

# 1. Land preparation

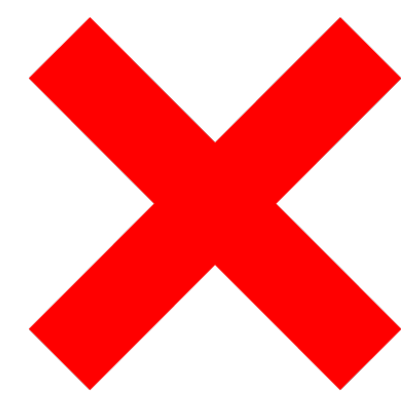
by Promotion of Rice Development (PRiDe) Project



January 2014

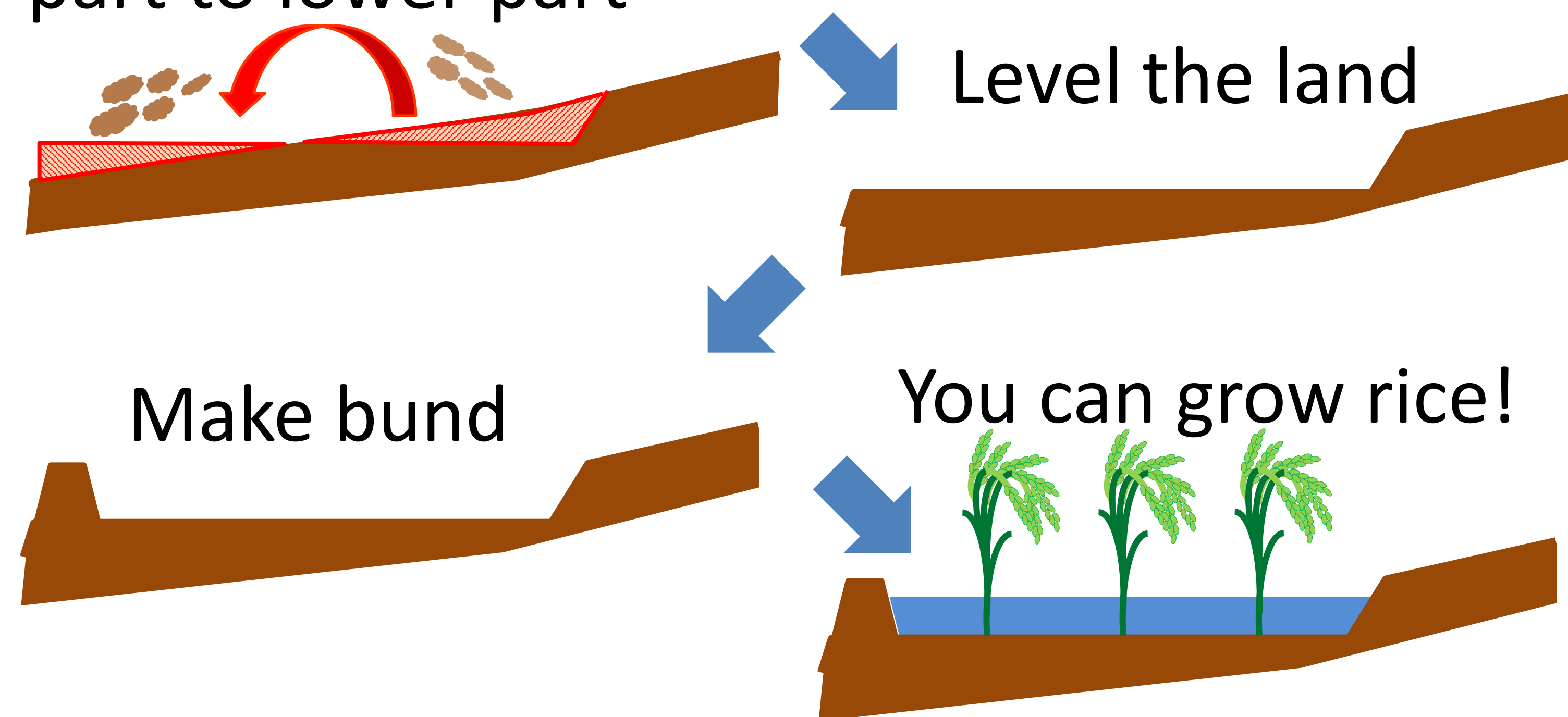
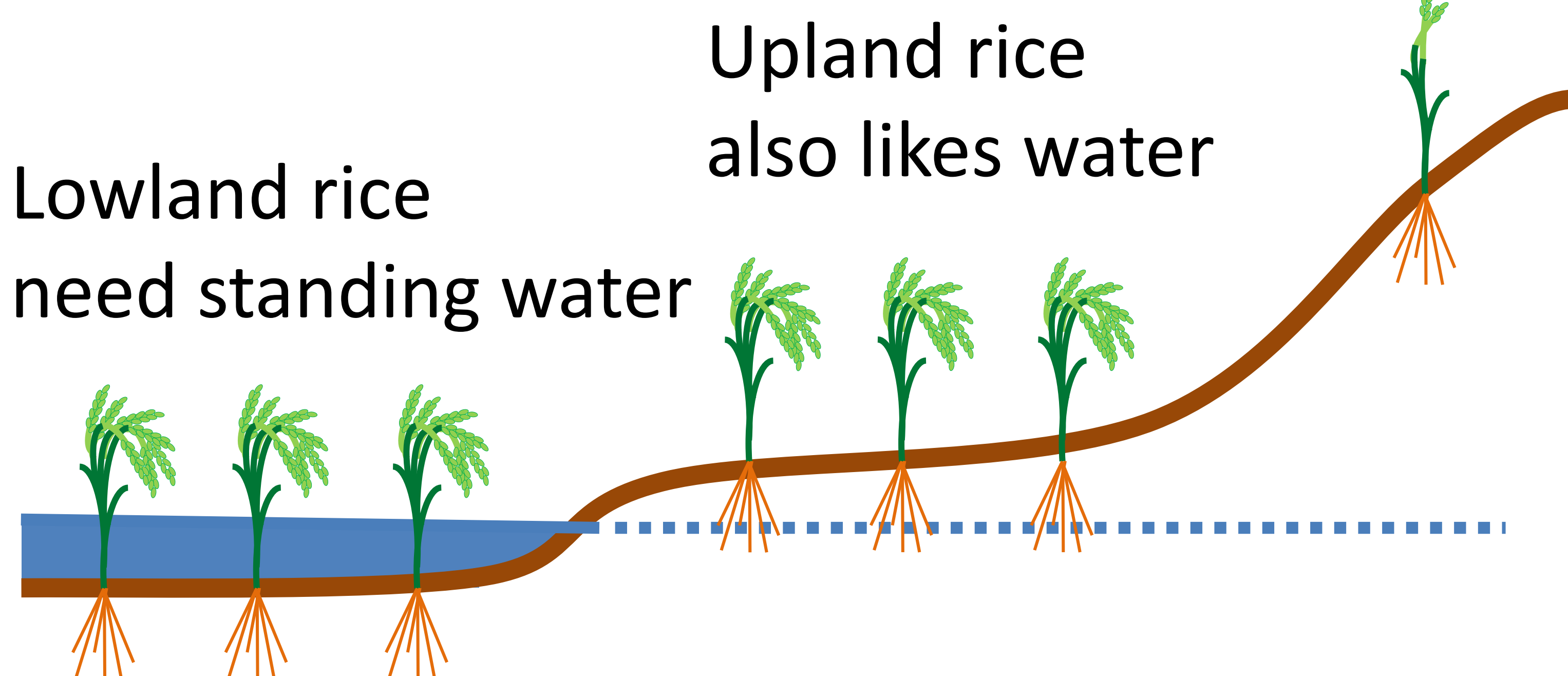
## 1. Suitable field for rice

Uphill or sharp slope field should be used for upland crops (Maize, Beans, Cassava etc.)



Gentle slope near water also can be used for paddy

Move soil from upper part to lower part



## 2. Surrounding a field with bund

Bund is needed to **keep water & control water** in the field



30 - 40cm width are recommended

If bund is too narrow, it is easy to be broken and difficult to walk

If bund is too wide, rats make nests and planting area becomes small

Make bund before rainy season starts

## 3. Field leveling



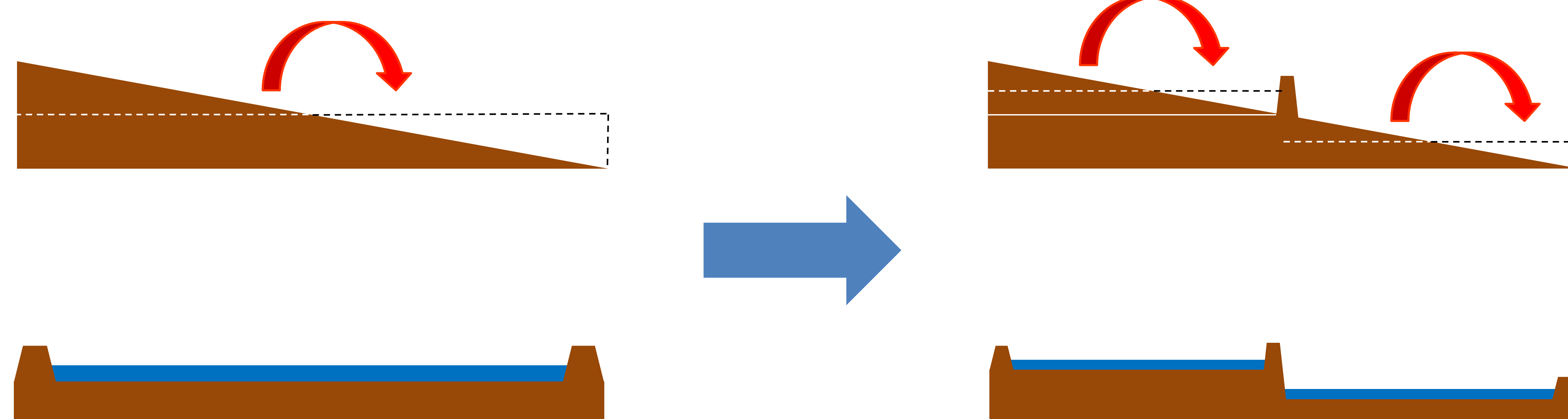
Too much water

Poor growth of rice

Too little water

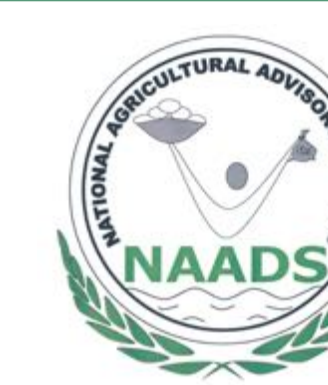


If your field is too large to level, you can divide field into small plot with bund



# 2. Lowland rice variety selection

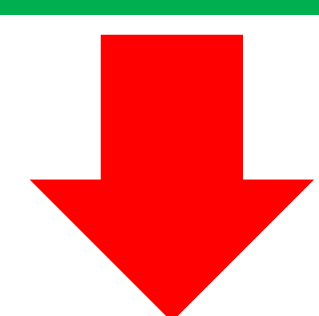
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## 1. Variety selection flowchart

Do you have a paddy field?

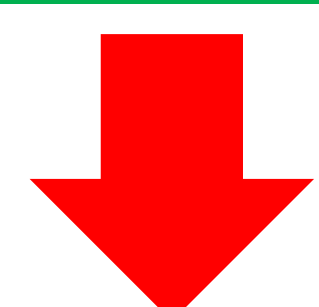


**YES**



**NERICA 1, 4, 10**

Can you keep standing water during the cropping season?

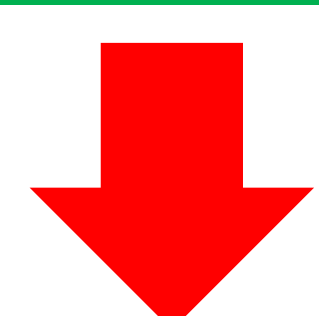


**YES**



**NERICA 4,6**

Are RYMV symptoms observed in your field?

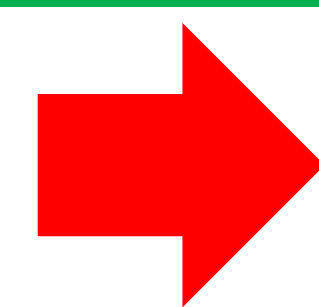


**YES**



**WITA 9, K 85, SUPA**

Is RYMV damage very severe?

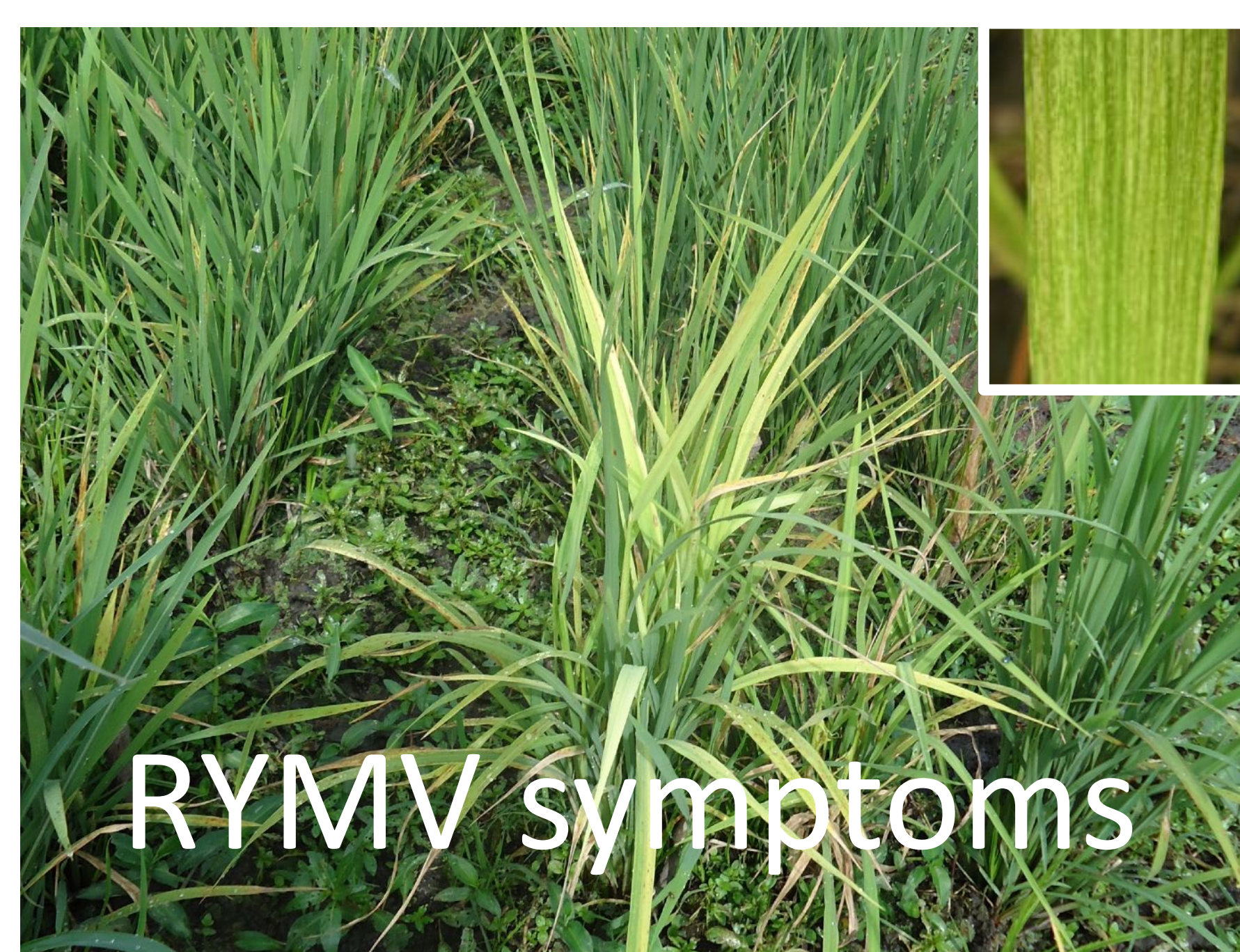


**YES NERICA 6**



**WITA 9**

## 2. Lowland rice variety in Uganda



Variety	Yield	Yield (with RYMV)	Maturity Period	Plant Height	RYMV Resistance
SUPA	15 sack/acre	2 sack/acre	6 months	140 cm	Weak
K 85(Kaiso)	20 sack/acre	6 sack/acre	5 months	90 cm	Weak
WITA 9	20 sack/acre	14 sack/acre	5 months	85 cm	Strong
NERICA 6	15 sack/acre	15 sack/acre	4.5 months	120 cm	Very Strong

# 3. How to raise rice seedlings

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## 1. Seed Preparation

How much seed is needed? 1acre = **15-20kg**



Remove floating empty grains



Soak seeds in the water for 24 - 36hours



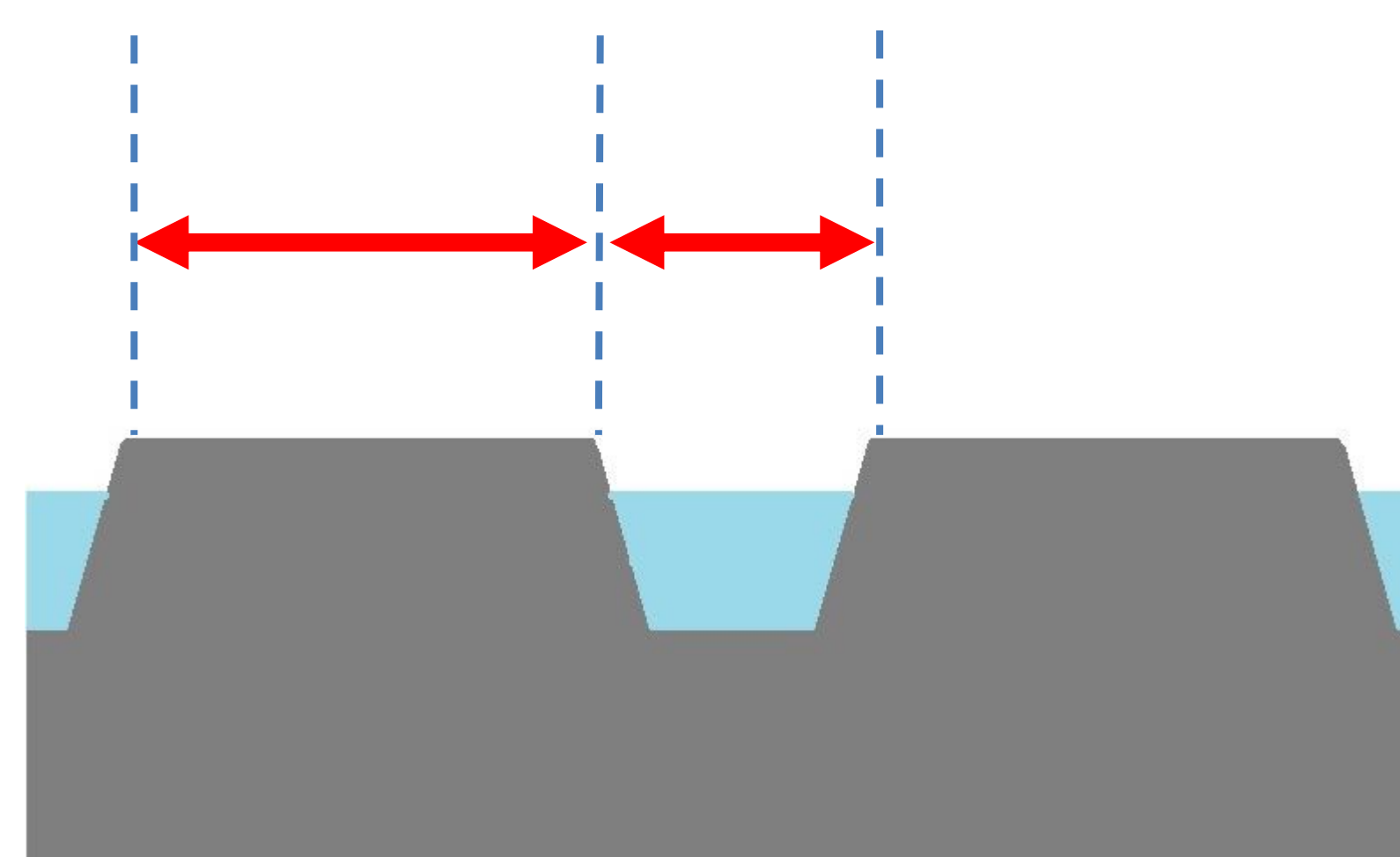
Incubate seeds in the sack for 36 - 48 hours

## 2. How to make nursery bed

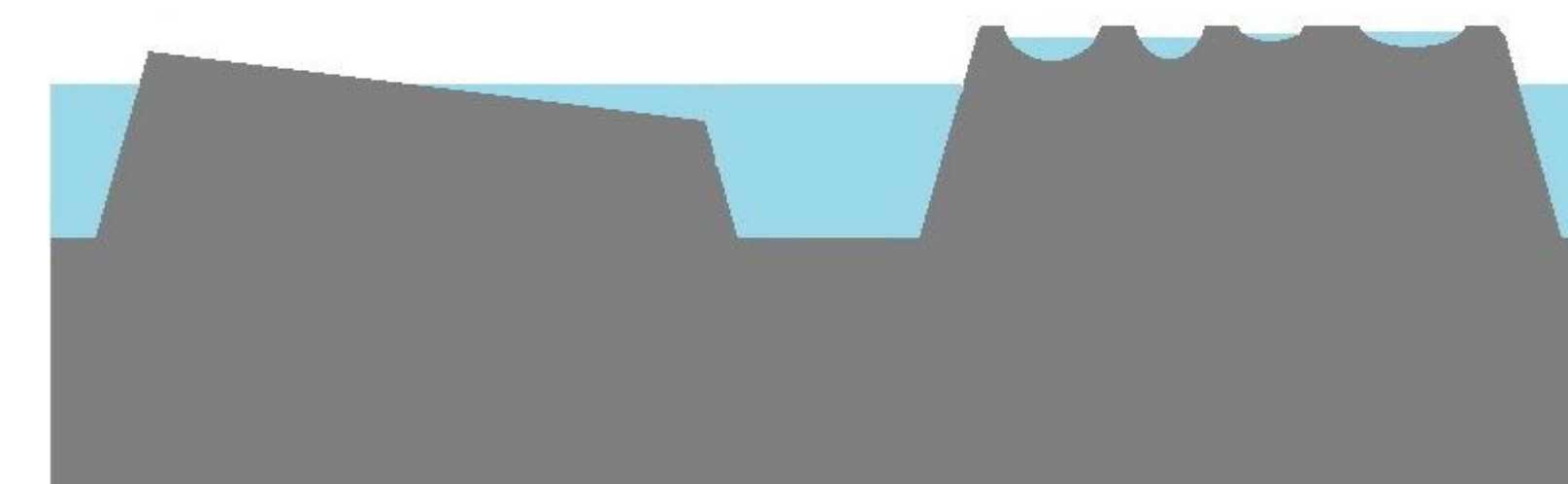
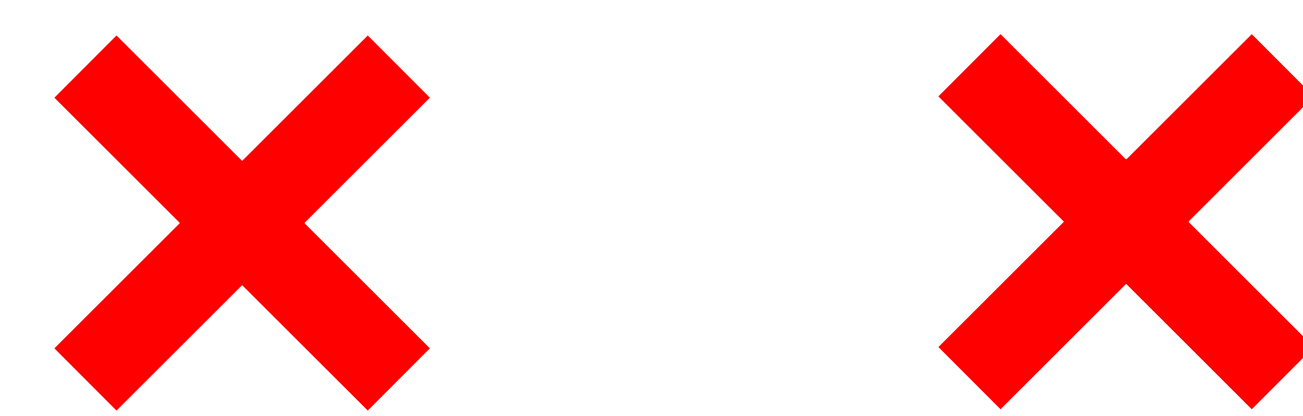


Recommended width

1m 0.4m

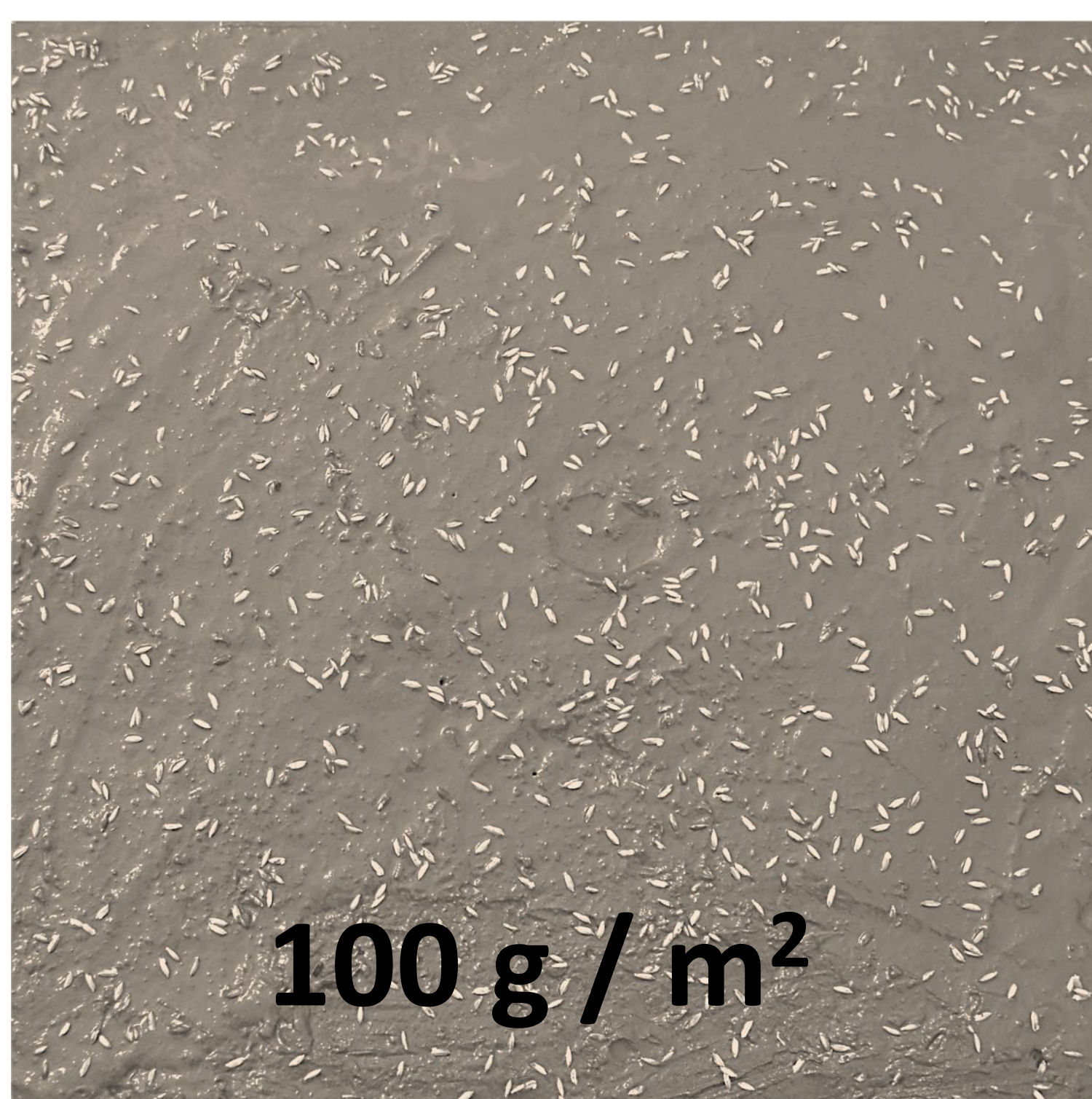


Level and smooth the seedbed surface



## 3. Sowing

Seeding rate for nursery = **100 - 200g / m<sup>2</sup>**



100 g / m<sup>2</sup>



100 g seed



Sow pre-germinated seeds



Cover seeds with soil by pushing seeds down



Cover beds with banana leaves or straw (Remove after emergence)



Seedlings will be ready after 18-21 Days

# 4. How to transplant rice

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## 1. Seedling age

Transplant

**3 Weeks Seedlings**

Old seedlings give you

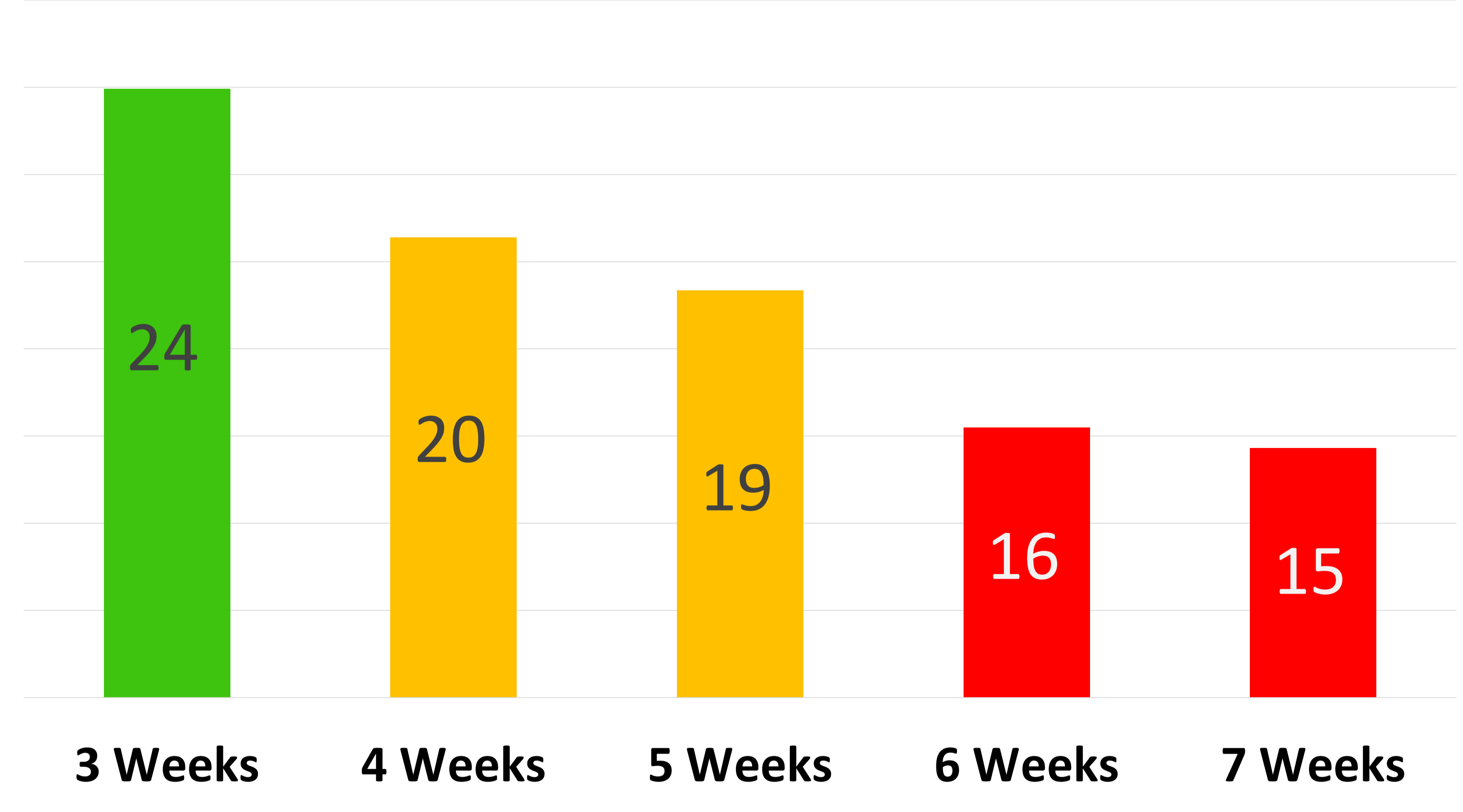
**lower yield**

than young seedlings

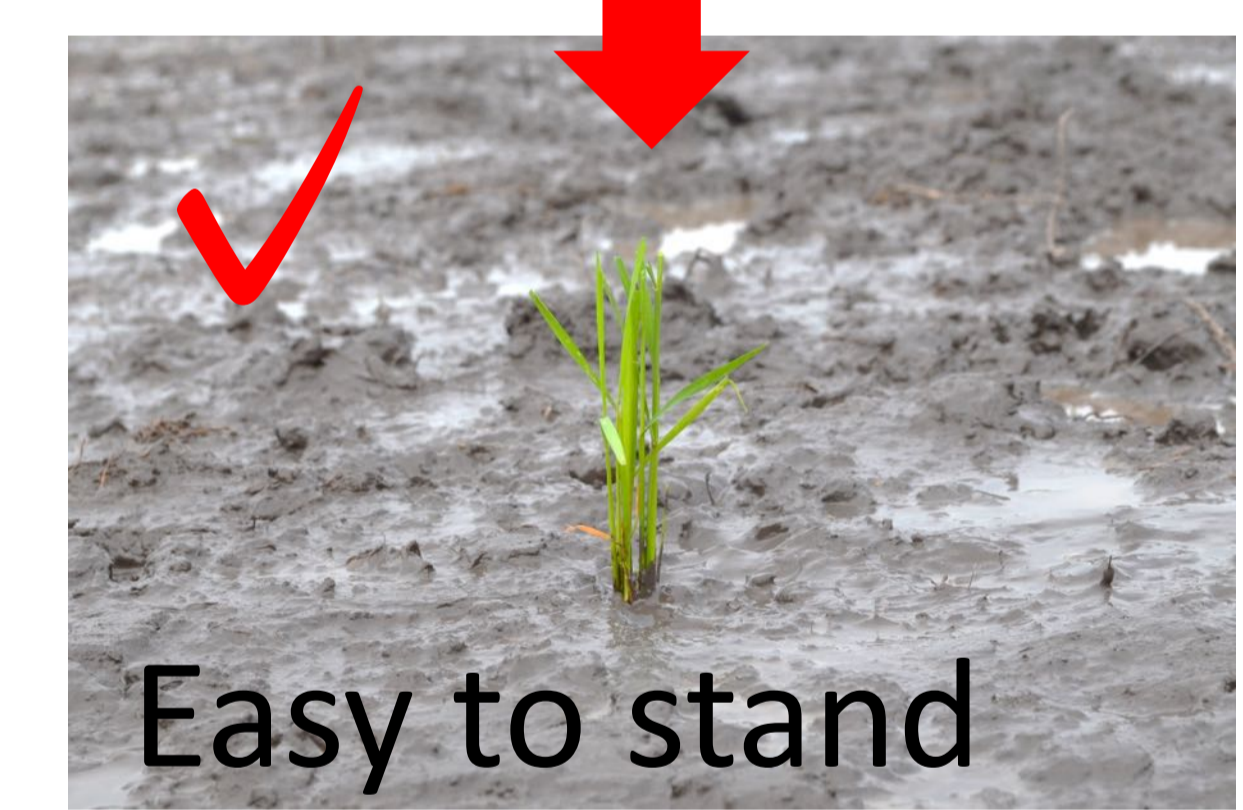
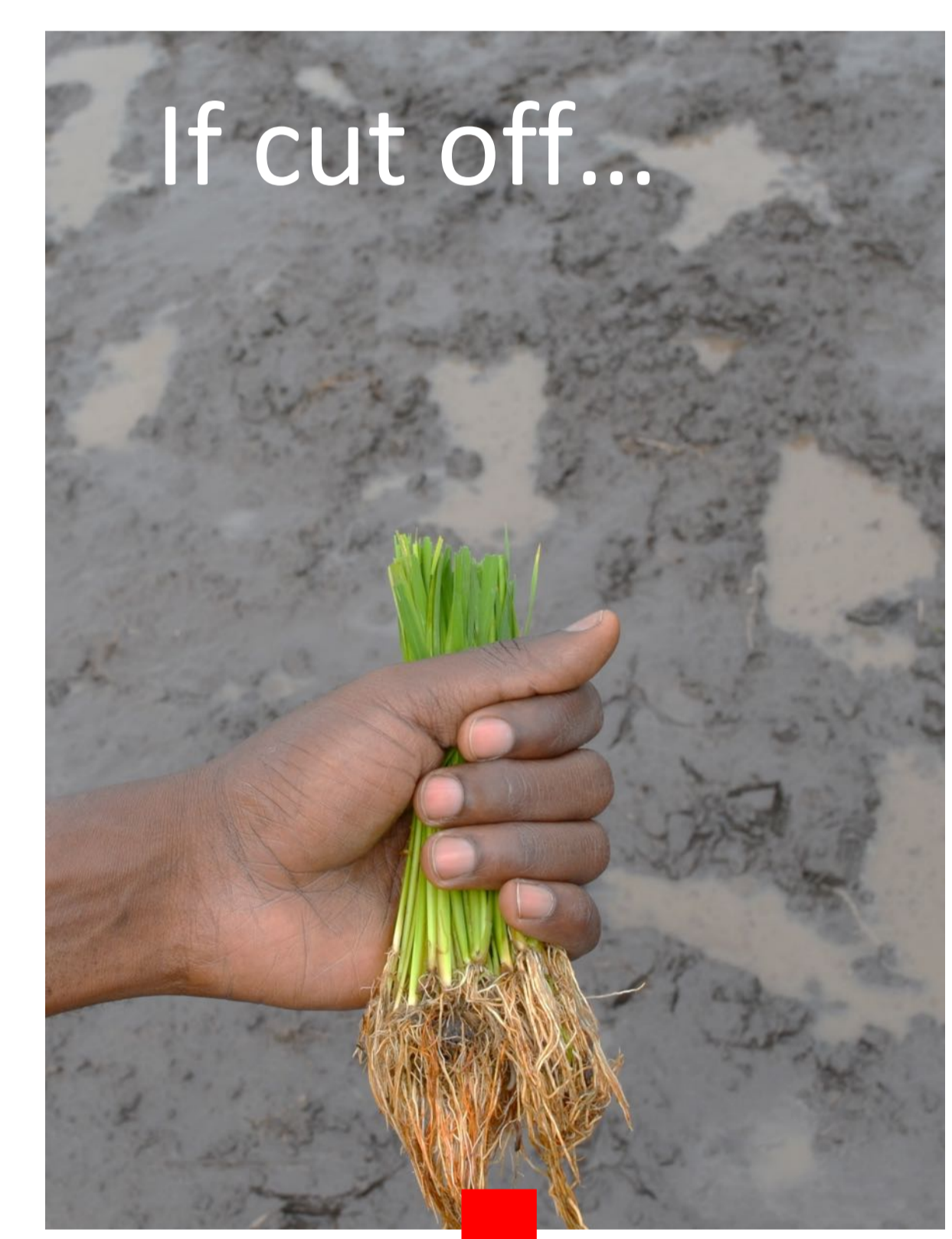
If you delay transplanting 1 day,

**you will lose 28kg/acre.**

Seedling Age and Yield (sacks/acre)



## 2. Transplanting depth



Insert the seedlings **2-4cm** depth

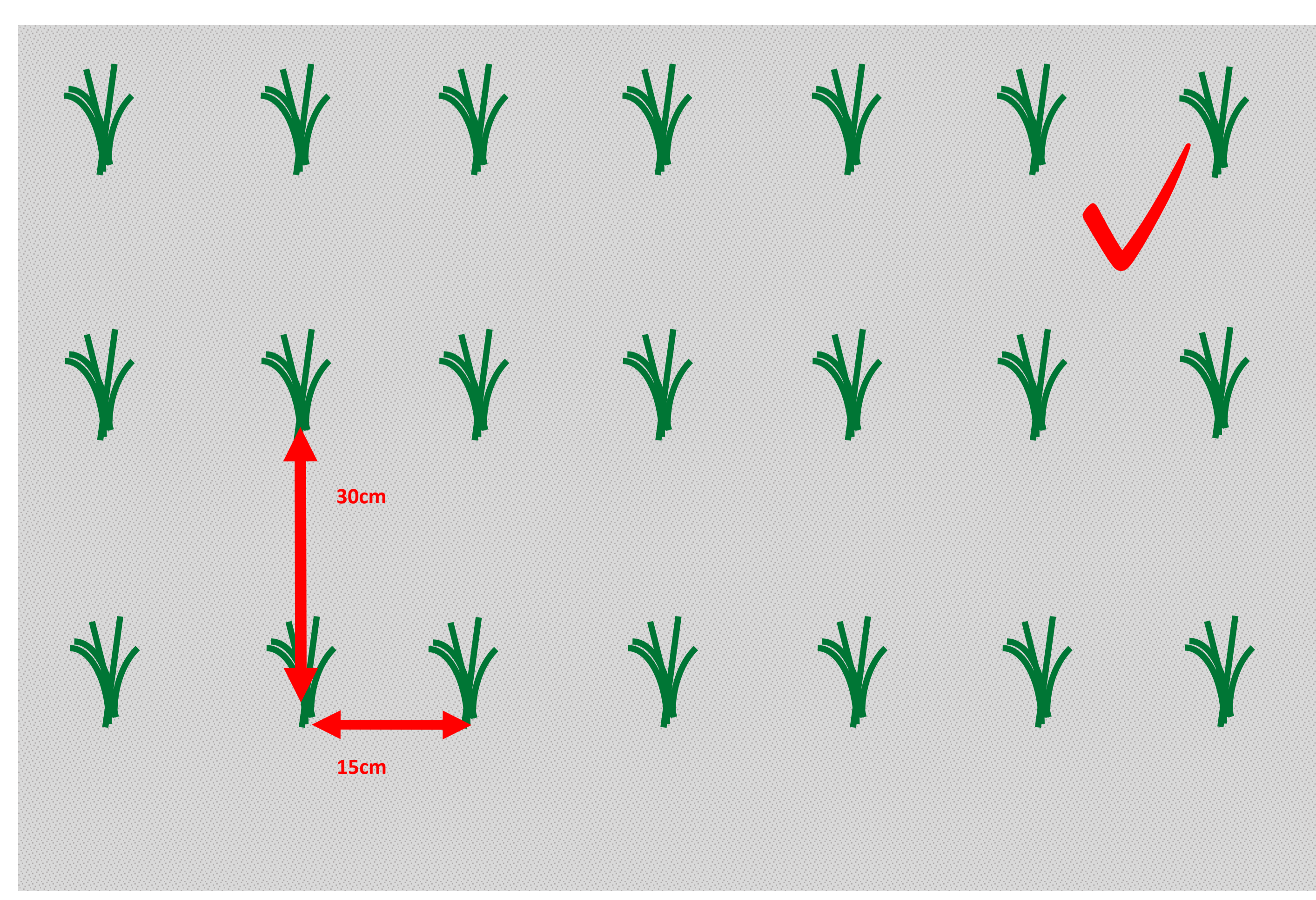
Deep transplanting causes **poor growth**

If the seedlings are too tall to stand, you can **cut off the tip of the seedlings**

## 3. Transplanting density

The optimum spacing: **30cm x 15cm**

The optimum No. of seedling: **3 - 5 seedlings / hill**



↑ Spacing for lowland rice cultivation

↑ Line transplanting using a rope

