

## NEW VARIETIES RECOMMENDED FOR RELEASE DURING 2020-21

Crop	Variety	Zone recommended
Paddy	KMP 220	Zone 6
	MSN -99	Zone 6
Ragi	KMR-316	Zone 5 and 6
Foxtail Millet	GPUF -3	Zone 5 and 6
Little Millet	GPUL -6	Zone 5 and 6
Proso Millet	GPUP-28	Zone 5 and 6
Grain Amaranth	KBGA-15	Zone 5 and 6
Sugarcane	COVC 18061	Zone 6
Fodder oats	RO-11-1	Zone 5 and 6
Jack fruit	Byrachandra	Zone 5

- a) **Paddy: KMP-220:-** This is a medium duration variety that can be harvested in 125 to 130 days after sowing. This variety can be sown during July 1st to 2nd week and transplanted within 1st week of August in Southern Dry Zone of Karnataka (Zone-6). The grains of this variety are long bold with red kernel and are highly similar to the grains of Jyothi rice variety. Compared to Jyothi rice variety, KMP-220 is moderately tolerant to blast disease and is taller than Jyothi variety. It also gives higher straw and grain yield. Hence, KMP-220 can be grown instead of blast susceptible Jyothi variety. The grain yield potential of this variety is 24-26 q/acre.
- b) **Paddy: MSN 99 (IET 28349):-** It is an early duration (115-120 days) variety suitable for sowing in kharif (June-July), late kharif (August – September) and Summer (January) seasons in irrigated areas of Southern Dry Zone (Zone-6) of Karnataka. A medium tall (100-110 cm) variety with strong culm and erect growing habit, favouring close planting with 50-60 hills/ sq.mt. It has medium slender grains with good cooking properties. With need based control measure against pests and diseases, especially neck blast, one can expect 60-65 quintals of grains and 70-75 quintals of straw yield per hectare.
- c) **Ragi: KMR-316:-** Short duration variety that can be harvested in 100 to 105 days after sowing and can be cultivated during *kharif* (June - July) and late *kharif* (August-September) seasons. Ear heads of this variety are green in color with longtip incurved fingers. This variety is suitable for cultivation in both irrigated and rainfed condition and is also resistant to blast and foot rot diseases. The grain yield potential of this variety is 20-22 and 12-14 q/acre under irrigated and rainfed situations, respectively.

- d) **Foxtail millet: GPUF 3:**-It is a medium duration variety matures in 85 to 90 days. It has semi compact and oblong shaped inflorescence with oval shaped yellow colored seeds. It is moderately resistant to rust and leaf blight diseases. The variety is suitable for sowing in both Kharif (June-July) and summer (January). It yields 15-20 q/ha under protective irrigation. The variety is recommended for cultivation in both zones 5 & 6.
- e) **Little millet: GPUL.6:**-This variety has compact panicle with archid shaped inflorescence. Grain is oval shaped with dark brown colour. It is medium duration and matures in 85-90 days. The variety is suitable for sowing in both Kharif (June-July) and summer (January). This variety is moderately resistant to leaf blight and brown spot diseases. It yields 15-20 q/ha under protective irrigation. It is recommended for cultivation in both zones 5 & 6.
- f) **Proso millet: GPUP.28:**- This variety has intermediate compact with globose-elliptic shaped inflorescence. Grain is oval shaped with golden yellow colour possesses higher test weight. This variety is moderately resistant to leaf blight and resistant to brown spot diseases. The proposed variety is medium duration and matures in 80-85 days. The variety is suitable for sowing in both Kharif (June-July) and summer (January). It yields 17-20 q/ha under protective irrigation. It is recommended for cultivation in both zones 5 & 6.
- g) **Grain Amaranth: KBGA-15:**-It is a high yielding variety that yields 16-18 q/ha under rainfed condition and 22-24 q/ha under protective irrigation. It matures in 90-95 days with good plant height (170-180 cm) and pink mixed green coloured attractive inflorescence. The variety is tolerant to leaf rust, phyllody, leaf spot diseases and insect pests. It is recommended for cultivation in both zones 5 & 6.
- h) **Sugarcane: CoVC 18061:** It is developed from the cross between Co86032 and Co86011 and recommended for commercial cultivation in zone 6 of Southern Karnataka. It is very sparse and late flowering variety and recommended for all the planting seasons of Sugarcane. It is ideal variety for January- February planting season. It is midlate maturing (12-13 months) with high cane yield (70-80 t/acre) and better quality. It has high tillering potential and suitable for wide row planting. It is a medium thick cane, colour of the cane is greenish yellow and leaf canopy is lush green and semi erect. It has self detaching habit and possesses good jaggery recovery and also exhibits good ratooning.
- i) **Fodder Oats: RO-11-1:**- Forage Oats is an important Rabi cereal crop and RO-11-1 is a new variety in forage oats developed at AICRP FCU Rahuricentre Maharashtra. It is

having superior green forage yield (12-16 t / ac) and high crude protein yield (3-3.5 q/ha) it is a tall variety (110-120 cm) with long (48.50 cm) and broad leaves (2.1-2.6 cm) with high leaf stem ratio (0.55) and hence improved quality and digestibility attributes. RO-11-1 is moderately tolerant to leaf blight, root rot and less susceptible to aphids. The compact seeds have lesser thousand grain weight (42.6 g) and the seed rate of 80 kg/ha is sufficient to obtain better yield.

j) **Jack fruit: Byrachandra:-**Early bearing (3.5 years from planting), Oblong shaped fruits with green rind and orange colour flakes, Flake to fruit ratio is good (0.55), with 650-700 g flake wt./kg fruit, each flake weighs 25 to 35 g, Rind is thin (< 1 cm) weighing 300-350g/kg fruit wt., TSS ranges from 30-33°Brix.,Seeds are small, some are rudimentary, the 20 seed weight is around 110-130g.. Fruits are borne on trunk and primary branches, big sized fruits (>10kg /fruit), medium size flakes, highly preferred for table purpose and processing into squash,twice bearing type with an average yield of 120 to 150 fruits /tree /year (60-75 fruits/season/tree after 10 years of planting),suitable for commercial and Kitchen gardens. Dual purpose variety- table and vegetable purpose and Fruit quality is excellent with less gum in ripen fruits.