



Millet Cultivars for Commercialization ICAR – Indian Institute of Millets Research, Hyderabad

SORGHUM

Kharif Grain Sorghum

1. Dual-purpose Sorghum Variety, CSV 27 (SPV 1870)

- **Year of Release** : 2012
- **Grain Yield** : 28-29 q/ha; **Fodder** : 190-200 q/ha
- **Maturity** : 117 days
- **Salient Features** : Dual purpose, non-senescence (green foliage up to maturity) and non-lodging; tolerant to grain mould.
- **Recommended Area** : All sorghum growing areas under rainfed conditions.



2. Grain Sorghum Variety, CSV 41



- **Year of Release** : 2019
- **Grain Yield** : 31.8 q/ha; **Fodder** : 160 q/ha
- **Maturity** : 106-110 days
- **Salient Features** : Suitable for rainfed conditions under both high/low fertility soils, protein content 9.72%, mod. tolerant to grain mould, shoot fly and stem borer.
- **Recommended Area** : Andhra Pradesh, Telangana, Tamil Nadu, Rajasthan and Gujarat.

3. Grain Sorghum Hybrid, CSH 30

- **Year of Release** : 2012
- **Grain Yield** : 43 q/ha; **Fodder** : 140 q/ha
- **Maturity** : 103 days
- **Salient Features** : Tan, tall, semi-compact panicle and white bold elliptical seed, resistant to lodging and non-shattering.
- **Recommended Area** : Maharashtra, Karnataka, MP, South Gujarat, North AP under rainfed cultivation.
- Developed at ICAR-IIMR, Hyderabad



4. Grain Sorghum Hybrid, CSH 41 (Jaicar Gold)



- **Year of Release** : 2018
- **Grain Yield** : 47 q/ha; **Fodder** : 124 q/ha
- **Maturity** : 105 days
- **Salient Features** : High yielding dwarf hybrid, resistant to pests and diseases.
- **Recommended Area** : All kharif areas of Madhya Pradesh, Rajasthan, Gujarat, Maharashtra, Karnataka, AP, Telangana and Tamil Nadu.
- Developed at ICAR-IIMR, Hyderabad



5. Grain Sorghum Hybrid, CSH 42

- **Year of Release** : 2021
- **Grain Yield** : 40-42 q/ha;
- **Maturity** : 100-105 days
- **Salient Features** : Early maturity, dark green broad leaves, mod. tolerant to grain mold disease; can be cultivated in paddy fallows and summer season.
- **Recommended Area** : Karnataka, Andhra Pradesh, Madhya Pradesh and Gujarat
- Developed at UAS, Dharward



Rabi Grain Sorghum

6. Grain Sorghum Variety (Rabi), CSV 29 R (SPV 2033)



- **Year of Release** : 2012
- **Grain Yield** : 25.5 q/ha; **Fodder** : 67.9 q/ha
- **Maturity** : 118 days
- **Salient Features** : Dual purpose, charcoal rot resistant and tolerant to shoot fly.
- **Recommended Area** : Maharashtra, Karnataka and Andhra Pradesh

7. Grain Sorghum Hybrid (Rabi), CSV 39 R

- **Year of Release** : 2019
- **Grain Yield** : 27 q/ha; **Fodder** : 69 q/ha
- **Maturity** : 110-115 days
- **Salient Features** : Tall, semi compact panicle, non lodging, moderately tolerant to pest & diseases. Good roti quality.
- **Recommended Area** : Deep soil areas of Maharashtra, Karnataka, Andhra Pradesh and Gujarat
- Developed at PDKV, Akola



Multi Cut Forage Sorghum

8. Multi-cut Fodder Sorghum Variety, CSV 33 MF



- **Year of Release** : 2017
- **Green fodder of 3 cuts** : 1039 q/ha; **Dry Fodder** : 280 q/ha
- **Maturity** : 104-145 days
- **Salient Features** : Rained and irrigated conditions, profuse tillering, thin stem narrow leaves, mod. resistance to pests.
- **Recommended Area** : All India (both Zone I & Zone II)
- Developed at TNAU, Coimbatore

9. Sorghum Multi-cut Fodder Hybrid, CSH 24 MF

- **Year of Release** : 2009
- **Green fodder Yield** : 914 q/ha; **Dry Fodder** : 232 q/ha
- **Maturity** : 105-110 days
- **Salient Features** : Tall, tan, light green foliage with green midrib, semi drooping, thick and juicy stem.
- **Recommended Area** : Uttarakhand, UP, Gujarat, Haryana, Punjab and Delhi
- Developed at GBPUAT, Pantnagar



10. Sorghum Multi-cut Fodder Hybrid, CSH 43 MF

- **Year of Release** : 2020
- **Grain Yield** : 965 q/ha; **Fodder** : 219 q/ha
- **Salient Features** : Green, long and very broad leaves, with yellow green midrib and juicy stalk
- **Recommended Area** : Haryana, Punjab, Rajasthan, Gujarat, Uttarakhand, Uttar Pradesh, Maharashtra, Tamil Nadu, Telangana and Karnataka.
- Developed at GBPUAT, Pantnagar



Single Cut Forage Sorghum

11. Single-cut Forage Sorghum Variety, CSV 32F (SPV 2128)



- **Year of Release** : 2015
- **Green fodder Yield** : 460-480 q/ha; **Dry Fodder** : 170-180 q/ha
- **Maturity** : 70 days
- **Salient Features** : Tall, semi compact panicle, tolerant to anthracnose.
- **Recommended Area** : Maharashtra, Tamil Nadu and Karnataka. Currently popular in several north Indian states.
- Developed at ICAR-IIMR, Hyderabad

12. Single-cut Forage Sorghum Variety, CSV 35F

- **Year of Release** : 2012
- **Fodder Yield** : 530 q/ha
- **Maturity** : 120-125 days
- **Salient Features** : single cut, medium flowering, good nutritional quality and good seed yielding ability, moderately resistant to major leaf disease and tolerant to shoot fly and stem borer.
- **Recommended Area** : Delhi, Gujarat, Rajasthan, Uttarakhand, Haryana, Uttar Pradesh, Punjab, Madhya Pradesh, Maharashtra, Karnataka and Tamil Nadu.



13. Single-cut Forage Sorghum Variety, CSV 38F (SPV 2316)



- **Year of Release** : 2019
- **Green Fodder Yield** : 450-470 q/ha; **Dry Fodder** : 140-150 q/ha
- **Salient Features** : High per day productivity, high seed yield, resistant to foliar diseases and tolerant to stem borer.
- **Recommended Area** : Maharashtra, Karnataka and Tamil Nadu
- Developed at ICAR-IIMR, Hyderabad

14. Single-cut Forage Sorghum Variety, CSV 46F

- **Year of Release** : 2021
- **Fodder Yield** : 596 q/ha
- **Salient Features** : Tolerant to foliar diseases- Leaf blight and zonate leaf spot; seed yield potential of 12.57 q/ha.
- **Recommended Area** : Gujarat, Rajasthan, Haryana, Punjab, Uttar Pradesh and Uttarakhand



15. Single-cut Forage Sorghum Variety, CSV 47 F (Jaicar Chari)

- **Year of Release** : 2021
- **Green Fodder Yield** : 430-450 q/ha; **Dry Fodder** : 120-130 q/ha
- **Maturity** : 75-76 days
- **Salient Features** : High green and dry fodder yields and tolerant to anthracnose and zonate leaf spot. Seed yield potential 11.9 q/ha.
- **Recommended Area** : Maharashtra, Tamil Nadu and Karnataka.



16. Sorghum Single-cut Fodder Hybrid, CSH 40 F



- **Year of Release** : 2018
- **Green Fodder Yield** : 560 q/ha; **Dry Fodder** : 155 q/ha
- **Maturity** : 110-120 days
- **Recommended Area** : Delhi, Rajasthan, Gujarat, Haryana, Uttarakhand, Uttar Pradesh, Punjab, Madhya Pradesh, Maharashtra, Tamil Nadu and Karnataka.
- Developed at GBPUAT, Pantnagar

Specialty Sorghum

17. Sweet Sorghum Hybrid CSH 22SS

- **Year of Release** : 2005
- **Fresh Stalk Yield** : 45 q/ha; **Grain Yield** : 17.5 q/ha
- **Maturity** : 115-125 days
- **Salient Features** : non-shattering, responsive to fertilizers, photo-sensitive, moderately tolerant to shoot fly and stem borer.
- **Recommended Area** : Maharashtra, Karnataka, Tamil Nadu, Andhra Pradesh, Madhya Pradesh, Uttar Pradesh, Rajasthan and Gujarat.



18. Sweet Sorghum Variety CSV 24SS



- **Year of Release** : 2008
- **Fresh Stalk Yield** : 39.1 q/ha; **Grain Yield** : 12.5 q/ha ; **Juice Yield** : 14,833 L/ha
- **Maturity** : 119 days
- **Salient Features** : Tolerant to shattering, responses to fertilizer, suitable for growing in kharif or with irrigation, tolerant to shootfly and stemborer.
- **Recommended Area** : All sorghum growing areas of India.

19. Sweet Sorghum Variety, CSV 49 SS (Jaicar Raseela)

- **Year of Release** : 2021
- **Fresh Stalk Yield** : 43- 48 t/ha; **Juice Yield** : 16000-180000 L/ha; **Brix(%)** : 16-17
- **Maturity** : 121-123 days
- **Salient Features** : High fresh stalk yield, juice yield, brix contents; tolerant to downy mildew, rust, blight and leaf spot.
- **Recommended Area** : Maharashtra, Telangana, Andhra Pradesh, Karnataka, Tamil Nadu, Gujarat, Madhya Pradesh, Uttar Pradesh and Punjab.



20. Sweet Sorghum Variety, CSV 52 SS (SPV 2697)

- **Year of Release** : 2023
- **Fresh Stalk Yield** : 47-50 t/ha; **Juice Yield** : 15000-16000 L/ha; **Brix(%)** : 16-17
- **Maturity** : 120-122 days
- **Salient Features** : High fresh stalk yield, juice yield, brix contents and tolerance to grain mould and leaf blight.
- **Recommended Area** : Maharashtra, Telangana, Tamil Nadu and Punjab.



21. High Biomass Sorghum Variety, CSV 48 (Jaicar Urja)



- **Year of Release** : 2021
- **Total fresh biomass yield** : 55-60 t/ha; **Dry** : 17-20 t/ha
- **Ethanol Yield** : 370 L/ha
- **Maturity** : 135-140 days
- **Salient Features** : High biomass yields, higher ethanol yields and resistant to leaf disease and shoot pests.
- **Recommended Area** : Maharashtra, Telangana, Gujarat, Madhya Pradesh, Punjab and Uttarakhand.
- **Developed at** ICAR-IIMR, Hyderabad

22. Brown midrib Variety, CSV 43 BMR (JAICAR Nutrigraze)

- **Year of Release** : 2020
- **Grain Yield** : 21-23 q/ha; **Dry Fodder Yield** : 155-160 q/ha
- **Maturity** : 110-112 days for stover; 70-75 days for green fodder
- **Salient Features** : Low lignin, high digestibility Dual-purpose variety.
- **Recommended Area** : Telangana, AP, Karnataka, Maharashtra, Tamil Nadu, Gujarat, MP, Rajasthan, UP, Uttarakhand, Haryana & Jharkhand.



PEARL MILLET

23. Central Pearl Millet Hybrid, MPMH 35 (Maru Sampada)



- **Year of Release** : 2022
- **Grain Yield** : 21.9 q/ha; **Stover Yield** : 51.9 q/ha
- **Maturity** : 75 days
- **Salient Features** : Early, high tillering, compact panicle, medium sized obovate grains of grey color, resistance to downy mildew, blast smut, rust and ergot. Grain with high Iron and Zinc content.
- **Recommended Area** : Rajasthan, Gujarat and Haryana.
- **Developed at** AICRP Pearl millet, Jodhpur

FINGER MILLET

24. Finger Millet Variety, CFMV 1 (FMV 1116) (Indravathi)

- **Year of Release** : 2020
- **Grain Yield** : 30-32 q/ha
- **Maturity** : 110-115 days
- **Salient Features** : Medium maturity, tolerant to leaf blast, neck blast and finger blast, mod. resistant to banded blight, tolerant to insect pests.
- **Recommended Area** : AP, Tamil Nadu, Karnataka, Puducherry and Odisha.
- **Developed at** ARS (ANGRAU), Vizianagaram



25. Finger Millet Variety, CFMV 2 (FMV 1118)

- **Year of Release** : 2020
- **Grain Yield** : 29-31 q/ha
- **Maturity** : 119-121 days
- **Salient Features** : Suitable for rainfed areas in kharif, and irrigated areas in Rabi. Medium maturity, tolerant to leaf blast, neck blast.
- **Recommended Area** : AP, Chhattisgarh, Gujarat, Maharashtra and Odisha.
- Developed at HMRS (NAU), Waghai



26. Finger Millet Variety, CFMV 3 (FMV 1137/WN 591)



- **Year of Release** : 2021
- **Grain Yield** : 32-33 q/ha;
- **Maturity** : 120-125 days
- **Salient Features** : Moderately resistant to leaf, finger and neck blast, foot rot and banded blight.
- **Recommended Area** : AP, Tamil Nadu, Telangana, Maharashtra and Gujarat.
- Developed at HMRS (NAU), Waghai

PROSO MILLET

27. Proso Millet Variety, TNAU 202

- **Year of Release** : 2017
- **Grain Yield** : 18-20 q/ha
- **Salient Features** : Profuse tillering and bold grains
- **Recommended Area** : Andhra Pradesh, Madhya Pradesh, Chhattisgarh, Karnataka, Gujarat, Tamil Nadu and Bihar
- Developed at TNAU, Coimbatore



BARNYARD MILLET

28. Barnyard Millet Variety, VL 207



- **Year of Release** : 2008
- **Grain Yield** : 20-22 q/ha; **Fodder** : 30-35 q/ha
- **Maturity** : 85-100 days
- **Salient Features** : Erect plant with narrow leaves, compact and pyramidal inflorescence, purple glume pigmentation at maturation.
- **Recommended Area** : all areas except Gujarat and Tamil Nadu
- Developed at ICAR-VPKAS, Almora

29. Barnyard Millet Variety, DHBM 93-2

- **Year of Release** : 2016
- **Grain Yield** : 22-24 q/ha; **Fodder** : 55-65 q/ha
- **Maturity** : 95-100 days
- **Salient Features** : sturdy plant with lodging resistance, pale green leaf, compact earhea; resistant to head and grain smut.
- **Recommended Area** : All states except Uttarakhand and Himachal Pradesh
- Developed at UAS Dharwad



30. Barnyard Millet Variety, DHBM 23-3

- **Year of Release** : 2019
- **Grain Yield** : 32 q/ha; **Fodder** : 60-70 q/ha
- **Maturity** : 88-100 days
- **Salient Features** : Thin and more tillering plant, semi compact ear head, glume pigmented at maturation, resistant to head and grain smut.
- **Recommended Area** : AP, Karnataka, Madhya Pradesh and Tamil Nadu.
- Developed at UAS, Dharwad



FOXTAIL MILLET

31. Foxtail Millet Variety, SiA 3156



- **Year of Release** : 2012
- **Grain Yield** : 20-25 q/ha;
- **Maturity** : 85-90 days
- **Salient Features** : Highly responsive to Nitrogenous fertilizer.
- **Recommended Area** : Andhra Pradesh, Bihar, Gujarat, Karnataka, Madhya Pradesh, Tamil Nadu and Uttarakhand.
- Developed at RARS (ANGRAU), Nandyal

32. Foxtail Millet Variety, SiA 3088 (Suryanandi)

- **Year of Release** : 2018
- **Grain Yield** : 20-25 q/ha
- **Salient Features** : Early duration, Non-lodging, suitable for double cropping
- **Recommended Area** : Andhra Pradesh
- Developed at RARS (ANGRAU), Nandyal



KODO MILLET

33. Kodo Millet Variety, TNAU 86



- **Year of Release** : 2012
- **Grain Yield** : 27-30 q/ha; **Dry Fodder** : 50-60 q/ha
- **Maturity** : 95-110 days
- **Salient Features** : Early duration, non-lodging high yielding and milling, Resistant to head smut, sheath blight, brown spot and tolerant to drought.
- **Recommended Area** : Andhra Pradesh, Chhattisgarh, Gujarat, Karnataka, Madhya Pradesh, Tamil Nadu and Uttar Pradesh.

34. Kodo Millet Variety, CKMV 1 (KMV 545)

- **Year of Release** : 2020
- **Grain Yield** : 28.1 q/ha; **Fodder** : 70 q/ha
- **Maturity** : 106-110 days
- **Salient Features** : Suitable for rainfed areas in kharif, and irrigated areas in rabi. Protein and Iron rich grains, tolerant to pests and diseases.
- **Recommended Area** : Andhra Pradesh, Chhattisgarh, Gujarat, Jharkhand, Karnataka, Madhya Pradesh, Tamil Nadu and Telangana.
- Developed at CEM (TNAU), Athiyandal



35. Kodo Millet Variety, CKMV 2 (KMV 551 (GAK 3))

- **Year of Release** : 2021
- **Grain Yield** : 28.8 q/ha
- **Maturity** : 105-110 days
- **Salient Features** : Tolerant to leaf blast, neck blast and finger blast, moderately resistant to leaf blight.
- **Recommended Area** : Andhra Pradesh, Chhattisgarh, Gujarat, Madhya Pradesh and Tamil Nadu.
- Developed at HMRS (AAU), Dahod



LITTLE MILLET

36. CLMV.1 (Jaicar Sama 1) - LMV 518



- **Year of Release** : 2020
- **Grain Yield** : 14-16 q/ha;
- **Maturity** : 85-90 days
- **Salient Features** : Medium bold seeded, tillering variety with non-lodging habit, resistant to shoot fly. High iron (40-50 ppm) and protein (13-14%) in grains.
- **Recommended Area** : Maharashtra, Andhra Pradesh, Telangana, Tamil Nadu and Puducherry.
- Developed at ICAR-IIMR, Hyderabad

Terms and Conditions for Licensing

Licensing will be done through signing an MoA.
Duration of license: 3 years period.

License fee:

- Hybrids @ Rupees Five Lakhs (Rs. 5,00,000/-) plus 18% GST.
Annual royalty @ Rupees Two (Rs. 2.00/-) per kilogram of seed sold.
- Variety @ Rupees Three Lakhs (Rs. 3,00,000/-) plus 18% GST.
Annual royalty @ Rupees One (Rs. 1.00/-) per 2 kilograms of seed sold.

For More Information

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