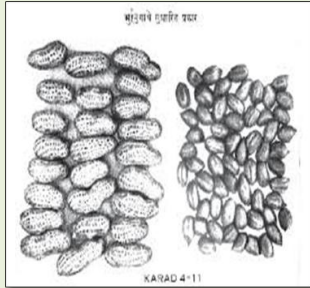




## Improved / Hybrid Varieties of Oilseeds

### Groundnut – Karad-4-11



	<b>Release year</b>	1939
	<b>Name of Institute / University</b>	Govt. of Maharashtra
	<b>Soil type</b>	
	<b>Climate</b>	
	<b>Sowing Time / Planting period</b>	First week of June to July second week
	<b>Seed Rate (Per acre)</b>	40 kg
	<b>Crop duration</b>	135-140 days
<b>Productivity</b>	20-25 q/ha	
<b>Characters / features</b>		

### Groundnut – S.B.-11



	<b>Release year</b>	1965
	<b>Name of Institute / University</b>	Oilseeds Research Station, Jalgaon
	<b>Soil type</b>	Medium to light
	<b>Climate</b>	Kharif / Summer
	<b>Sowing Time / Planting period</b>	Kharif: 15 <sup>th</sup> June to 15 <sup>th</sup> July Summer : 15 <sup>th</sup> Jan. to 15 <sup>th</sup> Feb.
	<b>Seed Rate (Per acre)</b>	40-50 kg
	<b>Crop duration</b>	105-110 days
<b>Productivity</b>	20-25 q/ha	
<b>Characters / features</b>	Drought tolerant, wider adaptability, high shelling percentage	



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Groundnut – JL-220 (Phule Vyas)



<b>Release year</b>	1965
<b>Name of Institute / University</b>	Oilseeds Research Station, Jalgaon
<b>Soil type</b>	medium to light
<b>Climate</b>	Kharif
<b>Sowing Time / Planting period</b>	15 <sup>th</sup> June to 15 <sup>th</sup> July
<b>Seed Rate (Per acre)</b>	48-50 kg
<b>Crop duration</b>	105-110 days
<b>Productivity</b>	20-25 q/ha
<b>Characters / features</b>	Tolerant to rust & late leaf spot, early maturity

#### Groundnut – JL-24 (Phule Pragati)



<b>Release year</b>	1979
<b>Name of Institute / University</b>	Oilseeds Research Station, Jalgaon
<b>Soil type</b>	medium to light
<b>Climate</b>	Kharif
<b>Sowing Time / Planting period</b>	15 <sup>th</sup> June to 15 <sup>th</sup> July
<b>Seed Rate (Per acre)</b>	48-50 kg
<b>Crop duration</b>	99 to 104 days
<b>Productivity</b>	15-20 q/ha
<b>Characters / features</b>	Bold seeded, wider adaptability, early maturity



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Groundnut - B-95 (Koyana)



	<b>Release year</b>	1993
	<b>Name of Institute / University</b>	AICRP on Groundnut, MPKV, Rahuri
	<b>Soil type</b>	Medium light
	<b>Climate</b>	Released for summer season in Western Maharashtra
	<b>Sowing Time / Planting period</b>	Summer 15 <sup>th</sup> January to 15 <sup>th</sup> February
	<b>Seed Rate (Per acre)</b>	(Per acre) 50kg / acre
	<b>Crop duration</b>	Summer-135-140 days
<b>Productivity</b>		30-35 q/ha
<b>Characters / features</b>		Virginia bunch, Height-25-30 cm, Stem-sub-glabrous with no stem pigmentation, Leaf-Lanceolate, dark green, almost glabrous, Flower- yellow, Peg with pigmentation, Pod-Extra Bold with two kernel and reticulation, Kernel-pine Red colour, Oil -48%, Resistance to Spodoptera, Rust and moderately resistant to Late Leaf Spot and Stem rot, Tolerant to stress due to dark green lanceolate leaves
<b>Remarks</b>		Groundnut var. Phule Unnati- A dual season variety developed to overcome problem of seed production & storage

#### Groundnut – JL-286 (Phule Unap)



	<b>Release year</b>	2004
	<b>Name of Institute / University</b>	Oilseeds Research Station, Jalgaon
	<b>Soil type</b>	Medium to light
	<b>Climate</b>	Kharif /Summer
	<b>Sowing Time / Planting period</b>	Kharif: 15 <sup>th</sup> June to 15 <sup>th</sup> July Summer : 15 <sup>th</sup> Jan. to 15 <sup>th</sup> Feb.
	<b>Seed Rate (Per acre)</b>	Seed Rate/acre : 48-50 kg
	<b>Crop duration</b>	Crop duration : 93-95 days
<b>Productivity</b>		22-25 q/ha
<b>Characters / features</b>		Tolerant to root rot, longer flowering span, oil content 49-50%



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Groundnut – TPG-41



	<b>Release year</b>	2004
	<b>Name of Institute / University</b>	AICRP on Groundnut, MPKV, Rahuri
	<b>Soil type</b>	Medium light
	<b>Climate</b>	Released for summer season in Western Maharashtra
	<b>Sowing Time / Planting period</b>	Summer-15 <sup>th</sup> January to 15 <sup>th</sup> February.
	<b>Seed Rate (Per acre)</b>	48-50kg / acre
	<b>Crop duration</b>	130 days
<b>Productivity</b>	30-35 q/ha	
<b>Characters / features</b>	High dry pod yield, oil 48%, extra bold kernel size. HKW-70 gm.kernel colour pink red, highly tolerance to aflatoxin content	
<b>Remarks</b>	Recommended for Summer tract of Maharashtra state	

#### Groundnut – JL-501



	<b>Release year</b>	2009
	<b>Name of Institute / University</b>	Oilseeds Research Station, Jalgaon
	<b>Soil type</b>	Medium to light
	<b>Climate</b>	Kharif /Summer
	<b>Sowing Time / Planting period</b>	Kharif: 15 <sup>th</sup> June to 15 <sup>th</sup> July Summer : 15 <sup>th</sup> Jan. to 15 <sup>th</sup> Feb.
	<b>Seed Rate (Per acre)</b>	40-50 kg
	<b>Crop duration</b>	99 to 104 days
<b>Productivity</b>	30-32 q/ha	
<b>Characters / features</b>	Oil content 49%, tolerant to Alfatoxin	



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Groundnut - Phule RHRG-6021



	<b>Release year</b>	2011
	<b>Name of Institute / University</b>	AICRP on Groundnut, MPKV, Rahuri
	<b>Soil type</b>	Medium light
	<b>Climate</b>	Released for summer season in Western Maharashtra
	<b>Sowing Time / Planting period</b>	15 <sup>th</sup> January to 15 <sup>th</sup> February
	<b>Seed Rate (Per acre)</b>	48-50kg / acre
	<b>Crop duration</b>	Summer-120-125 days
<b>Productivity</b>	Summer:-35-40 q/ha	
<b>Characters / features</b>	Virginia Bunch type Semis-reading (VB), Height- 20-25, Stem-sub-glabrous with stem pigmentation, Leaf-oblong, dark green, almost glabrous, Flower-orange yellow, Peg with pigmentation, pod-small with two kernel and present reticulation, Kernel-rose colour, oil - 51%, Resistance to Spodoptera 3.92 %, Rust 1-5 %, Late Leaf Spot 1-5 % and Stem rot 8.57 %, Tolerant to stress, Dark green leaves, It is having 37 g Hundred kernel weight, 68 % Shelling, 91 % Sound Mature Kernels.	
<b>Remarks</b>	Recommended for cultivation in Summer season in Western Maharashtra State	

#### Groundnut - Phule Unnati (RHRG-6083)



	<b>Release year</b>	2012
	<b>Name of Institute / University</b>	AICRP on Groundnut, MPKV, Rahuri
	<b>Soil type</b>	Medium light
	<b>Climate</b>	Kharif/Summer season
	<b>Sowing Time / Planting period</b>	Kharif 15 <sup>th</sup> June to 15 <sup>th</sup> July Summer 15 <sup>th</sup> January to 15 <sup>th</sup> February
	<b>Seed Rate (Per acre)</b>	48-50kg / acre
	<b>Crop duration</b>	Kharif-111 days, Summer-128 days
<b>Productivity</b>	Summer -35-40 q/ha Kharif- 25-30 q/ha	
<b>Characters / features</b>	Spanish bunch, Height-35-40 cm , Stem-sub-glabrous with no stem pigmentation, Leaf-Lanceolate, dark green, almost glabrous, Flower-orange yellow, Peg with pigmentation, Pod-Medium with two kernel and reticulation, Kernel-Red colour, Oil -52%, Resistance to Spodoptera, Rust, moderately resistant to Late Leaf Spot and Stem rot, Tolerant to stress due to dark green lanceolate leaves	
<b>Remarks</b>	A dual season variety developed to overcome problem of seed production & storage	





## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Groundnut – JL-776 (Phule Bharati)



	<b>Release year</b>	2014
	<b>Name of Institute / University</b>	Oilseeds Research Station, Jalgaon
	<b>Soil type</b>	Medium to light
	<b>Climate</b>	Kharif /Summer
	<b>Sowing Time / Planting period</b>	Kharif: 15 <sup>th</sup> June to 15 <sup>th</sup> July Summer : 15 <sup>th</sup> Jan. to 15 <sup>th</sup> Feb.
	<b>Seed Rate (Per acre)</b>	48-50 kg
	<b>Crop duration</b>	105-110 days
<b>Productivity</b>	30-35 q/ha	
<b>Characters / features</b>	High oil content 51%, Recommended for Maharashtra, Madya Pradesh, Tamil Nadu, Andra Pradesh	

#### Groundnut – Phule Morana (KDG 123)



	<b>Release year</b>	2016
	<b>Name of Institute / University</b>	Agricultural Research Station, K.Digraj, Dist.Sangli
	<b>Soil type</b>	Light to medium sandy loam with high organic matter content, pH- 7 to 8
	<b>Climate</b>	<i>Kharif</i> season
	<b>Sowing Time / Planting period</b>	15 <sup>th</sup> June to 30 <sup>th</sup> July
	<b>Seed Rate (Per acre)</b>	35-40 kg
	<b>Crop duration</b>	120-125 days
<b>Productivity</b>	25-30 q/ha	
<b>Characters / features</b>	Suitable for Southern Maharashtra, Tamilnadu, Andhra Pradesh, Telangana, Karnataka, Gujarat, Southern Rajasthan, Jharkhand, Orissa, West Bengal & Imphal, Moderately resistant late leaf spot & rust diseases, Medium bold kernels, shelling 68-70 % & oil content 46-48 %, Wider adoptability	
<b>Remark</b>	Virginia bunch variety.	



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Groundnut – Phule Warana (KDG 128)



	<b>Release year</b>	2016
	<b>Name of Institute / University</b>	Agricultural Research Station, K.Digraj, Dist.Sangli
	<b>Soil type</b>	Light to medium sandy loam with high organic matter content, pH- 7 to 8
	<b>Climate</b>	<i>Kharif</i> season
	<b>Sowing Time / Planting period</b>	15 <sup>th</sup> June to 15 <sup>th</sup> July
	<b>Seed Rate (Per acre)</b>	35-40 kg
	<b>Crop duration</b>	115-120 days
<b>Productivity</b>	25-30 q/ha	
<b>Characters / features</b>	Suitable for Southern Maharashtra, Tamilnadu, Andhra Pradesh, Gujarat, Telangana, Rajasthan and Karnataka, Moderately resistant late leaf spot & rust diseases, Medium bold kernels, shelling 69 % and oil content 50 %	
<b>Remark</b>	Suitable for <i>kharif</i> season for Virginia bunch growing areas.	

#### Groundnut – Phule Chaitanya (KDG 160)



	<b>Release year</b>	2016
	<b>Name of Institute / University</b>	Agricultural Research Station, K.Digraj, Dist.Sangli
	<b>Soil type</b>	Light to medium sandy loam with high organic matter content, pH- 7 to 8
	<b>Climate</b>	Summer, Irrigated
	<b>Sowing Time / Planting period</b>	15 <sup>th</sup> January to 30 <sup>th</sup> January
	<b>Seed Rate (Per acre)</b>	40-50 kg
	<b>Crop duration</b>	105-110 days
<b>Productivity</b>	20-24 q/ha	
<b>Characters / features</b>	Suitable for Rabi-summer in Andhra Pradesh, Telangana & Tamilnadu, Moderately resistant to stem rot & leaf spot diseases (LLS), Medium bold kernels (40-48g), Shelling 65-69 % & oil content 51.6%	
<b>Remark</b>	Suitable for summer season.	



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Groundnut – Phule Dhani (JL-1085)



	<b>Release year</b>	2019
	<b>Name of Institute / University</b>	Oilseeds Research Station, Jalgaon
	<b>Soil type</b>	Medium to light
	<b>Climate</b>	Kharif
	<b>Sowing Time / Planting period</b>	15 <sup>th</sup> June to 15 <sup>th</sup> July
	<b>Seed Rate (Per acre)</b>	48-50 kg
	<b>Crop duration</b>	100-110 days
<b>Productivity</b>	30-35 qt/ha	
<b>Characters / features</b>	High oil content 51%, maximum number of three seeded pod, resistance to foliar diseases, resistance to Spodoptera & Thrips, high shelling%	

#### Sunflower - SS-56



	<b>Release year</b>	1984
	<b>Name of Institute / University</b>	ZARS, Solapur (MPKV, Rahuri)
	<b>Soil type</b>	Medium deep to deep
	<b>Climate</b>	Optimum Temperature: 20 to 30°C
<b>Sowing Time / Planting period</b>	<i>Kharif, Rabi</i> and Summer	
<b>Seed Rate (Per acre)</b>	4.0 kg/acre	
<b>Crop duration</b>	80-85 days	
<b>Productivity</b>	10-11 quintal/ha	
<b>Characters / features</b>	Moderately tolerant to head borer and sucking pests, Suitable for late sowing, Suitable for intercropping, Oil content 32-35 %	
<b>Remark</b>	Suitable for rainfed conditions (State level). Recommended for cultivation in Maharashtra State.	






## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Sunflower - Bhanu

	<b>Release year</b>	2006
	<b>Name of Institute / University</b>	ZARS, Solapur (MPKV, Rahuri)
	<b>Soil type</b>	Medium deep to deep
	<b>Climate</b>	Optimum Temperature: 20 to 30°C
<b>Sowing Time / Planting period</b>	<i>Kharif</i> season	
<b>Seed Rate (Per acre)</b>	4.0 kg/acre	
<b>Crop duration</b>	85-90 days	
<b>Productivity</b>	Productivity – 12-13 quintal/ha	
<b>Characters / features</b>	Tolerant to drought, Oil content - 35-36 %, Tolerant to head borer and Moderately tolerant to sucking pests, Moderately tolerant to rust, Alternaria leaf spot and Necrosis, Suitable for rainfed and irrigated conditions	
<b>Remark</b>	Recommended for rainfed kharif conditions of Maharashtra.	

#### Sunflower - Phule Raviraj (Hybrid) (KSFH-437)


	<b>Release year</b>	2009
	<b>Name of Institute / University</b>	Agriculture Research Station, Savalvihir Tal-Rahata, Dist-Ahmednagar,
	<b>Soil type</b>	Medium deep soil
	<b>Climate</b>	<i>Kharif</i> season
<b>Sowing Time / Planting period</b>	<i>Kharif</i> season (July Month)	
<b>Seed Rate (Per acre)</b>	2 kg	
<b>Crop duration</b>	95 days	
<b>Productivity</b>	18-20 qt/ha	
<b>Characters / features</b>	Oil per cent 34%, Big head size with centre filling head, Tolerant to bud necrosis and alternaria, Tolerant to the pests like capitulum borer, Responsive to fertilizer, High yielding and early maturing, Resistant to lodging	
<b>Remark</b>	Recommended for the medium deep soils of Western Mahatarashta in late <i>Kharif</i> season for both Rainfed and Irrigated conditions	




## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Sunflower - Bhaskar

	<b>Release year</b>	2015
	<b>Name of Institute / University</b>	ZARS, Solapur (MPKV, Rahuri)
	<b>Soil type</b>	Medium deep to deep
	<b>Climate</b>	Optimum Temperature: 20 to 32°C
<b>Sowing Time / Planting period</b>	<i>Kharif</i> season	
<b>Seed Rate (Per acre)</b>	4.0 kg/acre	
<b>Crop duration</b>	80-85 days	
<b>Productivity</b>	16-18 quintal/ha	
<b>Characters / features</b>	Early maturing, High yield, Oil content 37-38 %, dark black shiny seed, Suitable for drought prone (scarcity zone) area, Moderately tolerant to powdery mildew, Alternaria leaf spot and Bud-Necrosis.	
<b>Remark</b>	Recommended for rainfed kharif conditions of Maharashtra state	

#### Sesamum – JLT-408


	<b>Release year</b>	2010
	<b>Name of Institute / University</b>	Oilseeds Research Station Jalgaon (MPKV)
	<b>Soil type</b>	Medium Soil to Black Soil
	<b>Climate</b>	Raifed , Temp. 21 to 26 °C during growth period and 26 to 32 °C during seed filling period
	<b>Sowing Time / Planting period</b>	Second week of June to first week of July.
	<b>Seed Rate (Per acre)</b>	1.0 to 1.20 kg
	<b>Crop duration</b>	81-85
<b>Productivity</b>	8.40 q/ha (Potential), 7.80 q/ha (Average)	
<b>Characters / features</b>	White and bold seed, High oil content (53.2%), Low in free fatty acid (1.46%), High Iodine value (107), Moderately resistant to Phyllody, Cercospora, Released for: Raifed tract of Khandesh and adjoining area of Vidharbh and Marathwada region of Maharashtra.	




## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Niger – Sahaydari (IGP-76)

	<b>Release year</b>	1983
	<b>Name of Institute / University</b>	ZARS, Igatpuri, Nashik
	<b>Soil type</b>	Light to medium black
	<b>Climate</b>	Hot & Humid
<b>Sowing Time / Planting period</b>	Onset of monsoon June- July	
<b>Seed Rate (Per acre)</b>	1.6 to 2.0 Kg	
<b>Crop duration</b>	120-130 days	
<b>Productivity</b>	300-400 Kg/ha	
<b>Characters / features</b>	High yielding, small black grains, oil content 36%, high percentage of lenolic acid and protins, resistant to leaf eating cater piller and powdery mildew	

#### Niger - Phule Karala ( IGPN- 2004-1)

	<b>Release year</b>	2008
	<b>Name of Institute / University</b>	ZARS, Igatpuri, Nashik
	<b>Soil type</b>	Light to medium black
	<b>Climate</b>	Hot & Humid
<b>Sowing Time / Planting period</b>	Onset of monsoon June- July	
<b>Seed Rate (Per acre)</b>	1.6 to 2.0 Kg	
<b>Crop duration</b>	95-100 days	
<b>Productivity</b>	450-500 Kg/ha	
<b>Characters / features</b>	It is high yielding (485 Kg/ha) which is 24.28% increase over IGP-76 (391 Kg/ha), Early maturing (97 days), Bold seeded with shiny black colour, More oil content (39%), Essential unsaturated fatty acid (Lenoleic acid) 62.1% more than IGP-76, Registant to lodging.	



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Niger - Phule Vaitarana (IGPN- 8004)



<b>Release year</b>	2014
<b>Name of Institute / University</b>	ZARS, Igatpuri, Nashik
<b>Soil type</b>	Light to medium black
<b>Climate</b>	Hot & Humid
<b>Sowing Time / Planting period</b>	Onset of monsoon June- July
<b>Seed Rate (Per acre)</b>	1.6 to 2.0 Kg
<b>Crop duration</b>	105-110 days
<b>Productivity</b>	450 to 550 Kg/ha
<b>Characters / features</b>	High yielding, Early maturing, Bold seeded with shiny black colour, More oil content (39 to 40 %), High Lenoleic acid (57.2%) & Protein content (26.0%), Moderately tolerant to Aphids, Semiloopers, Resistent to Cercospora leaf spot and Alternarial leaf spot.

#### Safflower - Bhima




<b>Release year</b>	1982
<b>Name of Institute / University</b>	AICRP on safflower, Solapur (MPKV, Rahuri)
<b>Soil type</b>	Medium deep to deep
<b>Climate</b>	Optimum Temperature: 16.0 to 32.0 °C
<b>Sowing Time / Planting period</b>	15 September to 15 October
<b>Seed Rate (Per acre)</b>	4.0 kg/acre
<b>Crop duration</b>	120-130 days
<b>Productivity</b>	13-15 quintal/ha (5-6qt/acre)
<b>Characters / features</b>	Moderately tolerant to Aphid and fusarium wilt, Oil content -29-30%, Flower colour at bloom-white and at faded stage dirty white with red spot, Tolerant to moisture stress
<b>Remark</b>	Recommended for Maharashtra state




## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Safflower – Girna

	<b>Release year</b>	1990
	<b>Name of Institute / University</b>	AICRP on safflower, Jalgaon, MPKV, Rahuri
	<b>Soil type</b>	Medium deep to deep
	<b>Climate</b>	Optimum Temperature: 16.0 to 32.0 °C
	<b>Sowing Time / Planting period</b>	15 September to 15 October
	<b>Seed Rate (Per acre)</b>	4.0 kg/acre
	<b>Crop duration</b>	130-135 days
	<b>Productivity</b>	5-6 qt/acre
<b>Characters / features</b>	Moderately tolerant to Aphid, Moderately tolerant to fussarium wilt, Oil content -28-30%	
<b>Remark</b>	Recommended for Khandesh Region of Maharashtra state	

#### Safflower - Phule Kusuma

	<b>Release year</b>	2003
	<b>Name of Institute / University</b>	AICRP on safflower, Solapur (MPKV, Rahuri)
	<b>Soil type</b>	Medium deep to deep
	<b>Climate</b>	Optimum Temperature: 16.0 to 32.0 °C
<b>Sowing Time / Planting period</b>	15 September to 15 October	
<b>Seed Rate (Per acre)</b>	4.0 kg/acre	
<b>Crop duration</b>	125-140 days	
<b>Productivity</b>	Rainfed -13-15qt/ha (5-6 qt/acre) & Irrigated-20-22 qt/ha (8-9 qt/acre)	
<b>Characters / features</b>	Moderately tolerant to Aphid, Oil content 30%, Flower colour at bloom-yellow and at faded stage red spot	
<b>Remark</b>	Recommended for assured rainfed and irrigated areas of the country	







## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Safflower - SSF-658 (Non Spiny)

	Release year	2008
	Name of Institute / University	AICRP on safflower, Solapur (MPKV, Rahuri)
	Soil type	Medium deep to deep
	Climate	Optimum Temperature: 16.0 to 32.0 °C
Sowing Time / Planting period	15 September to 15 October	
Seed Rate (Per acre)	4.0 kg/acre	
Crop duration	115-120 days	
Productivity	12-13 quintal/ha(5-5.50qt/acre)	
Characters / features	Moderately tolerant to Aphid and fusarium wilt, Oil content -28%, Flower colour at bloom-yellow and at faded stage- red	
Remark	recommended for safflower growing areas of the country	

#### Safflower - SSF-708

	Release year	2010
	Name of Institute / University	AICRP on safflower, Solapur (MPKV, Rahuri)
	Soil type	Medium deep to deep
	Climate	Optimum Temperature: 16.0 to 32.0 °C
Sowing Time / Planting period	15 September to 15 October	
Seed Rate (Per acre)	4.0 kg/acre	
Crop duration	115-120 days	
Productivity	Rainfed 14-16quintal/ha (5-6 qt/acre) & Irrigated-22-25 qt/ha (9-10 qt/acre)	
Characters / features	Moderately tolerant to Aphid, Oil content -31%, Flower colour at bloom-white and at faded – red, 100 seed wt 5.0g	
Remark	Recommended for rainfed and irrigated safflower growing areas Maharashtra	



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

**Safflower – Phule SSF-733**



<b>Release year</b>	2011
<b>Name of Institute / University</b>	AICRP on safflower, Solapur (MPKV, Rahuri)
<b>Soil type</b>	Medium deep to deep
<b>Climate</b>	Optimum Temperature: 16.0 to 32.0 °C
<b>Sowing Time / Planting period</b>	15 September to 15 October
<b>Seed Rate (Per acre)</b>	4.0 kg/acre
<b>Crop duration</b>	120-125 days
<b>Productivity</b>	14-15quintal/ha (5-6 qt/acre)
<b>Characters / features</b>	Moderately tolerant to Aphid and fusarium wilt, Oil content -29%, colour at bloom-white and at faded stage dirty white with red spot, Medium height
<b>Remark</b>	recommended for rainfed safflower growing areas the country

**Safflower – Phule Chandrabhaga (SSF-748)**




<b>Release year</b>	2012
<b>Name of Institute / University</b>	AICRP on safflower, Solapur (MPKV, Rahuri)
<b>Soil type</b>	Medium deep to deep
<b>Climate</b>	Optimum Temperature: 16.0 to 32.0 °C
<b>Sowing Time / Planting period</b>	15 September to 15 October
<b>Seed Rate (Per acre)</b>	.0 kg/acre
<b>Crop duration</b>	125-140 days
<b>Productivity</b>	13-16 quintal/ha (5-6 qt/acre), Irrigated-22-25 qt/ha (9-10 qt/acre)
<b>Characters / features</b>	Moderately tolerant to Aphid, Oil content -29%, Flower colour at bloom-yellow and at faded stage red, 100seed wt-6g
<b>Remark</b>	Recommended for rainfed and irrigated areas of the country




## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Safflower – Phule Bhivara (SSF-13-71)

	<b>Release year</b>	2020
	<b>Name of Institute / University</b>	AICRP on safflower, Solapur (MPKV, Rahuri)
	<b>Soil type</b>	Medium deep to deep
	<b>Climate</b>	Optimum Temperature: 16.0 to 32.0 °C
<b>Sowing Time / Planting period</b>	15 September to 15 October	
<b>Seed Rate (Per acre)</b>	4.0 kg/acre	
<b>Crop duration</b>	125-130 days	
<b>Productivity</b>	20 quintal/ha (rainfed condition)	
<b>Characters / features</b>	Moderately tolerant to Aphid, Oil content -29.2%, Tolerant reaction to Alternaria leaf spot of safflower	
<b>Remark</b>	Identified for cultivation under rainfed and irrigated safflower growing areas of (Maharashtra, Karnataka, Andhra, Telangana)	

#### Safflower – Phule Nira (SSF-13-71)

	<b>Release year</b>	2020
	<b>Name of Institute / University</b>	AICRP on safflower, Solapur (MPKV, Rahuri)
	<b>Soil type</b>	Medium deep to deep
	<b>Climate</b>	Optimum Temperature: 16.0 to 32.0 °C
<b>Sowing Time / Planting period</b>	15 September to 15 October	
<b>Seed Rate (Per acre)</b>	4.0 kg/acre	
<b>Crop duration</b>	125-130 days	
<b>Productivity</b>	Grain yield- 17 quintal/ha (rainfed condition) Oil yield - 565 kg/ha,	
<b>Characters / features</b>	Moderately tolerant to Aphid, High Oil content -32.9 %, Tolerant reaction to Alternaria leaf spot of safflower	
<b>Remark</b>	recommended for release for cultivation in safflower growing of the Country (Maharashtra, Karnataka, Andhra and Telangana).	



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Soybean – Phule Kalyani (DS 228)



	<b>Release year</b>	2006
	<b>Name of Institute / University</b>	Agricultural Research Station, K.Digraj, Dist.Sangli
	<b>Soil type</b>	Well drained, medium to heavy sandy loam soil.
	<b>Climate</b>	<i>Kharif</i> season.
<b>Sowing Time / Planting period</b>	2 <sup>nd</sup> fortnight of June to first week of July	
<b>Seed Rate (Per acre)</b>	30 kg	
<b>Crop duration</b>	(95-100 days)	
<b>Productivity</b>	23-25 Qt/ha	
<b>Characters / features</b>	Suitable for Maharashtra state especially rust prone areas, Slow rusting to rust, moderately resistant to Charcoal rot, Oil Content 17.25 % & Protein 39.38%	
<b>Remark</b>	Less susceptible to rust diseases	

#### Soybean – Phule Agrani (KDS 344)



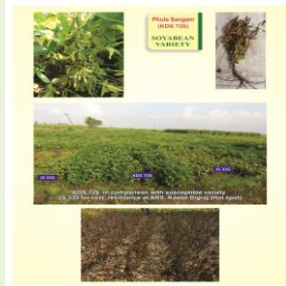
	<b>Release year</b>	2015
	<b>Name of Institute / University</b>	Agricultural Research Station, K.Digraj, Dist.Sangli
	<b>Soil type</b>	Well drained, medium to heavy sandy loam soil.
	<b>Climate</b>	<i>Kharif</i> season
<b>Sowing Time / Planting period</b>	2 <sup>nd</sup> fortnight of June to first week of July	
<b>Seed Rate (Per acre)</b>	30 kg	
<b>Crop duration</b>	105-110 days	
<b>Productivity</b>	25-30 Qt/ha	
<b>Characters / features</b>	Suitable for Southern zone (Southern Maharashtra, Telangana, Andhra Pradesh, Tamil Nadu) of India, Resistant to rust diseases, Oil Content 18.6 %, Suitable for rust prone area.	
<b>Remark</b>	Resistance to rust diseases.	



## Mahatma Phule Krishi Vidyapeeth, Rahuri

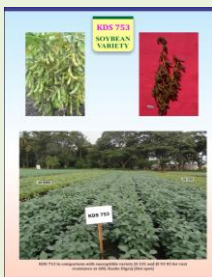
### Information about Crop wise Improved / Hybrid Varieties Developed by University

#### Soybean – Phule Sangam (KDS 726)



<b>Release year</b>	2016
<b>Name of Institute / University</b>	Agricultural Research Station, K.Digraj, Dist.Sangli
<b>Soil type</b>	Well drained, medium to heavy sandy loam soil.
<b>Climate</b>	<i>Kharif</i> season.
<b>Sowing Time / Planting period</b>	Last week of June to first week of July
<b>Seed Rate (Per acre)</b>	25 kg
<b>Crop duration</b>	100-105 days
<b>Productivity</b>	23-25 Qt/ha
<b>Characters / features</b>	Suitable for cultivation under Southern zone ( Maharashtra, Telangana, Andhra Pradesh, Karnataka & Tamil Nadu), Resistant to rust, moderately resistant to Charcoal rot, Oil Content 18.42 % & Protein content 38.14 %, Resistant to purple seed stain & tolerant to pest complex.
<b>Remark</b>	Resistance to rust diseases.

#### Soybean – Phule Kimaya (KDS 753)



<b>Release year</b>	2017
<b>Name of Institute / University</b>	Agricultural Research Station, K.Digraj, Dist.Sangli
<b>Soil type</b>	Well drained, medium to heavy sandy loam soil.
<b>Climate</b>	<i>Kharif</i> season.
<b>Sowing Time / Planting period</b>	Last week of June to first week of July
<b>Seed Rate (Per acre)</b>	25 kg
<b>Crop duration</b>	95-100 days
<b>Productivity</b>	25-30 Qt/ha
<b>Characters / features</b>	
<b>Remark</b>	





## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Soybean – KS-103



<b>Release year</b>	2018
<b>Name of Institute / University</b>	College of Agricultural Kolhapure
<b>Soil type</b>	Well drained, medium to heavy sandy loam soil.
<b>Climate</b>	<i>Kharif</i> season.
<b>Sowing Time / Planting period</b>	Last week of June to first week of July
<b>Seed Rate (Per acre)</b>	25-30 kg
<b>Crop duration</b>	95-100 days
<b>Productivity</b>	25-30 Qt/ha
<b>Characters / features</b>	Suitable for cultivation in Southern Maharashtra, Andhra Pradesh, Tamil Nadu, Resistant to rust and various pests, non lodging, Oil Content 18.10%
<b>Remark</b>	High yielding