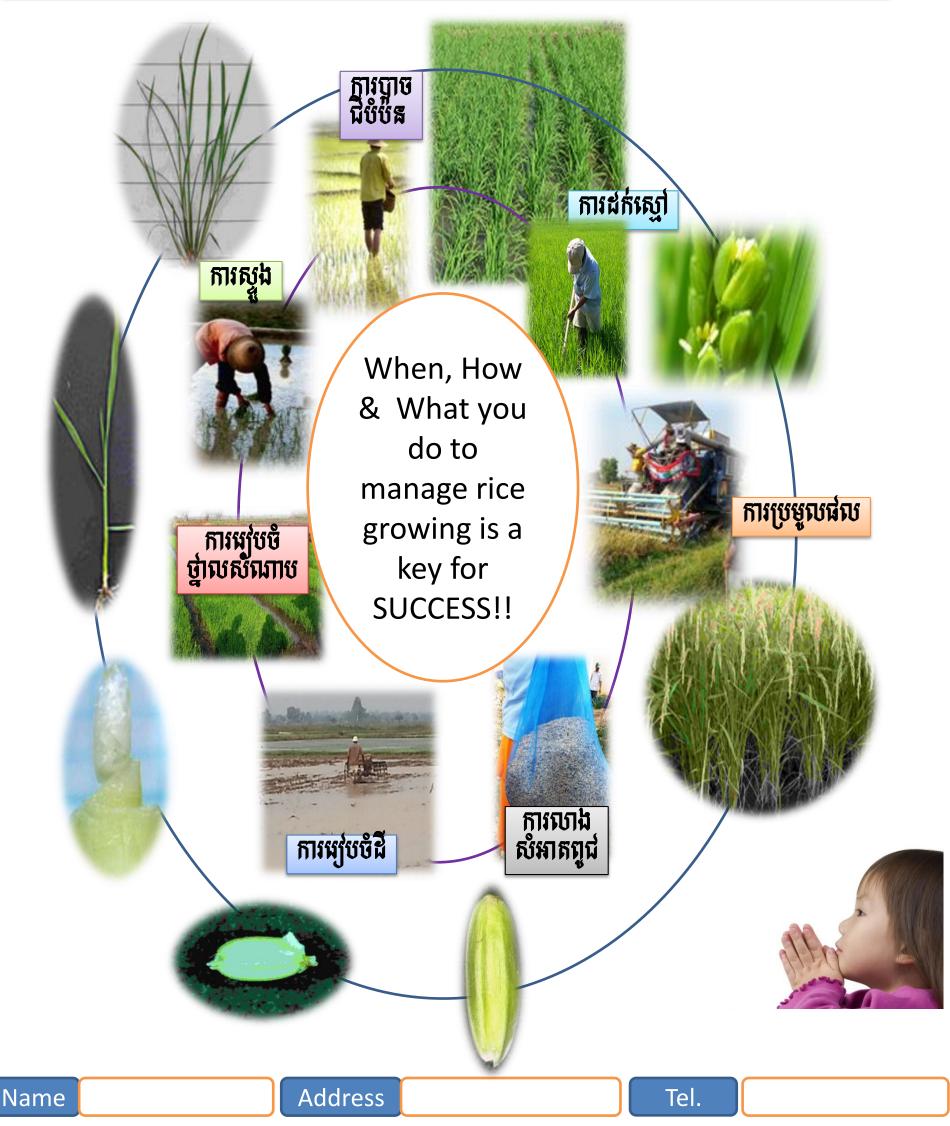
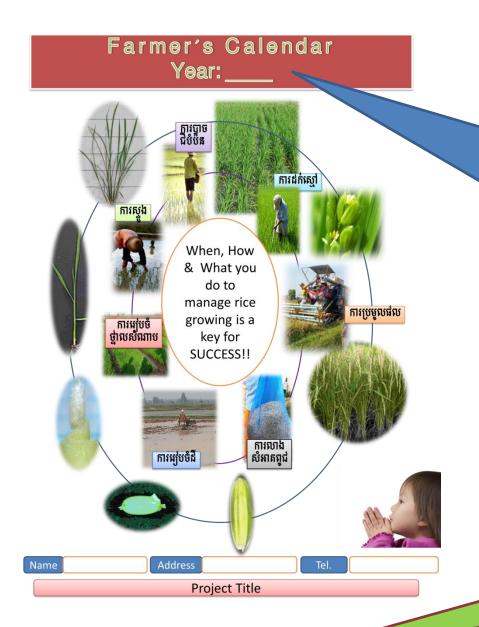
# Farmer's Calendar Year:





# How to use "Open" calendar



Write your "Year"

If it is 2015,

Year:2015.

Write the "month" to specify.

MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY SUNDAY

WEEK 1

WEEK 2

WEEK 3

WEEK 4

WEEK 5

Relation among Income, Expense and Profit

Expense

Seeds 1 Kg
1,500 Riel

1 Kg
1,500 Riel

1 Kg
1,500 Riel

1 So, this is your profit you show they much money you spend to produce the 1st of profit you show they much money you spend to produce the 1st of profit you show they much money you spend to produce the 1st of profit you spend to profit you spend to

Write your number for date.
If it is January, dates of January.

# First of all, what is this calendar for?

- Purpose: To increase your net income (Profit) by removing wastings that can be checked and noticed through the records of various spendings necessary to gain income for you and your family to lead a life and a better life.
- Method: To calculate and evaluate the difference between every/daily spending necessary to produce rice including materials, equipment, maintenance costs and so on, and the income gained by sale of rice. The point is that if you can see, notice and apply a better way to manage on your daily farming activities for future years from the experiences happened in the past.

# HOW TO RECORD (Example 1)

# PADDY RECORD (Cultivation Plan)

	PADDY Area (ha)	Dry	/ season (1º	<sup>st</sup> Crop)	Wet season (2 <sup>nd</sup> Crop)			
PADDY		Variety	Planting Method	Harvest (kg)	Variety	Planting Method	Harvest (kg)	
Paddy A	0.5 ha	IR66	D.S.	2000	PRD	N-T	2500	
Paddy B	0.7 ha	CLS	D.S.	2500	RC	M-B	2000	
Paddy C	0.2 ha				PRD	M-B	1000	
TOTAL	1.4 ha			4500 kg			5500 kg	

Attention: D.S.:Drumseeder, N-T:Nursery-Transplanting, M-B:Manual Broadcasting

paddies away from each other, pls write them all in the table as shown.
Then, think of your rice cultivation plan of the year 2014.
The harvest yield is finally recorded after each harvesting.

Paddy A (0.5ha)

Paddy B (0.7ha)

Paddy C (0.2ha)

# PADDY RECORD (Cultivation Plan)

	0.110.0	Dry	season (1 <sup>s</sup>	<sup>st</sup> Crop)	Wet season (2 <sup>nd</sup> Crop)			
PADDY	Area (ha)	Variety	Planting Method	Harvest (kg)	Variety	Planting Method	Harvest (kg)	
TOTAL								

paddies away from each other, pls write them all in the table above.
Then, think of your rice cultivation plan of the year 2014.
The harvest yield is finally recorded after each harvesting.

Paddy A (0.5ha)

Paddy B (0.7ha)



Paddy C (0.2ha)

# HOW TO RECORD (Example 2)

### EVERYDAY RECORDs

MARCH 2014								
2 Fertilizer (DAP) 2 bags, R200,000	3	4 Diesel 5L, R24,000						
8 Repair Tractor R10,000	9 Labor (Paddy A Preparation) R40,000	10 Chemical (insect killer) R40,000						

APRIL 2014								
	12	13	14					
	Water supplied to Paddy A & B							
	23	24	25					
		Rent tractor to do paddling & leveling (paddy A & B)	R 200,000 for Rent Tractor					

# MAY 2014 1 2 3 Transplanting to paddy A & B 8 9 10 Gasoline 10L, R480,000 paid for pumping water 5days

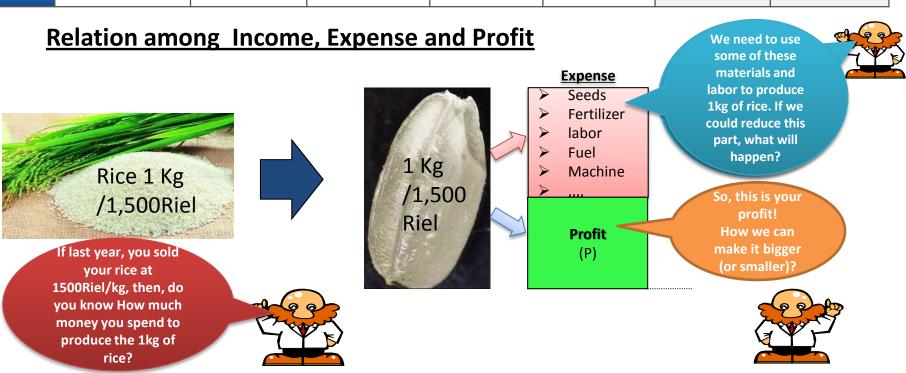
	12	13	14							
	Н	arvesting with								
		Paddy A & I								
	21	22	23							
Sold	paddy		R400,000							
4tons	s to Rice		Paid for							
mille	r at		machine							
R4Mi	llion		harvesting							

Pls. remember to record every time when you did, buy, pay something related to rice farming.

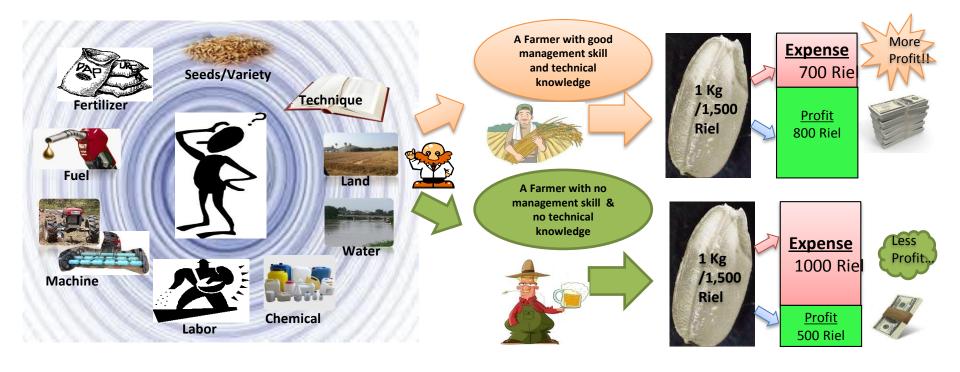
Because we forget it easily!



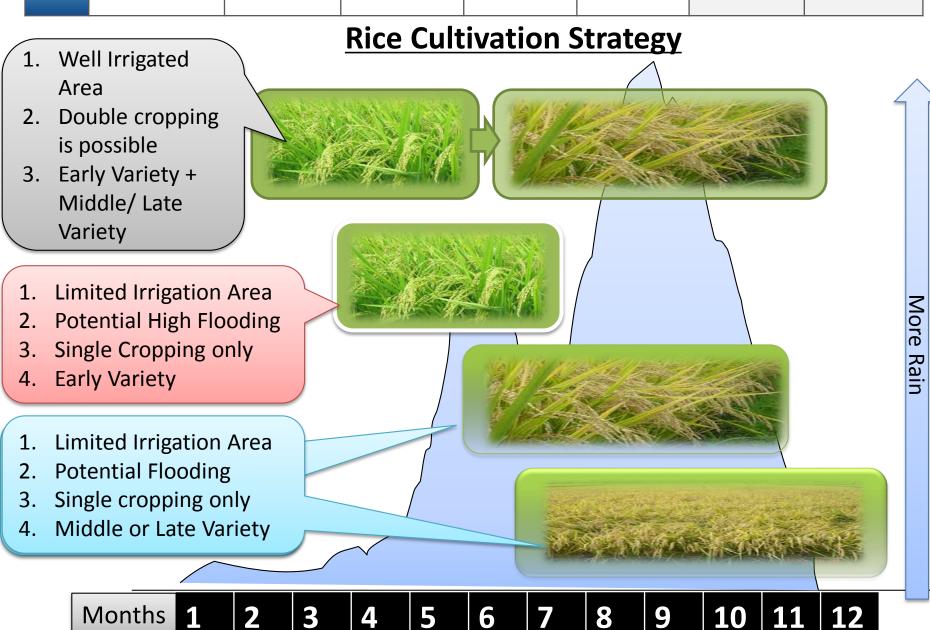
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1							
WEEK 2							
WEEK 3							
WEEK 4							
WEEK 5							



### Farmer as a "Manager" what you can do?



	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1		1	2	3	4	5	6
WEEK 2	7	8	9	10	11	12	13
WEEK 3	14	15	16	17	18	19	20
WEEK 4	21	22	23	24	25	26	27
WEEK 5	28	29	30				





Think of a strategy for rice growing based on rainfall pattern & irrigation levels in your areas!!

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1		1	2	3	4	5	6
WEEK 2	7	8	9	10	11	12	13
WEEK 3	14	15	16	17	18	19	20
WEEK 4	21	22	23	24	25	26	27
WEEK 5	28	29	30				

**Importance of water management** 

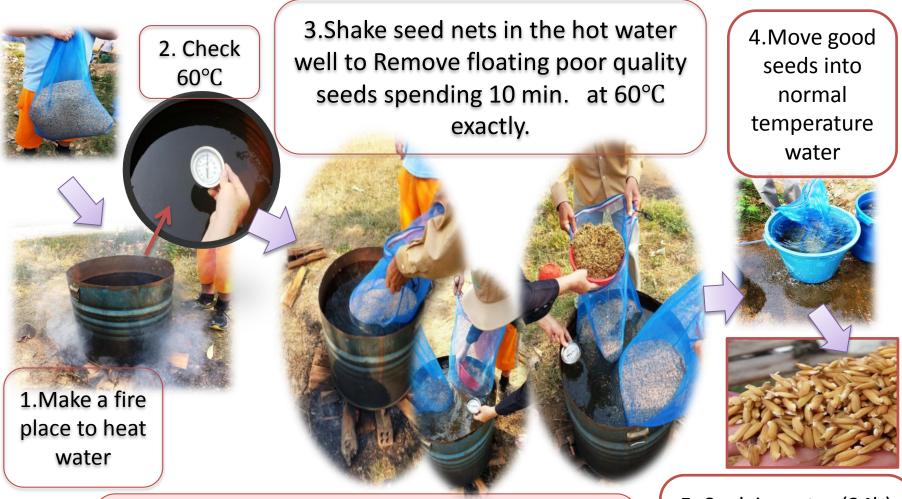
**Under No Irrigation Under Available Irrigation** Create your Keep canal clean! own water source! Drain water Supplement Water Rainy Supplement Water Season: grow fish Dry នត្លារជ្ជម្រិរ Season: catch fish, Also possible! Typical Rainfall Patten in Cambodia SI 12 5 11 **12** 2 3 4 6 10



Try to improve your water supply system during DRY SEASON!! Because it is easy to manage due to no rain.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1		1	2	3	4	5	6
WEEK 2	7	8	9	10	11	12	13
WEEK 3	14	15	16	17	18	19	20
WEEK 4	21	22	23	24	25	26	27
WEEK 5	28	29	30				

### **Seed Treatment Technique (2-3 days before sowing)**



With this simple method, selection of good seeds and disinfection of seeds are achieved simultaneously!!

5. Soak in water (24h) and incubate(24h) for germination to seed (Under hot condition)

Conduct Seed Treatment 2-3 days before nursery seeding, drumseeding and/or manual broadcasting

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1		1	2	3	4	5	6
WEEK 2	7	8	9	10	11	12	13
WEEK 3	14	15	16	17	18	19	20
WEEK 4	21	22	23	24	25	26	27
WEEK 5	28	29	30				

### **Nursery bed making(3-4 weeks before transplanting)**





Adding organic matters



Adding Rice Husk Charcoal



Fertilizing Bed(DAP)



Leveling surface of bed



Mixing soil on bed



Sowing germinated seed



400-500m<sup>2</sup> of nursery area may be needed for 1 ha.

Estimate of 40-50kg of good seed is needed for 1ha of Main paddy

Pls. maintain water level ideal 2-5cm of seedlings, no drying up. Observe well to find out disease symptons

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1		1	2	3	4	5	6
WEEK 2	7	8	9	10	11	12	13
WEEK 3	14	15	16	17	18	19	20
WEEK 4	21	22	23	24	25	26	27
WEEK 5	28	29	30				

### Main Land Preparation & Leveling(1week before transplanting)



Plowing Paddy



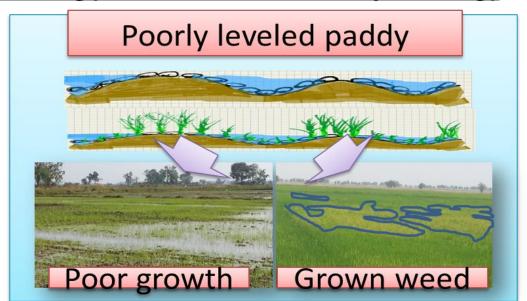
Tillering in water

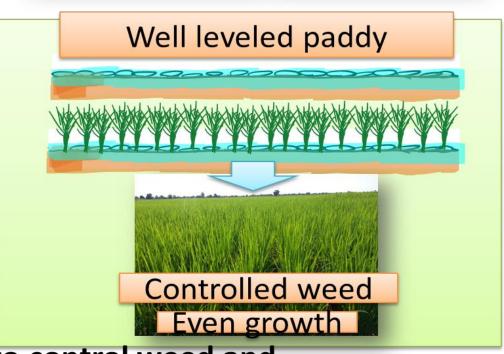


Rough Leveling



Fine Leveling

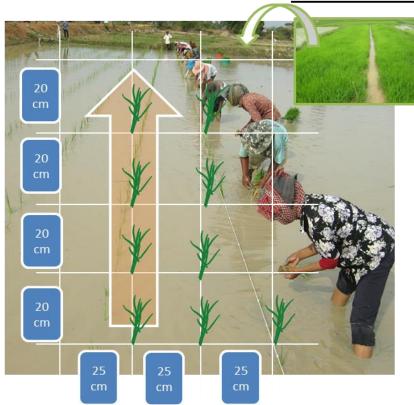


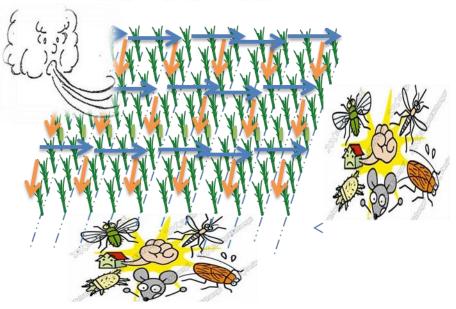


Distribute water evenly to control weed and achieve uniformed growth of paddy!!

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1		1	2	3	4	5	6
WEEK 2	7	8	9	10	11	12	13
WEEK 3	14	15	16	17	18	19	20
WEEK 4	21	22	23	24	25	26	27
WEEK 5	28	29	30				







### Proper planting method

- Use properly grown seedlings from nursery (21days growth),
- Use a line to plant straightly,
- Keep plant-to-plant spacing at 20cm x 25 cm,
- Plant 2-3 seedlings per hill, not many such as 4-10 seedlings.

### Effect of line-transplanting

- Seedling grow well in a best spacing by line-planting,
- Good ventilation for preventing disease agents, effective use of fertilizer, fast growth of seedling,
- Easy to do weeding to promote rice growth.

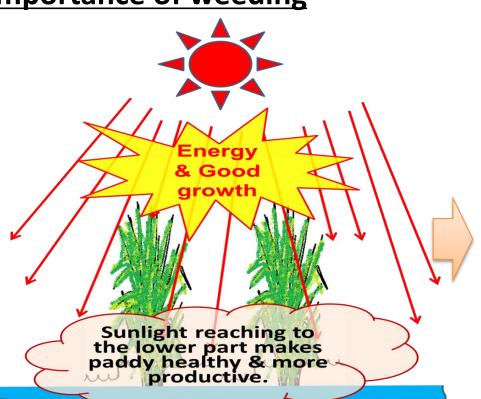
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1		1	2	3	4	5	6
WEEK 2	7	8	9	10	11	12	13
WEEK 3	14	15	16	17	18	19	20
WEEK 4	21	22	23	24	25	26	27
WEEK 5	28	29	30				

### **Importance of weeding**

A Farmer with **Proper weeding** practice









More

A Farmer with No weeding practice









	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1		1	2	3	4	5	6
WEEK 2	7	8	9	10	11	12	13
WEEK 3	14	15	16	17	18	19	20
WEEK 4	21	22	23	24	25	26	27
WEEK 5	28	29	30				

### Fertilizing the main paddy to promote growth



Basal Fertilizer during land preparation

DAP 50kg/ha

Pls. make sure paddies are under water



1stadditional UREA at 30 days later the Transplanting

UREA1 50kg/ha



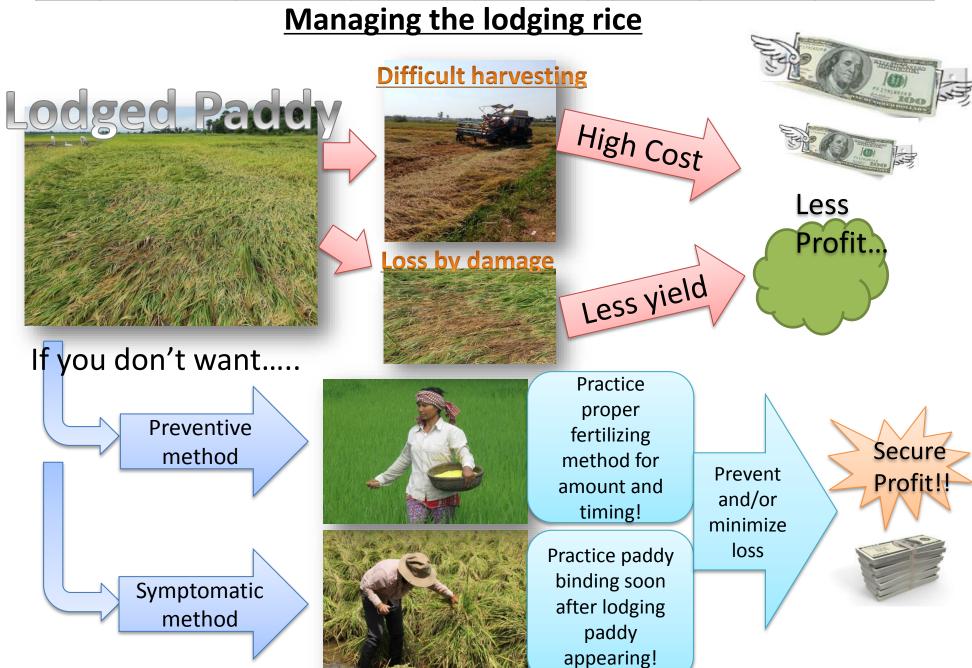
2<sup>nd</sup>additional UREA after Panicle initiation (PI)

UREA2 50kg/ha



Think of the best timing for fertilizing to maximize the growth of your rice!!

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1		1	2	3	4	5	6
WEEK 2	7	8	9	10	11	12	13
WEEK 3	14	15	16	17	18	19	20
WEEK 4	21	22	23	24	25	26	27
WEEK 5	28	29	30				





This is a critical stage for managing good quality rice before harvesting soon. So, it needs to manage it!

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1		1	2	3	4	5	6
WEEK 2	7	8	9	10	11	12	13
WEEK 3	14	15	16	17	18	19	20
WEEK 4	21	22	23	24	25	26	27
WEEK 5	28	29	30				

### Importance of renewing paddy by properly grown seeds

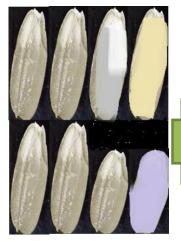
A Farmer with regular paddy renewal practice by using legitimatelysourced seeds

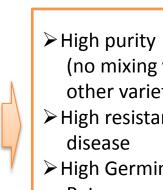


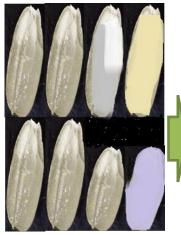
A Farmer with continuous use of own paddy as seed for coming years











- (no mixing with other varieties)
- ➤ High resistance to
- ➤ High Germination Rate



- ➤ Low purity (mixed with other varieties)
- ➤ Poor resistance to disease
- ➤ Poor Germination Rate





At least, renew your paddy every 2-3 years to avoid risk of deteriorated quality and poor productivity of paddy resulting in lowered profit!

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
WEEK 1		1	2	3	4	5	6
WEEK 2	7	8	9	10	11	12	13
WEEK 3	14	15	16	17	18	19	20
WEEK 4	21	22	23	24	25	26	27
WEEK 5	28	29	30				

### **Contact Information of APPP/JICA Supported Seed Growers**

Province	Name	of SGG	Contact Person & Tel. No
		SAMAKI SEED in Banan	Mr.Tong Simon: 088-488-8523 Mr.In Suon: 053-662-9696
Battam- Bang		SAMAKI SEED in M.Russei	Mr.Moul Meun: 089-359-995 Mr.Hou Pen: 053-631-1889 Ms. Pheung Vy: 092-875-673
		SAMAKI SEED in Bavel	Mr.Houl Khlim: 012-675-589 Mr.Seun Buntheun: 012-402-381 Mr.Srey Kov: 092-954216
Pursat	Apadeus Andreas (Apadeus Apadeus Apadeus (Apadeus Apadeus Apadeus Apadeus Apadeus (Apadeus Apadeus Apadeus Apadeus (Apadeus Apadeus (Apadeus Apadeus (Apadeus Apadeus (Apadeus Apadeus (Apadeus	TAS-PDA	Mr.L. Chendamony:012-879-877 Mr.H.Chandara: 012-635-409
K. Chhnang	25 PAD I	Phnom Touch SAMAKI SEED	Mr.Meas Soeurn: 012-681-523 Mr.Kheb Bou: 092-358-997 Ms.Kae Khan: 017-435-165



These seed growers all follow the seed production guideline introduced by APPP/JICA and use legitimate rice variety lines originally obtained from CARDI\*. You can contact them to get your new seeds. \*CARDI:\_\_\_\_\_\_

# Expenditure & Income (1)

### **Expenditure Table(1)**

<u> </u>		e labie(1)			
Date	Item	Amount Spent(Riel/Bath/\$)	Date	Item	Amount Spent(Riel/Bath/\$)
			<u>Expe</u>	nse T	otal:



Transfer monthly records to fill in the items above to calculate and find out your "Profit" from this year!! Pls. reflect what happened in this year to make an improved rice growing in next year!!

# Expenditure & Income (2)

### **Expenditure Table(2)**

-xpc	<u> </u>	e labie(2)				
Date	Item	Amount Spent(Riel/Bath/\$)	Da	te li	tem	Amount Spent(Riel/Bath/\$)
			E.v.	<b>n</b> on	T.	n+al.
			<u>CX</u>	pen:	<u>se 10</u>	otal:



Transfer monthly records to fill in the items above to calculate and find out your "Profit" from this year!! Pls. reflect what happened in this year to make an improved rice growing in next year!!

# Expenditure & Income (3)

**Expenditure Table(3)** 

Date	Item	Amount Spent(Riel/Bath/\$)	Date	Item	Amount Spent(Riel/Bath/\$)
			Exper	nse Tot	cal: (3)
				ne Tab	
			Date	Item	Amount gained(Riel/Bath/\$)
			Incon	ne Tota	
				ne Tota	
			Prof	it:	
			Prof	it:	otal-Expense Total=
			Prof	it:	

Transfer monthly records to fill in the items above to calculate and find out your "Profit" from this year!! Pls. reflect what happened in this year to make an improved rice growing in next year!!

# Contact Info. Of Personnel Involved in APPP/JICA(2010.10-2015.03)

Province PDA	Persons	Contact

District	Persons	Contact
	District	District Persons

If you have any technical questions, find an extension officer in your province & district from above contacts and call, who should be able to answer your questions as they have been involved and experienced very well through APPP/JICA project

APPP/JICA MAFF JICA from 2010.10-2015.03 HOLY XONDOLO HOLY Pilot SSUINOID Group 191130 Activity 0733913 NOISUSIX3 "APPP Synergy Effect" FFS-Seed Demo Growing Farmer Activity Activity DDA(BTB-PS-KC) PDA(BTB-PS-KC) FFSrecommended cultivation techniques (APPP/JICA) Bapep Вар