

Improved / Hybried Varieties of Sugarcane

Co 0419 (PoJ 2878 x Co 290)	Release year	1996	
THE ALL A	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.	
	Soil type	Medium to deep black, fertile, Well drained	
	Climate	 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 /	Adsali -15 July to 15 August		
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	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		



	Release year	1956	
Co 740 (Co 41) x Co 440 x (Co 441 x Co 440)	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.	
	Soil type	Medium to deep black, fertile, Well drained	
	Climate	 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 /	Adsali -15 July to 15 August		
Planting period	Preseason- 15 Octo	ber 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		
	Adsali- 156 t /ha		
Productivity	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		



Sanjivani (Co-7219)

	Release year	1982	
Co 740 (Co 421 x Co 440) x (Co 465 x Co 440)	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.	
	Soil type	Medium to deep black, fertile, Well drained	
	Climate	 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	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		



	Release year	1982	
Com 7125 (Co 740 x Co 775) Image: Comparison of the compar	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.	
	Soil type	Medium to deep black, fertile, Well drained	
	Climate	 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	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		

Sampada (CoM-7125)



	Release year1988		
Co 7527 (Co 62175 x Co 658)	Name of Institute / University	Regional Sugarcane and Jaggery Research Station, Kolhapur, MPKV, Rahuri.	
	Soil type	Medium to deep black, fertile, Well drained	
	Climate	 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	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		



Krishna (CoM-88121)

	Release year	1993	
Com 88121 (Co 740 x Co 6806)	Name of Institute / University	Central Sugarcane Research Station, Padegaon, MPKV, Rahuri.	
	Soil type	Medium to deep black, fertile, Well drained	
	Climate	 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	Adsali -15 July to 1	0	
period		ber 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		
	Adsali- 166 t /ha		
Productivity	Preseason- 130 t/ha		
	Suru- 115 t /ha		
Characters / features	Cane- Medium thi wax on internoo	owards earth, Yellowish green, Medium long, ck, Turns purple when exposed to sunlight, des, Drought tolerant, Profuse tillering, nt to smut disease, Late maturing, no sugar uyed harvesting	



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Mahalaxmi (Co-8014)	Maha	laxmi	(Co-	8014)
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	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	
		 Germination Stage: Hot and dry climate with clear sunlight, Optimum temperature 20-32°C Tillering Stage: Hot with Bright 	
	Climate	 Infering Stage: Hot with Bright sunshine hours for longer duration Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C Maturity: Cool and dry climate, Night Temperature 7-14 °C. 	
Sowing Time / Planting	Suru -15 January to 15 February		
period	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		



Nira (Co-86032)

	Release year1996		
Co 86032 (Co 62198 x CoC 671)	Name of Institute	Central Sugarcane Research Station,	
	/ University	Padegaon, MPKV, Rahuri	
	Soil type	Medium to deep black, fertile, Well drained	
	Climate	 Germination Stage: Hot and dry climate with clear sunlight, Optimum temperature 20-32°C Tillering Stage: Hot with Bright sunshine hours for longer duration Grand growth stage: Hot and humid, sufficient rainfall, Humidity 80-85 %, Optimum temperature 20-30 °C Maturity: Cool and dry climate, Night Temperature 7-14 °C. 	
Sowing Time / Planting	Adsali -15 July to 1	5 August	
period	Preseason-15 Octo	ber to 15 November	
period	Suru -15 January to	15 February	
Seed Rate (Per acre)	10000-12000 two eye bud setts or 4500-5500 sugarcane plantlets		
	Adsali – 16-18 months		
Crop duration	Preseason- 14-16 months		
	Suru- 12-14 months		
	Adsali – 150 t/ha		
Productivity	Preseason- 139 t/ha		
	Suru- 106 t/ha		
	<u> </u>	S yield, Sparse flowering, Easy de-trashing,	
Characters / features	U 1	Good ratoonability, Midlate maturing,	
	Moderately resistant to smut, Red rot, wilt and Grassy shoot		
	disease, Drought tolerant.		



Manual Commonwealth	Release year	2004	
	Name of Institute /	Central Sugarcane Research Station,	
A MERCENTER TO AL	University	Padegaon, MPKV, Rahuri.	
	Soil type	Medium to deep black, fertile, Well drained	
	Climate	 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	Preseason- 15 October to 15 November		
period	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.		



Phule-265 (CoM 0265)

	Release year	2007	
	Name of Institute	Central Sugarcane Research Station,	
	/ University	Padegaon, MPKV, Rahuri	
	Soil type	Medium to deep black, fertile, Well drained, can grow in saline soil also.	
	Climate	 Germination Stage: Hot and dry climate with clear sunlight, Optimum temp. 20- 32°C Tillering Stage: Hot with Bright sunshine hours for longer duration 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	Adsali -15 July to 1	0	
period		ber to 15 November	
*	Suru -15 January to 15 February		
Seed Rate (Per acre)		ye bud setts or 4500-5500 sugarcane plantlets	
Crop duration	Adsali – 16-18 months		
	Preseason- 14-16 months Suru- 12-14 months		
	Adsali – 200 t/ha		
Productivity	Preseason- 164 t/ha		
	Suru- 150 t/ha	and CCC wield then Co. 9(022) Durface	
Characters / features	tillering, Sparse flo soils also, Good	ane and CCS yield than Co 86032, Profuse owering, easy de-trashing, Can grow in saline ratoonability, Midlate maturing, moderately ed rot and wilt disease, Drought tolerant.	



	Release year2009	
	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	 Germination Stage: Hot and dry climate with clear sunlight, 20-32°C Temp. Tillering Stage: Hot, Bright sunshine hours for longer duration Grand growth stage: Hot and humid, sufficient rainfall, 80-85 % Humidity, 20-30 °C Temperature 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	Higher jaggery yield than Co 86032, CoC 671 and Co 8014, A ₁ 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.	



MS-10001 (Phule 10001)

	Release year	2017
	Name of Institute/	Central Sugarcane Research Station,
	University	Padegaon, MPKV, Rahuri.
	Soil type	Medium to deep black, fertile, Well drained
	Climate	 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	Preseason- 15 October to 15 November	
period	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 detrashing, Early maturing, Moderately resistant to red rot and wilt, Resistant to smut, Moderately susceptible to internode borer	



Phule 09057

	Release year	2019
	Name of Institute/	Central Sugarcane Research Station, Padagaon MPKV Pahuri
	University Soil type	Padegaon, MPKV, Rahuri. Medium to deep black, fertile, Well drained
	Soil type Climate	 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	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	 Midlate maturing variety, recommended for <i>suru</i> 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. 	