How can you realize high yield on upland rice cultivation in your field ?





Please follow this book up to the end and implement practical effort !

Important Technical Points on Upland Rice Cultivation before Postharvest

(1) Using Pure Seed

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- **②** Good Land Preparation (Leveling)
- **③** Proper Sowing Operation
- **④** Sowing at Optimum Time
- **(5)** Effective Weed Control
- **(6)** Appropriate Irrigation
- **⑦** Harvesting at Proper Time

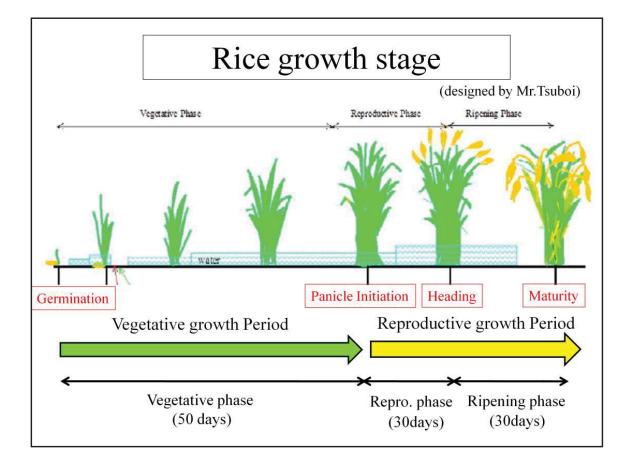
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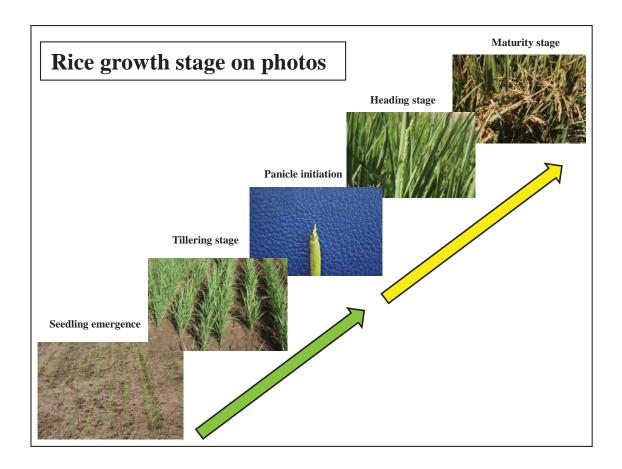


Weed control









General Cropping Calendar for Upland Rice



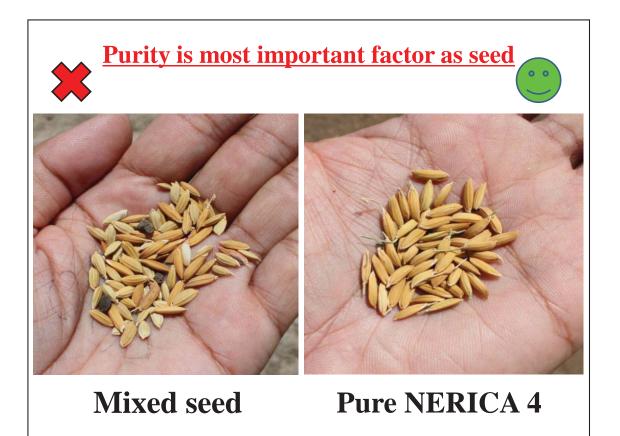
Cultivation Points for yield more than 1t/fed Implement below operations appropriately !

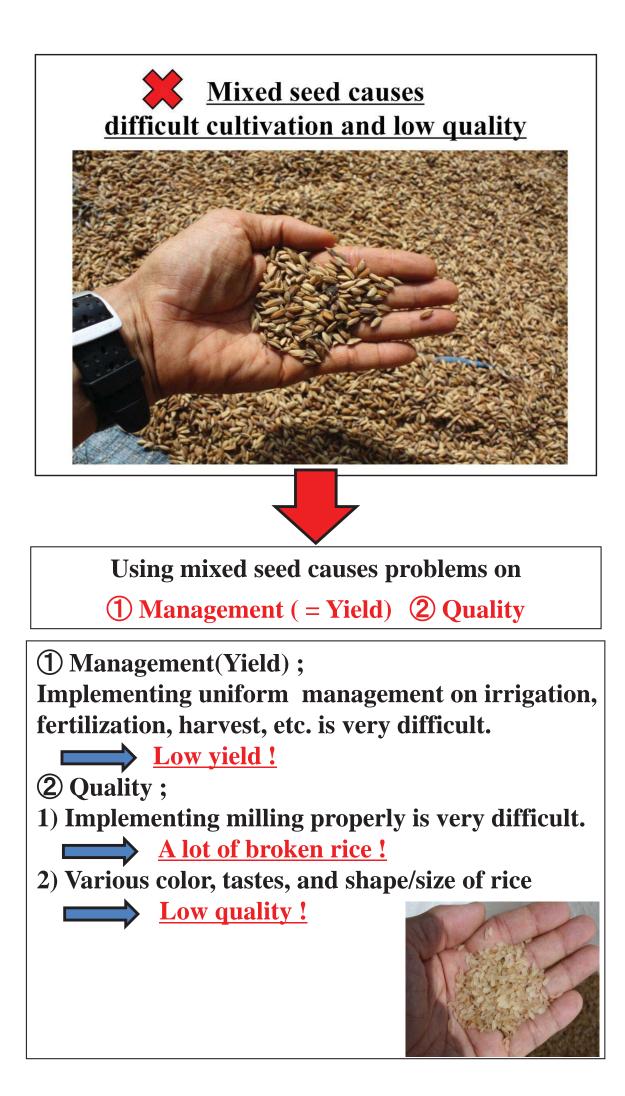
- 1. Seed rate : 40kg/fed, Sowing space : 30cm or more
- 2. <u>Even/flat land leveling</u> should be secured.
 - → if good land leveling is not done, seed can not germinate and grow at lower place in the field. Land should be leveled evenly without bump and dent.
- 3. <u>Weed control</u> should be implemented at early stage.
 - \rightarrow if herbicide is not applied, hand weeding should be done at least 2 times during 1 month after sowing.
- 4. <u>Irrigation interval</u>: Germination ~ Panicle initiation : <u>1time/5 - 6days</u> Panicle initiation ~ heading~ maturity : <u>1time/2 - 3days</u>
 → it varies according to soil and field condition, but before soil dries, irrigation should be implemented.

<u>①</u> Using pure seed

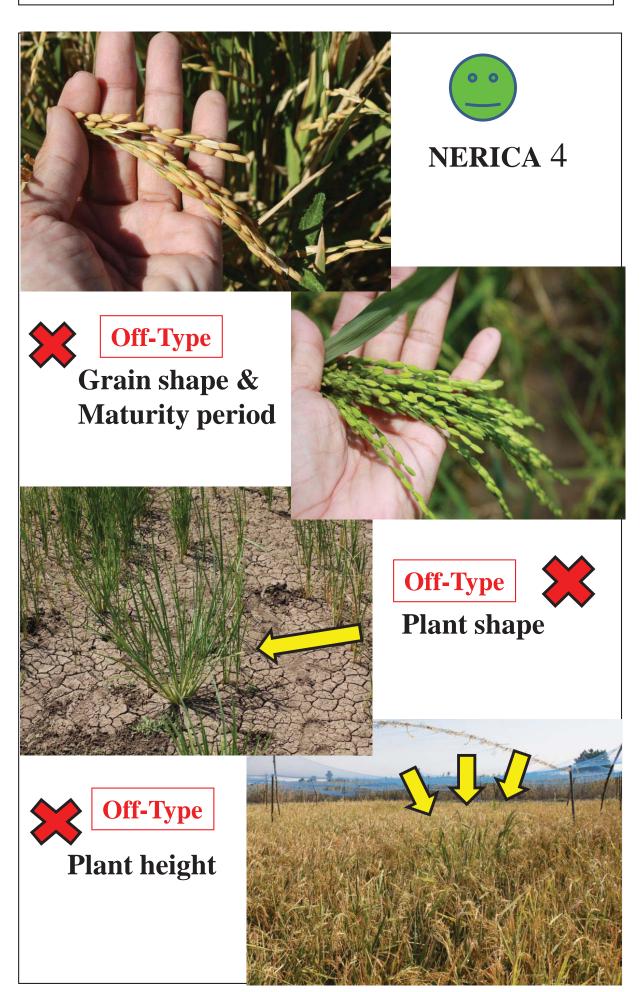


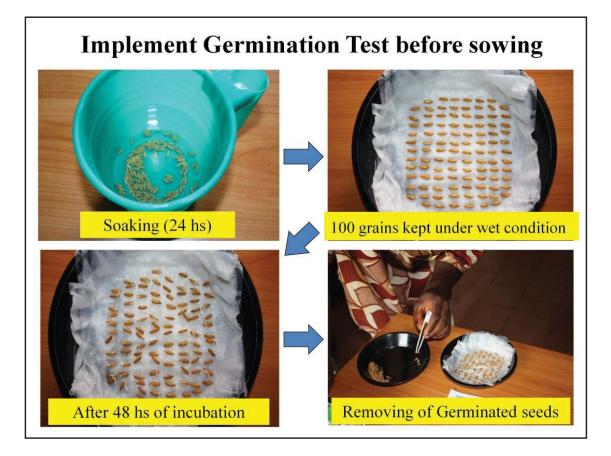
Using purified seeds is first step for high yield





Let's remove off-type to keep purity !





Why conducting germination test before sowing is important ?

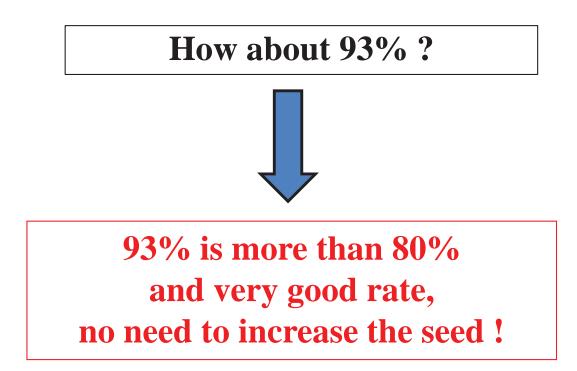


Because germination rate needs to be grasped before sowing.

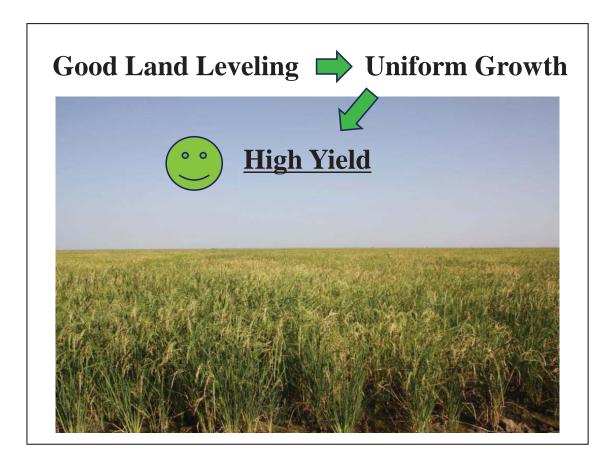


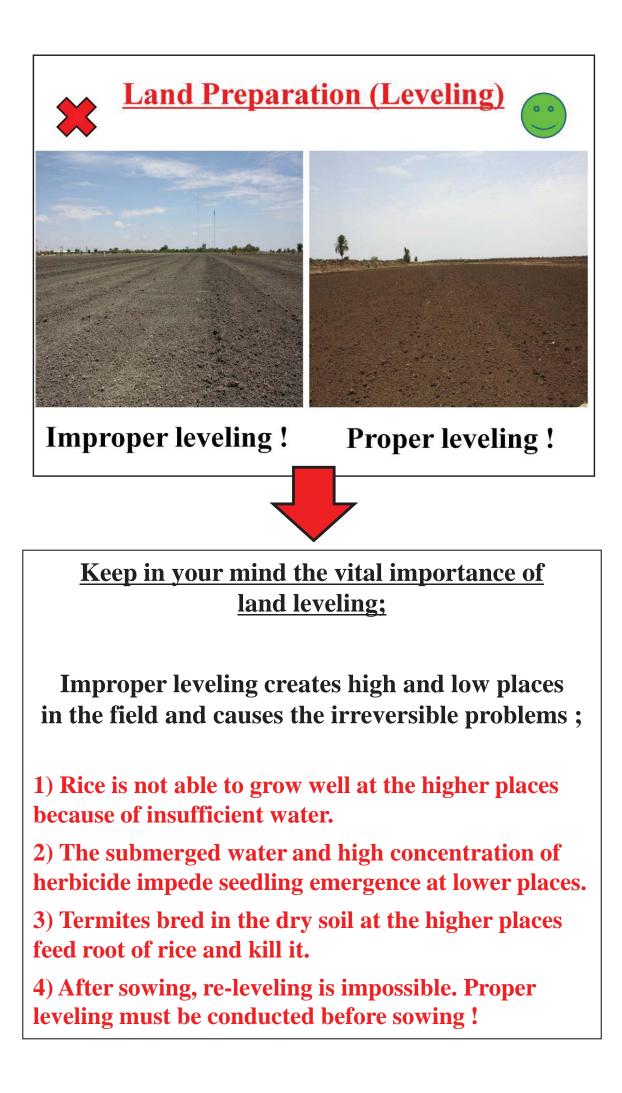
If germination rate is less than 80%, the amount of seed must be increased !



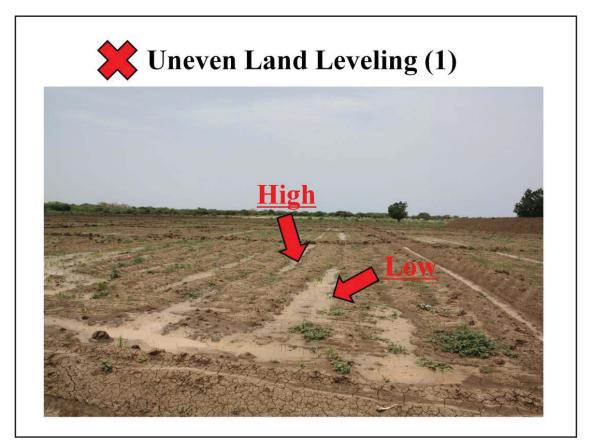




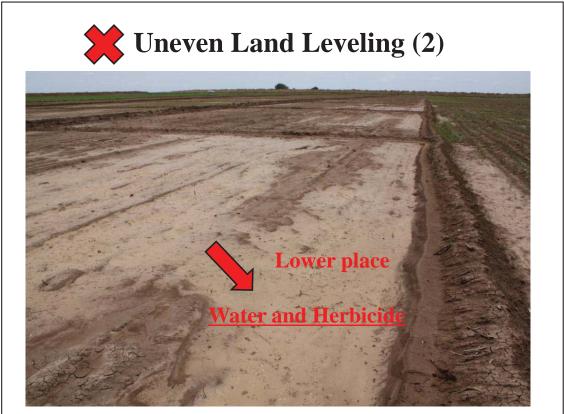




(1) Problem caused by improper leveling

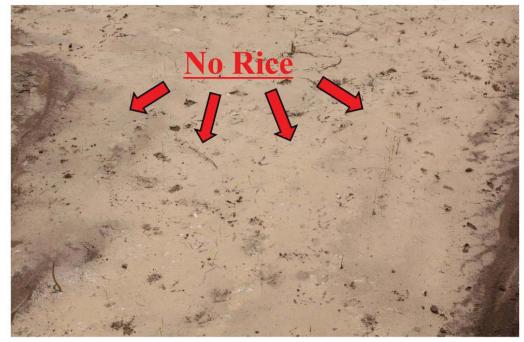


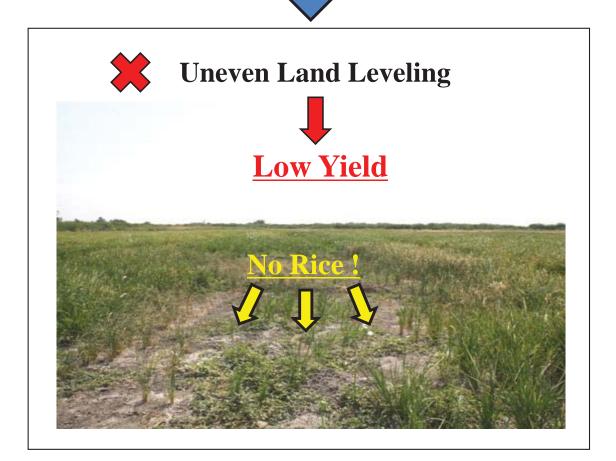






Submerged water and high concentration of herbicide impede seedling emergence

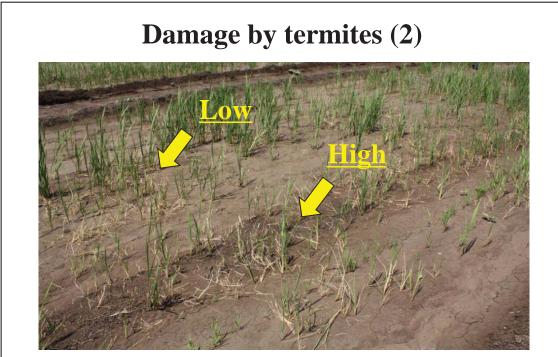




(2) Problem caused by improper leveling

Damage by termites (1)





Damage by termites can be minimized by keeping water, good land leveling is indispensable from this viewpoint.

Implements of Tractor for Land preparation



Chisel plow

For drying soil easily and avoiding the field with bump and dent, but less effective compared with Disk plow in reversing soil ability

Disk plow For reversing soil easily under any condition, but less effective compared with Bottom plow in plowing depth and reversing soil ability



Fertilization: Basal Dressing (ex.TSP, NPK) must be applied before harrowing to mix with soil

Disk Harrow

For crushing soil mass at deep level by rotating disks and implementing leveling at the same time





Scraper (Leveler)

For executing soil leveling manually by technique of operator under correct understanding on field condition

Laser Leveler

For conducting soil leveling automatically by utilizing emission and receiving device of laser beam

