

FEED THE FUTURE

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FLASH INFO

Dundël Suuf

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MICRODOSING AND UREA DEEP PLACEMENT: MECHANIZATION ON THE MOVE!

Since 2019, the Feed the Future Senegal Dundël Suuf Project has been promoting microdosing (MD) and urea deep placement (UDP) technologies at the national level by raising producer awareness, conducting training, and providing demonstrations of these technologies. However, most producers find it difficult to apply MD and UDP. Based on this observation, the project worked on mechanizing these technologies by signing an agreement with research for the development of MD and UDP applicator prototypes and importing MD applicator prototypes from Mali.

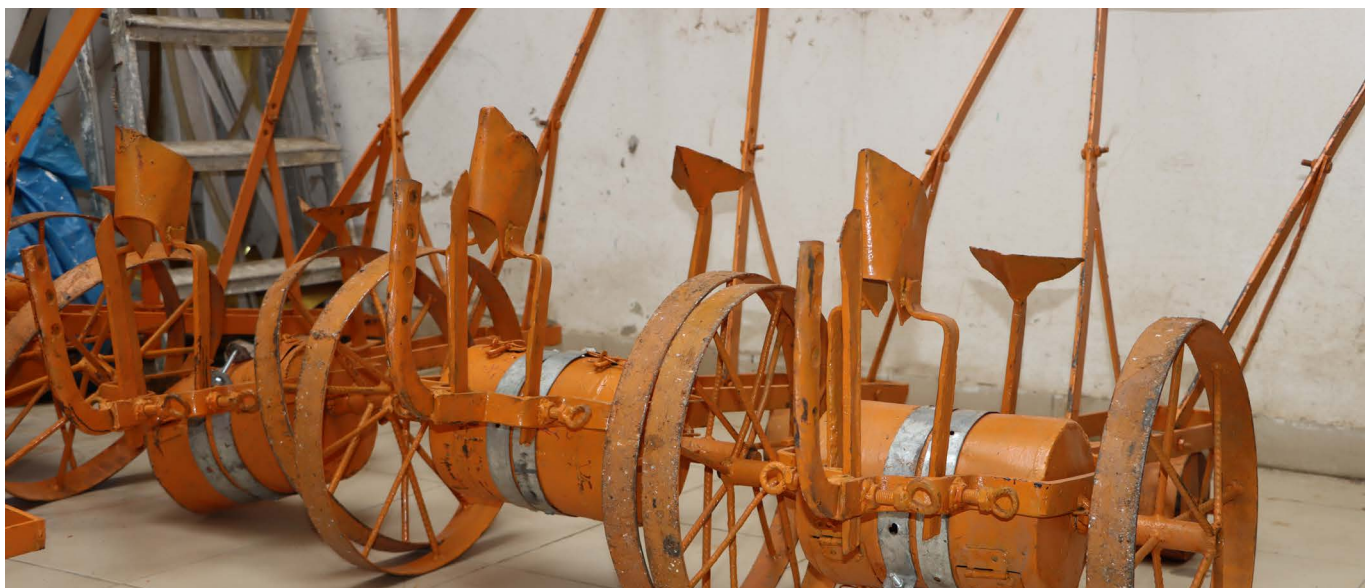


Prototypes of a UDP applicator (left) and MD applicator (right) produced by research



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MD applicator prototypes imported from Mali

To evaluate the functionality of the applicators, the Dundël Suuf project initiated field tests of these three (3) types of applicators on rice, okra and millet.

- **Testing of prototype applicators produced by research in Senegal**

The tests were carried out with the participation of 17 producers in the village of Taredji, Podor Department, Saint-Louis Region.

At the end of the tests, the following recommendation were made:

- Revise the frequency of granule output to respect the spacing as defined in the protocol (40cm between two outputs).



Producer testing the applicator

- **Tests of the prototype applicators imported from Mali on millet and okra**

The tests of the applicators imported from Mali took place in the village of Ndiar, Thiès Department, Thiès Region. From these tests, the following key recommendations were made:

- Modify the frequency of fertilizer output to be in accordance with spacing recommended for millet and the distance between pockets and fertilizer application
- Provide a gauge which allows to appreciate the level of fertilizer in the drum during application to prevent the machine from continuing to run when all the product has been used.

When the design is finalized, these UDP and MD applicators will reduce the drudgery experienced by producers in Senegal and allow efficient use of fertilizer in crop production.



Test of MD applicators imported from Mali



Photo 7 : View of the two compartments of the applicator

Note that this machine is dual purpose as it is designed for seeding and application of microdosing as shown in the photo above.

SUBSIDIZED AND UNSUBSIDIZED FERTILIZER PRICES IN SENEGAL

Fertilizer	Type	Unit	Average Price (F CFA)
DAP	Unsubsidized	50kg	33,333
	Subsidized	50kg	12,500
NPK 10 10 20	Unsubsidized	50kg	23,000
	Subsidized	50kg	12,500
NPK 15 10 10	Unsubsidized	50kg	25,000
	Subsidized	50kg	12,500
NPK 15 15 15	Unsubsidized	50kg	27,500
	Subsidized	50kg	12,500
NPK 6 20 10	Unsubsidized	50kg	21,750
	Subsidized	50kg	12,500
Urea	Unsubsidized	50kg	32,667
	Subsidized	50kg	16,875

Comment :

- Compared to the previous month, fertilizer prices increased from 2.6% for NPK 10 10 20 to 8% for NPK 15 15 15, except for the price of NPK 6 20 10, which remained stable. (Source: Dundël Suuf 2023)

Subsidized fertilizer prices for the 2023/2024 campaign

Formulas	Supplier price (FCFA / T or L or 100g)	Subvention (FCFA / T or L or 100g)	Subvention rate (%)	Selling price (FCFA/ Bag or L or 100g)
6 20 10	345,000	185,000	53.62	8,000
15 15 15	425,000	205,000	48.24	11,000
15 10 10	355,000	155,000	43.66	10,000
9 23 30	515,000	255,000	49.51	13,000
10 10 20	415,000	185,000	44.58	11,500
Urea	400,000	150,000	37.50	12,500
Phosphate	120,000	70,000	58.33	2,500
Solid organic fertilizer	210,000	170,000	80.95	2,000
Foliar fertilizer	20,000	18,000	90.00	2,000
Solid organic amendment	160,000	130,000	81.25	1,500
Solid biostimulant	7,000	6,500	92.86	500

(Source: MAERSA Circular No. 01056 of May 19, 2023)