

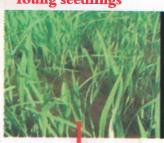
## Six (6) Key Principles to Nursery Bed Preparation for Rice Production

### 1. Proper Timing:

- \* Seedlings should not have more than 4 leaves before transplanting (About 2 weeks after seeding)
- \* Prepare field before preparing seed bed



Too old seedlings







Many tillers High yield



Few tillers low yield

### 2. Select Location:

- \* Near water source
- \* Not under shade
- \* Safe from thieves and animals
- \* Close to your field if possible
- \* With soil that is not too sandy & can retain moisture
- \* With soil reach in organic matter or apply mineral fertilizer



# 3. Use appropriate seed bed size:

- \* 1m x 10m is recommended
- \* Easy to manage
- \* Help to estimate number of nursery bed required for your entire rice field 1seed bed of 10m<sup>2</sup> will plant 500m<sup>2</sup> rice field
- \* Too much nursery bed causes damage to seedlings during transplanting





### 4. Use good quality seed:

- \* Healthy seed \* Well filled seed
- Sorted seed
- Seed from reputable source
- \* You can pre-germinate seed by putting the seed in jute bag, soak in water for few minutes and keep under shade until ready for sowing.



**Use Good Seed** 



Don't use bad seed

### 5. Use appropriate seed density

- \* Plant maximum of 2kg seed on nursery bed of 1m x 10m
- \* Heavy density produces weak seedlings and takes longer time before they are strong enough for transplanting.
- \* Remember old seedlings do not tiller well.
- \* Weak seedlings break easily during transplating
- \* Money is wasted
- \* Weak seedlings takes along time to establish





### 6. General Management Practices.

- \* Break clods and level very well:
- \* Add organic manure or mineral fertilizer
- \* Raise the edges of the seed bed by at least 10cm for good water management
- \* Plant at low density
- \* Cover seeds lightly with soil
- \* Built shelter over it or cover with straws
- \* Water regularly
- \* Remove shelter or straws about 3-5 days after seedling

This guide has been prepared in 2016 for circulation among farmers with funding from African Development Bank (AFDB) through Small Holders Agricultural Productivity Enhancement and Commercialization (SAPEC) Project. Implemented by Africa Rice Centre in Liberia.