

CALENDAR FOR SUMMER - AUTUMN RICE PRODUCTION FOR NORTHERN CENTRAL PROVINCES

- Early summer - autumn season: Sowing from June 5 - 15; planting at the end of June.
- Middle summer - autumn season: Sowing from June 15 - 25; planting before July 20
- Late summer - autumn season: Sowing from June 25 - July 5; planting before July 30

May and June: Preparation for varieties, fertilizers, sowing, transplanting

- **Preparation for varieties:** Using inbred rice varieties: KD18, BC15, TBR225, Thuan Viet 1, Bac Thinh, BT7, HT1, Thien Uu 8, Huong Bien 3, etc. Glutinous varieties: Iri352, N97, N98, local glutinous rice varieties ...; Hybrid rice varieties: HYT 124, HYT 108, HYT 100, TH3-3, TH3-4, HQ19 Thoi Xuyon 111, B-TE1, Thanh uu 3, ZZD001, Viet Lai 20...
- **Seed soaking:** Soaking 18 - 20 hours for hybrid and 24 - 36 hours for inbred rice varieties.
- **Incubation:** Saturated seeds are cleaned by water and unfilled seeds are removed. The seeds then are incubated in cotton bag at 30 - 32°C for 36 - 48 hours.
- **Sowing:** On nursery mat: for inbred varieties using 40 - 50 kg/ha; hybrid varieties 25 - 30 kg/ha. Seeding directly: for inbred varieties using 60 - 70 kg/ha, hybrid varieties 30 - 35 kg/ha.
- **Soil preparation:** It is required to plough deeply and harrow for making the rice plants rooting and developing well. Removing weeds and levelling soil surface before transplanting.
- **Fertilizers:** Doses for 1 ha



Soil preparation

Fertilizer types	Inbred varieties	Hybrid varieties
Animal manure	6 - 8 tons (0.6 - 0.8 ton of microbial organic fertilizer)	10 tons (1 ton of microbial organic fertilizer)
Phosphorus (16% P ₂ O ₅)	400 - 420 kg	500 - 600 kg
Urea (46% N)	200 - 220 kg	210 - 220 kg
Potassium (60% K)	75 - 80 kg	220 - 240 kg



- **Basal fertilizing:** All of organic and phosphorus (before the last harrowing) + 40% urea and 30% potassium fertilizer. For hybrid rice varieties: All of organic and phosphorus fertilizers (before the last harrowing) + 30% urea (before transplanting).
- **Transplanting:** The transplanting density depends on varieties. 40 - 50 hills/m² (2 - 3 plants/hill) for inbred rice; 30 - 40 hills/m² (1 - 2 plants/hill) for hybrid rice.



Machine transplanting



July: Transplanting (for middle and late varieties); top dressing and caring (for early varieties)

- **After transplanting,** keep the water level at 2 - 3 cm above the soil surface.



ATIN PROJECT



VIỆN KHOA HỌC NÔNG NGHIỆP VIỆT NAM (VAAS)
Địa chỉ: Vĩnh Quỳnh, Thanh Trì, Hà Nội

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- **First top dressing** when rooting and the plants turn green: Application of 50 - 60% urea + 30% potassium fertilizer combining with weed control and replanting.
- **Second top dressing** at the booting stage: Application of 40% potassium fertilizer for inbred and 60% for hybrid varieties.



Top dressing



Rice field after 40 days

August: Top dressing, caring, pest and disease control

- **First top dressing** for middle and late varieties
- **Keeping the water level** at 3 - 5 cm above the soil surface at the booting and heading stage.
- **Pest and disease control:**
 - Main insects and diseases including small leaf folder, stem borer, rice thrips, brown planthopper; rice blast (caused by *Pyricularia oryzae*), sheath blight (caused by *Rhizoctonia solani*) bacterial blight (caused by *Pseudomonas oryzae*).
 - Using chemicals: Vitako, Chees, Bassa, Danitol-S, etc. for insects; Validacinne, Anvil, Nevo....for diseases.



Small leaf folder



Spaying chemical for rice

- **Second top dressing** for middle and late varieties
- **Using herbicide** if there are lot of weeds. The popular herbicides and their processes of use need to follow the instructions of the manufacturer and permitted lists.

September: Caring, pest and disease control for middle and late varieties; harvesting early varieties



- **Visiting and monitoring** regularly the field to discover pest and disease occurrence so that to take appropriate prevention and control measures.
- **Draining water** before harvesting to make favorable conditions for harvest.
- **Harvesting** early rice varieties in September when 90 - 95% of grains on panicle are mature. High quality varieties can be harvested earlier.

October: Harvesting middle and late rice varieties



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