

Agro Advisory Service for Rice
ICAR - National Rice Research Institute, Cuttack 753 006

Strategies for First Fortnight of August 2016

Direct Seeded Rice

- In rainfed shallow lowland areas where direct seeding has been done and early post emergence herbicides have not been applied, beushening may be done in a broadcasted crop and 2, 4-D Sodium salt 80 WP @ 0.5 kg/acre may be applied for controlling non grassy and broad leaf weeds in line sown crops. One third of nitrogen (14 kg urea/ acre) may be applied as 1st top dressing. Apply 8 kg each P₂O₅ and K₂O/ acre if P and K were not applied as basal.
- In rainfed uplands, farmers are advised to spray Bispyribac Sodium 10 SC @ 120 ml/ acre 8-10 days after sowing (at 2-3 leaf stage of weeds) to suppress the early emergent grassy weeds and sedges. Spray in 140 liters of water. Otherwise second and final manual weeding may be done and apply one third of nitrogen (12 kg urea/ acre) as 2nd top dressing.

Transplanted Rice

- In case of Thrips infestation in rice nursery, spraying of with 3 ml Thiomethoxam 25 WG/10 litre of water may be done for controlling the pest.
- Transplanting should be completed during this fortnight. One third of the Nitrogen (14kg Urea/ acre) and full dose of P and K (44 kg DAP and 34 kg MOP/acre) should be applied as basal. Care should be taken while applying the fertilizer, having a thin film of water on the field.
- After uprooting of 25 - 30 days old seedling, root dipping should be done with chloropyriphos 20 EC solution (1 ml per liter of water) as a prophylactic measure for insect pest attack.
- Transplanting should be done @ 2 - 3 seedlings per hill at a spacing of 20 X 15 cm and a thin layer of water (1 - 2 cm) should be maintained in the main field up to 10 days after transplanting. In case of older seedlings, 4 – 5 seedlings/hill may be planted.
- In rainfed transplanted rice, apply Bensulfuron methyl + Pretilachlor(Ready-mix) granule (Londax Power /Erase Strong @ 4 kg/ acre) at 8-10 days after planting (at 2-3 leaf stage of weeds) to suppress the early emergent broad spectrum of weeds either in saturated soil or with 2-3 cm standing water after mixing with sand @ 12 kg/ acre.
- In irrigated or favourable transplanted field with no standing water during early crop growth stage and mixed population of weeds are emerged, spray Azimsulfuron 50 DF @ 28 g/ acre at 15 days after sowing (at 3-4 leaf stage of weeds). Spray it by mixing with 140 liters of water. Add surfactant (250 ml/ acre) available with chemical for increasing the efficacy of the herbicide.
- Wherever already transplanted, 4 pheromone traps/ acre may be placed in the field for monitoring of the stem borer and whenever the number of male moths/trap reaches 4 or 5, Rynaxypar 0.4G @ 4 kg/ acre may be applied mixing with sand at 1:1 ratio.

Agro Advisory Service for Rice [For Assam]

Strategies for the 1st fortnight of August 2016

A. Direct-seeded/Transplanted *ahu* rice:

1. During rainless days harvest the normal planted *ahu* crop when 80% of the grains in the panicle are mature.
2. Sundry the harvested grains to bring the moisture level at 12 to 14 %.

B. *Sali*/Winter rice – Nursery:

1. Spray *sali* paddy nursery with chlorpyrifos 20 EC @ 2 ml/l or apply carbofuran 3G @ 3 g/sq m in nursery beds.
2. In flood affected areas, nurseries of early/mid-early duration varieties, *viz.*, Dichang, Luit & Abhishek, Naveen, Sahbhagi dhan should be raised in uplands for transplanting after recession of flood water. Seed rate for nursery sowing for transplanting in one ha of field is 35 to 40 kg.

N.B.: Nursery raising of mid-early duration varieties, *viz.*, Abhishek and Naveen should be completed by August 10, whereas nursery raising of early duration varieties, *viz.*, Luit and Dichang should be completed by August 15 so that transplanting can be completed by the first week of September.

C. *Sali*/Winter rice – Main field:

1. Clip-off seedling leaf tips before transplanting in order to reduce insect-pest infestation in the main field.
2. Incorporate FYM @ 10 t/ha in soil during field preparation.
3. Apply 9 kg urea, 17 kg SSP and 9 kg MOP per bigha at the time of final puddling.
4. Transplant 20-25 days old seedlings of long/medium long duration *sali* rice varieties, *viz.*, Bahadur, Mahsuri, Ranjit, Swarna, Swarna *sub1* & Chandrama, CR Dhan 601 with a spacing of 20 cm between rows and 15 cm within rows.
5. Undertake gap filling with aged rice seedlings in order to have plant population @ 33 hills per sq. m.
6. Spray herbicide Pyrazosulfuron ethyl 10 WP @ 200 g per ha in 500 litres of water at 5-7 days after transplanting.
7. Spray the herbicide 'Bispyrivac Sodium 10%' (Nomineegold) @ 40 gram per bigha by dissolving in 70 litres of water at 20 DAT.
8. Top dress urea @ 4.5 kg per bigha at 30 days after transplanting.