

Ministry of Agriculture, Livestock and Irrigation

Department of Agriculture

Htantabin Township, Bago Region



**Evaluation of different rice varieties
in Htantabin township**

Presented by

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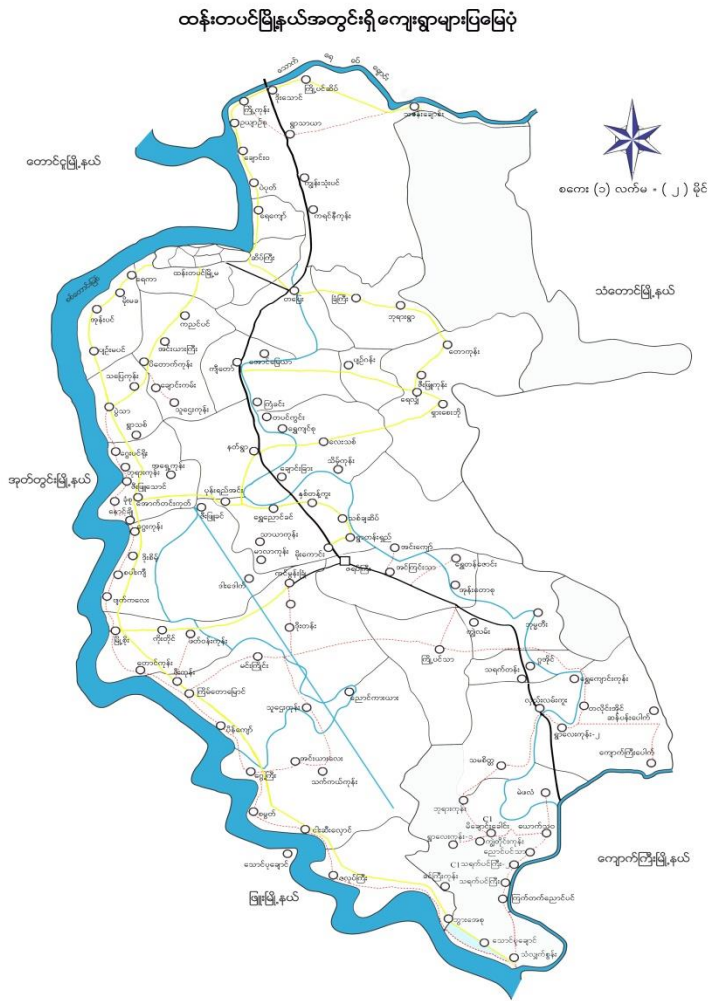
Introduction

- Rice is the most important crop for food security
- Need increasing cultivation and production for both domestic and export
- Yield evaluation- one of the most efficient methods to increase rice production by obtaining high yield varieties
- Evaluated rice varieties – the best yielding variety should be selected in Htantabin township

Evaluation of different rice varieties in Htantabin township

- Crop - Rice
- Village - Ta Pyae
- Township - Htantabin
- District , Region - Toungoo , Bago
- Presenter - Hnin Ei Phyu (Apprentice)

Basic data of Htantabin



- Total Area (ac) -133109
- Cultivated area(ac) -104726
- Cropping intensity -153.84%
- Village Tract -32
- Farmers -21076
- Population -121644
- Rainfall -83.94inch/93days

Objectives

- To evaluate adaptability of high yielding rice varieties in Htantabin township
- To select rice variety to be used in future sustainable market in our township
- To observe some agronomic and yield component characters

Materials and Methods

- Season / year - Monsoon/ 2017
- Expt Design -(8×1) simple trial
- Seedling rate -2 plants per hill
- Spacing -15 cm × 20 cm
- Plot size/ area -100' × 109' (0.25 acre)/ 2 acres
- Test varieties -Yadanar Toe, Sin Shwe Sel, Thee Htat Yin, Shwe Pyi Htay, Hmawbi 2, Sin Thwe Lat, Yat 90, Sin Thu Kha(check)

Activities, Results and Discussion



Data Collection

- Panicle length (cm) & Plant height (cm)
- Tillers & Days to 50% flowering
- Number of panicles per meter square
- Number of grains per panicle
- Filled grain % & Grain yield (basket)



Plate1. Seedling seedbed and transplanting



Plate2. Data collection and field visit

Agronomic characters of different rice varieties

No.	Varieties	Life period(day)	Plant Height(cm)	Panicle length(cm)
1	Yadanartoe	115	136.20	24.78
2	Sinshwesel	110	112.50	23.40
3	Theehtatyin	110	96.60	20.23
4	Shwepyihtay	120	98.70	19.54
5	Hmawbi-2	138	110.76	23.44
6	Sinthwelat	131	134.40	24.69
7	Yat-90	97	122.00	22.14
8	Sinthukha(Check)	132	105.90	20.27

Yield and yield components characters of different rice varieties

No.	Varieties	Effective tiller	Grains/panicle	Filled grain%	1000 grain weight	Yield bsk/ac
1	Yadanartoe	10.50	81.60	74.30	27.30	99.92
2	Sinshwesel	10.00	93.25	66.35	28.00	98.13
3	Theehtatyin	11.00	98.60	68.75	24.00	99.92
4	Shwepyihtay	10.00	115.00	72.35	21.00	105.31
5	Hmawbi-2	8.50	115.00	70.60	26.50	101.72
6	Sinthwelat	7.00	120.00	80.10	26.80	103.52
7	Yat-90	8.50	101.00	78.20	26.00	101.72
8	Sinthukha	9.50	118.00	82.78	20.60	107.19

effective tiller

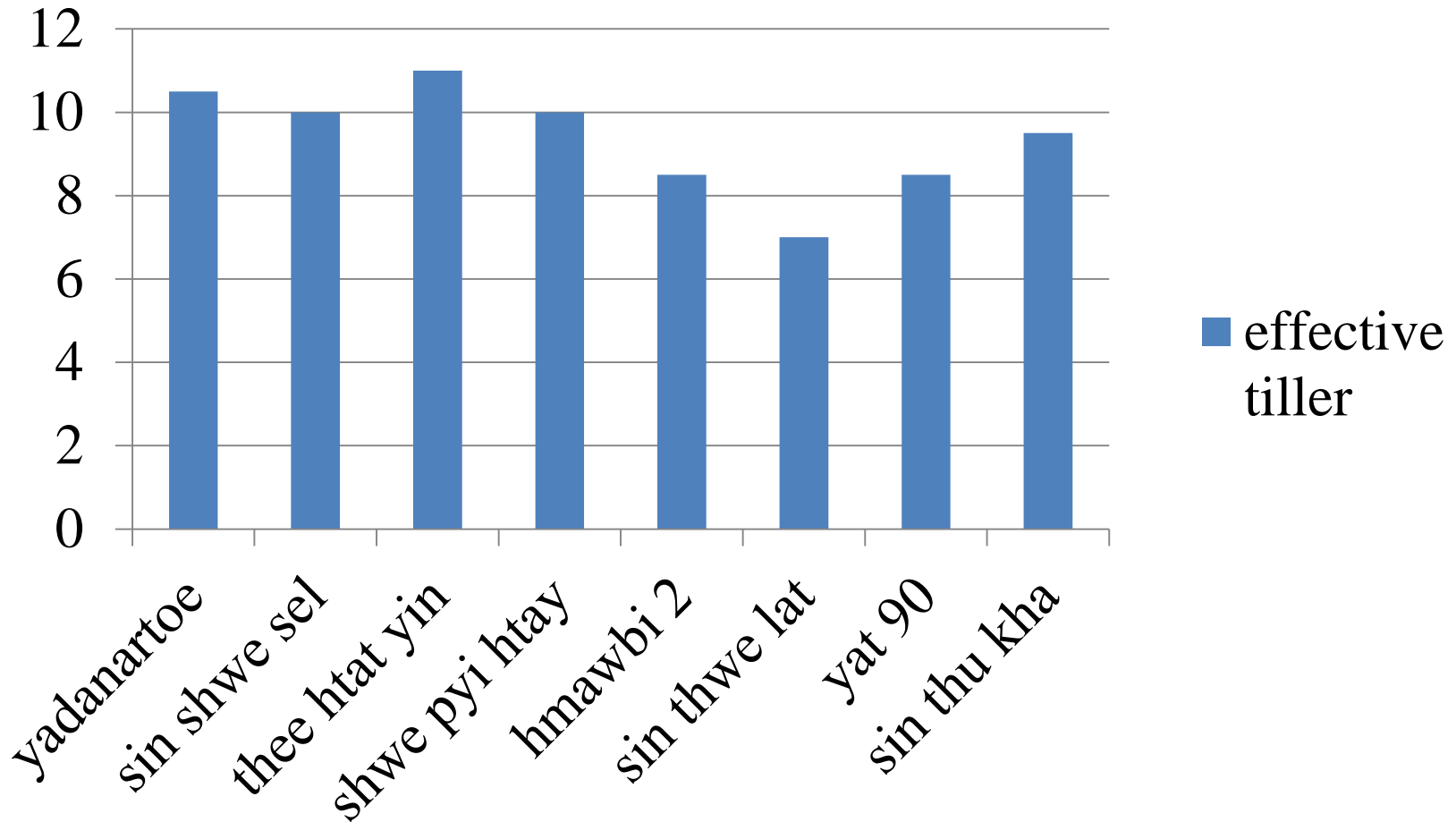


Figure1. effective tiller number of different rice varieties

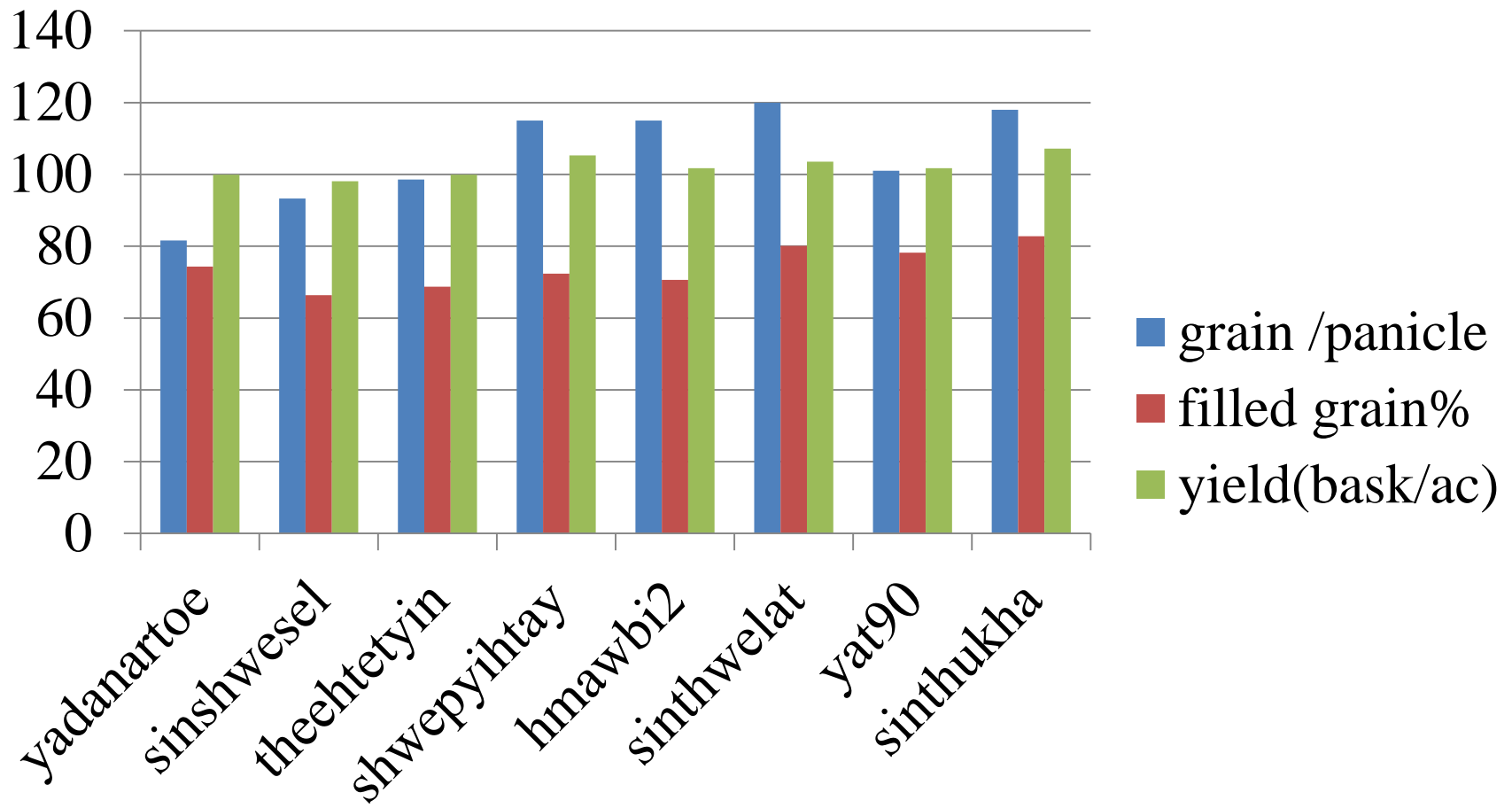


Figure 2. grain/ panicle, fill grain %, yield

flowering



- Variety-Shwepyihtay
- Yield -105.31 bsk
- Effective tiller-10
- grain/panicle -115
- Filled grain%-72.35

- Variety-Yadanartoe
- Yield -99.92 bsk
- Effective tiller-10.5
- grain/panicle -81.6
- Filled grain%-74.30

- Variety-Theehtatyin
- Yield -99.92 bsk
- Effective tiller-11
- grain/panicle -98.6
- Filled grain%-68.75

flowering



- Variety-Sinshwesel
- Yield -98.13 bsk
- Effective tiller-10
- grain/panicle -93.25
- Filled grain%-66.35



- Variety-Hmawbi-2
- Yield -101.72 bsk
- Effective tiller-8.5
- grain/panicle -115
- Filled grain%-70.60



- Variety-yat90
- Yield -101.72 bsk
- Effective tiller-8.5
- grain/panicle -101
- Filled grain%-78.20

flowering



- Variety-Sinthukha
- Yield -107.19 bsk
- Effective tiller-9.5
- grain/panicle -118
- Filled grain%-82.78



- Variety-Sinthwelat
- Yield -103.52 bsk
- Effective tiller-7
- grain/panicle -120
- Filled grain%-80.10

Harvesting



Conclusion

- **All tested high yielding varieties were not superior than Sinthukha(check) grain yield.**
- **Adaptability and obtained high yield , should be selected Sinthukha and Shwepyihtay varieties for my township**
- **Good quality and market, optimum yield, also should be selected Hmawbi-2**
- **Different locational study and sowing were needed to confirm the results**



THANK YOU