



1. Aerobic Rice Technology

Type: (validated Process Method)

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Patent : NA

Name of Inventor

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Description of Technology

The solution to the impending problem of water scarcity is to use water saving technologies such as aerobic rice.

Dry seed should be sown @ 60 kg/ha at a spacing 20 cm between the lines in dry soil. This should be immediately followed by irrigation.

Pendimethalin @ 1kg per ha applied 3DAS should be followed by application of 2-4D @ 500g/ha 25 DAS as weed management practice.

A total of 12-15 (depending on rainfall) irrigations each of 5 cm should be applied at an interval of 7-10 days.

Among the varieties SKAU-502 and SR-4 outperformed all other varieties evaluated in terms of the yield attributes and the final grain and straw yield at 120 kg N/ha.

Water saving of more than 50 % was recorded in aerobic over conventional flooding.



Impact

More than 10,000 ha of rice land is vulnerable to water scarcity during peak period of water requirement. Aerobic rice has 20% lesser labour requirement and 50% higher water productivity as compared to flood irrigated rice.

Commercial Applicability

Can be exploited in water deficit areas (10,000 ha) with higher water productivity (50%) and lesser labour requirement (20%)