K:1 st Forth night of June to 2 nd fort night of July Planting period : K: June to July and Summer : Feb to March	
Seed Rate (Per acre)	10-12 kg acre ⁻¹	
Crop duration	65-72 days	
Productivity	15-25 q ha ⁻¹	
Characters / features	High yielding Indeterminate, off white kidney shape seeds, Early, Erect growth habit, Suitable for multiple of Western Maharashtra cropping system, Dark green and medium size leaflets, Dark purple flower colour non Lodging, Moderately resistant to Pest and Diseases	

Cowpea – Phule Rukmini (PCP 0306-1)



	Release year	2016 (Central release South zone of India) (CVRC)
	Name of Institute / University	Mahatma Phule Krishi Vidyapeeth Rahuri
	Soil type	Medium to Deep soils Multipliable cropping Systems (Rain fed /Irrigated conditions)
	Climate	Dry land conditions
Sowing Time / Planting period	Through out the year, K:1 st Forth night of June to 2 nd fort night of July Planting period : K: June to July and Summer : Feb to March	
Seed Rate (Per acre)	10-12 kg acre ⁻¹	
Crop duration	75-77 days	
Productivity	10-15 q ha ⁻¹	
Characters / features	High yielding Indeterminate, Pearly white kidney shape seeds, Early, Erect growth habit, Suitable for multiple cropping system of south zone of India, Dark green and medium size leaflets, non-Lodging, Moderately resistant to Pest and Diseases	




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Cowpea – Phule Sonali (PCP-1123)



	Release year	2020
	Name of Institute / University	Pulse, Oilseed Crops Research & Training Centre, Pandharpur, Dist. Solapur
	Soil type	Medium to Deep soils Multipliable cropping Systems (Rain fed /Irrigated conditions)
	Climate	Dry land conditions
Sowing Time / Planting period	Kharif- June to July Summer- February to March	
Seed Rate (Per acre)	10-12 kg acre ⁻¹	
Crop duration	75-77 days	
Productivity	14 q ha ⁻¹	
Characters / features	Determinante and uniform maturing, Dwarf, Erect Compact,	

Urdbean – TPU-4




	Release year	1992
	Name of Institute / University	Name of Institute/University: BARC, Mumbai and Pulses Improvement Project, MPKV Rahuri
	Soil type	Medium to Black Cotton Soil
	Climate	Suitable for Kharif planting in all the districts of Maharashtra, Madhya Pradesh and Gujrat.
Sowing Time / Planting period	First fort night of June to 7 th July.	
Seed Rate (Per acre)	6-7 kg acre ⁻¹	
Crop duration	70-75 days	
Productivity	10-12 q ha ⁻¹ (Potential), 9-10 q ha ⁻¹ (Average)	
Characters / features	Tolerant to Powdery mildew and Yellow mosaic virus, Growth habit: Tall, semi spreading, Profuse branching, broad leaves, bold seed size.	




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Urdbean – Phule Vasu

	Release year	2021
	Name of Institute / University	MPKV Rahuri
	Soil type	Medium to Deep
	Climate	Suitable for <i>Kharif</i> season
Sowing Time / Planting period	First fort night of June to 7 th July.	
Seed Rate (Per acre)	6-7 kg acre ⁻¹	
Crop duration	73 days	
Productivity	8.59 q ha ⁻¹	
Characters / features	Tolerant to Powdery mildew and Yellow mosaic virus, early maturity, bold seeded, test weight- 4.87 g/ 100 seeds.	
Remark	Recommended for cultivation in Maharashtra in rainfed conditions	

Urdbean – Phule Rajan

	Release year	2022
	Name of Institute / University	MPKV Rahuri
	Soil type	Medium to Deep
	Climate	Suitable for <i>Kharif</i> season
Sowing Time / Planting period	First fort night of June to 7 th July.	
Seed Rate (Per acre)	6-7 kg acre ⁻¹	
Crop duration	77 days	
Productivity	8.32 q ha ⁻¹ (potential yield- 18.30 q ha ⁻¹)	
Characters / features	Moderately tolerant to Powdery mildew and Yellow mosaic virus, test weight- 3.92 g/ 100 seeds, bright, bold, black seed	
Remark	Recommended for cultivation in Maharashtra	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Mungbean - Phule M-2



Release year	1989
Name of Institute / University	Mahatma Phule Krishi Vidyapeeth, Rahuri
Soil type	Medium black
Climate	Kharif & Summer
Sowing Time / Planting period	Second week of June
Seed Rate	15-20 kg acre ⁻¹
Crop duration	60-65 days
Productivity	8-10 q ha ⁻¹
Characters / features	Medium size, green colour seeds, (100 seed wt: 3.6-3.8 g), suitable for kharif and summer season, released for W. Maharashtra

Mungbean - Vaibhav




Release year	2001
Name of Institute / University	Pulses Improvement Project, MPKV Rahuri
Soil type	Medium to Black Cotton Soil
Climate	Suitable for Kharif planting in all the districts of Maharashtra.
Sowing Time / Planting period	First fort night of June to 7 th July.
Seed Rate	15-20 kg ha ⁻¹
Crop duration	69-74
Productivity	12-14 q ha ⁻¹ (Potential), 10-12 q ha ⁻¹ (Average)
Characters / features	Resistant to Powdery mildew, Growth habit: Tall, semi spreading, Profuse branching, green stem with, light pigmentation, broad leaves, with brown midrib, long pods with bold seed size.




Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Mungbean - Phule Chetak (PM-707-5)

	Release year	2020
	Name of Institute / University	Oil Seed Research Station, Jalgaon
	Soil type	Medium to Deep
	Climate	Suitable for <i>Kharif</i> season
Sowing Time / Planting period	First fort night of June to 7 th July.	
Seed Rate	12-15 kg ha ⁻¹	
Crop duration	65- 69 days	
Productivity	Average Yield- 10 q ha ⁻¹ , Potential yield- 19 q ha ⁻¹	
Characters / features	Bold seeded (average 100 seed weight 4.77g), moderately resistance to major diseases (powdery mildew, mungbean yellow mosaic virus) under field conditions.	

Mungbean - Phule Suvarn (PM-702-1)

	Release year	2022
	Name of Institute / University	Oil Seed Research Station, Jalgaon
	Soil type	Medium to Deep
	Climate	Suitable for <i>Kharif</i> season
Sowing Time / Planting period	First fort night of June to 7 th July.	
Seed Rate	12-15 kg ha ⁻¹	
Crop duration	69 days	
Productivity	Average Yield- 8.85 q ha ⁻¹ , Potential yield- 18.70 q ha ⁻¹	
Characters / features	Suitable for late sown condition, medium seeded (average 100 seed weight 3.77g), moderately resistance to major diseases (powdery mildew, mungbean yellow mosaic virus) under field conditions.	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Rajmah - Mutha (HPR-35)



	Release year	1994
	Name of Institute / University	NARP, Ganeshkhind, Pune
	Soil type	Medium deep soil
	Climate	Cold and dry climate
Sowing Time / Planting period	Kharif: 15 th June to 15 th July Rabi: 15 th Oct. to 15 th Nov	
Seed Rate	90 kg ha ⁻¹	
Crop duration	72-74 days	
Productivity	12-13 q ha ⁻¹	
Characters / features	Purple with black streak, Bold seed (35.00g./100g.seed), Protein content-23.33%, Carbohydrate content- 63.73%, Moderately resistant to anthracnose and CBMV, Resistance to water lodging condition	

Rajmah - Varun



	Release year	2001
	Name of Institute / University	NARP, Ganeshkhind, Pune
	Soil type	Well drained, Medium to deep
	Climate	Cold and Dry climate
Sowing Time / Planting period	Kharif: 15 th June to 15 th July Rabi: 15 th Oct. to 15 th November	
Seed Rate (Per acre)		
Crop duration	65-70 days	
Productivity	15-17 q ha ⁻¹	
Characters / features	Dough white with purple streak attractive seed coat color, Bold seed (34.00 g./100g.seed), Protein content-23.60%, Carbohydrate content- 61.64%, Moderately resistant to Anthracnose and CBMV, Flower color: pinkish white	



Mahatma Phule Krishi Vidyapeeth, Rahuri

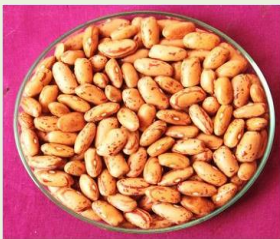
Information about Crop wise Improved / Hybrid Varieties Developed by University

Rajmah - Phule Rajmah (GRB-902)



	Release year	2017
	Name of Institute / University	NARP, Ganeshkhind, Pune
	Soil type	Well drained, Medium to deep
	Climate	Cold and Dry climate
Sowing Time / Planting period	Kharif: 15 th June to 15 th July Rabi: 15 th Oct. to 15 th November	
Seed Rate (Per ha)	90-100 kg ha ⁻¹	
Crop duration	76-80 days	
Productivity	17-19 q ha ⁻¹	
Characters / features	Dough white with pinkish streak attractive seed coat color, Bold seed (36.50g./100g.seed), Protein content-23.38%, Carbohydrate content- 63.93%, Moderately resistant to Fusarium wilt and CBMV Moderately resistance to pod borerand white fly, Flower color: Pinkish white	

Rajmah – Phule Viraj (GRB-701)



	Release year	2022
	Name of Institute / University	NARP, Ganeshkhind, Pune
	Soil type	Well drained, Medium to deep
	Climate	Cold and Dry climate
Sowing Time / Planting period	Kharif: 15 th June to 15 th July Rabi: 15 th Oct. to 15 th November	
Seed Rate (Per acre)	90 kg ha ⁻¹	
Crop duration	80-82 days	
Productivity	Average Productivity-16-17 q ha ⁻¹ , Potential Yield- 21.45 q ha ⁻¹	
Characters / features	Dough white with purple streak attractive seed coat color, Bold seed (35.80 g./ 100g seed), Protein content- 24.26 %, Carbohydrate content- 64.72 %, tolerant to <i>Fusarium wilt</i> and BCMV	
Remark	Recommended for <i>Kharif</i> season in Western Maharashtra	