



Improved / Hybried Varieties of Fodder Crops

Bajra - Giant Bajra



Release year	1980
Name of Institute / University	MPKV, Rahuri
Soil type	Light to medium well drained soil
Climate	Kharifi and summer
Sowing Time / Planting period	Kharif: June- July, Summer: February- March
Seed Rate (Per acre)	4 kg/acre
Crop duration	1 st cut: 50 to 55 days after sowing 2 nd cut: 40-45 days after 1 st cut
Productivity	450 to 500 q/ha
Characters / features	Plant type - Tall plants (250-300cm) with profuse tillering, Leaves - High leafiness, Stem - Juicy, Crude Protein (%) 8 to 9 %
Remark	Two cuts can be taken

Maize - African Tall




Release year	1982
Name of Institute / University	MPKV, Rahuri
Soil type	Medium to heavy, well drained soil
Climate	Kharif, Rabi and summer
Sowing Time / Planting period	Kharif: June- July, Rabi: October-November, Summer: February-march
Seed Rate (Per acre)	30 kg
Crop duration	70 to 75 days (For fodder)
Productivity	600-700 q/ha
Characters / features	Plant type -Tall plants (255-265cm), vigorous, sturdy with leafier and well eveloped stalks, Leaves - Long, broad dark green leaves, Stem - Thick, juicy stems with purple base, Cobs - Big, long & cylindrical, Grain - white, bold and semi-dent, Crude Protein (%) - 9 to 11 %




Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybried Varieties Developed by University

Sorghum - Ruchira

	Release year	1982
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium to heavy, well drained soil
	Climate	Kharif, Rabi and summer
Sowing Time / Planting period	Kharif: June- July Rabi: 15 th September to 15 th October Summer: February- March	
Seed Rate (Per acre)	16 kg/acre	
Crop duration	65 to 70 days (For fodder)	
Productivity	500 to 550 q/ha	
Characters / features	Plant type - Medium tall, High yielding, Fodder quality - Green Fodder - palatable, Stems- juicy, Dry fodder - good quality, Silage making - Green fodder is good for silage making, Crude Protein (%) - 8 to 10 %	
Remark	Two cuts can be taken	

Forage Sorghum - Phule Amruta (RSSV-9)


	Release year	2003
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium-Deep soil
	Climate	Kharif Season
	Sowing Time / Planting period	15 th June to 7 th July
Seed Rate (Per acre)	12 kg/ Acre	
Crop duration	76-80 days	
Productivity	Green forage yield: 40-50 T./ha.	
Characters / features	Non tan pigment, Single cut variety, Tolerant to shoot fly, Tolerant to foliar diseases	
Remark	Responsive to irrigation & fertilizer and suitable for Single cut purpose	




Mahatma Phule Krishi Vidyapeeth, Rahuri

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Cowpea - Shweta

	Release year	1986 (State release)
	Name of Institute / University	MPKV, Rahuri
	Soil type	Shallow to medium well drained soil
	Climate	Kharif and Summer
Sowing Time / Planting period	Kharif : June- July , Summer: February- March	
Seed Rate (Per acre)	16 kg/acre	
Crop duration	65 to 70 days (For fodder)	
Productivity	250 to 300 q/ha	
Characters / features	Plant type - High yielding, very leafy, Leaves Foliage remains green from flowering to pod formation without deterioration in forage quality, Crude Protein (%) - 13 to 15 %	

Bajara - Napier Hybrid - Yashwant


	Release year	1987
	Name of Institute / University	Mahatma Phule Krishi Vidyapeeth, Rahuri
	Soil type	Medium to deep, well fertile and well drained, PH 6.5 to 8.5
	Climate	Kharif and Summer
Sowing Time / Planting period	Kharif: June-August, Summer: February- March Spacing: 90 x 60 cm on ridges and furrow	
Seed Rate (Per acre)	Rooted slips: 7400/acre	
Crop duration	Perennial (3 years) 1 st Cutting 60 to 70 days after planting. Subsequent cuts are taken 45-50 days interval	
Productivity	Green fodder yield: 360-400 qtl./acre/year (6-8 cuts)	
Characters / features	Dark green broad leaves, profuse tillering, Crude protein : 10.63 % IVDMD: 63.65 %, Low oxalic acid : 2.46 %	
Remark	Recommended for irrigated condition of Maharashtra	




Mahatma Phule Krishi Vidyapeeth, Rahuri

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Lucerne – R.L.-88

	Release year	1995
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium to heavy well drained soil
	Climate	Rabi
Sowing Time / Planting period	Rabi: October to November	
Seed Rate (Per acre)	10 kg/acre	
Crop duration	Three years	
Productivity	1000 to 1200 q/ha/year	
Characters / features	Productivity - High yielding, quick re-growth, vigorous plants, Leaves - Broader leaves, Stem - Reddish tinge on main tiller at ground level, Persistancy - More plant stand at the end of each year, Crude Protein (%) - 20 to 22 %	
Remark	Perennial variety	

Stylo – Phule Kranti


	Release year	2005
	Name of Institute / University	Mahatama Phule Krishi Vidyapeeth, Rahuri
	Soil type	Light to medium
	Climate	Kharif
Sowing Time / Planting period	June-July/ Perennial / Spacing: Line sowing at 30 cm between lines, Seed should not be covered with soil	
Seed Rate (Per acre)	4 kg/acre	
Crop duration	Perennial (3years)	
Productivity	Green forage yield 100-120 qtl./acre/year	
Characters / features	Good establishment during first year, High Crude protein : 13-14 % Less Hemicelluloses: 10.17 %, Less Silica : 0.51 %	
Remark	Recommended for rainfed area of Western Maharashtra	




Mahatma Phule Krishi Vidyapeeth, Rahuri

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Oat – Phule Harita

	Release year	2006
	Name of Institute / University	MPKV, Rahuri
	Soil type	Medium to heavy, well drained soil
	Climate	Rabi
Sowing Time / Planting period	Rabi: October-November	
Seed Rate (Per acre)	40 kg/acre	
Crop duration	1 st cut 50-55 days after sowing and 2 nd cut 35-40 days after 1 st cut	
Productivity	500 to 600 q/ha from two cuts	
Characters / features	Plant type- High yield, Tall plants with more tillers, Leaves - Broad, dark green leaves, Stem - Thick stem, Crude Protein (%) - 9 to 10 %	
Remark	Two cuts can be taken	

Bajara - Napier Hybrid - Phule Jaywant


	Release year	2006
	Name of Institute / University	Mahatama Phule Krishi Vidyapeeth, Rahuri
	Soil type	Medium to heavy, well fertile and well drained
	Climate	Kharif and Summer
Sowing Time / Planting period	Kharif: June-August, Summer: February- March Spacing: 90 x 60 cm on ridges and furrow	
Seed Rate (Per acre)	Rooted slips: 7400/acre	
Crop duration	Perennial (3 years), 1 st Cutting 60 to 70 days after planting. Subsequent cuts are taken 45-50 days interval	
Productivity	Green fodder yield : 400-500 qtl./acre/year (6-8 cuts)	
Characters / features	Dark green foliage, broad and drooping leaves and high tillering, Crud protein: 10-11%, Low oxalic acid : 1.91%, IVDMD: 61-62 %	
Remark	Recommended for Irrigated condition of Central zone and South zone of India	




Mahatma Phule Krishi Vidyapeeth, Rahuri

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Marvel (Rainfed) - Phule Marvel 06-40

	Release year	2012
	Name of Institute / University	Mahatama Phule Krishi Vidyapeeth, Rahuri
	Soil type	Light to Medium
	Climate	Kharif
Sowing Time / Planting period	Period: June-August, Spacing: 45 x 30 cm,	
Seed Rate (Per acre)	30,000 rooted slips/acre	
Crop duration	Perennial Cutting at 50 % flowering stage	
Productivity	Green fodder: 140-160 qtl./acre/year	
Characters / features	High green forage yield under rainfed condition, Crud protein : 6-7 %, IVDMD : 61-62%	
Remark	Recommended for Rainfed condition of Maharashtra for Pastureland development	

Marvel (Irrigated) - Phule Govardhan

	Release year	2013
	Name of Institute / University	Mahatama Phule Krishi Vidyapeeth, Rahuri
	Soil type	Medium to heavy, well drained
	Climate	Kharif/Summer
Sowing Time / Planting period	Kharif: June-August, Summer: February- March Spacing : 45 x 30 cm	
Seed Rate (Per acre)	30,000 two eye bud sets /acre	
Crop duration	Perennial (2 -3 years)	
Productivity	Green fodder yield : 250-300 qtl./acre/ year (6-8 cuts)	
Characters / features	High green forage yield under irrigated condition, Crud protein : 6-7 %, IVDMD : 61.00 %, Brix : 7.5	
Remark	Recommended for Irrigated condition of Maharashtra	



Mahatma Phule Krishi Vidyapeeth, Rahuri

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Bajara - Napier Hybrid - Phule Gunwant



Release year	2016
Name of Institute / University	Mahatama Phule Krishi Vidyapeeth, Rahuri
Soil type	Medium to heavy, well fertile and well drained
Climate	Kharif and Summer
Sowing Time / Planting period	Kharif: June-August, Summer: February- March Spacing: 90 x 60 cm on ridges and furrow
Seed Rate (Per acre)	Rooted slips: 7400/acre
Crop duration	Perennial (3 years) 1 st Cutting 60 to 70 days after planting. Subsequent cuts are taken 45-50 days interval
Productivity	Green fodder yield : 500-600 qtl./acre/year
Characters / features	Dark green leaves, High tillering habit, soft, broad and long leaves, Crud protein : 9-10 %, Low oxalic acid : 2.05%, IVDMD : 56.08 %
Remark	Recommended for Irrigated condition Maharashtra,

Oat – Phule Surabhi



Release year	2016
Name of Institute / University	MPKV, Rahuri
Soil type	Medium to heavy, well drained soil
Climate	Rabi
Sowing Time / Planting period	Rabi: October-November
Seed Rate (Per acre)	40 kg/acre
Crop duration	85 to 90 days (For fodder)
Productivity	450 to 500 q/ha
Characters / features	Plant type - Tall, semi-drooping leaves, Leaves - Broad, dark green leaves, Medium hairs on sheath of lowest leaf, Stem - Thick stem, Crude Protein (%) - 8.5 to 9 %
Remark	Single cut variety



Mahatma Phule Krishi Vidyapeeth, Rahuri

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Marvel (Rainfed) - Phule Marvel-1



	Release year	2017
	Name of Institute / University	Mahatama Phule Krishi Vidyapeeth, Rahuri
	Soil type	Light to Medium
	Climate	Kharif
Sowing Time / Planting period	Period: June-August, Spacing: 45 x 30 cm,	
Seed Rate (Per acre)	30,000 rooted slips/acre	
Crop duration	Perennial (3 -4 years)	
Productivity	Green fodder yield : 160-180 qtl /acre/year	
Characters / features	Good fodder quality, Crude protein: 6-7 %, IVDMD: 49-50 %	
Remark	Recommended for Rainfed condition of Central zone (Maharashtra, Madhya Pradesh, Gujarat, Uttar Pradesh) for pasture land development	

Madras Anjan - Phule Madras Anjan-1



	Release year	2017
	Name of Institute / University	Mahatama Phule Krishi Vidyapeeth, Rahuri
	Soil type	Light to Medium
	Climate	Kharif
Sowing Time / Planting period	Period : June-August, Spacing : 45 x 30 cm ,	
Seed Rate (Per acre)	2-2.5 Kg/acre or 30,000 rooted slips/acre	
Crop duration	Perennial, Cutting at 50 % flowering stage	
Productivity	Green fodder: 160-200 qtl/acre/year	
Characters / features	Good fodder quality, Crude protein: 6-7 %, IVDMD: 52 %	
Remark	Recommended for Rainfed condition of North-West zone (Punjab and Rajasthan) and Central zone (Maharashtra, Gujarat, Uttar Pradesh) for Pastureland development. R (Maharashtra, Gujarat, Uttar Pradesh)	