



## Improved / Hybried Varieties of Cotton

### Y-1 (*Gossypium arboreum* L.)

<b>Release year</b>	1969
<b>Name of Institute / University</b>	ARS, Jalgaon MPKV, Rahuri
<b>Soil type</b>	Medium to deep, well drained soils.
<b>Climate</b>	Rainfed
<b>Sowing Time / Planting period</b>	
<b>Seed Rate (Per acre)</b>	3.5-4.0 kg/ha
<b>Crop duration</b>	200-210 days
<b>Productivity</b>	6.0 to 7.0 Average yield (q/ha)
<b>Characters / features</b>	Hairy stem, medium deeply lobed, slight hairy leaf, nectary present, ashy white petal colour with yellow anther, eye spot present, Ginning percent 38, Fibre length (mm) 22.0mm, Bundle Strength (g/tex) 8.8PSI, Micronaire value (ug/inch) 4.6, Spinning potential (Counts) 29 <sup>S</sup>
<b>Remark</b>	Recommended Area of Cultivation <i>Khandesh</i> tract of Maharashtra Drought tolerant variety

### Jyoti (*Gossypium arboreum* L.)

<b>Release year</b>	1978
<b>Name of Institute / University</b>	ARS, Jalgaon MPKV, Rahuri
<b>Soil type</b>	Medium to deep, well drained soils.
<b>Climate</b>	Rainfed
<b>Sowing Time / Planting period</b>	
<b>Seed Rate (Per acre)</b>	2.5-3.0 kg/ha
<b>Crop duration</b>	180-190 days
<b>Productivity</b>	6.0 to 8.0 Average yield (q/ha)
<b>Characters / features</b>	Medium deeply lobed, slight hairy leaf, nectary present, yellow petal colour with yellow anther, eye spot present, small boll size, Ginning percent 38, Fibre length (mm) 23, Bundle Strength (g/tex) 8.4 PSI, Micronaire value (ug/inch) 5, Spinning potential (Counts) 32 <sup>S</sup>
<b>Remark</b>	Recommended Area of Cultivation <i>Khandesh</i> tract of Maharashtra



## Mahatma Phule Krishi Vidyapeeth, Rahuri

### Information about Crop wise Improved / Hybried Varieties Developed by University

#### Savitri (RHR-253) (*G. hirsutum* L. x *G. barbadense* L.)

	Release year	1978
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium to deep, well drained soils.
	Climate	Irrigated
Sowing Time / Planting period		
Seed Rate (Per acre)	2.5-3.0 kg/ha	
Crop duration	150-165 days	
Productivity	24.0-26.0 Average yield (q/ha)	
Characters / features	Leaf nectary present, pale yellow petal colour with yellow anther, eye spot present, oblong with pointed break medium size boll, pitted boll surface, Ginning percent 32-33, Fibre length (mm) 32.2, Bundle Strength (g/tex) 8.7 PSI, Micronaire value (ug/inch) 3.1, Spinning potential (Counts) 60-80s	
Remark	Recommended Area of Cultivation, Deccan canal tract of Western Maharashtra	

#### Nira (Kop-498) (*Gossypium hirsutum* L.)

	Release year	1986
	Name of Institute / University	ARS, Kopergaon MPKV, Rahuri
	Soil type	Medium to deep, well drained soils.
	Climate	Irrigated
Sowing Time / Planting period		
Seed Rate (Per acre)	3.0-3.5 kg/ha	
Crop duration	145-155 days	
Productivity	20.0 to 22.0 Average yield (q/ha)	
Characters / features	leaf nectary present, cream petal colour with yellow anther, eye spot absent, white fuzz colour, seed index 10.1, Ginning percent 37.2, Fibre length (mm) 25.9, Bundle Strength (g/tex) 7.1 PSI, Micronaire value (ug/inch) 4.4, Spinning potential (Counts) 30-35S	
Remark	Recommended Area of Cultivation, Deccan canal area of Western Maharashtra under summer irrigated conditions, Resistant to fusarium wilt & leaf spot, Mod. susceptible to jassids and bollworm	



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#### JLH-168 (*Gossypium hirsutum* L.)

Release year	1986
Name of Institute / University	ARS, Jalgaon MPKV, Rahuri
Soil type	Medium to deep, well drained soils.
Climate	Rainfed
Sowing Time / Planting period	
Seed Rate (Per acre)	3.0-3.5 kg/ha
Crop duration	170-180 days
Productivity	10.0 to 12.0 Average yield (q/ha)
Characters / features	Leaf nectary present, cream petal colour with yellow anther, eye spot absent, medium boll size, Ginning percent 36.3, Fibre length (mm) 27.2, Bundle Strength (g/tex) 8.7 PSI, Micronaire value (ug/inch) 3.6, Spinning potential (Counts) 30S
Remark	Deccan canal area of Western Maharashtra under summer irrigated conditions, Moderately susceptible to jassids and bollworm

#### Sampada (RHH-95) (*G. hirsutum* L. x *G. hirsutum* L.)


Release year	1986
Name of Institute / University	MPKV, Rahuri
Soil type	Medium to deep, well drained soils.
Climate	Irrigated
Sowing Time / Planting period	
Seed Rate (Per acre)	2.5-3.0 kg/ha
Crop duration	150-160 days
Productivity	24.0-25.0 Average yield (q/ha)
Characters / features	Petal colour yellow with dark yellow anthers, petal spot absent, Ginning percent 37.2, C. Fibre length (mm) 25, Bundle Strength (g/tex) 7.1 PSI, Micronaire value (ug/inch) 3.4, Spinning potential (Counts) 35-40S
Remark	Recommended Area of Cultivation, Deccan canal tract of Western Mahara-shtra under summer irrigated conditions




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#### Phule-492 (RHH-0492) (*G. hirsutum* L. x *G. hirsutum* L.)

	Release year	2002
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium to deep, well drained soils.
	Climate	Irrigated
Sowing Time / Planting period		
Seed Rate (Per acre)	3.0-3.5 kg/ha	
Crop duration	150-160	
Productivity	23.0-25.0 Average yield (q/ha)	
Characters / features	Hybrid- Petal colour- pale yellow, anther colour- creamy, petal spot- absent, Ginning percent 37.1, Fibre length (mm) 26.6, Bundle Strength (g/tex) 22.3g/tex, Micronaire value (ug/inch) 4, Spinning potential (Counts) 30-40S	
Remark	Recommended Area of Cultivation, Deccan canal areas of Western Maharashtra under summer irrigated conditions, Mod. Resistant to ALB, BLB and resistant to parawilt, tol. to aphids, jassids & bollworms	

#### Phule-388 (RHB-0388) (*G. hirsutum* L. x *G. barbadense* L.)

	Release year	2002
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium to deep, well drained soils.
	Climate	Irrigated
Sowing Time / Planting period		
Seed Rate (Per acre)	3.0-3.5 kg/ha	
Crop duration	170-175	
Productivity	18.0-19.0 Average yield (q/ha)	
Characters / features	Hybrid- Petal colour- yellow, anther colour- yellow, petal spot-present, boll shape-elongatd, pitted, Ginning percent 34, Fibre length (mm) 34.9, Bundle Strength (g/tex) 26.6g/tex, Micronaire value (ug/inch) 2.8, Spinning potential (Counts) 60-80S	
Remark	Deccan canal areas of Western Maharashtra under summer irrigated conditions, Resistant to ALB, BLB and tolerant to parawilt, tolant to aphids, jassids & mod.tol. bollworms	



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#### JLA-794 (*Gossypium arboreum* L.)



<b>Release year</b>	Release year 2005
<b>Name of Institute / University</b>	ARS, Jalgaon MPKV, Rahuri
<b>Soil type</b>	Medium to deep, well drained soils.
<b>Climate</b>	Rainfed
<b>Sowing Time / Planting period</b>	
<b>Seed Rate (Per acre)</b>	2.5-3.0 kg/ha
<b>Crop duration</b>	170-180 days
<b>Productivity</b>	8.0-10.0 Average yield (q/ha)
<b>Characters / features</b>	Flower colour- yellow with yellow anthers, prominent eye spot, Drought tolerant Mod. resistant to BLB and grey mildew and Tolerant to sucking pests and bollworms, Ginning percent 37, Fibre length (mm) 25.1, Bundle Strength (g/tex) 20.0g/tex, Micronaire value (ug/inch) 4.9, Spinning potential (Counts) 20-30S
<b>Remark</b>	Recommended Area of Cultivation, Desi cotton growing areas of Khandesh region of Maharashtra

#### Phule-688 (RHC-0688) (*Gossypium hirsutum* L.)



<b>Release year</b>	Release year 2008
<b>Name of Institute / University</b>	MPKV, Rahuri
<b>Soil type</b>	Medium to deep, well drained soils.
<b>Climate</b>	Irrigated
<b>Sowing Time / Planting period</b>	
<b>Seed Rate (Per acre)</b>	2.5-3.0 kg/ha
<b>Crop duration</b>	150-160 days
<b>Productivity</b>	16.0-18.0 Average yield (q/ha)
<b>Characters / features</b>	Early, medium stem hairiness, green leaf colour and bold seed size Resistant to BLB and grey mildew and mod. res. to ALB, tolerant to sucking pests and bollworms, Ginning percent 37.3, Fibre length (mm) 27, Bundle Strength (g/tex) 22.1g/tex, Micronaire value (ug/inch) 4, Spinning potential (Counts) 30-40S
<b>Remark</b>	Recommended Area of Cultivation, Deccan canal areas of Western Maharashtra under summer irrigated conditions



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#### Phule Anmol (RAC-024) (*Gossypium arboreum* L.)



	<b>Release year</b>	2011
	<b>Name of Institute / University</b>	MPKV, Rahuri
	<b>Soil type</b>	Medium to deep, well drained soils.
	<b>Climate</b>	Rainfed
<b>Sowing Time / Planting period</b>		
<b>Seed Rate (Per acre)</b>	2.5-3.0 kg/ha	
<b>Crop duration</b>	180-185	
<b>Productivity</b>	12.0-14.0 Average yield (q/ha)	
<b>Characters / features</b>	Flower colour yellow with eye spot and yellow anthers, Drought tolerant due to less reduction in chloro-phyll content and high relative water content, Ginning percent 38.21, Fibre length (mm) 26.9, Bundle Strength (g/tex) 22.6g/texI, Micronaire value (ug/inch) 4.7, Spinning potential (Counts) 20-30S	
<b>Remark</b>	Recommended Area of Cultivation, Desi cotton growing areas of Khandesh region of Maharashtra	

#### Phule Dhanwantary (Rh.arb.02-1) (*Gossypium arboreum* L.)



	<b>Release year</b>	2011
	<b>Name of Institute / University</b>	MPKV, Rahuri
	<b>Soil type</b>	Medium to deep, well drained soils.
	<b>Climate</b>	Rainfed
<b>Sowing Time / Planting period</b>		
<b>Seed Rate (Per acre)</b>	2.5-3.0 kg/ha	
<b>Crop duration</b>	160-165	
<b>Productivity</b>	12.0-14.0 Average yield (q/ha)	
<b>Characters / features</b>	Flower colour cream with prominent eye spot and yellow anthers, Resistant to BLB and mod. resistant reaction to ALB and Grey mildew and tolerant to sucking pests and bollworm complex, Ginning percent 39.4, Fibre length (mm) 17.4, Bundle Strength (g/tex) 16.5, Micronaire value (ug/inch) 8	
<b>Remark</b>	Recommended Area of Cultivation, Rainfed tract of Maharashtra, Specially for surgical purpose; good absorbency (1.9 sec.), less sinking time (2.0 sec.) and good water holding capacity (26.7 g/g) as compared to Y-1 (6.5 sec, 8.5 sec. and 25.0 g/g of cotton, respectively).	

*Improved / Hybried Varieties of Cotton*







## Mahatma Phule Krishi Vidyapeeth, Rahuri

### Information about Crop wise Improved / Hybried Varieties Developed by University

#### RHC-0717 (Phule Yamuna)

	Release year	2014
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium to deep, well drained soils.
	Climate	Irrigated
Sowing Time / Planting period	158 Vo 164{Xdg	
Seed Rate (Per acre)	2.5-3.0kg/ha	
Crop duration	158-164 days	
Productivity	18.0-20.0Average yield (q/ha)	
Characters / features	Light yellow petal colour with cream anthers; Elliptic boll shape with pointed tip, seed index and micronaire medium., Disease free reaction to GM, resistant to BLB and moderately resistance to ALB. tolerant to sucking pests and bollworms, Ginning percent 34.5, Fibre length (mm) 27.1, Bundle Strength (g/tex) 22.7g/tex, Micronaire value (ug/inch) 4.9, Spinning potential (Counts) 30-40S	
Remark	Recommended Area of Cultivation, Maharashtra , Gujarat, MP	

#### RHCb-011 (Phule Rukhmai) (*Gossypium barbadence* L.)

	Release year	2014
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium to deep, well drained soils.
	Climate	Irrigated
Sowing Time / Planting period		
Seed Rate (Per acre)		
Crop duration	8.0-10.0 Average yield (q/ha)	
Productivity	160-170 days	
Characters / features	Very tall plant height; Yellow petal colour with deep yellow anthers; Ovate shape boll with slightly pitted surface. Disease free reaction to GM, resistant to BLB and moderately resistance to ALB. tolerant to sucking pests and bollworms, Ginning percent 32.7, Fibre length (mm) 32.4, Bundle Strength (g/tex) 26.2g/tex, Micronaire value (ug/inch) 3.7, Spinning potential (Counts) 30-40S	
Remark	Recommended Area of Cultivation Maharashtra , Gujarat, MP	



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#### RHH-0707 (Phule Tarang) (*G. hirsutum* L. x *G. hirsutum* L.)



	<b>Release year</b>	2015
	<b>Name of Institute / University</b>	MPKV, Rahuri
	<b>Soil type</b>	Medium to deep, well drained soils.
	<b>Climate</b>	Irrigated
<b>Sowing Time / Planting period</b>		
<b>Seed Rate (Per acre)</b>	2.5-3.0 kg/ha	
<b>Crop duration</b>	165-170 days	
<b>Productivity</b>	Productivity 20.0-25.0 Average yield (q/ha)	
<b>Characters / features</b>	Sparse hairiness on stem, embedded stigma, cream pollen colour, ovate boll shape with pointed tip, large boll size with excellent uniformity ratio, Resistant to BLB and moderately resistance to ALB. Resiatant to sucking pests and tolerant to bollworms, Ginning percent 35.5, Fibre length (mm) 28.1, Bundle Strength (g/tex) 20.6g/tex, Micronaire value (ug/inch) 4.3, Spinning potential (Counts) 40-50S	
<b>Remark</b>	Recommended Area of Cultivation, Tamilnadu, Karnatak, AP	

#### RHB-0711 (Phule Dhara) (*G. hirsutum* L. x *G. barbadence* L.)



	<b>Release year</b>	2015
	<b>Name of Institute / University</b>	MPKV, Rahuri
	<b>Soil type</b>	Medium to deep, well drained soils.
	<b>Climate</b>	Irrigated
<b>Sowing Time / Planting period</b>		
<b>Seed Rate (Per acre)</b>	3.0-3.5 kg/ha	
<b>Crop duration</b>	170-180 days	
<b>Productivity</b>	15.0-17.0 Average yield (q/ha)	
<b>Characters / features</b>	Smooth stem, very tall plant height, Deep yellow pollen colour, white fuzz colour, extra long fibre with excellent uniformity ratio, Ginning percent 33.7, Fibre length (mm) 34, Bundle Strength (g/tex) 8.0g/texI, Micronaire value (ug/inch) 3.5, Spinning potential (Counts) 59-81S	
<b>Remark</b>	Recommended Area of Cultivation, <i>Khandesh</i> tract of Maharashtra, Drought tolerant variety	





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#### JLA-505 (*Gossypium arboreum* L.)

Release year	2015
Name of Institute / University	ARS, Jalgaon MPKV, Rahuri
Soil type	Medium to deep, well drained soils.
Climate	Rainfed
Sowing Time / Planting period	
Seed Rate (Per acre)	2.5-3.0 kg/ha
Crop duration	200-210 days
Productivity	6.0 to 7.0 Average yield (q/ha)
Characters / features	Hairy stem, medium deeply lobed, slight hairy leaf, nectary present, ashy white petal colour with yellow anther, eye spot present, Ginning percent 38, Fibre length (mm) 22.0 mm, Bundle Strength (g/tex) 8.8 PSI, Micronaire value (ug/inch) 4.6, Spinning potential (Counts) 29 <sup>S</sup>
Remark	Recommended Area of Cultivation, <i>Khandesh</i> tract of Maharashtra, Drought tolerant variety

#### (RHH-917(Phule Asmita) (*G. hirsutum* L. x *G. hirsutum* L.)




Release year	2016
Name of Institute / University	MPKV, Rahuri
Soil type	Medium to deep, well drained soils.
Climate	Irrigated
Sowing Time / Planting period	
Seed Rate (Per acre)	
Crop duration	160-170 days
Productivity	25.0-30.0 Average yield (q/ha)
Characters / features	Cup shape leaf, dense hairs on stem, Semi-spreading, Stigma is embedded, anther colour yellow, Ovate boll with pointed tip and medium in size, fuze colour Gray, Average maturity, Resistant to GM, BLB and ALB. Moderately resistant to sucking pests and bollworms, Ginning percent 34.1, Fibre length (mm) 29.7, Bundle Strength (g/tex) 21.9g/tex, Micronaire value (ug/inch) 4, Spinning potential (Counts) 30-40S
Remark	Recommended Area of Cultivation Maharashtra, Gujarat, MP



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#### RHB-0812 (Phule Prabha) *G. hirsutum* L. x *G. barbadence* L.

	Release year	2016
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium to deep, well drained soils.
	Climate	Irrigated
Sowing Time / Planting period		
Seed Rate (Per acre)	3.0-3.5 kg/ha	
Crop duration	170-180 days	
Productivity	15.0-18.0CZ & 24.0-29.0SZ q/ha	
Characters / features	Leaf colour green, leaf hairiness sparse, petiole pigmentation present, smooth stem, pollen colour deep yellow, boll opening open type, boll weight medium, seed index bold, low GP, staple length extra long, micronaire fine, maturity good, CZ: Resistant to BLB , ALB & GM. Tolerant to sucking pests and bollworms. SZ: MR to BLB, MS to ALB & GM. Tolerant to sucking pests and bollworms, Ginning percent 30-32, Fibre length (mm) 34-36, Bundle Strength (g/tex) 26-27g/tex, Micronaire value (ug/inch) 3.3-3.4, Spinning potential (Counts) 53-62S	
Remark	Recommended Area of Cultivation CZ: Mah., Guj., MP SZ: TN., AP. & Kar	

#### RHB-1014 (Phule Chetana) *G. hirsutum* L. x *G. barbadence* L.

	Release year	2017
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium to deep, well drained soils.
	Climate	Irrigated
Sowing Time / Planting period	<ul style="list-style-type: none"> <li>Summer irrigated tract: March – April</li> <li>Other Irrigated tract: First fortnight to second fortnight of June as early as possible after good monsoon rains.</li> </ul>	
Seed Rate (Per acre)	2.5-3.0 kg/ha	
Crop duration	180-195 days	
Productivity	18-20 q/ha	
Characters / features	Stem hairiness is smooth. Very tall plant height. Deep yellow pollen colour. White fuzz colour. Extra long SL. Excellent uniformity ratio, Ginning percent very low 29.4, Fibre length (mm) Extra Long (>32.5 cm), Bundle Strength (g/tex), 25-28 g/tex, Micronaire value (ug/inch) Fine (3.0-3.9)	
Remark	The extra long staple interspecific cotton hybrid “Phule Chetana (RHB-1014)” is recommended for release in Egyptian cotton growing area of Maharashtra under irrigated condition, Recommended Area of Cultivation - Irrigated tract of Maharashtra, Gujarat and Madhya Pradesh.	



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#### RHB-1122 (Phule Mahi) (G. hirsutum L. X G. barbadense L.)



	Release year	2018
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium to deep, well drained soils.
	Climate	Irrigated
Sowing Time / Planting period	<ul style="list-style-type: none"> <li>Summer irrigated tract: March – April</li> <li>Other Irrigated tract: First fortnight to second fortnight of June as early as possible after good mansoon rains</li> </ul>	
Seed Rate (Per acre)	2.5-3.0 kg/ha	
Crop duration	180-195 days	
Productivity	18-20 q/ha	
Characters / features	Leaf colour : Light green, Plant Height : Tall, Seed : Fuzz, Seed: Fuzz colour Green, Ginning percent low, Fibre length (mm) Extra Long, Bundle Strength (g/tex) Very Strong, Micronaire value (ug/inch) Very Good	
Remark	It has staple length (34.3mm), average micronaire value (3.4), average strength (31.5 g/tex) and excellent S/L ratio (0.9) which fulfill the requirement of long staple cotton, Recommended Area of Cultivation - Recommended for irrigated tract of Maharashtra state.	