



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybried Varieties Developed by University

Improved / Hybried Varieties of Sugarcane

Co-419



Release year	1996
Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.
Soil type	Medium to deep black, fertile, Well drained
Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C 2. Tillering Stage: Hot with bright sunshine for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Adsali -15 July to 15 August Suru -15 January to 15 February
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets
Crop duration	Adsali – 16-18 months Suru- 12-14 months
Productivity	Adsali- 154 t /ha Suru- 122 t /ha
Characters / features	Leaves – Medium broad, Green and spines on leaf sheath, Cane Medium thick, Green cane turns purple when exposed to sunlight, Best for drinking juice (<i>Rasvanti</i>) , Best rationing ability, No pith formation, Midlate maturing, Excellent jaggery quality, Sparse flowering



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybried Varieties Developed by University

Co-740




	Release year	1956
	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C 2. Tillering Stage: Hot with bright sunshine for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Adsali -15 July to 15 August Preseason- 15 October to 15 November Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Adsali – 16-18 months Preseason- 14-16 months Suru- 12-14 months	
Productivity	Adsali- 156 t /ha Preseason- 123 t/ha Suru- 106 t /ha	
Characters / features	Leaves – Medium broad, Green with masaic and spines on leaf sheath, Cane- Greenish yellow, Medium thick, if lodging no breaking on internodes, Drought tolerant, Salinity tolerant, Profuse tillering, Best rationing ability, No pith formation, Susceptible to smut disease, Late maturing, no sugar deterioration if delayed harvesting	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybried Varieties Developed by University

Sanjivani (Co-7219)

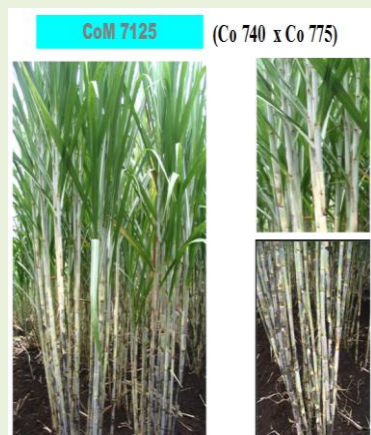
	Release year	1982
	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C 2. Tillering Stage: Hot with bright sunshine for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Preseason- 15 October to 15 November Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Preseason – 14-16 months Suru- 12-14 months	
Productivity	Preseason - 131 t /ha Suru- 110 t /ha	
Characters / features	Leaves – Yellowish Green, Broad, spines on leaf sheath, bended from middle of leaf, Cane- Medium thick, Green with purple blotches, bud groove present, small and round buds, pith formation if water stress, Susceptible to smut disease, Moderately resistant to grassy shoot disease (GSD), Early maturing and Sparse flowering	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybried Varieties Developed by University

Sampada (CoM-7125)



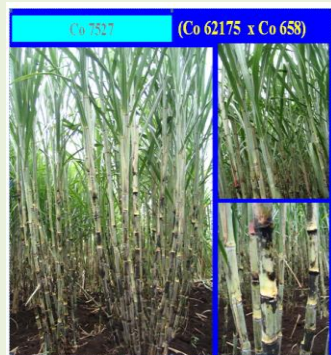
	Release year	1982
	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C 2. Tillering Stage: Hot with bright sunshine for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Suru- 12-14 months	
Productivity	Suru-104 t /ha	
Characters / features	Leaves – Erect, Medium long leaves with dark green colour, Cane- Medium thick, Yellowish green, non lodging, Resistant to smut disease, Midlate to late maturing	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybrid Varieties Developed by University

Co-7527



	Release year	1988
	Name of Institute / University	Regional Sugarcane and Jaggery Research Station, Kolhapur, MPKV, Rahuri.
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C 2. Tillering Stage: Hot with bright sunshine for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Suru- 12-14 months	
Productivity	Suru-122 t /ha	
Characters / features	Leaves – Broad, bended towards earth, Dark green, Medium long, Cane- Thick, Green, Non lodging, Suitable for flood condition, Susceptible to smut and rust disease, Late maturing , Sparse flowering	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybried Varieties Developed by University

Krishna (CoM-88121)



	Release year	1993
	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C 2. Tillering Stage: Hot with bright sunshine for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Adsali -15 July to 15 August Preseason- 15 October to 15 November Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Adsali – 16-18 months Preseason- 14-16 months Suru- 12-14 months	
Productivity	Adsali- 166 t /ha Preseason- 130 t/ha Suru- 115 t /ha	
Characters / features	Leaves – Bended towards earth, Yellowish green, Medium long, Cane- Medium thick, Turns purple when exposed to sunlight, wax on internodes, Drought tolerant, Profuse tillering, Moderately resistant to smut disease, Late maturing, no sugar deterioration if delayed harvesting	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybrid Varieties Developed by University

Mahalaxmi (Co-8014)



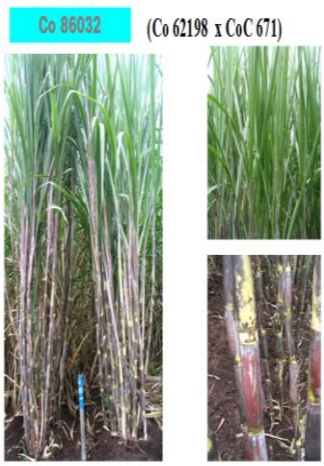
	Release year	1994
	Name of Institute / University	Regional Sugarcane and Jaggery Research Station, Kolhapur, MPKV, Rahuri
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry climate with clear sunlight, Optimum temperature 20-32°C 2. Tillering Stage: Hot with Bright sunshine hours for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity: Cool and dry climate, Night Temperature 7-14 °C.
Sowing Time / Planting period	Suru -15 January to 15 February Preseason -15 October to 15 November	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Suru- 12-14 months Preseason - 14-16 months	
Productivity	Suru- 98 t /ha Preseason – 135 t/ha	
Characters / features	Leaves -Broad, Green and spines on leaf sheath, Cane-Medium thick, Green cane and prone to lodging, Early maturing, Moderately resistant to smut disease, Excellent jaggery quality, Sparse flowering, Recommended for Satara, Sangli and Kolhapur district only	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybrid Varieties Developed by University

Nira (Co-86032)



	Release year	1996
	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry climate with clear sunlight, Optimum temperature 20-32°C 2. Tillering Stage: Hot with Bright sunshine hours for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity: Cool and dry climate, Night Temperature 7-14 °C.
Sowing Time / Planting period	Adsali -15 July to 15 August Preseason- 15 October to 15 November Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Adsali – 16-18 months Preseason- 14-16 months Suru- 12-14 months	
Productivity	Adsali – 150 t/ha Preseason- 139 t/ha Suru- 106 t/ha	
Characters / features	High cane and CCS yield, Sparse flowering, Easy de-trashing, Profuse tillering, Good ratoonability, Midlate maturing, Moderately resistant to smut, Red rot, wilt and Grassy shoot disease, Drought tolerant.	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybrid Varieties Developed by University

Co-94012

 	Release year	2004
	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C 2. Tillering Stage: Hot with bright sunshine for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Preseason- 15 October to 15 November Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Preseason- 14-16 months Suru- 12-14 months	
Productivity	Preseason- 135t/ha Suru- 98 t /ha	
Characters / features	Leaves – Broad, Yellowish green, Erect, Spines on leaf sheath, Cane- Medium thick, Turns purple when exposed to sunlight, wax on internodes, Drought tolerant, No breaking on internodes when lodged, High sugar (CCS 14.24 %), Moderately resistant to smut and red rot disease, Early maturing, Yield reduction if harvesting is delayed.	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybrid Varieties Developed by University

Phule-265 (CoM 0265)




	Release year	2007
	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri
	Soil type	Medium to deep black, fertile, Well drained, can grow in saline soil also.
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry climate with clear sunlight, Optimum temp. 20-32°C 2. Tillering Stage: Hot with Bright sunshine hours for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity: Cool and dry climate, Night Temperature 7-14 °C.
Sowing Time / Planting period	Adsali -15 July to 15 August Preseason- 15 October to 15 November Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Adsali – 16-18 months Preseason- 14-16 months Suru- 12-14 months	
Productivity	Adsali – 200 t/ha Preseason- 164 t/ha Suru- 150 t/ha	
Characters / features	15-20 % higher cane and CCS yield than Co 86032, Profuse tillering, Sparse flowering, easy de-trashing, Can grow in saline soils also, Good ratoonability, Midlate maturing, moderately resistant to smut, Red rot and wilt disease, Drought tolerant.	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybried Varieties Developed by University

Co-92005

	Release year	2009
	Name of Institute / University	Regional Sugarcane and Jaggery Research Station, Kolhapur, MPKV, Rahuri
	Soil type	Medium deep to deep red Soils, Well drained fertile soils
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry climate with clear sunlight, 20-32°C Temp. 2. Tillering Stage: Hot, Bright sunshine hours for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, 80-85 % Humidity, 20-30 °C Temperature 4. Maturity: Cool and dry climate, 7-14 °C Temperature at night.
Sowing Time / Planting period	Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Suru- 12 - 14 months	
Productivity	Suru- 128 t/ha	
Characters / features	<p>Higher jaggery yield than Co 86032, CoC 671 and Co 8014, A₁ Quality jaggery with higher jaggery recovery and getting higher price for jaggery, Early maturity with higher CCS %, Recommended Satara, Sangali and Kolhapur districts of Maharashtra, Excellent keeping quality during storage, Moderately susceptible to smut disease, resistant to red rot and wilt diseases.</p>	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybried Varieties Developed by University

MS-10001 (Phule 10001)



	Release year	2017
	Name of Institute/ University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C 2. Tillering Stage: Hot with bright sunshine for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Preseason- 15 October to 15 November Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Preseason- 14-16 months Suru- 12-14 months	
Productivity	Preseason- 151 t/ha Suru- 133 t /ha	
Characters / features	High cane and CCS yield , Tolerant to salinity, Sparse flowering, No pith formation, Profuse tillering, Drought tolerant, Excellent ratoonability, Easy detashing, Early maturing, Moderately resistant to red rot and wilt, Resistant to smut, Moderately susceptible to internode borer	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybried Varieties Developed by University

Phule 09057



	Release year	2019
	Name of Institute/ University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ol style="list-style-type: none"> 1. Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C 2. Tillering Stage: Hot with bright sunshine for longer duration 3. Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C 4. Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Suru- 12-14 months	
Productivity	Jaggery 17.61 t /ha	
Characters / features	<ul style="list-style-type: none"> • Midlate maturing variety, recommended for suru season. • Recommended for Jaggery making in Maharashtra State. • Resistant (R) to smut, Moderately susceptible (MS) to red rot and Moderately resistant (MR) to wilt. • Resistant to foliar diseases (Rust, brown spot, Pokka boeng) under natural conditions. 	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybrid Varieties Developed by University

Phule 11082 (CoM 11082)




	Release year	2021
	Name of Institute/ University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ul style="list-style-type: none"> Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C Tillering Stage: Hot with bright sunshine for longer duration Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Preseason- 15 October to 15 November Suru -15 January to 15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Early maturing (Duration 12 months)	
Productivity	Cane Yield <i>Suru</i> – 107 t ha ⁻¹ and Preseasonal- 118 t ha ⁻¹	
Characters / features	Sucrose content (19.87 %), moderately Resistant to red rot and wilt, resistant to smut and yellow leaf disease, least susceptible to ESB, INB, top shoot borer, moderately susceptible to mealy bugs.	
Remark	Recommended in Maharashtra for suru and presesonal planting.	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybrid Varieties Developed by University

Phule Sugarcane 15012 (MS 17082)

	Release year	2022
	Name of Institute/ University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ul style="list-style-type: none"> Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C Tillering Stage: Hot with bright sunshine for longer duration Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Autumn-15 th Oct to 30 th Nov and Spring-15 th Dec to 15 th February, Adsali- 15 th July – 15 th August	
Seed Rate (Per acre)	10000 two eye bud setts or 4500 settlings per acre. Row Spacing- 120 cm medium soils and 150 cm in Deep black soil.	
Crop duration	12 months	
Productivity	Cane yield: <i>Adsali</i> -164 tha ⁻¹ , <i>Preseason</i> -156 tha ⁻¹ and <i>Suru</i> -130 tha ⁻¹ , Ratoon crop: Cane yield- 128 tha ⁻¹	
Characters / features	CCS yield: <i>Adsali</i> -23.7 tha ⁻¹ , <i>Preseason</i> -21.6 tha ⁻¹ and <i>Suru</i> -18.8 tha ⁻¹ and CCS yield- 17.7 tha ⁻¹ , midlate variety, best for rasvanti, drought tolerant, moderately resistant to red rot and wilt, resistant to smut & YLD, least susceptible (LS) to early shoot borer, internode borer, top shoot borer & scale insect.	
Remark	Recommended for recommended for adsali, preseason and suru in Maharashtra state	



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Cropwise Improved / Hybried Varieties Developed by University

Phule Sugarcane 13007 (MS 14082)



	Release year	2023
	Name of Institute/ University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.
	Soil type	Medium to deep black, fertile, Well drained
	Climate	<ul style="list-style-type: none"> • Germination Stage: Hot and dry with clear sunshine, Optimum temperature 20-32°C • Tillering Stage: Hot with bright sunshine for longer duration • Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C • Maturity stage: Cool and dry, Night Temperature 7-14 °C.
Sowing Time / Planting period	Preseason- 15 October to 15 November Suru -15 January to 15 February	
Seed Rate (Per acre)	25000 two eye bud setts / ha, Spacing between rows- 120 cm	
Crop duration	12-14 months	
Productivity	Cane yield- 128.60 t/ha, CCS yield- 17.58 t/ha	
Characters / features	Midlate maturing variety for autumn (Pre-season) and spring (Suru) planting season, moderately resistant to red rot and wilt, moderately resistant to smut, resistant to YLD, least susceptible (LS) to early shoot borer, internode borer, top shoot borer & scale insect.	
Remark	Maharashtra, Gujarat, Karnataka, Tamil Nadu, Andhra Pradesh, Madhya Pradesh and Chhattisgarh (Peninsular Zone)	