



Ministry of Agriculture, Livestock and Irrigation

Department of Agriculture

Compare the Four Difference Sugarcane Varieties Suitable for Local Area

by

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Introduction

- ❖ Sugarcane
 - originated in New Guinea for thousands of year, gradually spread across to southeast Asia, India and east into the Pacific
 - a member of the Gramineae family and perennial grass
 - an important agro-industrial commercial crops
 - a major source of edible sugars

Introduction

Sugarcane - a vegetatively propagated crop

- planting of multi-bud setts (MBS)
- grown in various kinds of soils, such as red volcanic soil and alluvial soil of rivers.
- many grown regions in Myanmar.
- about 3700-4000 acres in Hlaingbwe
- after rice, groundnut, sesame, fourth maximum area grown in Hlaingbwe



Objectives

- ❖ To select suitable new sugarcane varieties in Hlaingbwe Township, Kayin State
- ❖ To increase for farmers income changing of new high yield varieties
- ❖ To study the yield and yield components of new varieties and share the knowledges for farmers

Materials and Methods

2019 -2020

Experimental site- Hlaingbwe township,
Kayin State
(Naw Kaw Village)

Duration - December 2019 to
November 2020

Tested cultivar - (1) K84/200
(2) K95/84
(3) K2000/89
(4) Phil74/64

Experimental - Randomized Complete
Design Block Design (RCBD)

Total Experimental area - 1.00 acre

2020-2021

Experimental site- Hlaingbwe township,
Kayin State
(Naw Kaw Village)

Duration - December 2020 to
November 2021

Tested cultivar - (1) LK92/11
(2) DAR-4
(3) K2000/89
(4) K95/283

Experimental - Randomized Complete
Design Block Design (RCBD)

Total Experimental area - 2.00 acres

Data Collection

1. Plant population per acre
2. Plant height(cm)
3. Number of nodes
4. Length of internodes(cm)
5. Weight per plant(kg)
6. Girth per plant (mm)
7. Yield (ton) and yield (viss)



Planting



Data Collection



Field Inspection



Harvesting and Data Collection



Sugar Plate Production



Results and Discussion

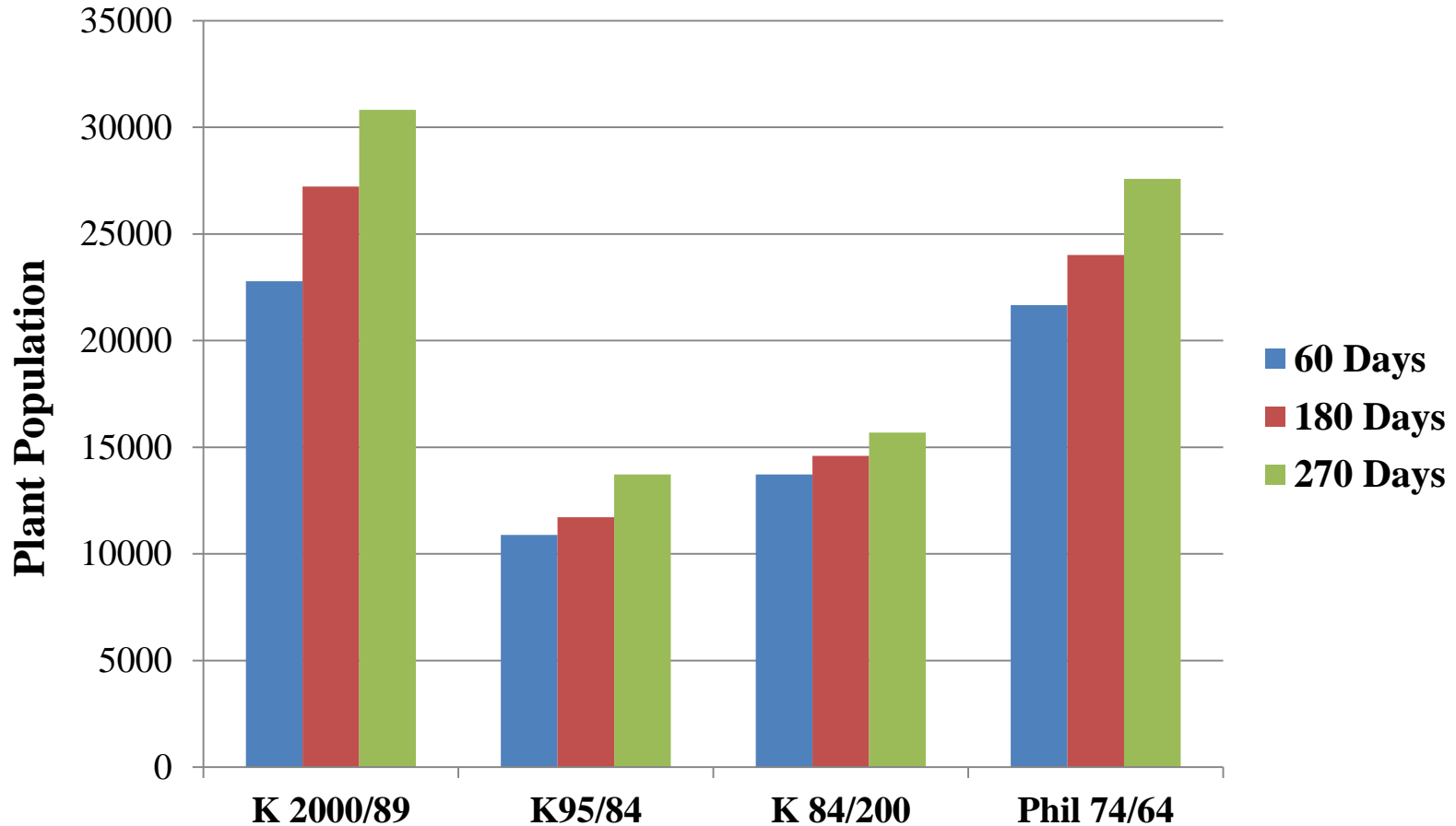


Figure 1. Average Value of Plant Population

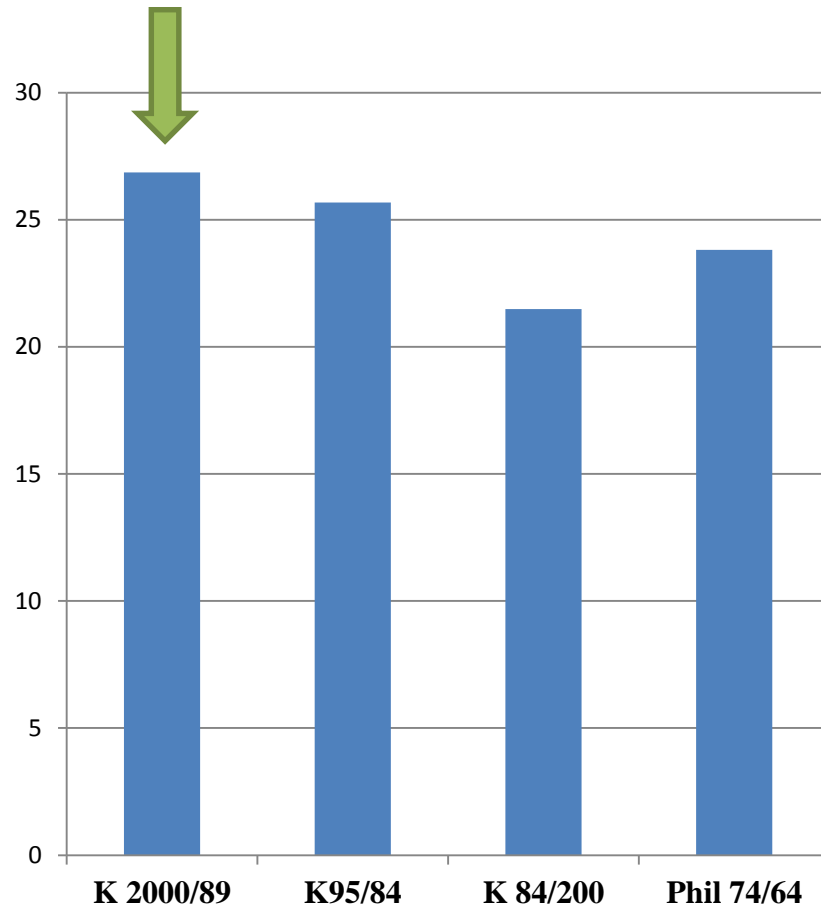
Table -1 Comparison of Yield and Yield Components

No.	Varieties	Average of plant population (50×4)'	Weight per plant (kg)	Girth(mm)			
				High	Middle	Low	Average
1	K2000/89	131	1.72	9.5	8	7	9.17
2	K95/84	80	2.52	13	9.8	8.5	10.4
3	K84/200	80	1.6	10	7.8	9	9
4	Phil74/64	124	1.32	8.8	7.1	7.4	7.76

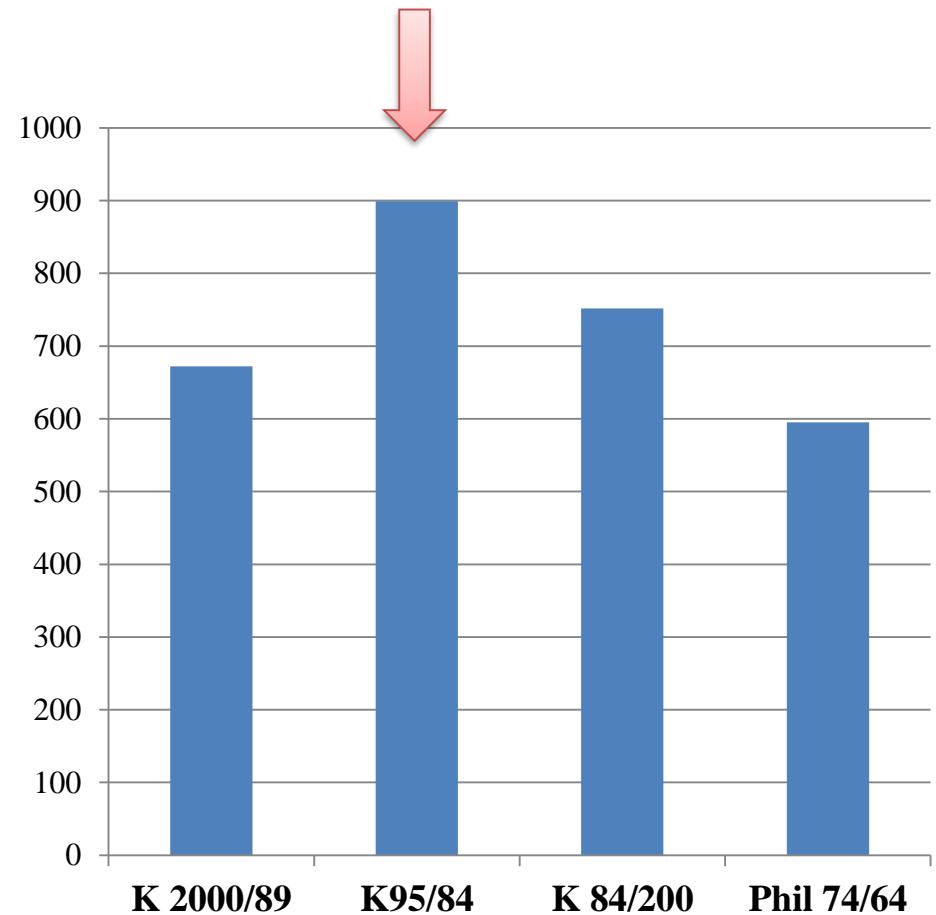
Table-2 Comparison of Yield and Yield Components

No	Varieties	Plant Height (cm)	No. of Nodes	Length of Internodes (cm)				Yield per /acre (ton)
				High	Middle	Low	Average	
1	K2000/89	237	20	12.5	11	9.8	11.1	26.86
2	K95/84	227	28	10.3	8	7.8	8.7	25.68
3	K84/200	204	22	7.5	10.5	5.2	7.7	21.49
4	Phil 74/64	213	26	11	10	7.0	9.3	23.81

Figure.2 Comparison of Sugarcane Yield and Sugar Plate Yield



Sugarcane Yield (ton)



Sugar Plate Yield (viss)

Conclusion

- ❖ K2000/89 - get maximum sugarcane yield(ton)
- ❖ K84/200 - get minimum sugarcane yield (ton) but second maximum sugar plates(viss)
- ❖ K 95/84 - get second maximum sugarcane yield(ton) but maximum sugar plates yield (viss)
 - suitable variety in Hlaing Bwe Township for sugarcane grown farmers.

Conclusion

- ❖ Next season, the following new sugarcane varieties will be grown in Hlaing Bwe Township.
 - (1) LK92/11
 - (2) DAR-4
 - (3) K2000/89
 - (4) K95/283
- ❖ Conclusion, K95/84 should be widely used and share knowledge to local farmers in Hlaing Bwe Township.





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Thank You