



Ministry of Agriculture, Livestock and Irrigation
Department of Agriculture
Yangon Regional Office

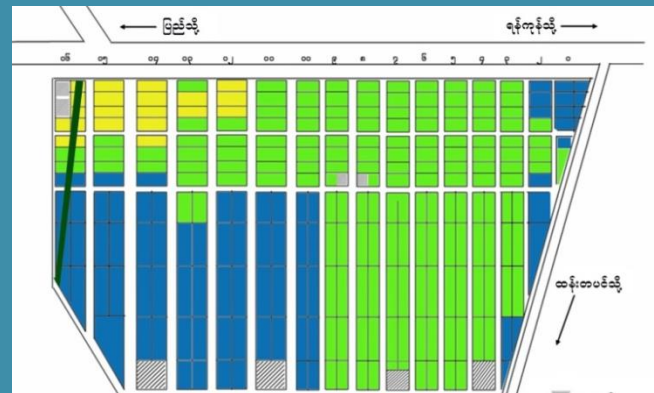
**Yield Comparison of
New Short Day Paw San lines**

**Presented
by**

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2018. January (30)

Background

- Myanmar Rice Research Centre founded since 1908
- Seed production, research and breeding
- Produce purified and good quality seed and adaptation of local variety
- Demonstrate farmers advanced agricultural technologies
- Training, discussion to staffs and farmers



Introduction

- Title - Yield Comparison of New Short Day
Paw San lines
- Crop - Rice
- Location - Myanma Rice Research Centre, Hmawbi, Yangon
- Duration - 2017-2018 Monsoon(June-November)
- Plot Size - 66' x 99' (0.15 acre)
- Presenter - Daw Yin Min Min Myat
- Position - Assistant Staff Officer

Paw San Yin

- Aromatic Rice
- Good in cooking quality
- Grain elongation during the cooking process
- High market demand
- Seasonal rice that can grow only monsoon season due to its maturity day (145-150).

Objectives

- To produce new short day Pawsan lines which can be grown in any season
- To release the new Pawsan rice lines with high yield and good quality

Research Activities

➤ Tested varieties

(1) Paw San- 1 (PS-1)

(2) Paw San- 2 (PS-2)

(3) Paw San- 3 (PS- 3)

(4) Paw San- 4 (PS-4)

(5) Paw San- 6 (PS-6)

(6) Paw San- 7 (PS-7)

(7) Paw San Yin (check)

(8) Shwe Na Thar Paw San-1(Check) (SNT PS-1)

(9) Shwe Na Thar Paw San-2 (Check) (SNT PS-2)



Research Design



- Design - RCB (9 X 3)
- Replication - 3

Cultural Practices

- Seedlings – 20 day after sowing
- Spacing – 8" x 6"
- No. of seedlings/ hill – 2-3 seedlings/ hill

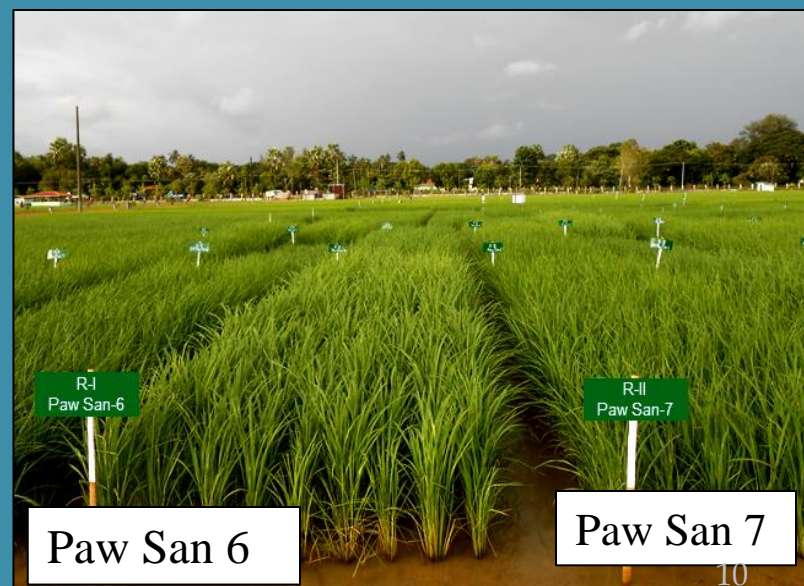
Fertilizer	Basal	14DAT	Tillering	Panicle initiation
Urea	-	16.7kg/ac	16.7kg/ac	16.7kg/ac
T-super	25kg/ac	-	-	-
Potash	-	-	8.3kg/ac	8.3kg/ac

Data Collection

- 50% Flowering date
- Effective tiller
- Total grain
- Filled grain %
- Panicle Length (cm)
- Yield/acre (bsk)
- Analyzed by Cropstat



Flowering Stage of New Short Day Paw San Verities



Results and Discussion

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No	Variety	Sowing Date	Transplanting Date	50% Flowering	Maturity Day
1	PS-1	24.6.17	12.7.17	4.10.17	131
2	PS-2	24.6.17	12.7.17	30.9.17	127
3	PS-3	24.6.17	12.7.17	28.9.17	125
4	PS-4	24.6.17	12.7.17	30.9.17	127
5	PS-6	24.6.17	12.7.17	29.9.17	126
6	PS-7	24.6.17	12.7.17	3.10.17	130
7	PSY	24.6.17	12.7.17	22.10.17	150
8	SNT PS-1	1.7.17	12.7.17	23.9.17	114
9	SNT PS-2	1.7.17	12.7.17	20.9.17	111

Results and Discussion

No	Variety	Effective Tiller	Grains/ panicle	Filled grain %	Panicle Length (cm)	Yield/acre (bsk)
1	PS- 1	11.4	117	72.88	22.96	57.53
2	PS- 2	12.0	129	69.43	23.23	67.87
3	PS- 3	11.6	107	75.49	23.16	56.75
4	PS- 4	10.7	100	75.53	22.18	66.70
5	PS- 6	9.8	118	64.65	23.08	68.39
6	PS- 7	11.4	136	68.71	23.40	62.18
7	PSY	12.1	129	83.58	23.47	75.11
8	SNT PS-1	12.9	107	75.96	19.78	59.21
9	SNT PS-2	11.7	110	82.27	22.11	47.45
	5% LSD	3.72	26.10	10.45	1.93	9.69
	CV%	18.7	12.9	8.1	4.9	9.0

PS-2



PS-4



PS-7



Seed Shape and Type of New Short Day Paw San Varieties



PS-2



PS-4



PS-7

Discussion

- Paw San Yin -145-150 days
- New elite line -125-130 days
- PS-2, PS-4 and PS-7 are the best among the new elite lines
- Good yield, higher tiller number, grain and good eating quality
- Yield and yield components of PS-2 line higher than other two lines

Tested New Short Day Paw San Rice Varieties at Chipar Farm, Sagaing Region



PS-2

PS-7



PS-4



Conclusion

- New elite lines (PS-2, PS-4 and PS-7) – 125-130 days
- Cultivate as subsidiary crops
- Recommend these varieties for farmers



THANK YOU