Ministry of Agriculture, Livestock and Irrigation

ASSESSING RICE PRODUCTION COST OF DIFFERENT PLANTING METHODS

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Introduction

- Rice is the staple food for Asia and is also considered as the most important crop for Myanmar.
- Total rice growing area including monsoon and summer rice is about 17.5 million acres in 2018–2019.
- Practices different planting methods under different ecosystem.
- May receive different yields and benefits on different planting methods and costs.

Problem Statement

- Labor shortage – one of the main constraints in rice farming in the country
- Labor saving technologies – need to intensify
- Farm mechanization – need to drive
- Farmers – still face problems and limited incomes especially in the rural areas
- Need to assess current rice production status under different planting methods

Objectives

- To assess costs and yield on different planting methods
- To observe the relationship between cost/basket and yield/acre

METHODOLOGY

A. Study Area ⟶ Nay Pyi Taw

B. No. of Respondent (559)

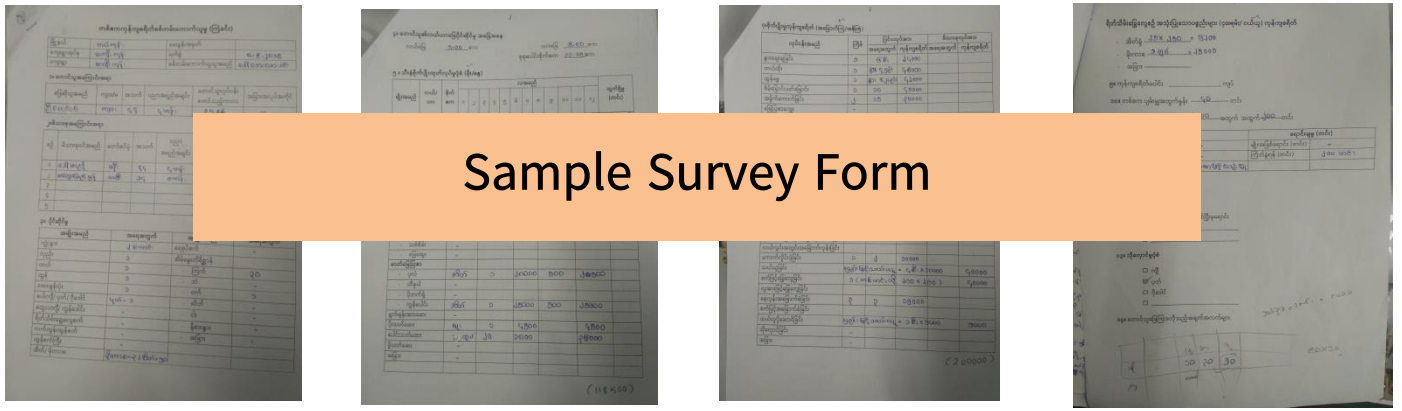
- a. Seeder – 163
- b. Broadcat – 133
- c. SRI – 43
- d. Transplanter – 64
- e. Transplanting – 156

C. Questionaires – Cost/ac

– Cost/bsk

– Yield/ac

D. To calculate – Stata 11 analysis



Sample Survey Form

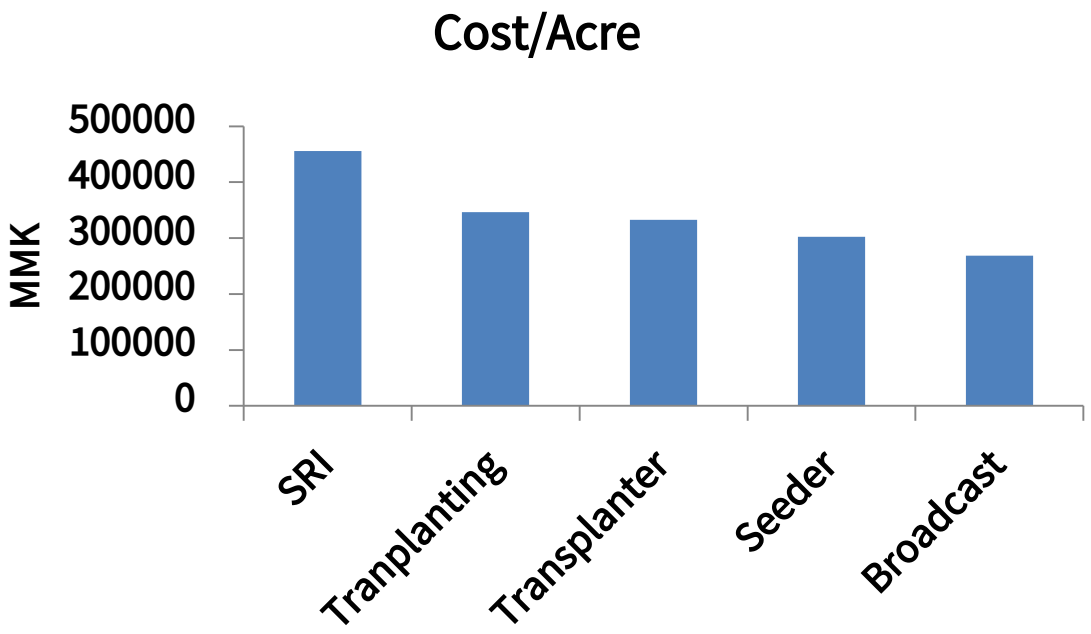
Sown Area in Nay Pyi Taw

No.	Township	SRI		Transplanter		Transplanting		Seeder		Broadcast		Total Sown Acre	
		Monsoon	Summer	Monsoon	Summer	Monsoon	Summer	Monsoon	Summer	Monsoon	Summer	Monsoon	Summer
1	Tatkone	10	10	–	12	34208	981	14897	3743	–	3963	49115	8709
2	Zeyathiri	17	28	–	–	965	245	11281	1421	–	81	12263	1775
3	Pobbathiri	5	11	–	–	3163	17	7135	408	1500	–	11803	436
4	Ottarathiri	12	28	–	10	9846	97	1264	654	392	–	11514	789
5	Pyinmana	15	24	–	11	1158	156	675	853	14392	2433	16240	3477
6	Lewe	10	10	–		12682	208	16200	1083	33057	12010	61949	13311
7	Zabuthiri	10	10	–	13	545	455	85	330	637	203	1277	1011
8	Dekkhinathiri	5	5	–	–	1857	241	1666	557	3825	1589	7353	2392
		84	126	–	46	64424	2400	53203	9049	53803	20279	171514	31900

Source; Nay Pyi Taw Council, 2018–2019

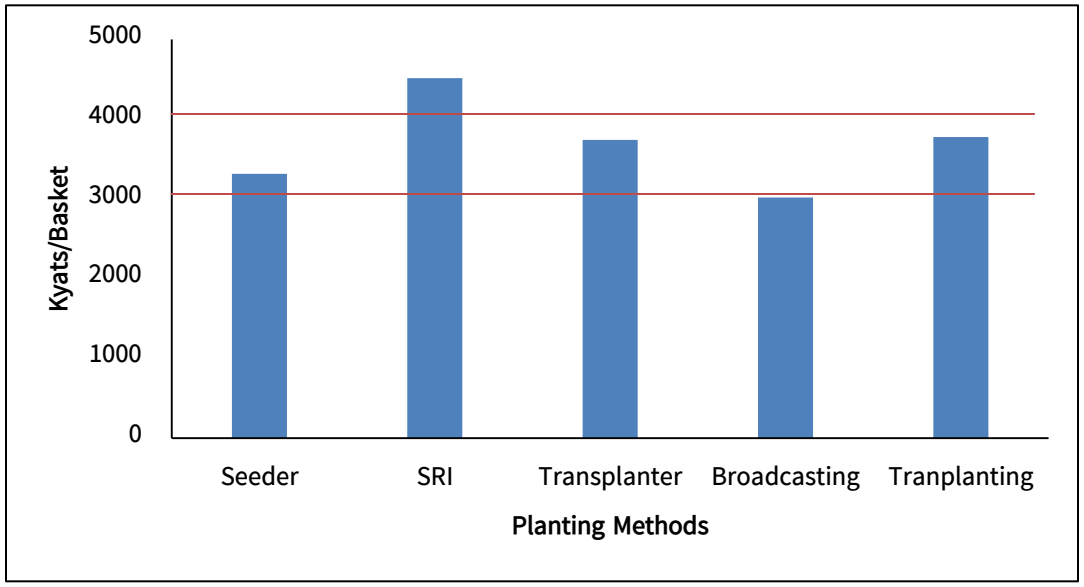
Results and Discussions

Cost/Acre(MMK)



	Seeder	SRI	Transplanter	Broadcast	Tranplanting
Average	302143	455577	333008	268875	346472
Minimum	145333	229111	205520	113500	150000
Maximum	444000	649600	580350	434000	503846

Cost/Basket(MMK)



	Seeder	SRI	Transplanter	Broadcasting	Tranplanting
Average	3315	4513	3738	3017	3775
Minimum	1453	2211	1982	1183	1291
Maximum	4517	6505	8060	4962	5027

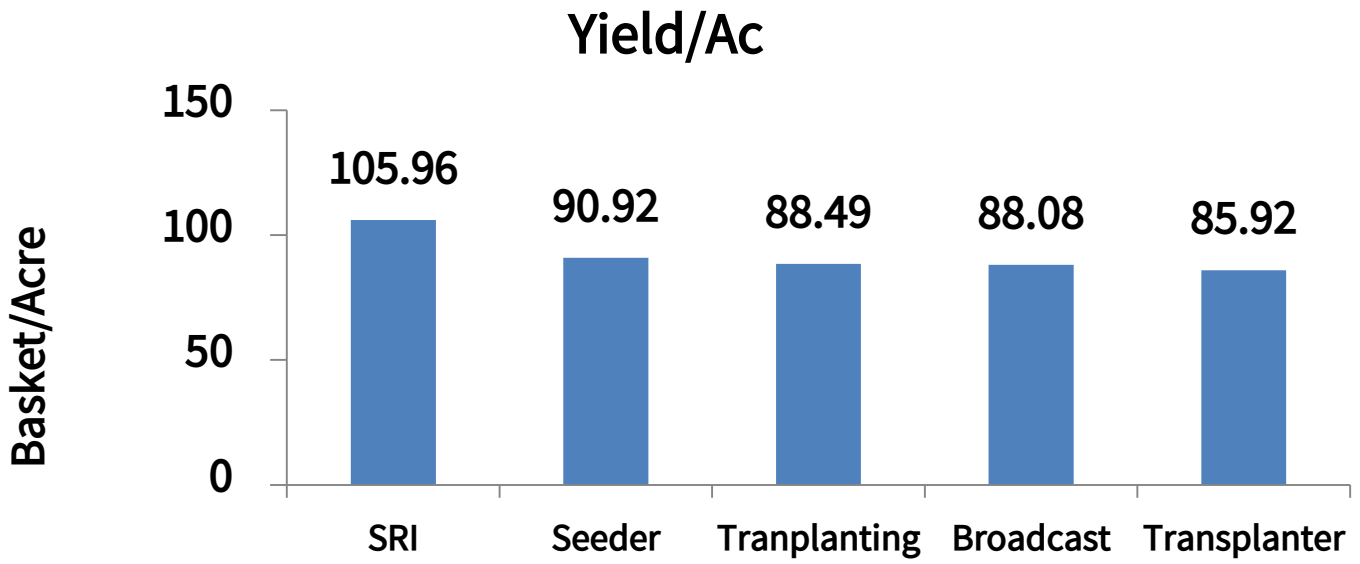
Varieties

The sown variety in Nay Pyi Taw

1	Manaw Thuka
2	Sin Thu Ka
3	Sin Thwe Latt
4	Shwe Thwe Yin
5	Ayeyarmin
6	Ayeyarpaday Thar
7	Paw San
8	Pawsan Hmwe
9	Paw San Yin
10	Paw San Bay Kyar
11	Pyi Taw Yin
12	Besmarti

13	Palae Thwe
14	Thai gauk
15	Shwe Toe
16	Super Hnan Kaut
17	Kaut Nnyin
18	Hnan gauk
19	Day–90
20	Thukha–2
21	Shwe War Tun

Yield (Sinthukha)

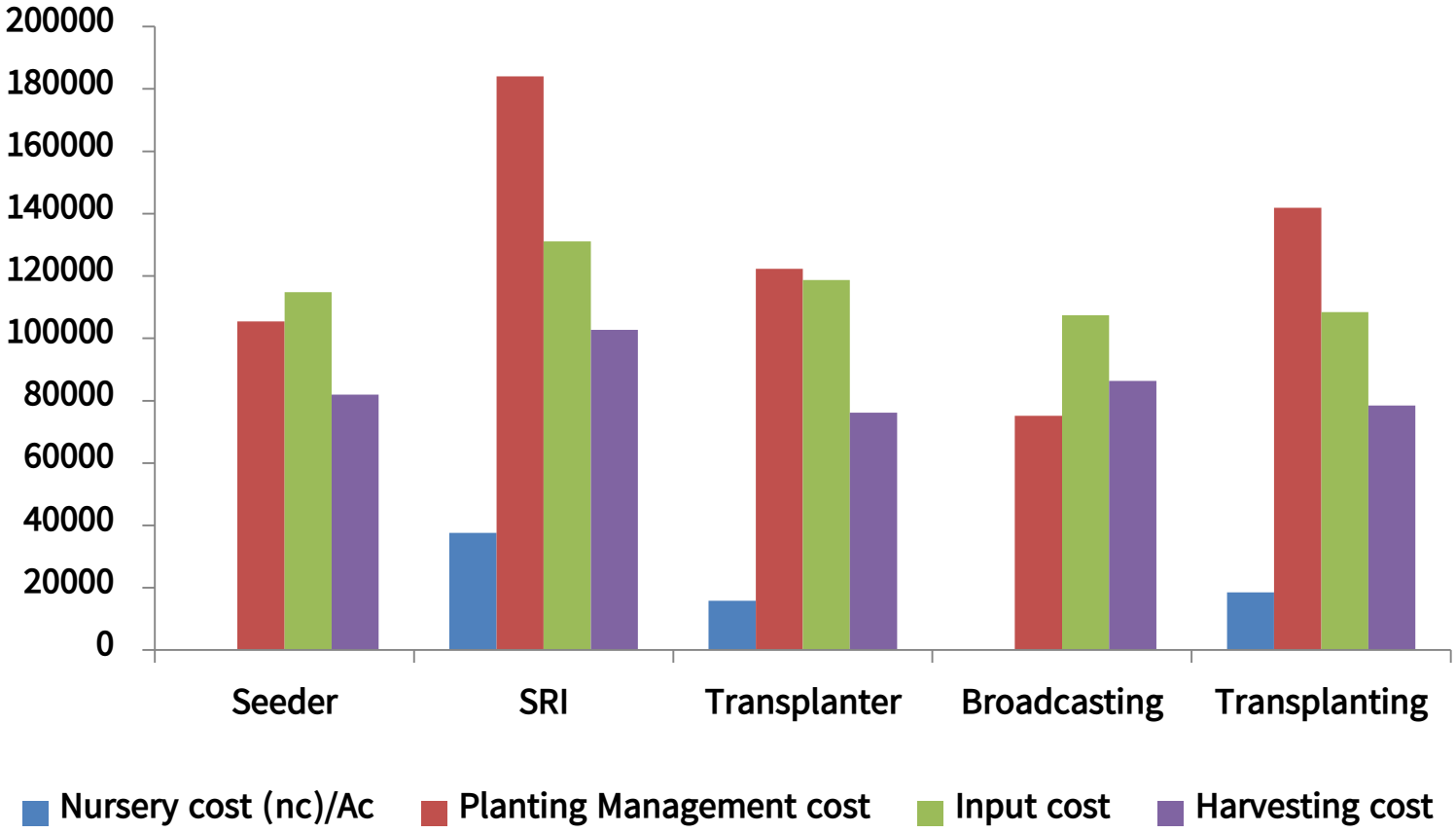


	Seeder	SRI	Transplanter	Broadcast	Tranplanting
Average	90.92	105.96	85.92	88.08	88.49
Minimum	64.28	80	65	62	60
Maximum	149	180	120	125	120

Comparison between Cost and Yield on Different Planting Methods

	Cost/Acre	Cost/basket	Yield/Acre
Seeder	302143	3315	90.92
SRI	455577	4513	105.96
Transplanter	333008	3738	85.92
Broadcasting	268875	3017	88.08
Transplanting	346742	3772	88.49

Comparison of Production/Acre on different Planting Methods



Conclusion

a. Lowest cost was observed in broadcast planting method
b. SRI planting method was highest cost
c. Seeder and Transplanting methods were medium cost
d. Highest yield was observed in SRI planting methods
e. Seeder planting method was produced second highest yield
f. Transplanter was produced lowest yield

Conclusion (Cont.)

- According to survey data, production cost for one basket is from 3057 – 3775 MMK except SRI(4514).
- Yield/acre of Each planting method profits by current paddy price
- produce higher yield– reduce cost/basket

Thank You Very Much