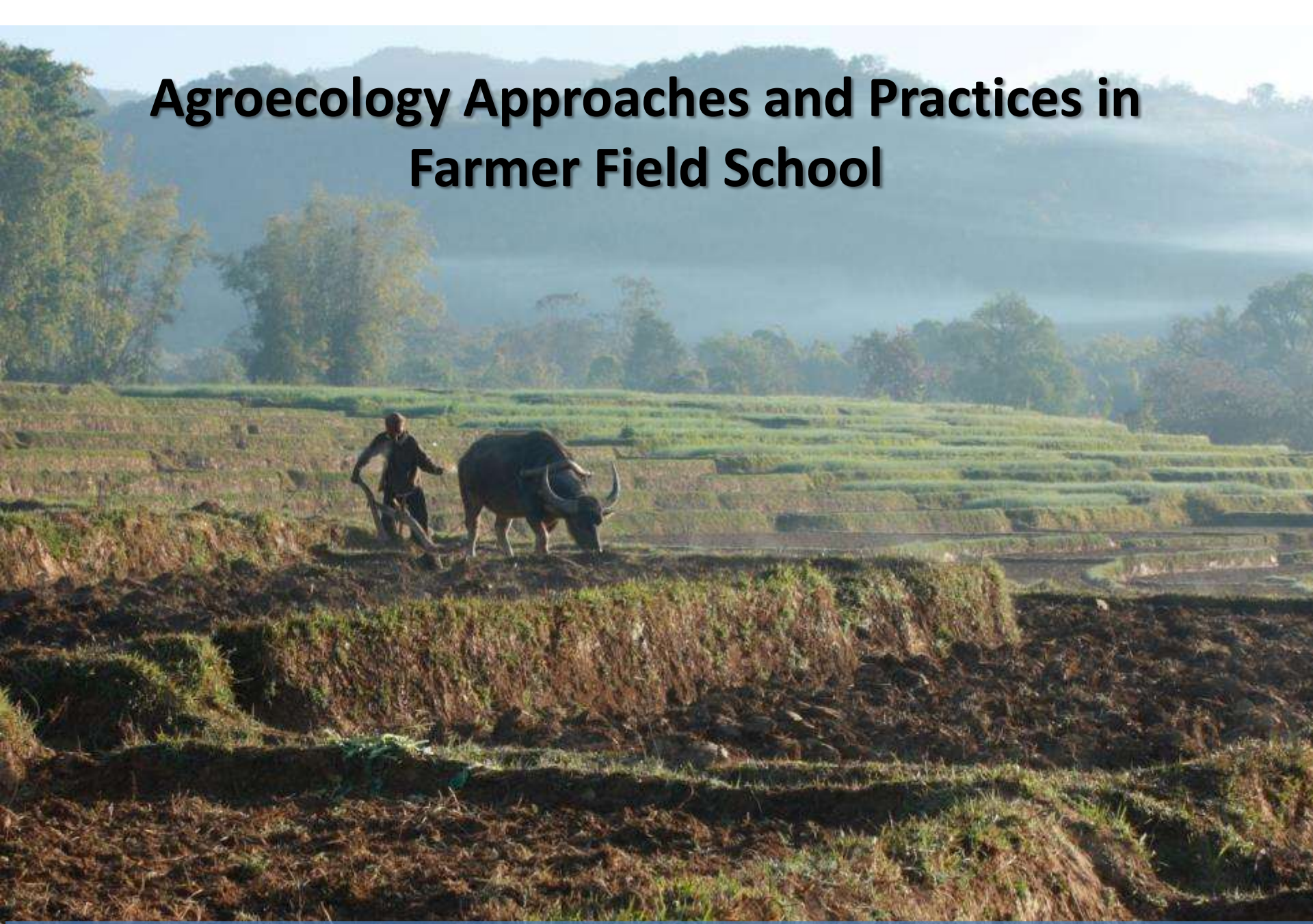


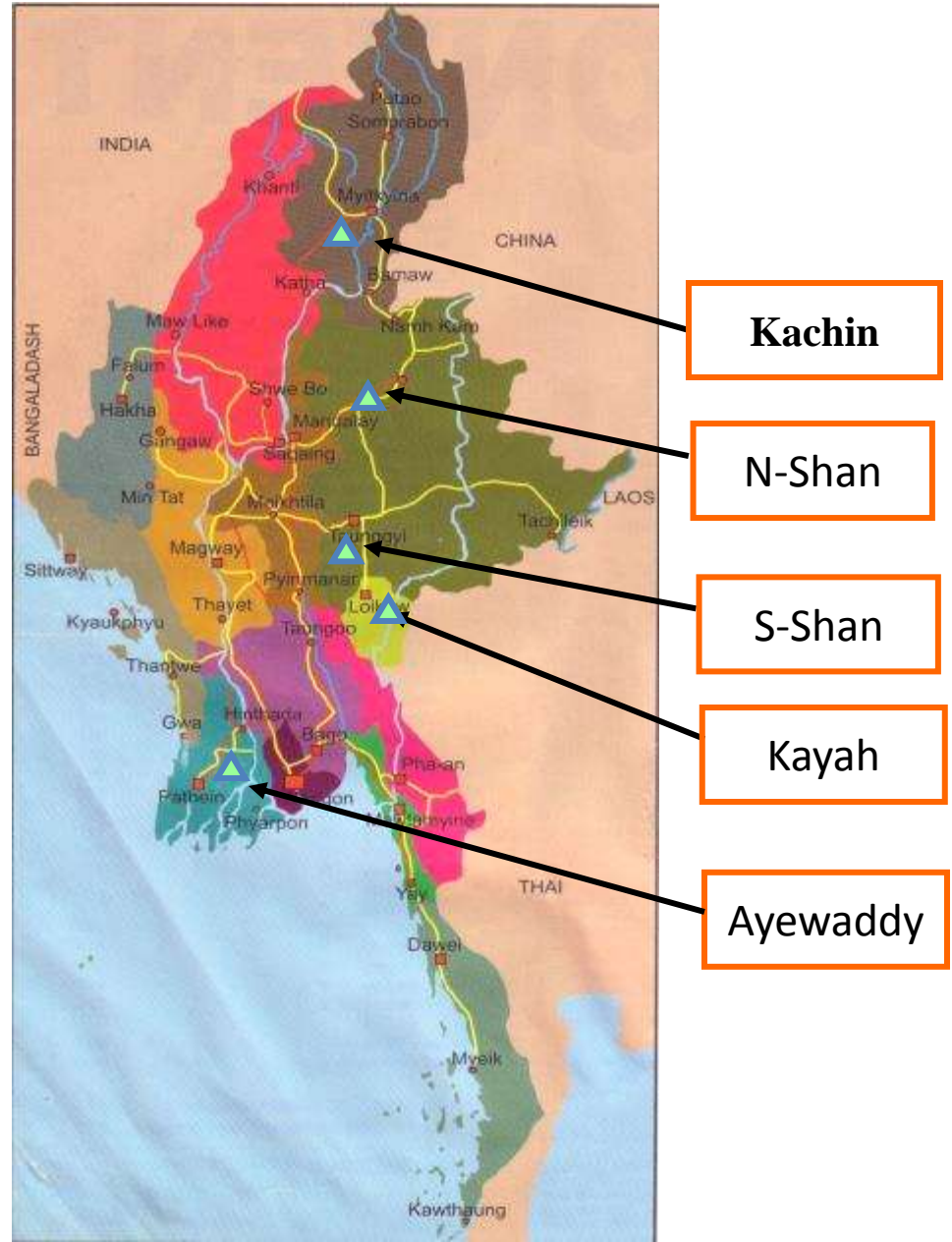
# Agroecology Approaches and Practices in Farmer Field School



Metta Development Foundation, Myanmar

# FFS Area in Myanmar

- 11 TOT Conducted
- More the 450 facilitators have been trained
- More than 1000 FFS are conducted
- 30000s+ of Farmers are participated and Learning in FFS
- No. of Households Food Security increase
- Capacity of farmer
- Leadership development
- New Initiative village development activities



# System of Rice Intensification



# SRI – Young Seedling



# SRI – 2/3 Seedling



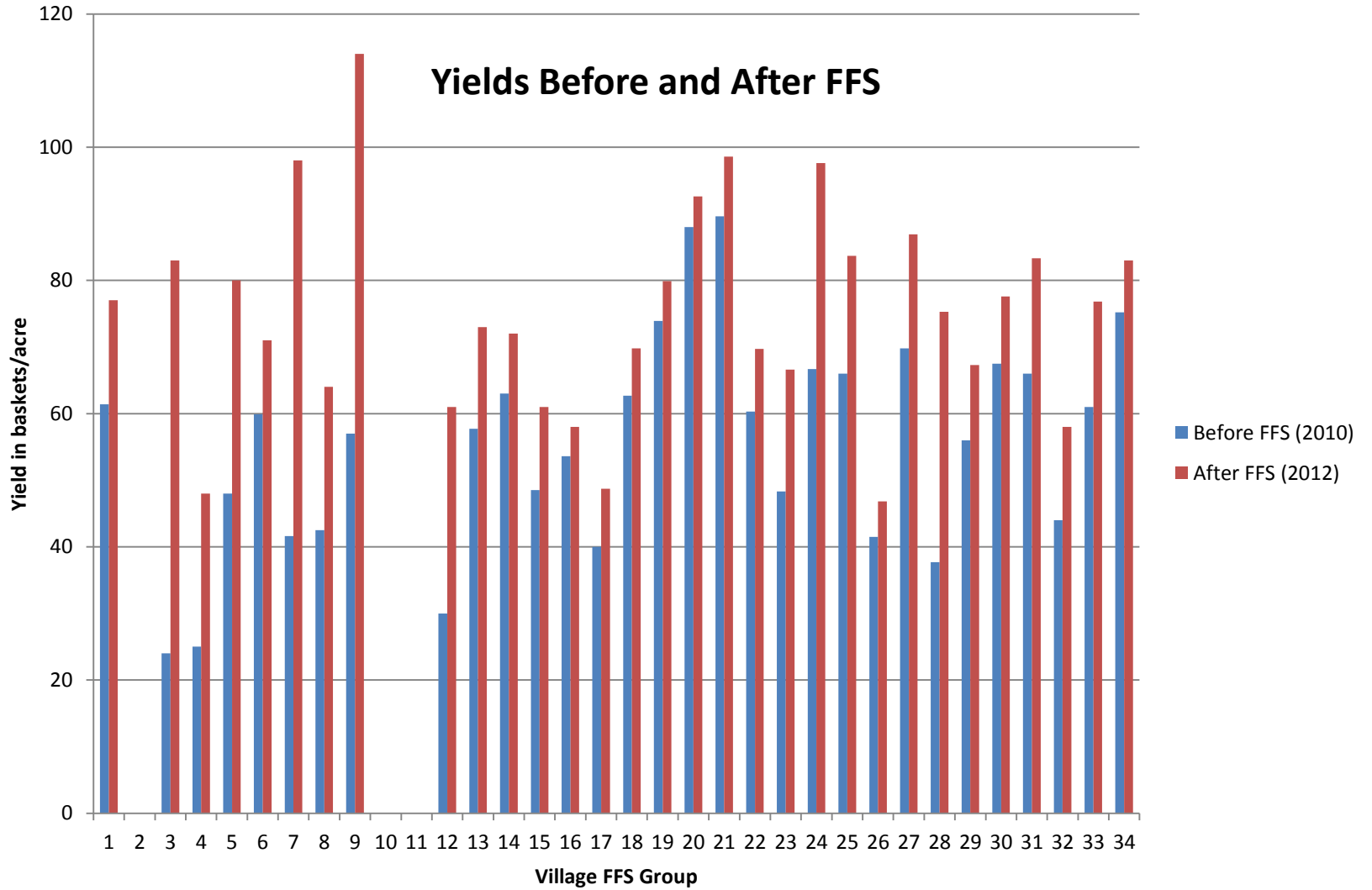
# SRI - Drumseeder



# Weeding with Rotary Weeders in Low Land Rice Fields

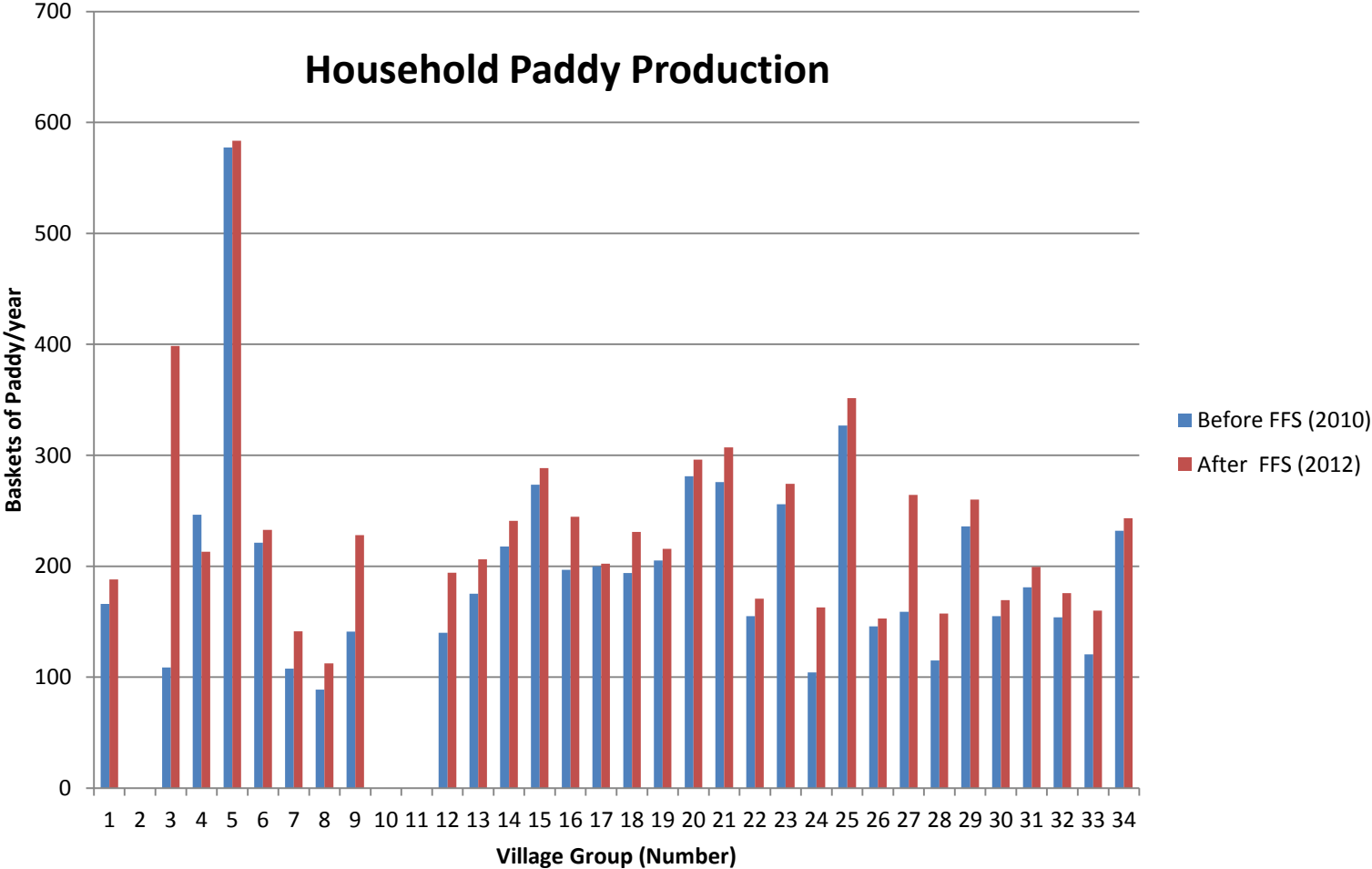


# Yields Before and After FFS

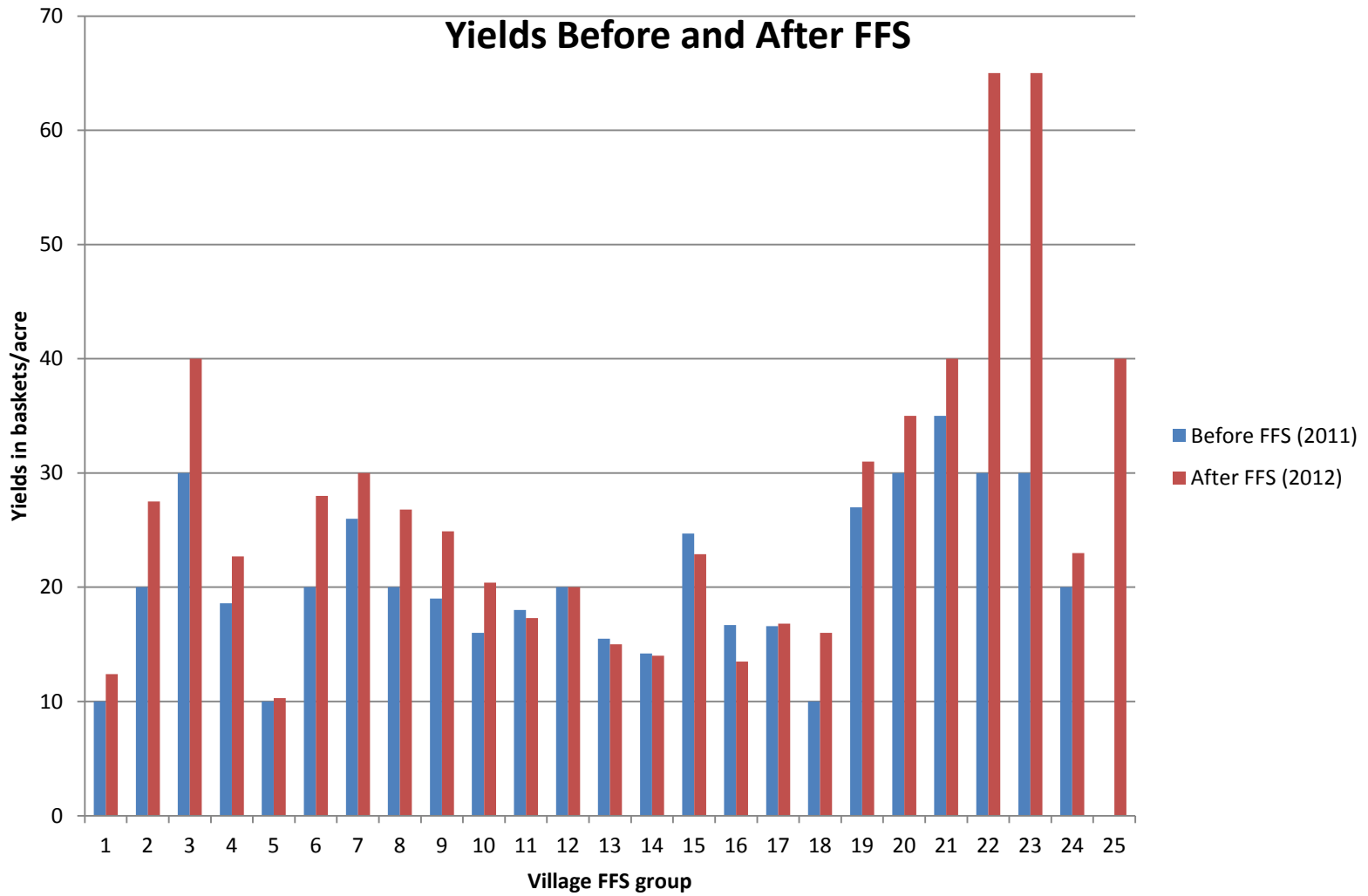




# Household Paddy Production



# Yields Before and After FFS



# Issues

- Labour Shortage
- Rice Transplanter Scarcity
- Land Preparation and Leveling
- Sowing Time (very short)
- Sowing Method (broadcasting)

# Weeding with Rotary Weeders in Up Land Rice Fields



# Upland Rice and Pigeon Pea Intercropping



# Seed Farm of Farmer Field School









# Farmers' Seed Production



# Farmers' Seed Production



## Delta Seed Production Situation

Year	Variety*	Production Acre	Production Basket	Distribution	
				Basket	Farmer
2010(S+R)	14	30	687	593	1177
2011(S+R)	14	30	948	948	1020
2012(S+R)	8	30	875	597	1093
2013(S+R)	6	30	1350	975	1055
2014(S+R)	9	26	1171	925	862
2015(S)	6	6	188	168	168
<b>Total</b>	<b>57</b>	<b>152</b>	<b>5219</b>	<b>4206</b>	<b>5375</b>

**Local Variety\*** -Paw San Yin / Shwe Bo Paw San/ Hnan Kar/ Ayeyar Thwe/

**High Yield Variety\*** - Sin Thwe Latt/Sin Thu Kha /Thee Hta Yin /Pakhan Shwe War

## Farmer Level Seed Production Seed Production & Seed Selling or Distribution

No	Township	Village	Farmer	Acre	Seed Class	Seed Varieties	Seed Production (Basket)	Seed Distribution (Basket)
1	Kankyidaunt	22	53	70	Panicle/C.S	9	4075	4075
2	Kankyidaunt-Pathein	7	17	37.5	C.S	6	2845	2845
3	Hygein	3	5	11.25	Panicle	6	640	640
4	Einmae	4	12	13.5	Panicle/C.S	2	922.5	922.5
5	Myaungmya	7	16	16	C.S	4	1120	1120
6	Warkhaema	10	1	11.9	C.S	6	757	757
	Total	53	104	160.15			10359.5	10359.5

# Nutrient Solution using Animal Manure



# Making herbal pesticide

## Moonseed vine (hsin done manwe)



# Community Nursery and Community Forestry



# Natural Forest Protected in Project Site in Southern Shan and Kayah States

No.	Township	No. of village	Total Household	Total Community Protect area (Acres)	Remark
1.	Demorkso	8	416	1149.8	3 forest received CF certificate
2.	Hsihseng	11	1335	5083.61	12 Village apply CF
3.	Hopone	3	496	1006.62	
4.	Taunggyi	3	454	341.16	2 Village apply CF
Total	4	25	2701	7581.2	



# Pin Ta Ya Natural Forest (135 acres)



# Naung Pit Natural Forest (140 Acres)



# Issues

- No Official Land entitlement
- Illegal Logging from other villages
- Land encroachment
- Wild Fire
- Land buying of outside investor
- Land ownership conflict between villages

# Natural Forest Protected in Project Site in Kachin State

No.	Township	No. of village	Total Household	Total Community Protect area (Acres)	Remark
1.	Waing Maw	6	310	2690	UACF Project
2.	Myitkyina	1	26	300	UACF Project
3.	Moe Kaung	4	137	838	UACF Project
Total		11	473	3828	

All Villages are in process of CF application.

# Natural Forest Protected in Project Site in Kachin State

No.	Township	No. of village	Total Household	Total Community Protect area (Acres)	Remark
1.	Waing Maw	11	1829	9253	Micro Water Shed Project
2.	Myitkyina	1	310	400	Micro Water Shed Project
3.	Moe Kaung	3	809	1570	Micro Water Shed Project
4.	Moe Mauk	2	202	575	Micro Water Shed Project
Total		17	3150	11798	

One Village of Waing Maw Township got CF Certificate. Other Villages are in process of CF application.

# Mahkaw Di (Waing Maw)



# Ma Hkaw Yang (Waing Maw)



# Jin Mar Tit (Waing Maw)





# Participants' income from CNCF project in seven villages (2012)

No	Village	Income from seedlings		Income from seasonal crops		Income from seeds		Income from NTFP		Total income
		F	Kyat	F	Kyat	F	Kyat	F	Kyat	
1	Nawng Hkying	2	1050000	2	570000			1	300000	1920000
2	Nawng Hkyi	1	20000			1	8000			28000
3	Upper Maw Hpawng	2	400000	2	292200	1	20000	1	45000	757200
4	Wae Yin	1	1500000	3	88000	1	80000	3	915000	2583000
5	Hka Nan			4	1033000			1	30000	1063000
6	Sawng Hka			5	1245400			3	630000	1875400
7	Na Hlaing			4	501000					501000
<b>Total</b>		6	2970000	20	37299600	3	108000	9	1920000	8727600

# Issues

- No Official Land entitlement
- Illegal Logging from other villages
- Land encroachment
- Wild Fire
- Land buying of outside investor
- Land Concession by Government
- Mining

# Thank You



7-8 March 2016

Khin Maung Latt