

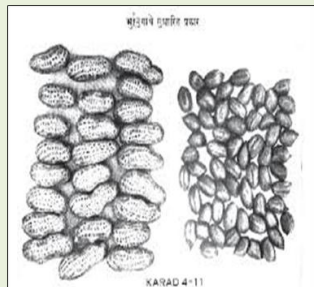


## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Improved / Hybrid Varieties of Oilseeds

##### Groundnut – Karad-4-11



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

##### Groundnut – S.B.-11



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



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

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



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



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

#### Groundnut – JL-501



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

#### 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.	




## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

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

	Release year	2016
	Name of Institute / University	Agricultural Research Station, K.Digraj, Dist.Sangli
	Soil type	Light to medium sandy loam with high organic matter content, pH- 7 to 8
	Climate	Summer, Irrigated
	Sowing Time / Planting period	15 <sup>th</sup> January to 30 <sup>th</sup> January
	Seed Rate (Per acre)	40-50 kg
	Crop duration	105-110 days
Productivity	20-24 q/ha	
Characters / features	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%	
Remark	Suitable for summer season.	

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


	Release year	2017
	Name of Institute / University	Oilseeds Research Station, Jalgaon
	Soil type	Medium to light
	Climate	Kharif /Summer
	Sowing Time / Planting period	Kharif: 15 <sup>th</sup> June to 15 <sup>th</sup> July Summer : 15 <sup>th</sup> Jan. to 15 <sup>th</sup> Feb.
	Seed Rate (Per acre)	48-50 kg
	Crop duration	105-110 days
Productivity	30-35 q/ha	
Characters / features	High oil content 51%, Recommended for Maharashtra, Madhya Pradesh, Tamil Nadu, Andhra Pradesh	




## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

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

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

#### Sunflower - SS-56

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

	Release year	2006
	Name of Institute / University	ZARS, Solapur (MPKV, Rahuri)
	Soil type	Medium deep to deep
	Climate	Optimum Temperature: 20 to 30°C
Sowing Time / Planting period	Kharif season	
Seed Rate (Per acre)	4.0 kg/acre	
Crop duration	85-90 days	
Productivity	Productivity – 12-13 quintal/ha	
Characters / features	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	
Remark	Recommended for rainfed kharif conditions of Maharashtra.	

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


	Release year	2009
	Name of Institute / University	Agriculture Research Station, Savalviher Tal-Rahata, Dist-Ahmednagar,
	Soil type	Medium deep soil
	Climate	Kharif season
Sowing Time / Planting period	Kharif season (July Month)	
Seed Rate (Per acre)	2 kg	
Crop duration	95 days	
Productivity	18-20 qt/ha	
Characters / features	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	
Remark	Recommended for the medium deep soils of Western Mahatarashta in late Kharif season for both Rainfed and Irrigated conditions	



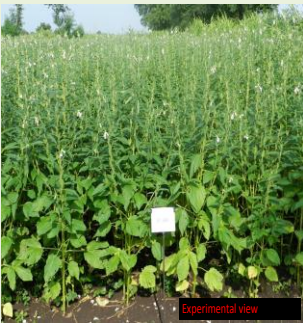
## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Sunflower - Bhaskar

	Release year	2015
	Name of Institute / University	ZARS, Solapur (MPKV, Rahuri)
	Soil type	Medium deep to deep
	Climate	Optimum Temperature: 20 to 32°C
Sowing Time / Planting period	Kharif season	
Seed Rate (Per acre)	4.0 kg/acre	
Crop duration	80-85 days	
Productivity	16-18 quintal/ha	
Characters / features	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.	
Remark	Recommended for rainfed kharif conditions of Maharashtra state	

#### Sesamum – JLT-408

	Release year	2010
	Name of Institute / University	Oilseeds Research Station Jalgaon (MPKV)
	Soil type	Medium Soil to Black Soil
	Climate	Raifed, Temp. 21 to 26°C during growth period and 26 to 32°C during seed filling period
	Sowing Time / Planting period	Second week of June to first week of July.
	Seed Rate (Per acre)	1.0 to 1.20 kg
	Crop duration	81-85
Productivity	8.40 q/ha (Potential), 7.80 q/ha (Average)	
Characters / features	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

#### Sesamum – Phule Purna (JLT 408-2)



	<b>Release year</b>	2021
	<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>	7 q/ha	
<b>Characters / features</b>	Oil content ( 49.02 %), bold (4g/1000 seed weight) and white seeded, lower in FFA (0.81%) and Iodine Value (106.8), resistant to <i>Cercospora</i> leaf spot, <i>Alternaria</i> leaf spot, <i>Phyllody</i> , <i>Macrophomina</i> stem/root rot, <i>Powdery mildew</i> and Moderately tolerant to pest leaf roller & capsule borer	
<b>Remark</b>	Released for summer cultivation in <i>Khandesh</i> and adjoining areas of <i>Vidarbha</i> and <i>Marathwada</i> region	

#### 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 linolenic acid and proteins, resistant to leaf eating cater piller and powdery mildew	




## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

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

	Release year	2008
	Name of Institute / University	ZARS, Igatpuri, Nashik
	Soil type	Light to medium black
	Climate	Hot & Humid
Sowing Time / Planting period	Onset of monsoon June- July	
Seed Rate (Per acre)	1.6 to 2.0 Kg	
Crop duration	95-100 days	
Productivity	450-500 Kg/ha	
Characters / features	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.	

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

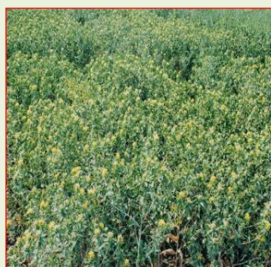
	Release year	2014
	Name of Institute / University	ZARS, Igatpuri, Nashik
	Soil type	Light to medium black
	Climate	Hot & Humid
Sowing Time / Planting period	Onset of monsoon June- July	
Seed Rate (Per acre)	1.6 to 2.0 Kg	
Crop duration	105-110 days	
Productivity	450 to 550 Kg/ha	
Characters / features	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.	



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Safflower - Bhima



	Release year	1982
	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	120-130 days	
Productivity	13-15 quintal/ha (5-6qt/acre)	
Characters / features	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	
Remark	Recommended for Maharashtra state	

#### Safflower – Girna



	Release year	1990
	Name of Institute / University	AICRP on safflower, Jalgaon, 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	130-135 days
	Productivity	5-6 qt/acre
Characters / features	Moderately tolerant to Aphid, Moderately tolerant to fusarium wilt, Oil content -28-30%	
Remark	Recommended for Khandesh Region of Maharashtra state	







## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Safflower - Phule Kusuma

	Release year	2003
	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	125-140 days	
Productivity	Rainfed -13-15qt/ha (5-6 qt/acre) & Irrigated-20-22 qt/ha (8-9 qt/acre)	
Characters / features	Moderately tolerant to Aphid, Oil content 30%, Flower colour at bloom-yellow and at faded stage red spot	
Remark	Recommended for assured rainfed and irrigated areas of the country	

#### 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	



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Safflower - SSF-708



<b>Release year</b>	2010
<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>	115-120 days
<b>Productivity</b>	Rainfed 14-16quintal/ha (5-6 qt/acre) & Irrigated-22-25 qt/ha (9-10 qt/acre)
<b>Characters / features</b>	Moderately tolerant to Aphid, Oil content -31%, Flower colour at bloom-white and at faded – red, 100 seed wt 5.0g
<b>Remark</b>	Recommended for rainfed and irrigated safflower growing areas Maharashtra

#### 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



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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


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



	Release year	2012
	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)	.0 kg/acre	
Crop duration	125-140 days	
Productivity	13-16 quintal/ha (5-6 qt/acre), Irrigated-22-25 qt/ha (9-10 qt/acre)	
Characters / features	Moderately tolerant to Aphid, Oil content -29%, Flower colour at bloom-yellow and at faded stage red, 100seed wt-6g	
Remark	Recommended for rainfed and irrigated areas of the country	

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




	Release year	2020
	Name of Institute / University	AICRP on safflower, Solapur (MPKV, Rahuri)
	Soil type	Medium deep to deep
	Climate	Optimum Temperature: 16.0 to 32.0 oC
Sowing Time / Planting period	15 September to 15 October	
Seed Rate (Per acre)	4.0 kg/acre	
Crop duration	125-126 days	
Productivity	20 quintal/ha	
Characters / features	Oil content- 29.2 %, moderately resistant to aphid, tolerant reaction to <i>Alternaria</i> leaf spot of safflower	
Remark	Recommended for safflower growing area of the country (Maharashtra, Karnataka, Andhra and Telangana).	




## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Safflower – Phule Nira (SSF-12-40)

	Release year	2020
	Name of Institute / University	AICRP on safflower, Solapur (MPKV, Rahuri)
	Soil type	Medium deep to deep
	Climate	Optimum Temperature: 16.0 to 32.0 oC
Sowing Time / Planting period	15 September to 15 October	
Seed Rate (Per acre)	4.0 kg/acre	
Crop duration	120-125 days	
Productivity	Grain yield- 17 quintal/ha, Oil yield - 565 kg/ha	
Characters / features	Moderately resistant to <i>Fusarium</i> wilt disease, moderately resistant for aphid	
Remark	Recommended for release for cultivation in safflower growing of the Country (Maharashtra, Karnataka, Andhra and Telangana) for rainfed and conditions.	

#### Safflower – Phule Gold (SSF-15-65)


	Release year	2021
	Name of Institute / University	AICRP on safflower, Solapur (MPKV, Rahuri)
	Soil type	Medium deep to deep
	Climate	Optimum Temperature: 16.0 to 32.0 oC
Sowing Time / Planting period	15 September to 15 October	
Seed Rate (Per acre)	4.0 kg/acre	
Crop duration	120-125 days	
Productivity	16.65 qtl./ha., Oil yield - 575 kg/ha	
Characters / features	Oil content- 34.6 %, moderately resistant to <i>Fusarium</i> wilt disease	
Remark	Recommended for release in safflower growing Zone-I (Maharashtra, Karnataka, Andhra and Telangana) of the Country	



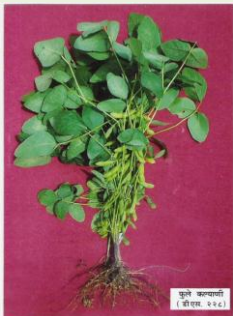
## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Safflower – Phule Kiran (SSF-16-02)

	Release year	2021
	Name of Institute / University	AICRP on safflower, Solapur (MPKV, Rahuri)
	Soil type	Medium deep to deep
	Climate	Optimum Temperature: 16.0 to 32.0 oC
Sowing Time / Planting period	15 September to 15 October	
Seed Rate (Per acre)	4.0 kg/acre	
Crop duration	125-130 days	
Productivity	Grain yield- 20.58 qtl./ha Oil yield - 632 kg/ha	
Characters / features	Oil content- 30.55 %, moderately tolerant to aphid	
Remark	Recommended for release in safflower growing areas of the Country (Maharashtra, Karnataka, Telengana, Andhra Pradesh, Madhya Pradesh and Chhattisgad)	

#### Soybean – Phule Kalyani (DS 228)

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





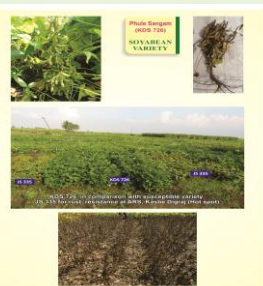
## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Soybean – Phule Agrani (KDS 344)

	Release year	2015
	Name of Institute / University	Agricultural Research Station, K.Digraj, Dist.Sangli
	Soil type	Well drained, medium to heavy sandy loam soil.
	Climate	Kharif season
Sowing Time / Planting period	2 <sup>nd</sup> fortnight of June to first week of July	
Seed Rate (Per acre)	30 kg	
Crop duration	105-110 days	
Productivity	25-30 Qt/ha	
Characters / features	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.	
Remark	Resistance to rust diseases.	

#### Soybean – Phule Sangam (KDS 726)

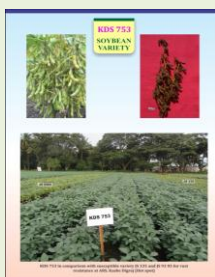
	Release year	2016
	Name of Institute / University	Agricultural Research Station, K.Digraj, Dist.Sangli
	Soil type	Well drained, medium to heavy sandy loam soil.
	Climate	Kharif season.
Sowing Time / Planting period	Last week of June to first week of July	
Seed Rate (Per acre)	25 kg	
Crop duration	100-105 days	
Productivity	23-25 Qt/ha	
Characters / features	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.	
Remark	Resistance to rust diseases.	



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### 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>	Kharif 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>	105-110 days
<b>Productivity</b>	25-30 qt/ha
<b>Characters / features</b>	--
<b>Remark</b>	Resistance to rust diseases.

#### Soybean – KS-103



<b>Release year</b>	2018
<b>Name of Institute / University</b>	College of Agricultural Kolhapur
<b>Soil type</b>	Well drained, medium to heavy sandy loam soil.
<b>Climate</b>	Kharif 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



## Mahatma Phule Krishi Vidyapeeth, Rahuri

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

#### Soybean – Phule Durva (KDS 992)

	Release year	2021
	Name of Institute / University	Agricultural Research Station, K.Digraj, Dist.Sangli
	Soil type	Well drained, medium to heavy sandy loam soil.
	Climate	Kharif season.
Sowing Time / Planting period	Last week of June to first week of July	
Seed Rate (Per acre)	25-30 kg	
Crop duration	100-105 days	
Productivity	25-30 qt./ha.	
Characters / features	Oil content (18.25 %), resistant to rust, purple seed stain and bacterial pustule diseases	
Remark	Recommended at National level for Southern Maharashtra, Telangana, Karnataka, Andhra Pradesh and Telangana.	