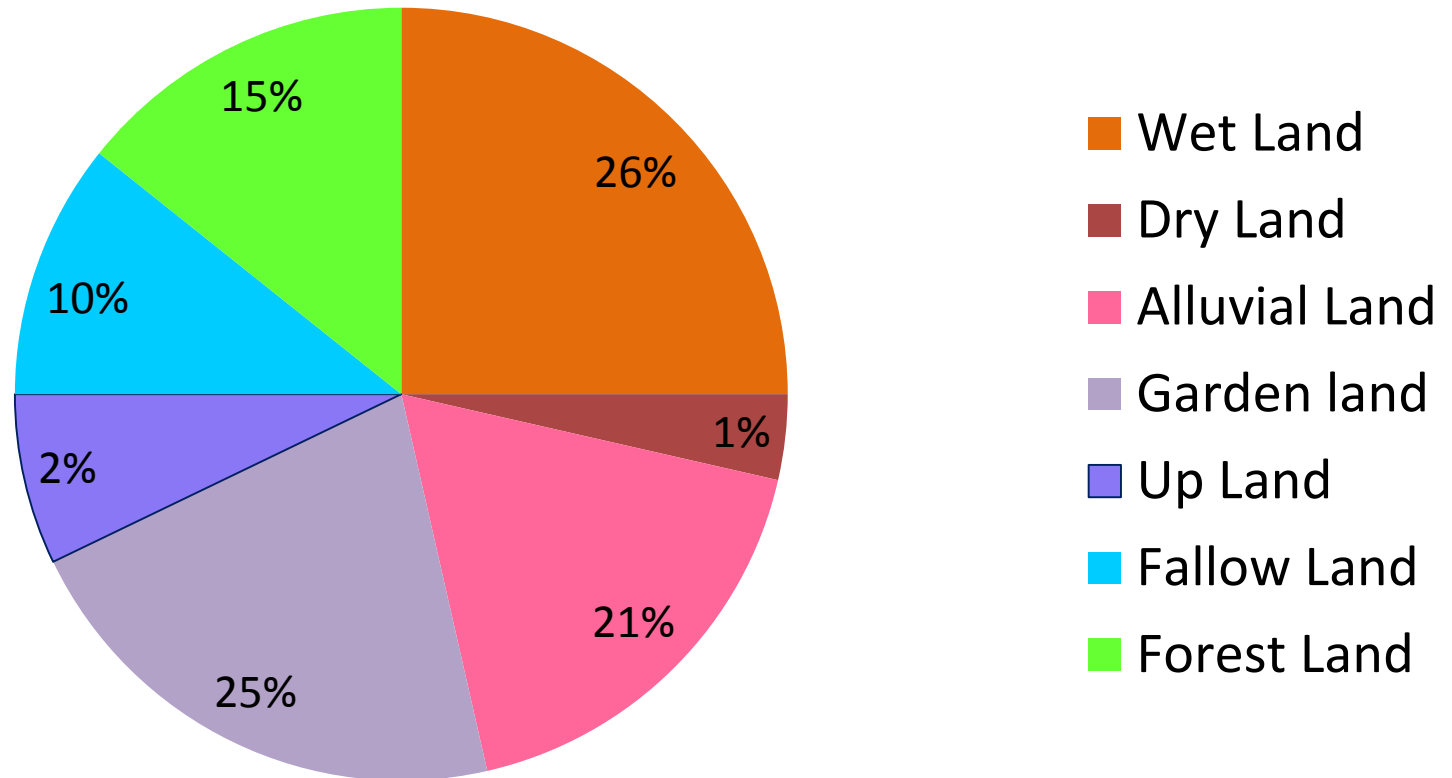




Comparison of lower cost rice (*Oryza sativa.L*) Planting methods in Hpa-an Township

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Land Use In Hpa-An



Site of Area from Hpa-an Township

- Location – south of Myanmar
- Sea level - 53 feet high
- Area -716857 acree
- East -Hlaing Bwe
- West -Tha Htone And Paung
- North -Bilin And Hpapun
- South -Kawkareik
- Average Rainfall - 172 inches / 138 days
- Average Temperature -20°C-40°C
- PH -4.5-6.5

Introduction

- Rice - food crop - staple food - half of the world's population
- Rice planning method – provided-income,outcome, yield and benefits and employment to millions of household for rural farmers
- Rice - the most sowing - other crops - in Hpa- an
- Sowing area - 119749 ac
- Average yield - 72 bsk/ac

Objectives

- To determine the correlation of yield and yield component of rice.
- To examine the suitable planting methods and cost-benefit for farmer.
- To maintain stability of process of agricultural production even facing scarcity of labour problem.

Materials and Methods

No	Content	Seeder	Direct seedling	Raised bed	SRI
1	Township	Hpa-an	Hpa-an	Hpa-an	Hpa-an
2	Village	Myaingkalay	Myaingkalay	Myaingkalay	Myaingkalay
3	Farmer	U Nyan Tun	U Nyan Tun	U Nyan Tun	U Nyan Tun
4	Variety	Sin thu kha	Sin thu kha	Sin thu kha	Sin thu kha
5	Plot size(acrea)	0.50	0.50	0.50	0.50
6	Spacing(in)	8"×2-3"	-	8"×6"	10"×10"
7	Sowing date	16.7.2017	16.7.2017	16.7.2017	16.7.2017
8	Transplanting date	-	-	7.8.2017	28.7.2017

Data Collection

➤ Agronomic Characters

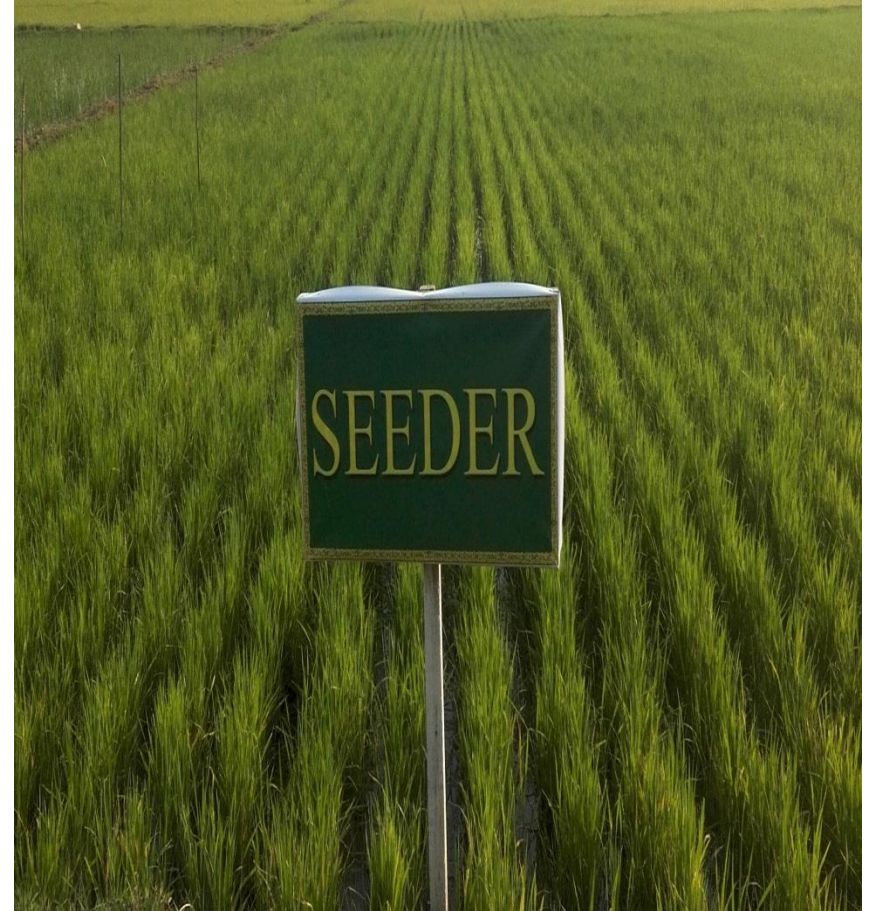
- ❖ Plant height (cm)
- ❖ Day to 50% flowering (days)
- ❖ Panicle length (cm)
- ❖ Total no of spikelets per panicle
- ❖ Effective tiller per hill (number)
- ❖ Filled grain (%)
- ❖ 1000 grains weight (g)
- ❖ Yield per bsk



Planting Method



Planting Method



Planting Method



Planting Method



Result and Dissscusion

Table 1. Yield and Yield components as affected by different planting method in rice.

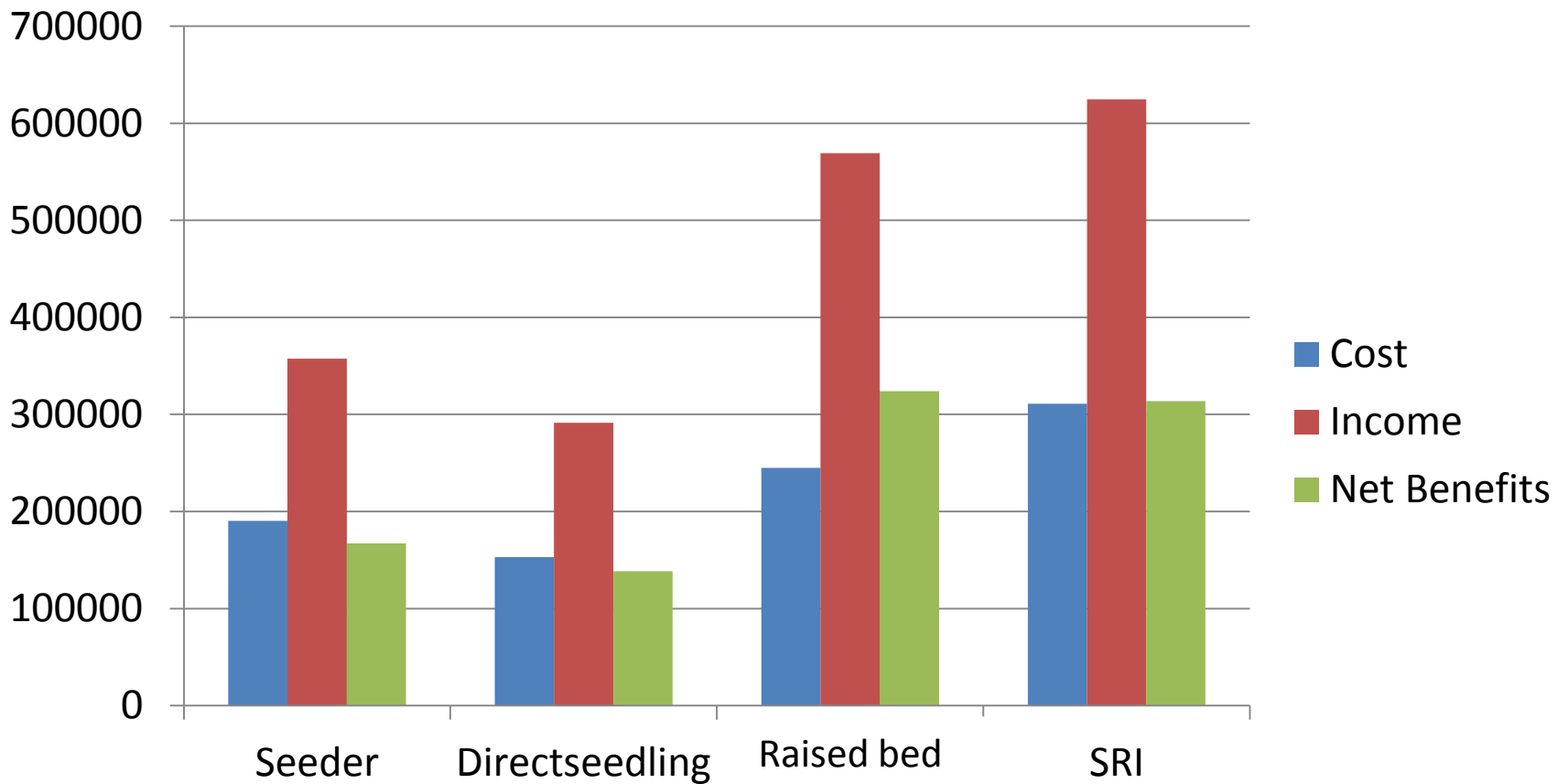
Treatments	Panicle Length(cm)	No of Spiklets Panicle	Filled grain%	50% Flowering Date
Seeder	25	95	93.45	14.10.2017
Direct	25	94	92.57	15.10.2017
Raised Bed	28	98	95.38	16.10.2017
SRI	28	103	96.82	17.10.2017

Result and Dissscusion

Table 2. Yield and Yield components as affected by different planting method in rice.

Treatments	No of Panicles Hill	1000 grain Weight (g)	Yield (bsk/ac)
Seeder	7	20.6	64.98
Direct	6	20.6	53.04
Raised Bed	11	20.6	103.27
SRI	18	20.6	113.6

Cost and Net benefits of Planting Method



Conclusion

- The rice was grown by using 4 methods - Seeder, Directseedling, BMP (raised bed) and SRI .
- Among these four methods BMP and SRI are much more yields than other two methods .
- Raised bed method (103.47 bsk/ac) , SRI method (113.6 bsk/ac), Seeder method (65 bsk/ac) and Directseedling method (53.04 bsk/ac).
- Direct method (53.04 bsk/ac) showed the minimum yield from other tested methods.

Conclusion

- Direct and Seeder planting methods were released labour cost but had the highest weed in our field.
- It can be concluded that BMP planting method was obtained optimum total cost but these method the highest yield than other methods.
- Therefore , most of the farmers were agreed **BMP** method (103.47 bsk/ac) because these method was not different from farmer practise.



Thanks you for your kind attention