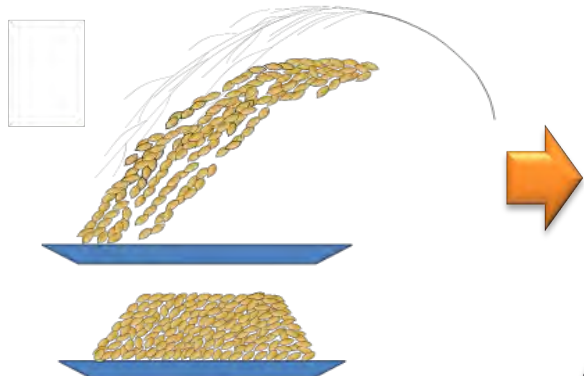
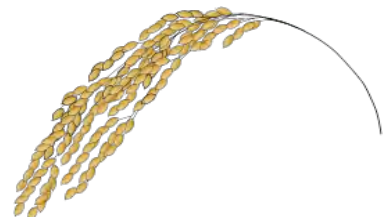
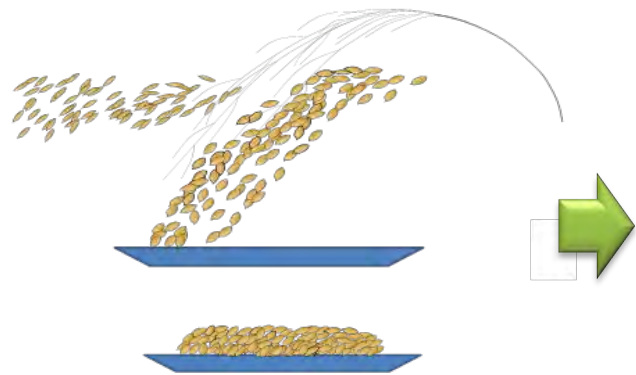
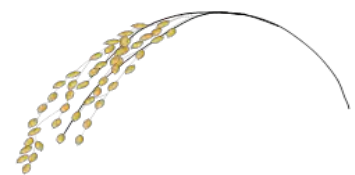


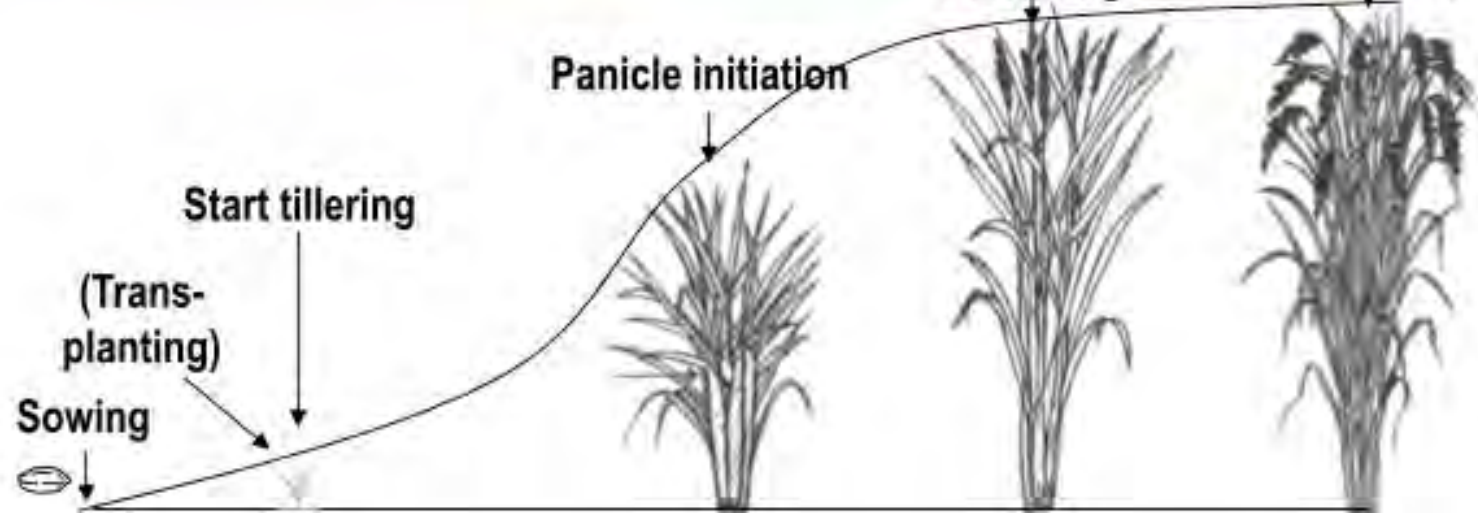
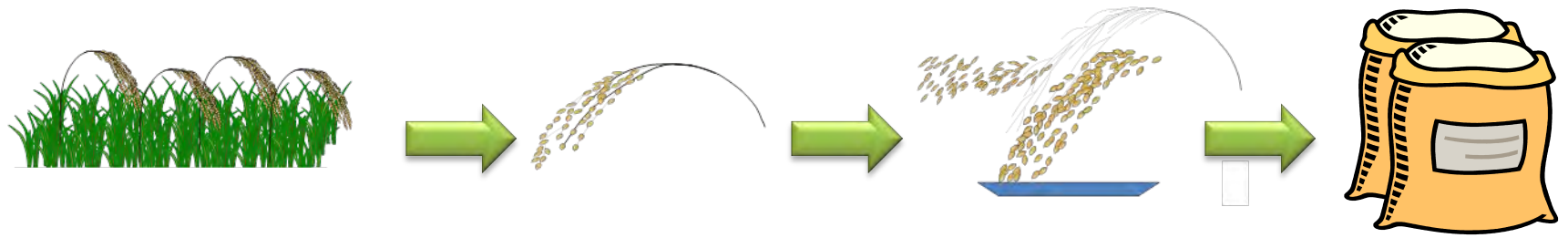
Extension Material on Technical Package on Rice Production



Sustainable Rice Development Project in Sierra Leone (JICA, MAFFS)

Three conditions to determine rice yield





Rice variety



- ❑ Long duration (6 months)



- ❑ Tall (130 cm)



- ❑ Photosensitive



- ❑ Medium duration (5 months)



- ❑ Medium (115 cm)



- ❑ Tolerant to Fe toxicity



- ❑ Medium duration (4 months)



- ❑ Medium

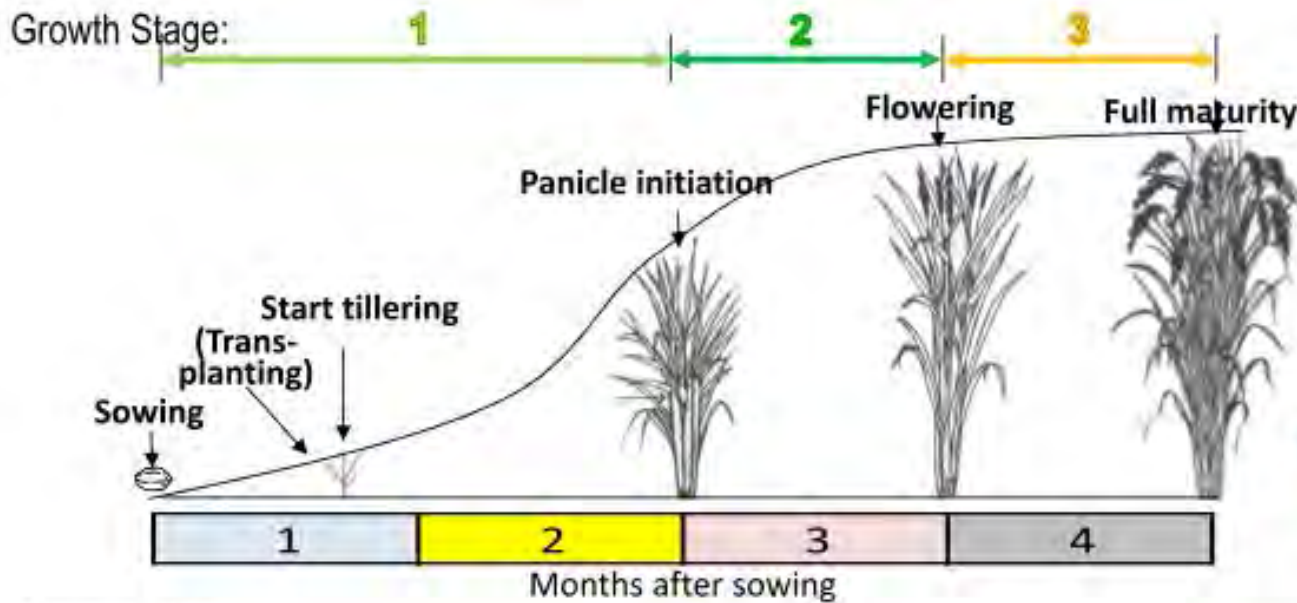


- ❑ Short duration (3-3.5 months)

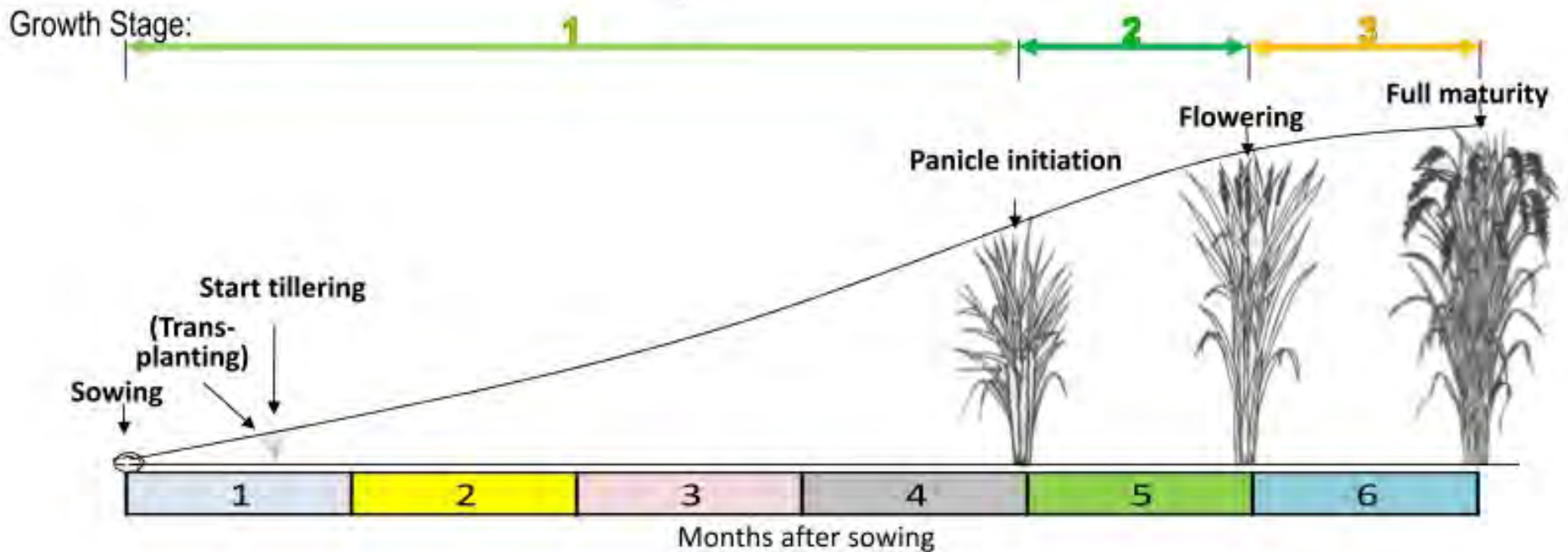


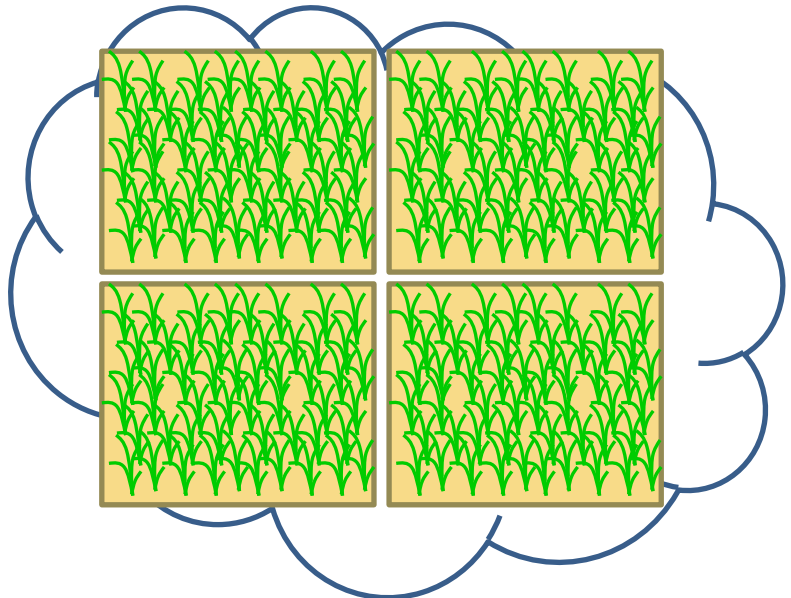
- ❑ Short



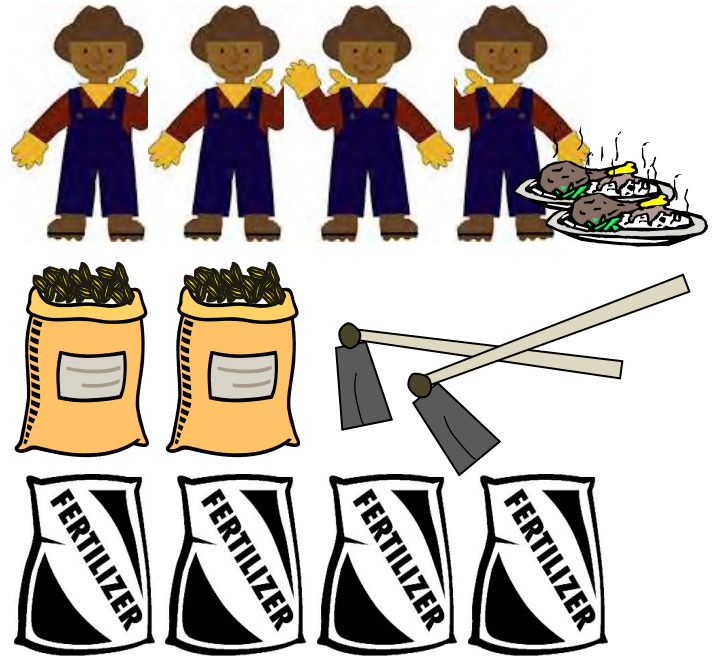
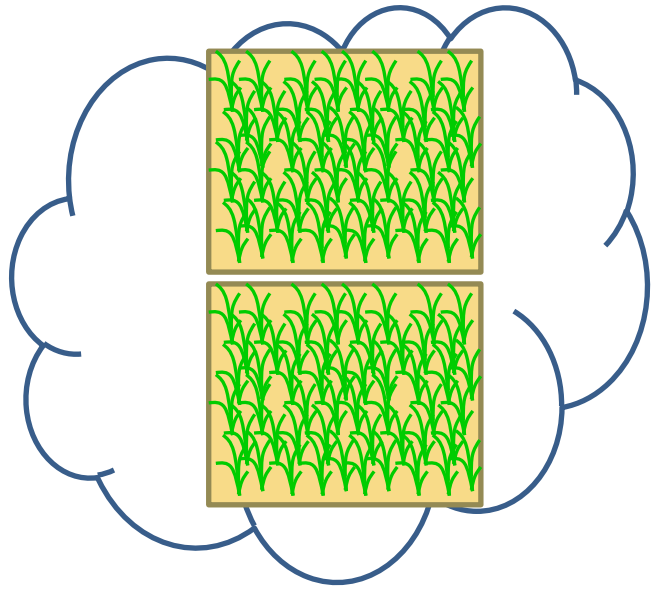


Life cycle of Rice plant





Farming Plan



Cropping Calendar

May (5)

June (6)

July (7)

Aug (8)

Sept (9)

Oct (10)

Nov (11)

Dec (12)



1

2

3

4

5



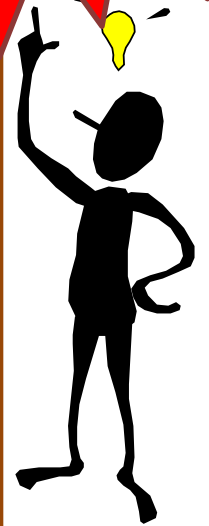
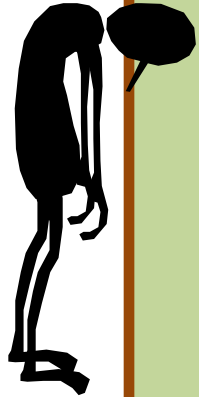
FFS Trial Plot

Conventional techniques

Improved techniques



New Techniques

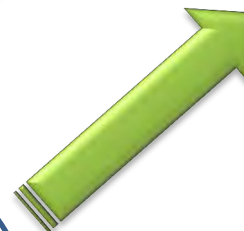
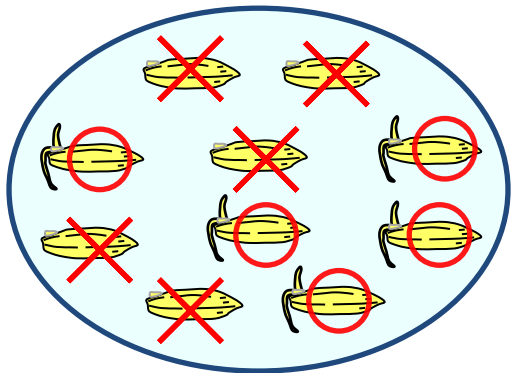
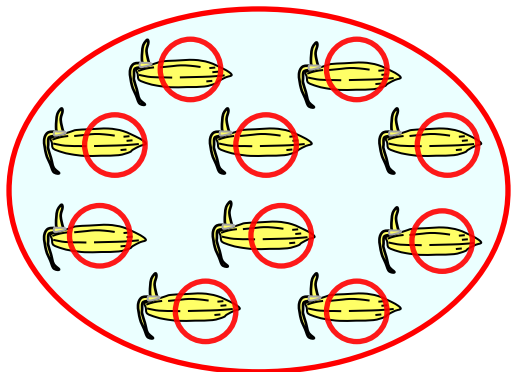


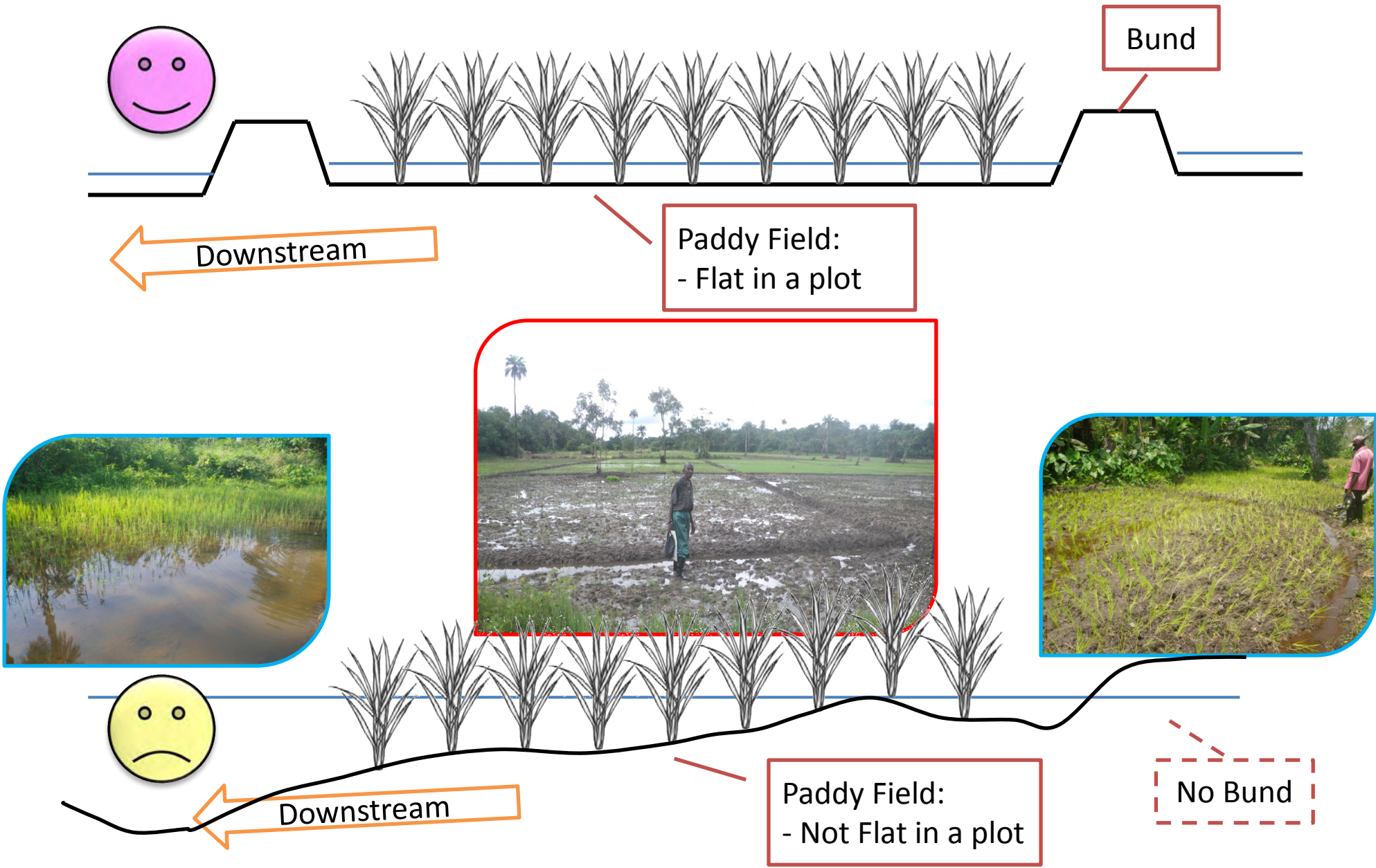
Compare rice production





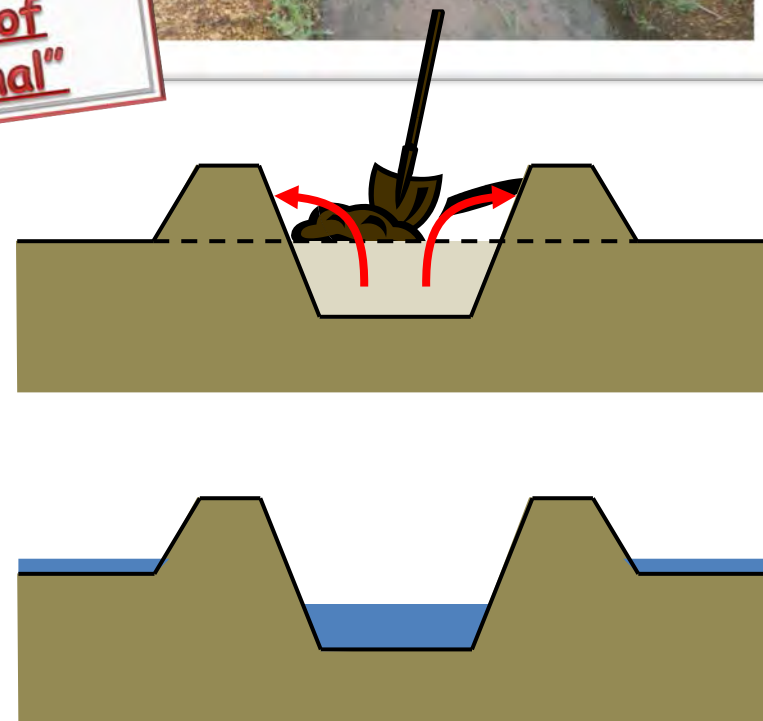
Seed production 1



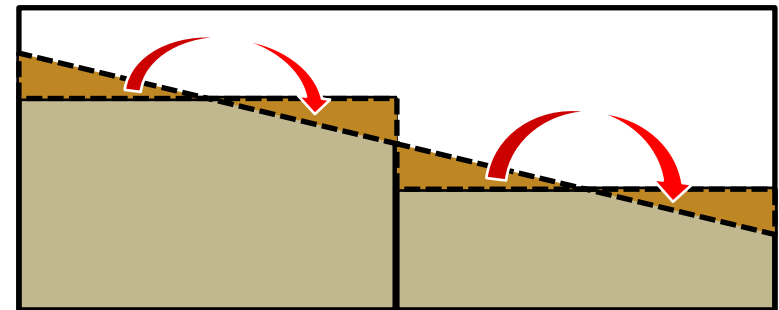
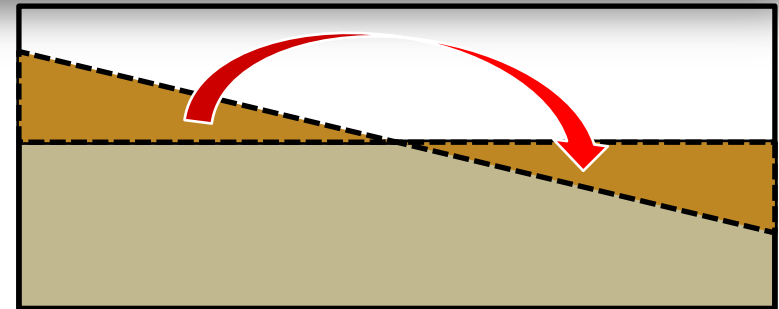
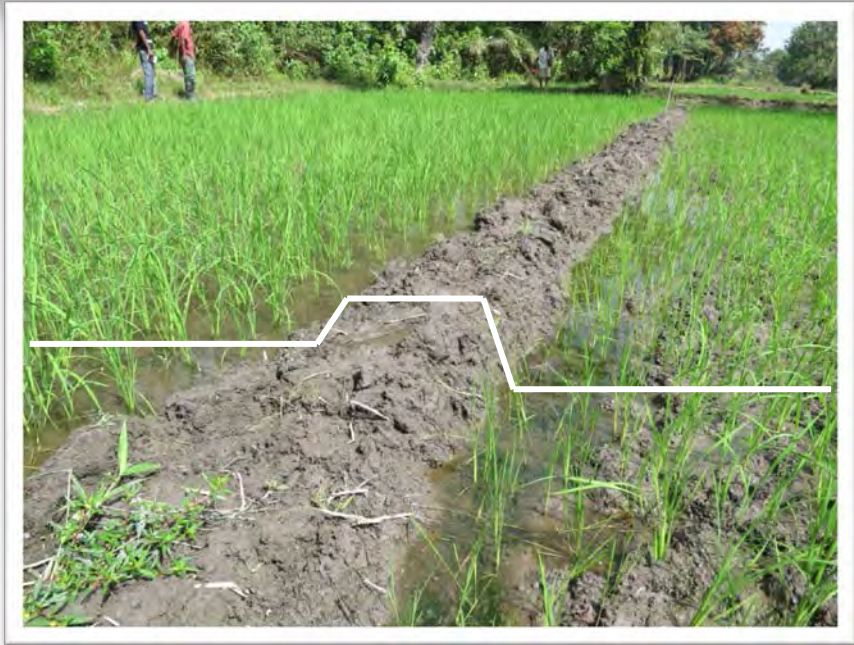




Construction of "Drainage Canal"



"Land Leveling"





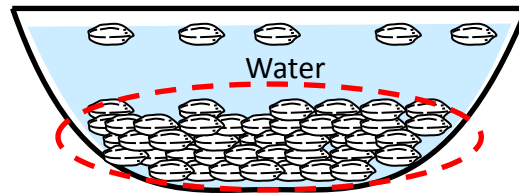
Brushing, Clearing & Digging



Sorting



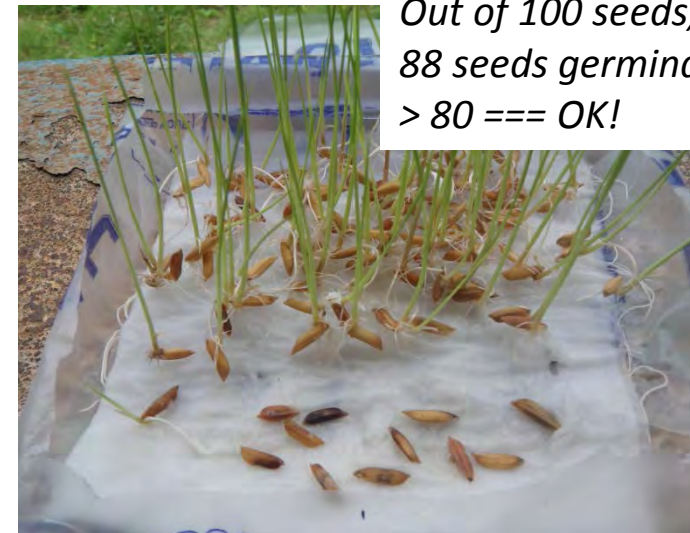
Selection with water



Remove

Use as seeds

Germination Test



Pre-germination



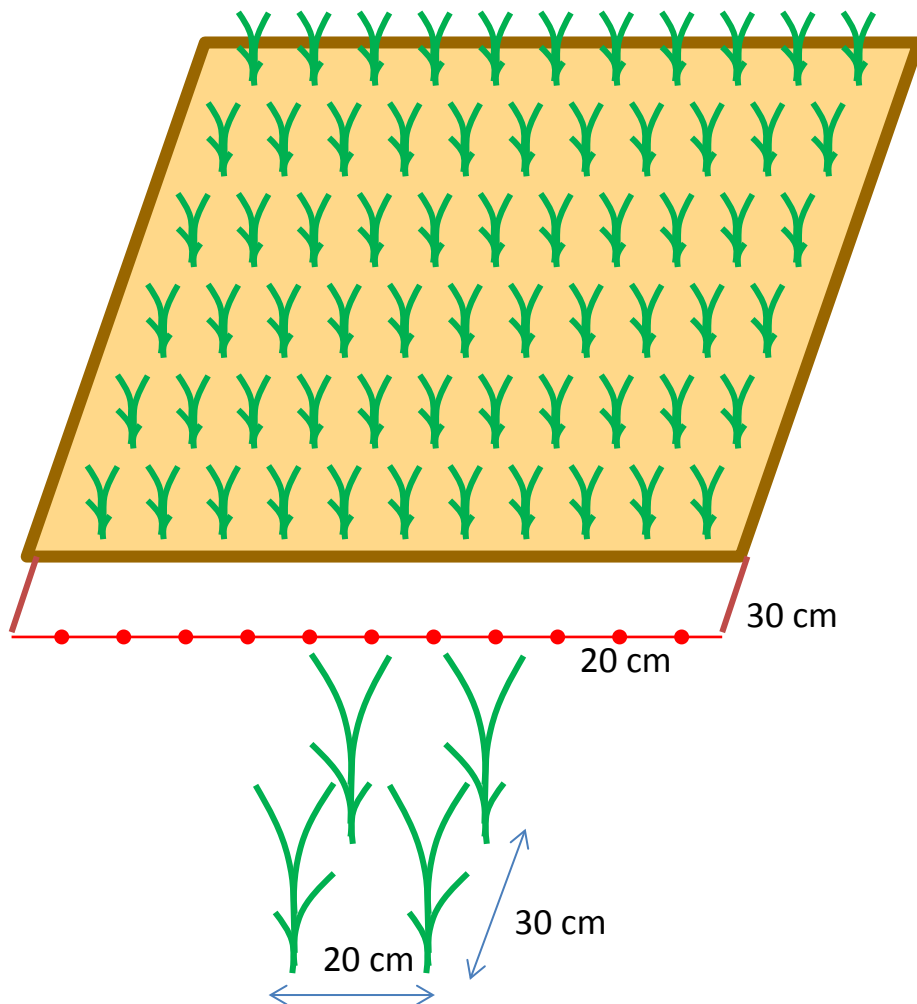
Standard in climate in July
Soaking seeds in water: 0.5 - 1 day
Incubation in rice bag: 1 - 2 days
(depending on temperature)

Just starting germination



Line Planting

Single seedling per hill

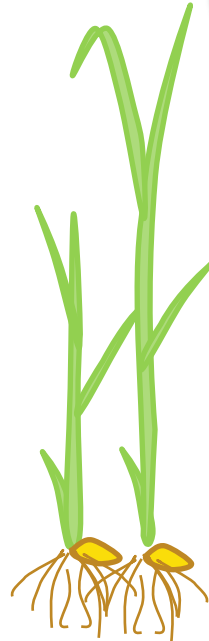
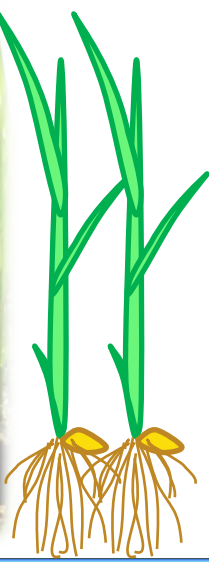




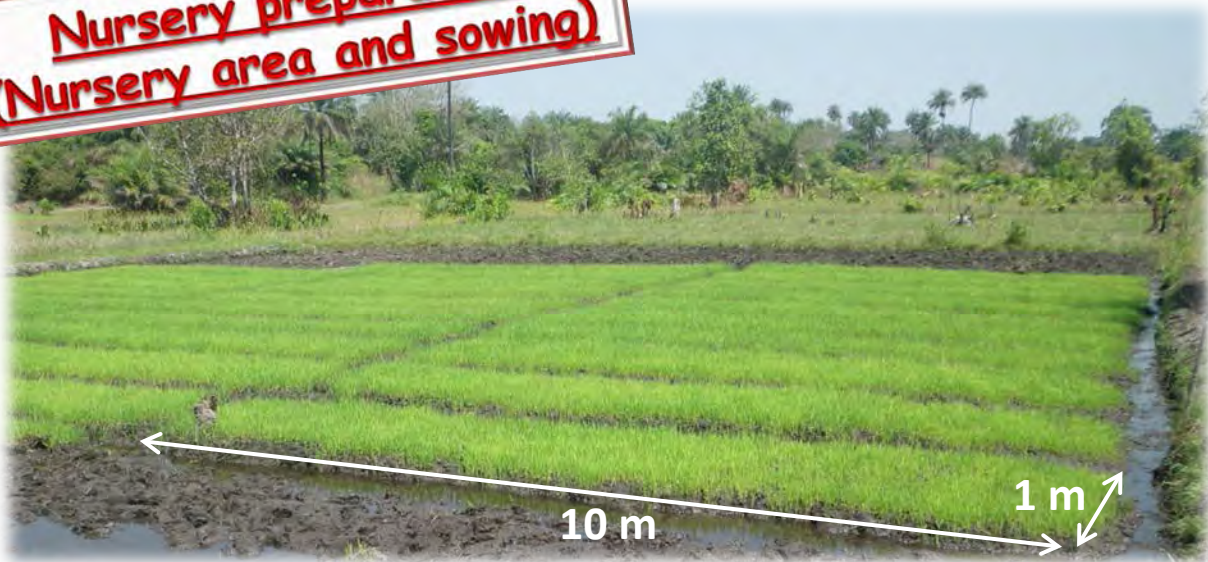
**Nursery preparation
(Site selection)**



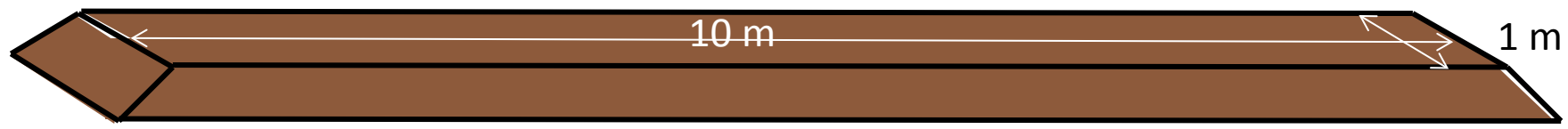
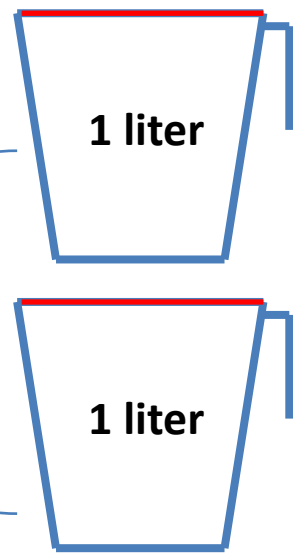
Nursery needs sunlight

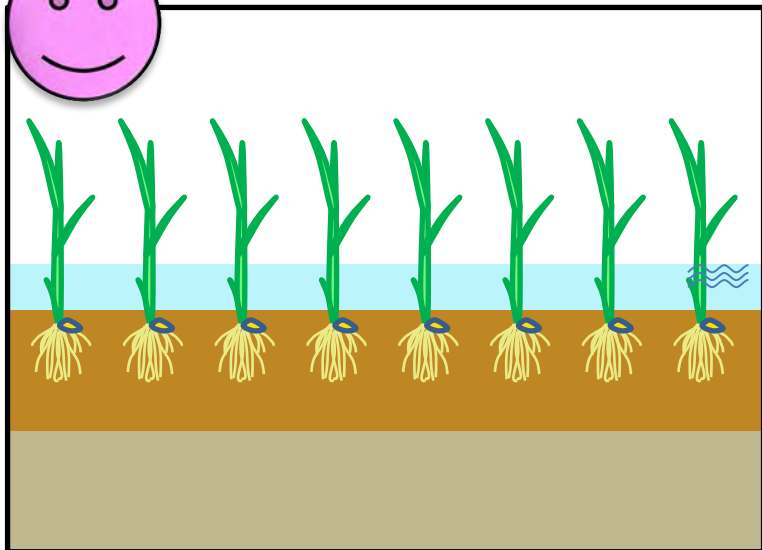


**Nursery preparation
(Nursery area and sowing)**

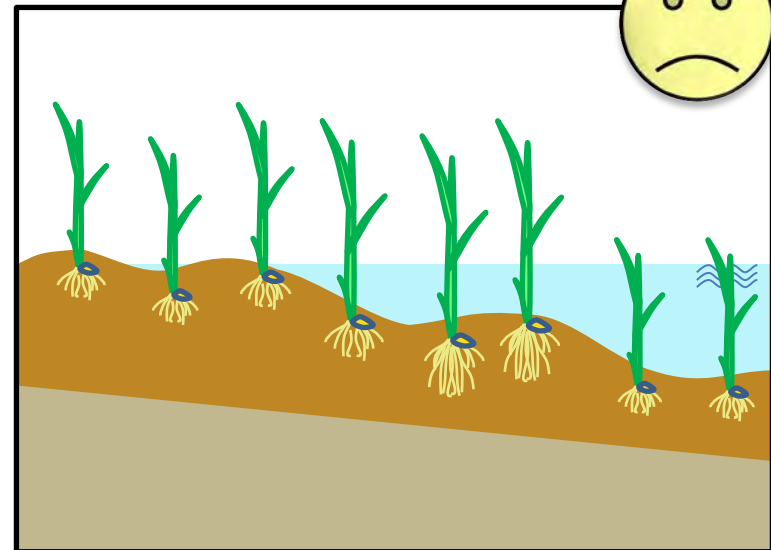


Seed Rice: **1 kg**
= 2 liter

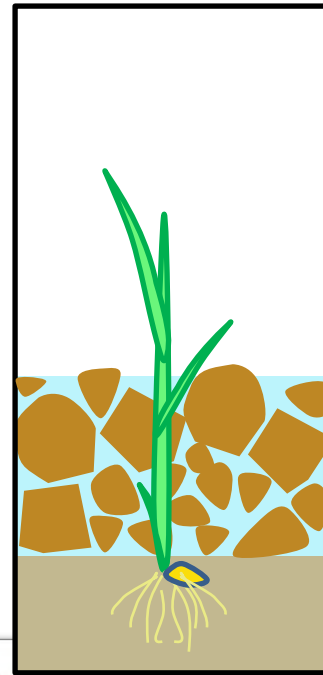
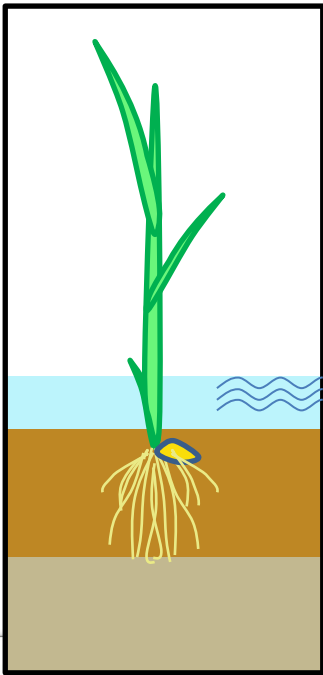




Leveling



Puddling





**[1st]
Transplanting Stage**



Promotion
of Tillering



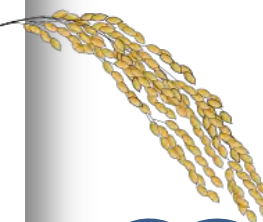
Fertilizer
Food for Rice



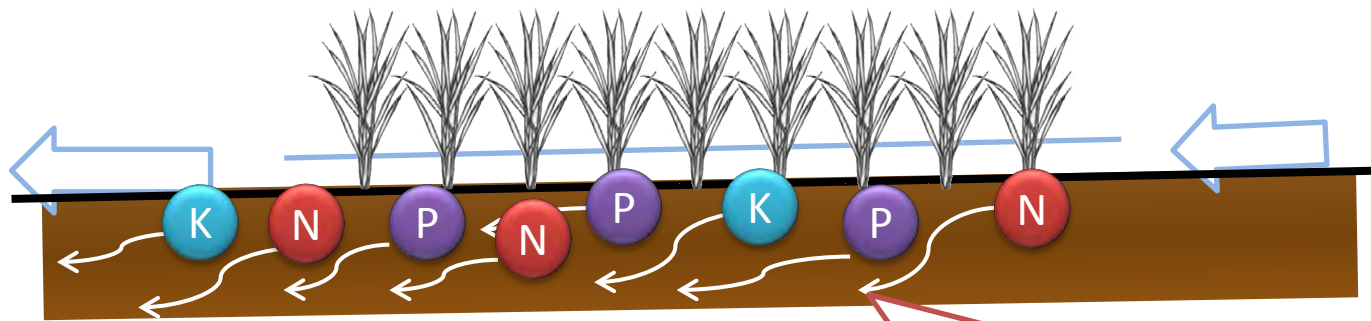
**[2nd]
Panicle Initiation Stage**



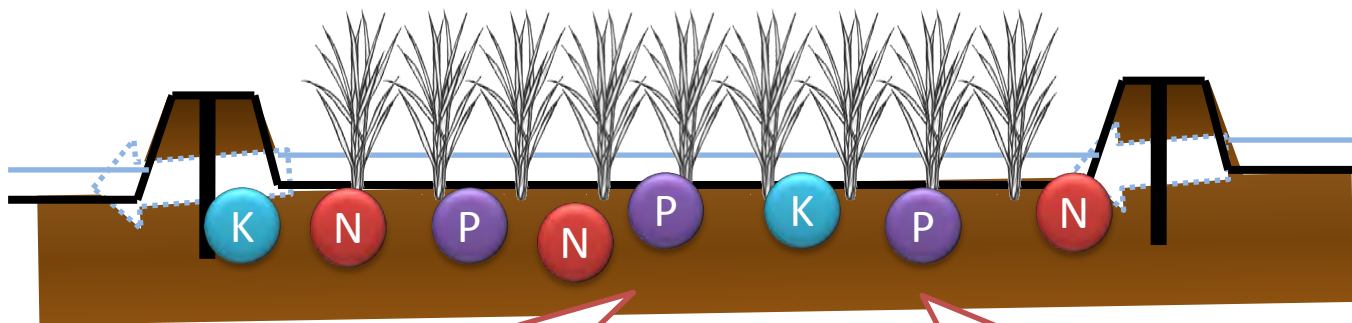
Formation of
Spikelets



Water control can enhance fertilizer use efficiency.



Fertilizer flow away with running water. High cost to fertilizer - but no effect at all.



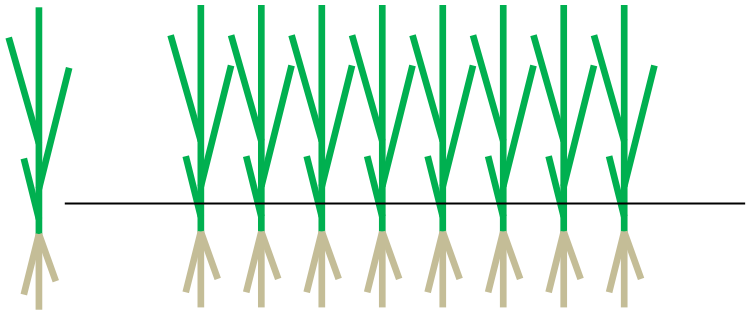
Keep water/fertilizer in the field by "Bund"

Low water level for better effect

Nursery Period
Try to use young seedlings

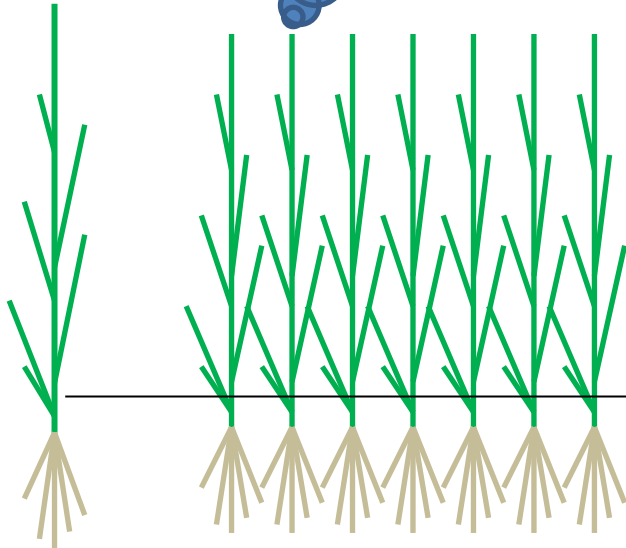


Healthy,
Vital
4 leaves



3 weeks

Too long,
Deterioration,
5 - 6 leaves,
Tillering started



more than 1 month



Etiolating

Tillering

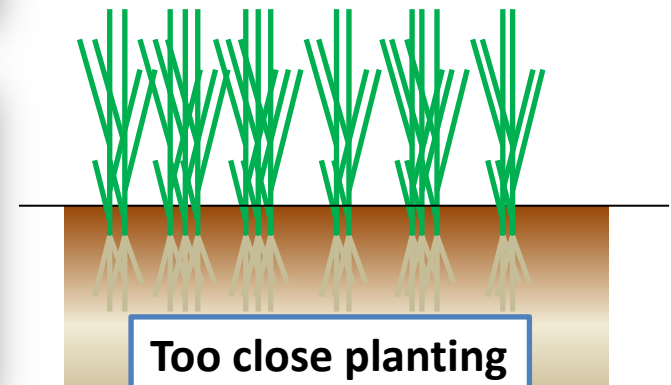
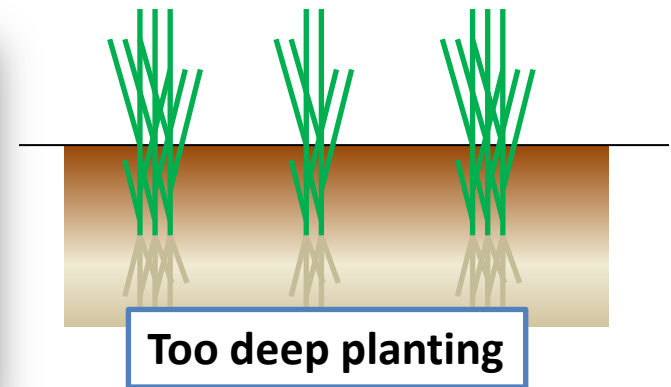
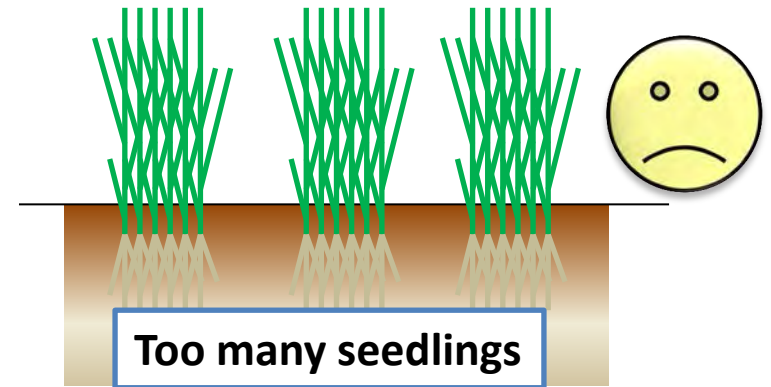
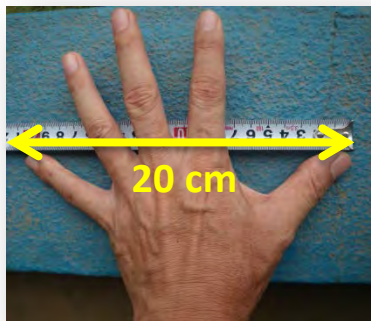
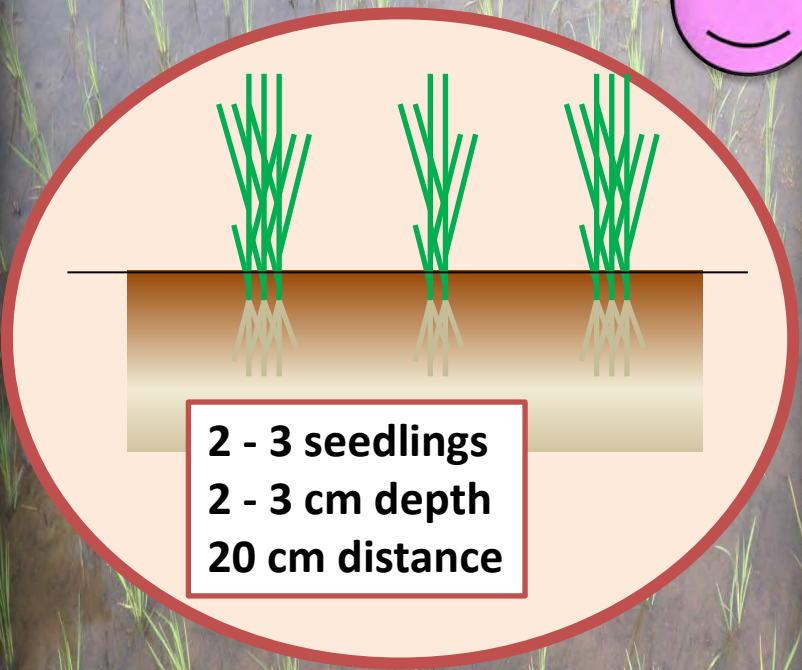
Uprooting of seedlings

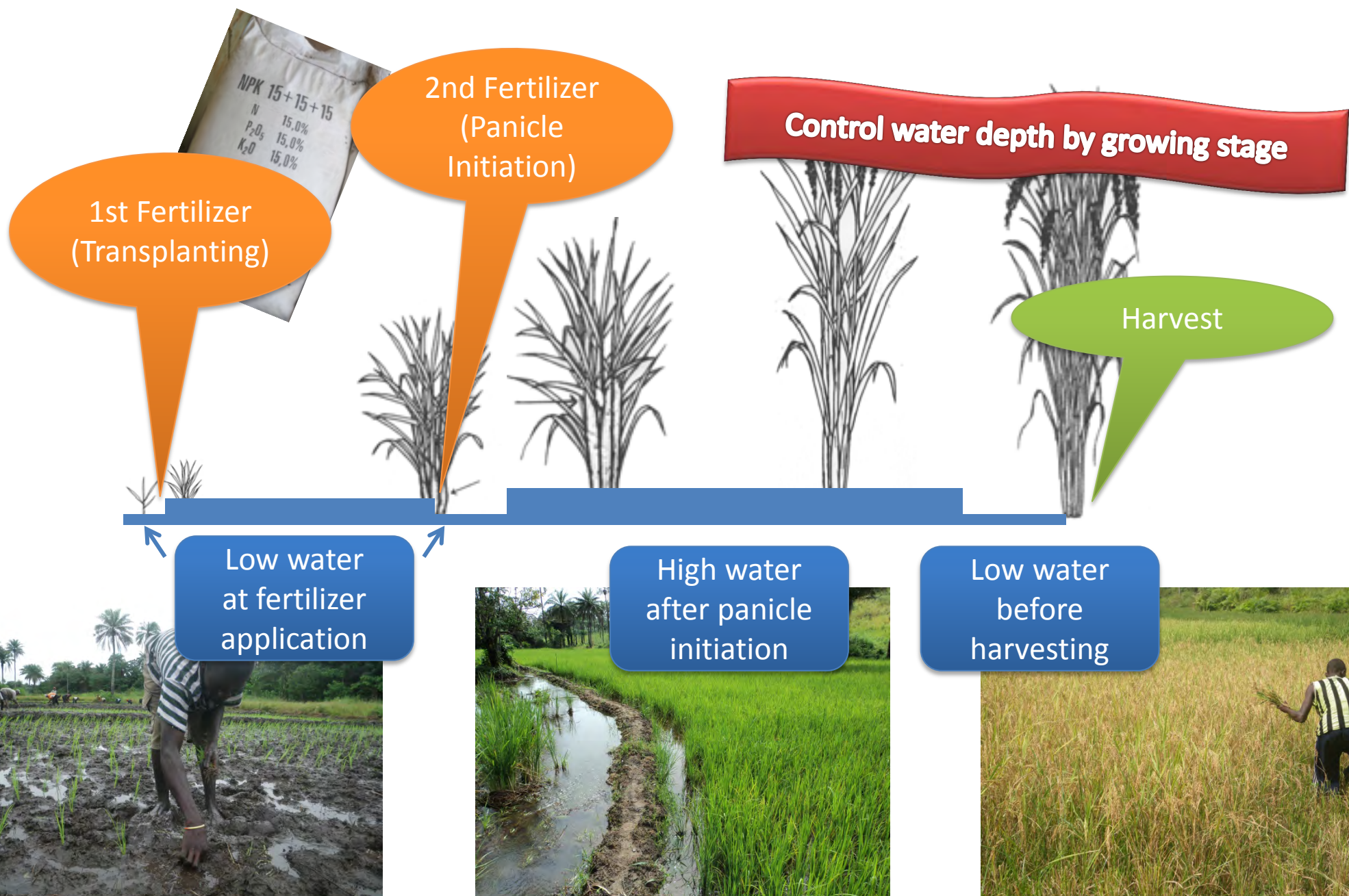


- ✓ Uproot seedlings carefully.
- ✓ Keep root wet.
- ✓ Transplant soon after uprooting.



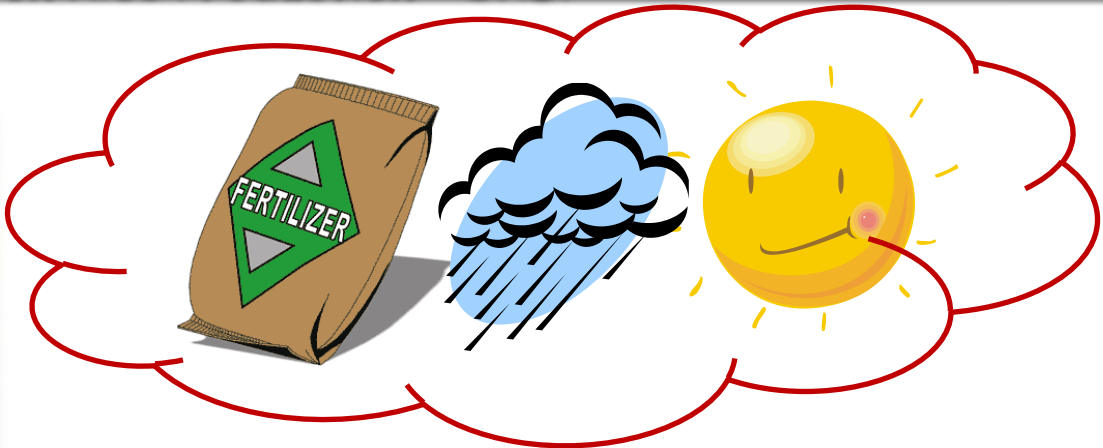
Transplanting Method





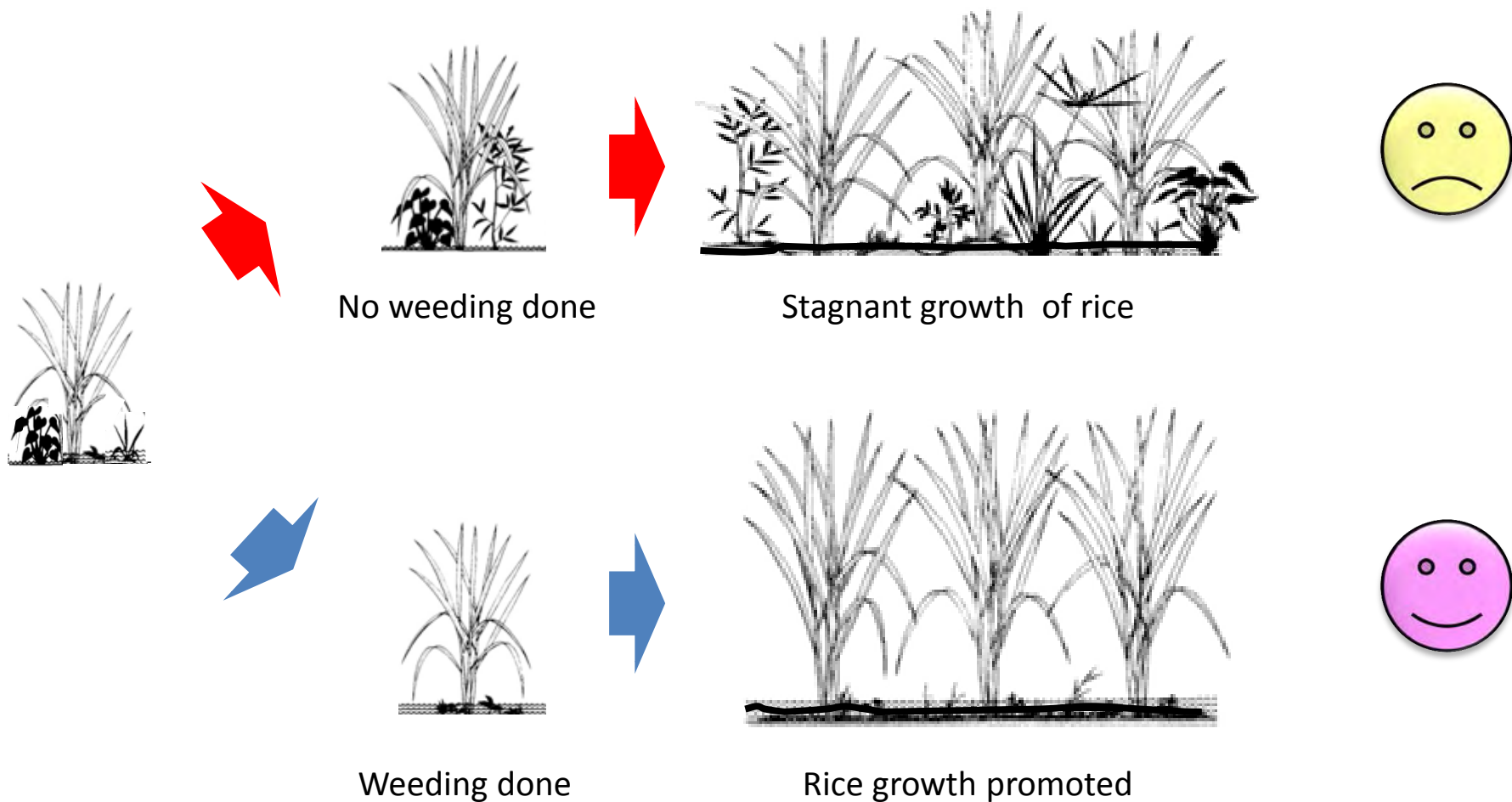
Weed control

Right time
for weeding

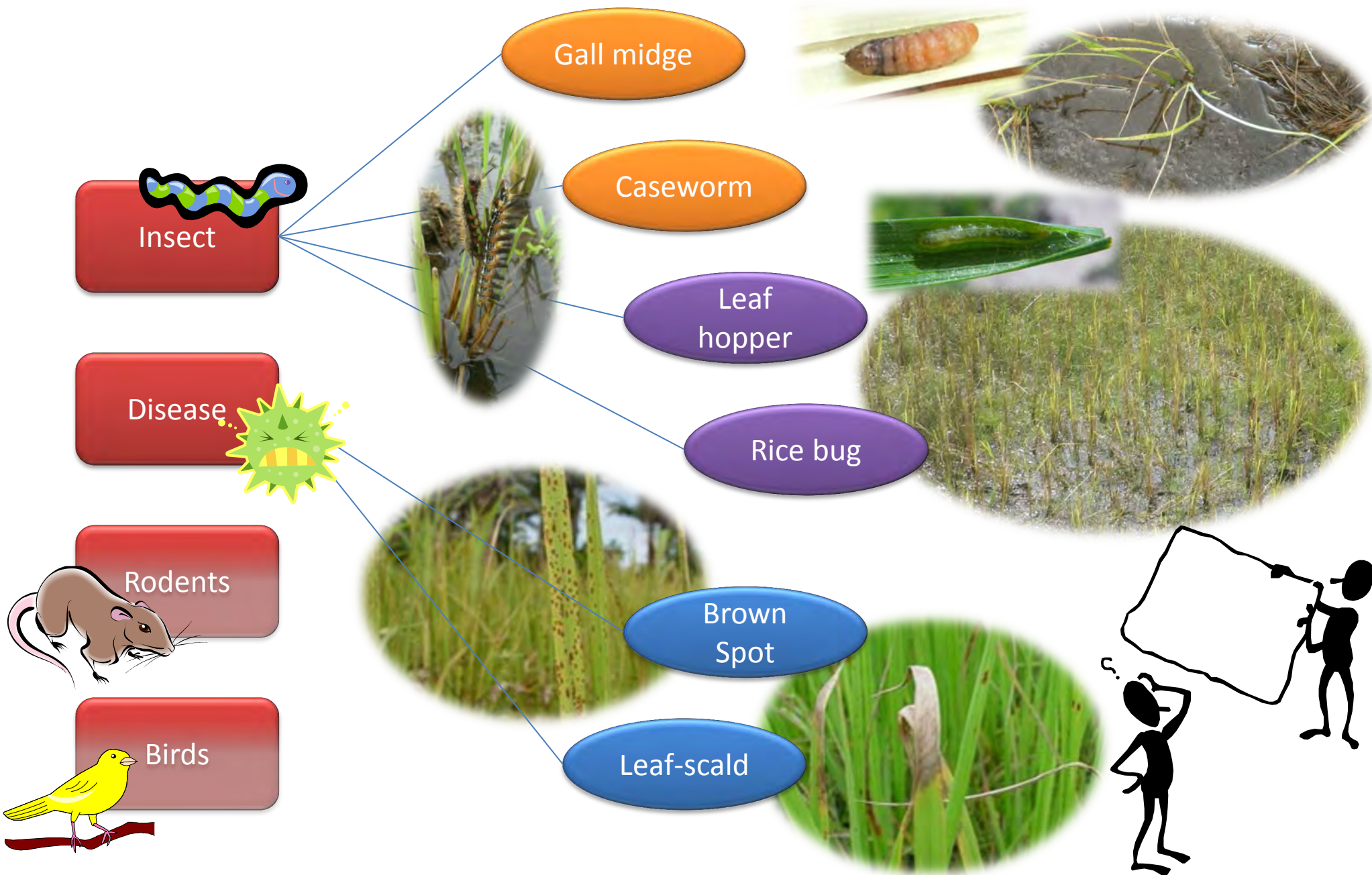


Too late

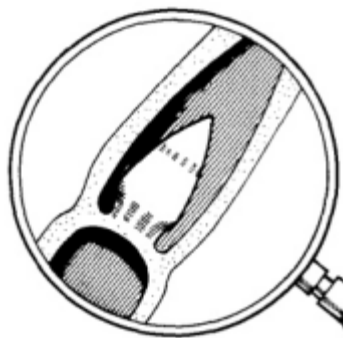
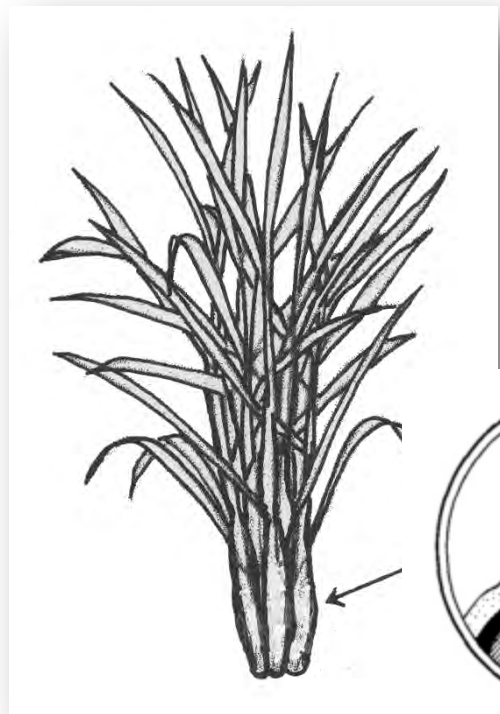
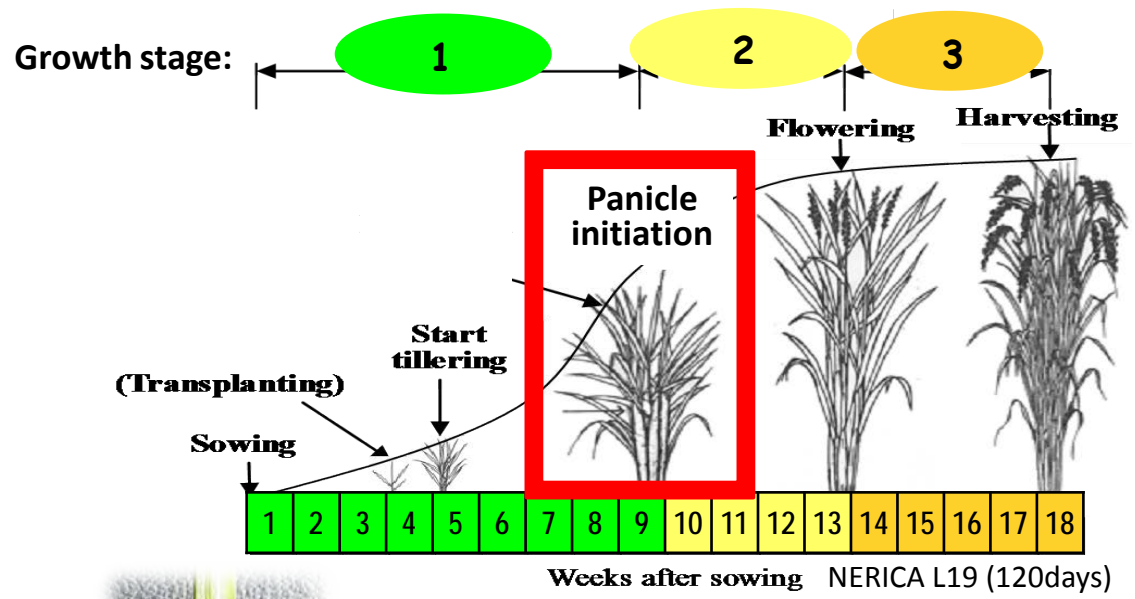




Source: modified based on "A Farmer's Primer on Growing Rice"; IRRI; 1992

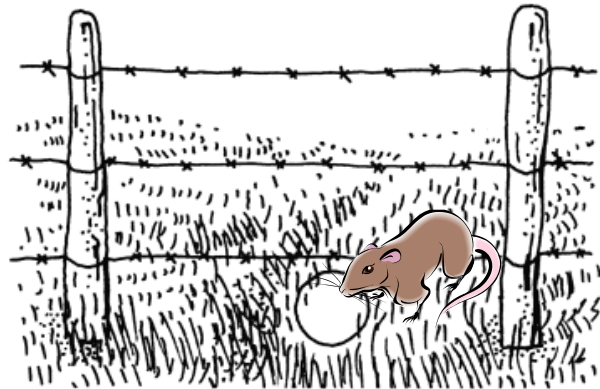


Panicle initiation and Top dressing





Rats





Damaged by weaverbirds



Purifying seed

Height



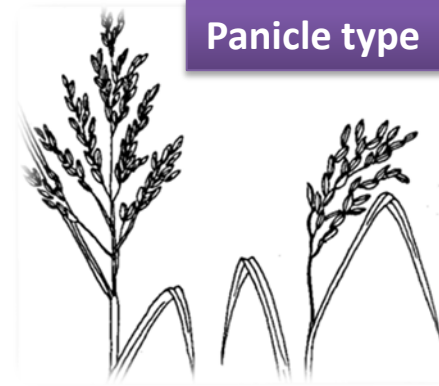
Leaf, culm, grain color



Panicle exertion



Panicle type



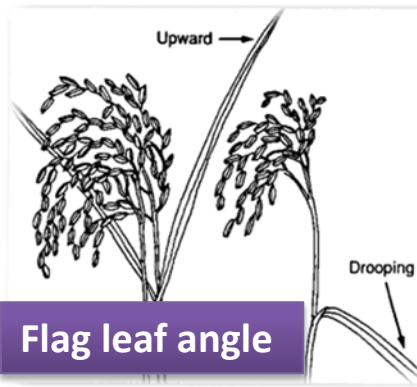
Heading time



Leaf angle



Upward →



Flag leaf angle

↘ Drooping

Awns



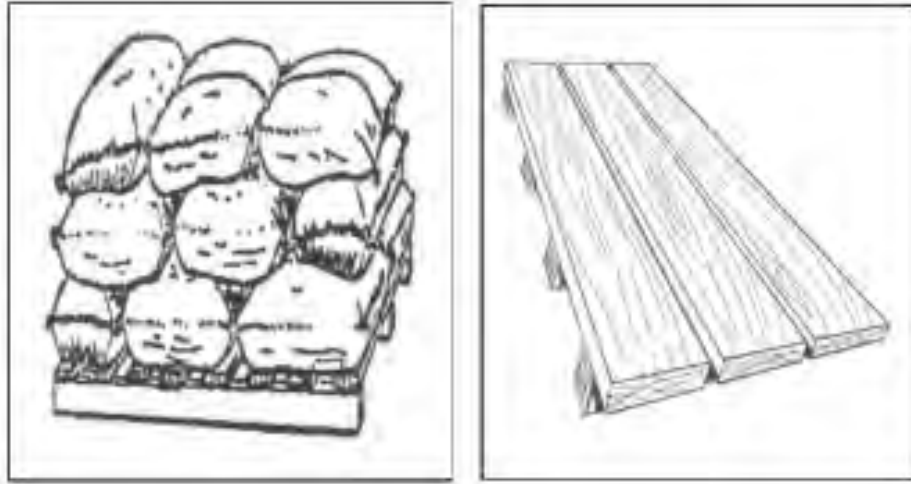
Grain shape

Source: Purifying seed through roguing; IRRI; 1988



Remove off-type plants





Keep rice sacks on wooden pallet

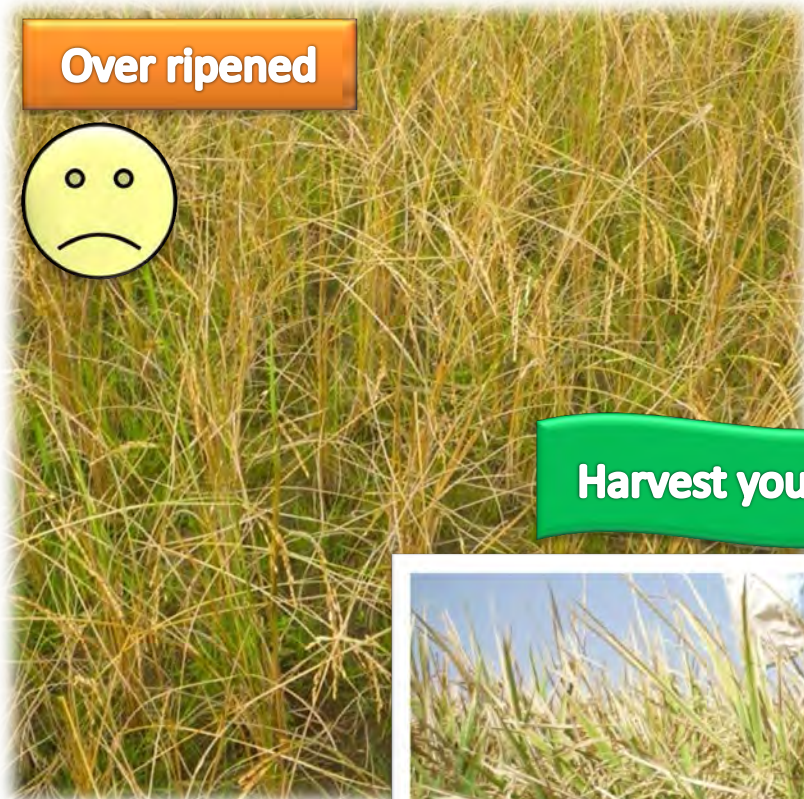
Keep cool and dry until next season



Dry once a month



Over ripened



Immature



Harvest your rice at right time!



80-85 % matured





Dry grain on tarpaulin or drying floor



Store well-dried and winnowed grains
in proper ways

