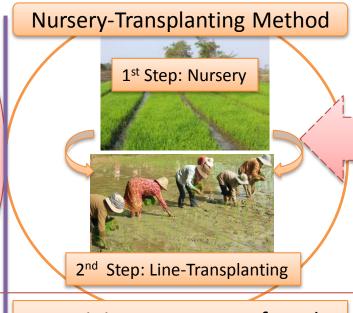


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1 Drumseeding's merits (A main field become a big nursery!)

Pls. think of your own situations to apply which Method to be better?





Drumseeding Method

Growth

Use Minimum amount of seed and seedling grows bigger, Easy Field Management on Weeding & Fertilizer Application,

More seed is needed for planting. Due to high density, seedling may grow smaller than Nursery-Transplanting method

Economy

High growth per seedling could lead to High Income per unit land area

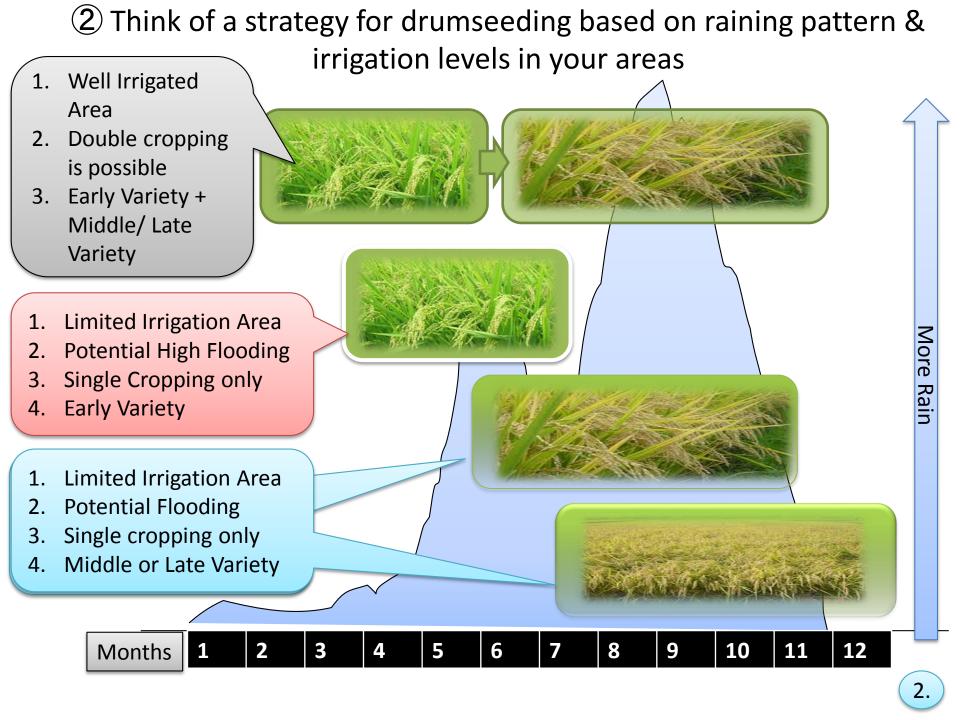
Line-planted effect may lead to high yield resulting high profit for low cost operation

Constraints

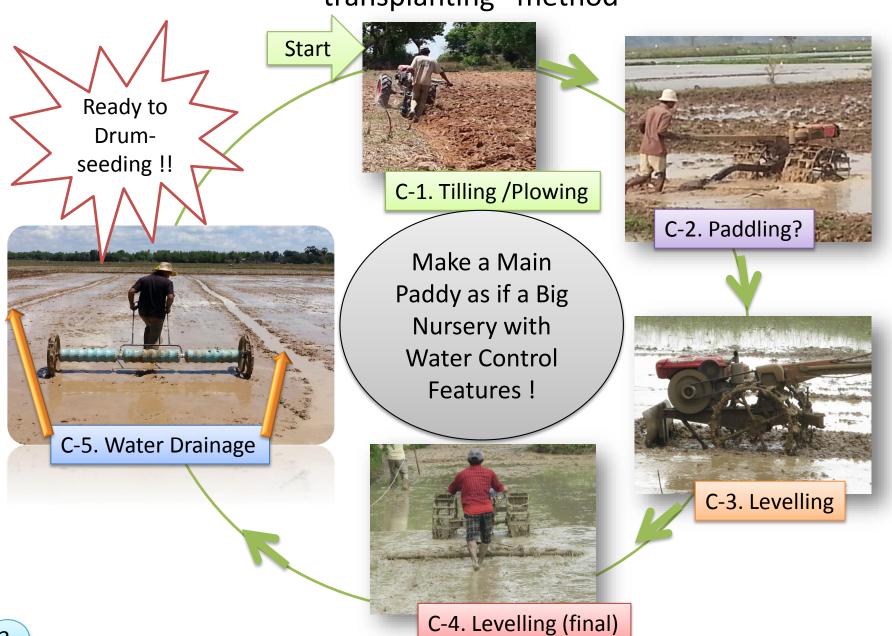
Time & labor consuming could result in less profit

Need to obtain a drumseer which is costing 70-80 USD/Unit as of Nov. 2013

1.



3 Land Preparation, this process is same as "Nurserytransplanting" method



4. What is Drum Seeder?

Drum seeder is "Man-operated semi-automatic rice seeding tool.

A drum to hold and drop seed

Handle:
Pulling by arms
and /or one can
be inside to
draw it as if
"RickShaw"

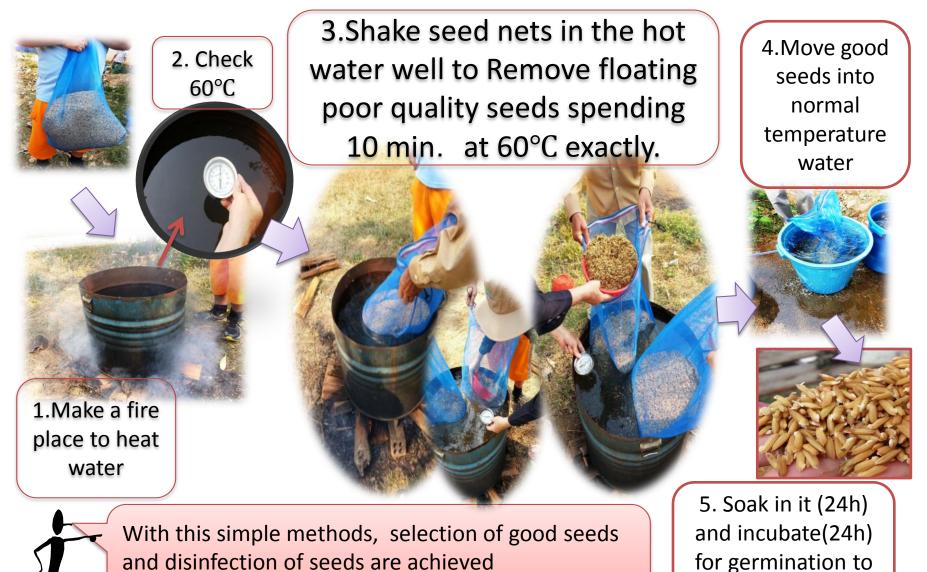
Holes to drop seed

A lid of drum for open & close

This joint part is most easily be broken after many times of use. Be ready to repair.

A cover belt of holes: In this type of drum seeder, there are two different holes, one with many and the other with less, to adjust dropping rate of seeds thus controlling seeding amount. This belt can be slid sideway

⑤ Seed treatment 2-3 days before drumseeding



seed

and disinfection of seeds are achieved simultaneously!!

5.

6 Seeding amount and its dropping rate adjustment

A. Which level of germination good for drum-seeding?



Ideal for Drumseeding

How to prepare: After the seed treatment, soak the seed in water for 24h and take it out, drain and incubate using a sack for 24h



Grown too much, may get stack on the hole

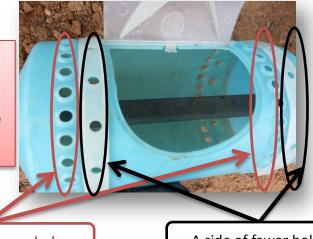
No Good!

Seeds under Incubation



Which side of holes to open?

В.



A side of more holes

More seeding amount (60-80 kg/ha)

To be used under following conditions:

- ✓ Poor quality seed
- ✓ Poor water condition
- √ Poorly levelled paddy
- ✓ Poor weed management

A side of fewer holes

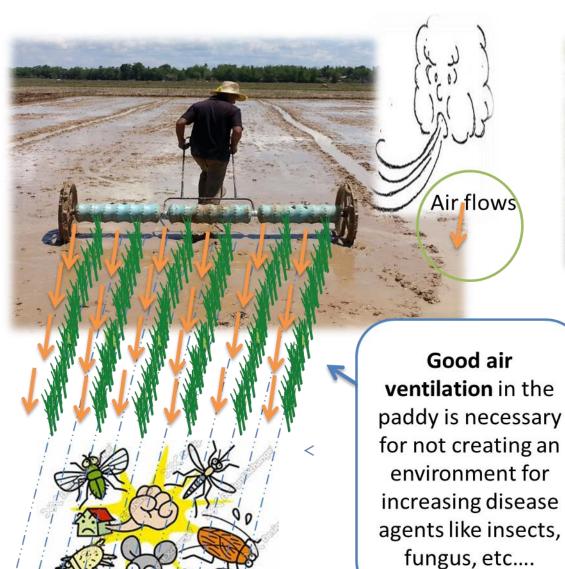
Less seeding amount (40-60kg/ha)

To be used under following conditions:

- ✓ Good quality seed
- ✓ Good water condition
- ✓ Well levelled paddy
- Good weed management

Never open the two sides at the same time, resulting in losing the good effects of "Line-Planting" & seeding too much! . Its opening & Closing is done by a plastic cover which can slide to either direction..

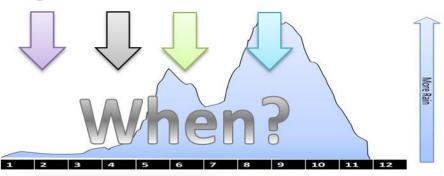
7 The goal is to achieve "Line-Planting Effect" by drum-seeder



Use a leading strings to follow to make straight line-drumseeding. This can achieve a good effect of ventilation and spacing for good rice growth and disease prevention.

8 Risk management

1. Choose a best timing to drumseed!



Secure a source of water under draught



Drain water under flooding





Prepare a supplemental nursery



8 Risk Management(2)

5. Fertilizing the main paddy to promote growth

6.

Weed regularly to help healthy growth of rice plants



Basal Fertilizer during land preparation

DAP 50kg/ha



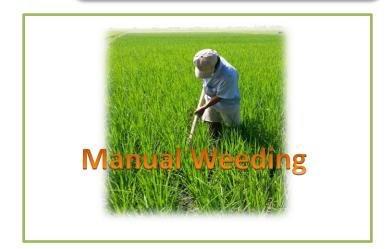
1st additional UREA after transplanting 20 – 25 day

UREA 50kg/ha



2ndadditional UREA after Panicle initiation (PI)

UREA 50kg/ha





8.

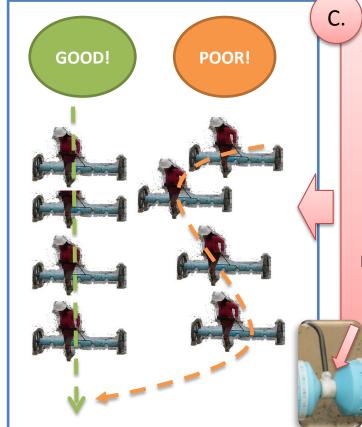
Take care of "Drum seeder"



As a Drumseeder is almost made of plastic, it is safe and very important to wash and remove soil right after its use, and keep it in dry place (not under direct sunshine). A careful use of it should prolong its functionality without major breakdowns for several to many years.



B. Do not feed too much wet seed into the plastic drums. The wet seed is heavy and stuck on the holes. The heaviness may break some of the seeder's joints.



The joint part in the picture below is most forcibly twisted if the drawer pulls drumseeder not in straight line, resulting in tearing.

10 How to obtain "Drum seeder"

Name of Supplier	Address/Contacts	Prices offered (As of/)

➤ The Project (APPP) is not responsible for the availability of "Drumseeder" and is not assuring their prices. This is only to share the information for anyone who are willing to purchase the tool. Hence, the information here maybe different when ones contact them.