

## 1. SITE SELECTION

- Sunny and good aeration
- Convenient for drainage
- Fertile low lying flat land is best
- Poor red soil gives low yield.

## 2. IMPROVED VARIETIES

Star, Maleka, Totoka, Uttam & Boldgrain are the recommended varieties  
For moderate rainfall areas – Star, Maleka, and Totoka which matures in 90-100 days and high rainfall areas – Boldgrain, Uttam, and Nuinui which matures in 110 -130 days.

### *Improve varieties are better because it is:-*

- Short statured- Do not lodge (fall over)
- Early maturing (90-120 days)
- Deep rooted and drought tolerance
- Respond to fertilizers (high yield)
- Long slender grains
- Good grain quality (better prices)
- Hard fluffy rice on cooking
- High yielding

## 3. FOR HIGH YIELD

- Use improved varieties
- Use good clean seeds
- Prepare field well
- Follow good cultivation practices
- Control pest and disease
- Control weeds.

## 4. GOOD & CLEAN SEED

Use seeds that are:-

- Pure
- Uniform-large seeds
- Good germination
- Free from weed seeds
- Free from seed-borne diseases and pests
- Low moisture content

## 5. LAND PREPARATION

- 2-3 ploughing with mould board plough or tractor driven disc harrow- 2 disc harrowing at

2-3 weeks interval in dry weather

- 3-4 ploughing with animal drawn plough followed by tine harrow
- Cultivate the soil to a fine tilt- by rotovating
- Level the field if flat land

## 6. SOWING

Row seeding, preferably dibbling (20 x 15 cm) behind plough or seed-drill at a depth of 4-6 cm. Seed rate of 80 – 100kg/ha is adequate when crop is sown behind the plough or with the use of seed-drill. If broadcasting, this should be evenly broadcasted followed by laddering.

## 7. FERTILIZERS

- 51kg of super phosphate at planting
- 25kg of Muriate of potash at planting
- 25kg Urea at 21 days after germination
- 25kg of Urea at 45 days after germination for Star, Maleka, Totoka and 60 days for Boldgrain, Uttam, and Nuinui

## 8. WEED CONTROL

Control weeds with:-

- Proper land preparation
- Hand weeding
- Use of Weedicides

## CHEMICAL CONTROL



1. Broad leaves weeds and sedges - Apply MCPA 2.82 litres/ha or 56 – 85ml per 13.5 litres water using knapsack. Spray 6 weeks after germination and before booting stage for drilled or broadcasted rice.

2. Grass weeds- SATURN-50% a.i 8.42 liters/ha at 15 days after seeding (2 leaf stage of rice). PROPAL at a rate of 340 mls per 15 litres of water when using knapsack, 30 knapsack per hectare or 10-11.5 litres per hectare. Spray when grasses are 4-5 leaf stage within 21 days after germination.

3. All weeds- Basagran, spray 7.01-8.42 litres/ha at 2-3 leaf stage (2-3 weeks after germination).

## 9. PEST CONTROL

A. Plant Hoppers  
Most destructive – sucks plant juice, causes wilting, and death.  
Spray basal portions of plants with – ORTHENE 75% a.i. - 1kg a.i. /ha or 20gm formulation/14 litres of water when spraying with knapsack sprayer or 75g/Mistblower.

B. Rice Armyworm  
Cuts leaves and panicles, spray DIPTEREX 80% W.P. 1.12kg a.i/ha or 28ml/14 litres of water when using a knapsack sprayer, and use 8ml in a Mist blower.

C. Rice Leaf Roller  
Attacks leaves, spray leaves with SEVIN 80% a.i 1kg a.i/ha or 17gms formulation/14 litres of water when using a knapsack sprayer and 50gms formulation/10 litres of water when using a mist blower. CARBACIDE 85 (800g/kg Carbaryl WP) at 27 gms per 14 litres of water when using knapsack sprayer and 18 gms/10 litres water when using mist blower. Spray every 2-3 week intervals.



## 10. DISEASE CONTROL

- There are no serious diseases in Rice.
- Blast, Brown spot, Sheath Blight sometime occurs, Treat seeds with MANEB at 113g or DIFOLATAN at 85g per 3kg seed.

## 11. HARVESTING

- Harvest when it is about 80% mature
- Thresh immediately after harvest to maintain grain quality
- Dry immediately after threshing to 14% moisture levels.

## 12. STORAGE

- Fill in clean bags
- Keep in well aerated cool and dry place
- Stack bags on planks away from walls
- Chemicals can be used to control grain moth and rice weevil. Drying may also help often.

## 13. GROSS MARGIN

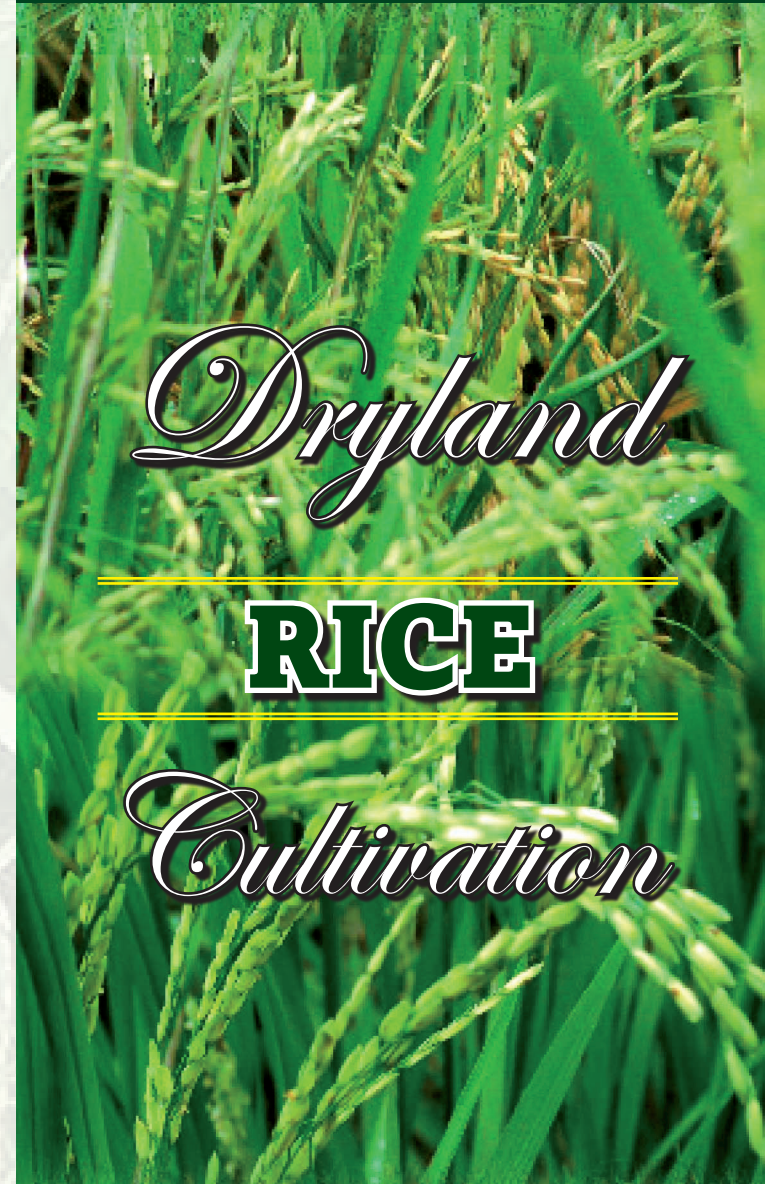
\$900 - \$1040 per hectare



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Ministry of Agriculture



# Dryland

# RICE

# Cultivation

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