

Harvest More, Feed Better, Farm Smarter

"Dual-purpose Varieties for Crop and Livestock Integration" involves developing millet and sorghum varieties for both human food and animal fodder in African drylands, addressing challenges like overgrazing and soil degradation worsened by increasing livestock populations.



## Technology from Santy, V This technology is **TAAT1 validated**. **7**.8 **d** 7 Gender assessment 4 Climate impact Problem Solution • Growing livestock population exacerbating the • Reduced lignin and tannin content for enha demand for animal feed resources.

- Traditional millet and sorghum varieties unable to meet the dual requirements of human food and high-quality animal feed.
- Common millet and sorghum lines have higher lignin content, making them less digestible.

204 USD

Per hectare for seed,

fertilizer, and labor

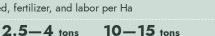
- digestibility and palatability
- · Greater fodder availability, especially durin dry season
- Increased manure availability for soil fertilit management
- Sweet stover with high sugar concentration (around 15%)
- Suitable for syrup or bioethanol production

ROI: **\$\$**\$

## (Cost: \$\$\$) 204 USD Production cost for seed, fertilizer, and labor per Ha

Sorghum grain yield

per Ha



Sorghum stover yield

per Ha

increase in yield 15 %

31 %

		-
Sugar co	ncentration	No formal



INTERNATIONAL CROPS RESEARCH INSTITUTE FOR THE SEMI-ARID TROPICS

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	ProPAS	
	Commodities	
	Sorghum/Millet	
nced g the y	Sustainable Development Goals	
	Categories	
	Production, Improved varieties, Quality improvement	
	<ul> <li>Best used with</li> <li>Proactive Management of Striga Infestation &gt;</li> <li>Precision Fertilizer Micro- Dosing for Millet and Sorghum Yield</li> </ul>	
e rights		
	Enhancement > • <u>Motorized Crop Residue</u> <u>Processing for Animal Feed</u> <u>&gt;</u>	
	Tested/adopted in	
	Tested & adopted     Adopted	

Where it can be used



Dual-purpose Millet Varieties for Crop and Livestock Integration https://e-catalogs.taat-africa.org/org/technologies/dual-purpose-millet-varieties-for-crop-andlivestock-integration

Last updated on 20 September 2024, printed on 10 December 2024

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Tested Testing ongoing