

Success Story of Odisha Millets Mission NUAPADA



This factsheet presents the district-level findings and other information derived from the study "Area, Yield, Production and Value of Produce under the Special Programme for Promotion of Millets in Tribal Areas of Odisha (Odisha Millets Mission), 2017-18, Phase-1" and baseline (2016-17) reports prepared by Professor Srijit Mishra and team at NCDS.

OMM STORY

Odisha Millets Mission (OMM) was implemented in Kharif 2017 for promotion of millets in farms and on plates because:

- millets have high nutritional values (including micronutrients that strengthen immunity), and
- millets have greater resilience to biotic (pests and weeds) and abiotic (heat and moisture) stress.

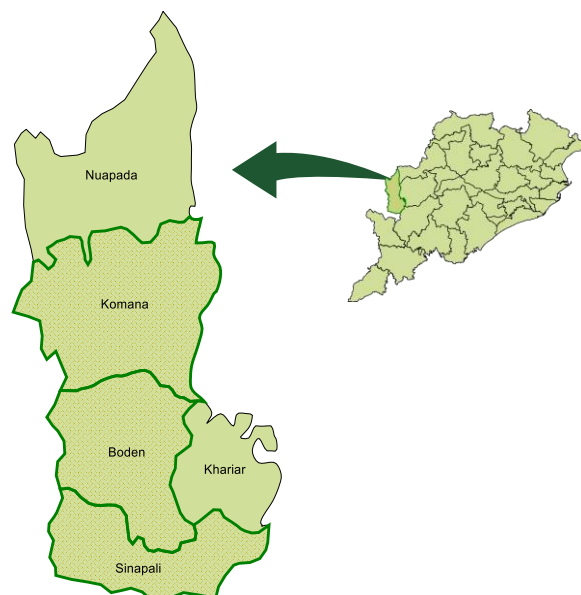
METHOD OF ESTIMATION

Block-season-crop-method-specified minimum yield from crop cutting experiments (CCEs) has been superimposed on the total cultivated area in that specification under OMM to arrive at estimates of production. And, block-crop-specific price from baseline helped obtain value of produce.

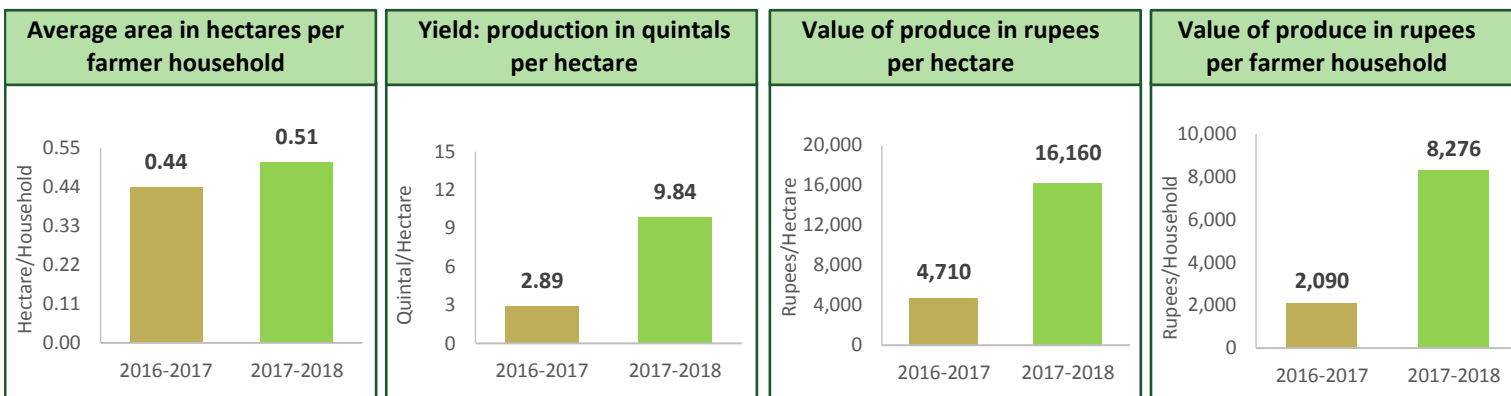
For robustness check, two alternative specifications were used. One is minimum yield from three CCEs (obtained, if required, by removing the specified controls), and the other is the average of CCEs with all specified controls. The estimation of minimum yield from specified controls seems reasonable, as it lies between the two alternatives.

AREA OF INTERVENTION

Blocks in Nuapada district under OMM intervention



OUTCOMES: CHANGES AFTER ONE YEAR OF OMM INTERVENTION



The following changes were seen in Nuapada district after one year of intervention under OMM:

- Average area cultivated per farmer household increased by 1.15 times from 0.44 hectare to 0.51 hectare.
- Yield increased by 3.41 times from 2.89 quintal/hectare to 9.84 quintal/hectare.
- Value of produce per hectare increased by 3.43 times from ₹4,710 to ₹16,160.
- Value of produce per farmer household increased by 3.96 times from ₹2,090 to ₹8,276.

OUTCOME ACROSS BLOCKS

Area Name	Average area in hectares per farmer household		Yield: production in quintals per hectare		Value of produce in rupees per hectare		Value of produce in rupees per farmer household	
	2016-2017	2017-2018	2016-2017	2017-2018	2016-2017	2017-2018	2016-2017	2017-2018
Boden	0.49	0.62	2.91	8.75	4806	14482	2372	8933
Komana	0.55	0.58	2.34	15.71	3741	25543	2073	14776
Sinapali	0.28	0.28	3.72	8.25	6039	13364	1709	3746
Nuapada	0.44	0.51	2.89	9.84	4710	16160	2090	8276
Odisha	0.42	0.60	5.79	12.72	9447	20710	3957	12486



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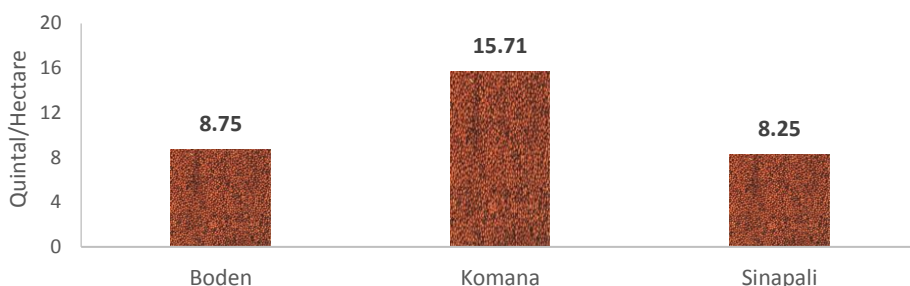
BLOCK-WISE OUTCOME

Millet cultivated: Mandia

In Nuapada, in year one of intervention under OMM, mandia was cultivated in 313.41 hectares producing 3083.51 quintals at a yield of 9.84 quintals per hectare.

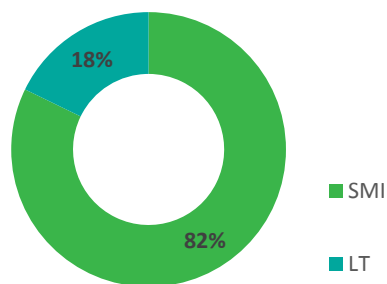
Across blocks, Komana had the highest yield of 15.71 quintals per hectare while Boden and Sinapalli blocks had yields that were lower than that for the district.

Yield of mandia in the intervention blocks of Nuapada

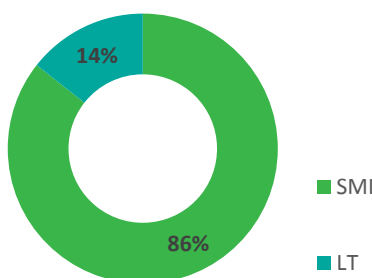


METHOD-WISE OUTCOME

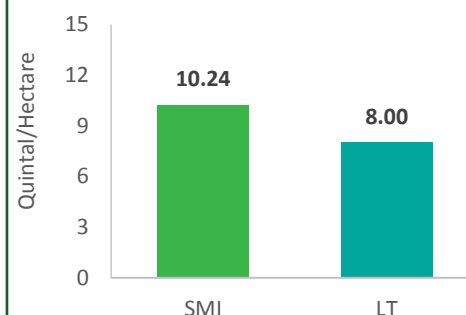
Method-wise share of area



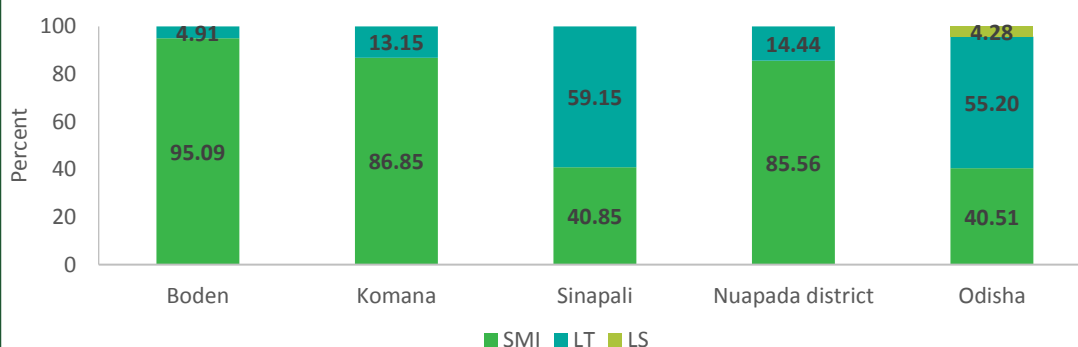
Method-wise share of produce



Method-wise yield



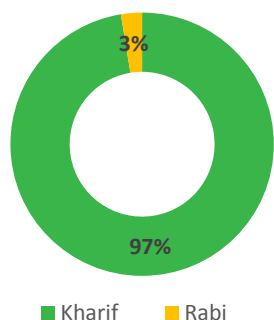
Method wise share of produce across blocks, district and state



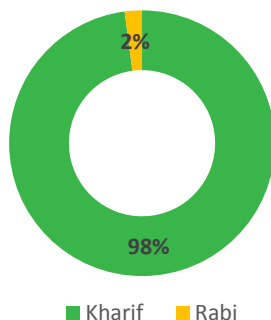
In Nuapada, across methods, 82% of area and 86% of produce were from System of Millet Intensification (SMI), which also had a higher yield in comparison to Line Transplantation (LT). Line Sowing (LS) has not been adopted in this district in year one under OMM.

SEASON-WISE OUTCOME

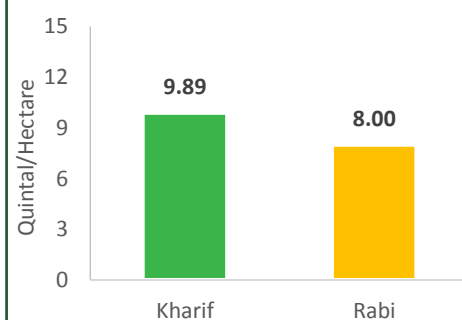
Season-wise share of area



Season-wise share of produce



Season-wise yield



In Nuapada, across seasons, share of area was 97% and share of produce was 98% in Kharif. Yield in Kharif at 9.89 quintals per hectare was 1.24 times more than that in Rabi.

