



The ACP Sugar Research Programme is a project of the ACP Group of States, funded by the European Union and implemented by the consortium SOFRECO, CERF, HAREWELLE.



GERMPLASM REVIEW – EVIDENCE AND APPROACHES THROUGH ACP-SRP FUNDED PROJECTS TO IMPROVING GENETIC DIVERSITY IN FIJI CROSSES

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The project was funded by the **EU** And
Implemented by The Sugar Research Institute of Fiji (**SRIF**)



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Overview

1. Introduction
2. Material & Methods
3. Results
4. Discussions/ Conclusion
5. Acknowledgment

The project... is funded by the **EU** And **Implemented by** The Sugar Research Institute of Fiji (**SRIF**)



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Introduction

- Germplasm review and speculations.
- ACP-SRP/ EU funded project - comparative study of family and individual mass selection methods as early selection criteria.
- Implemented in Fiji.



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Material & Methods

1. Prototype trial
2. Data analysis
3. Import of varieties.
4. Nobilization of *Erianthus*

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Results

RANDOMIZED COMPLETE BLOCK AOV TABLE FOR POCS					
Source	DF	SS	MS	F	P
Rep	3	25.883	8.62764		
Trt	49	55.731	1.13736	1.19	0.2108
Error	144	137.211	0.95286		
Total	196				

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RANDOMIZED COMPLETE BLOCK AOV TABLE FOR SUGAR YIELD					
Source	DF	SS	MS	F	P
Rep	3	22.073	7.35753		
Trt	49	254.335	5.19051	1.13	0.2897
Error	147	677.152	4.60648		
Total	199				

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Results cont.d

- 52 varieties imported
- 320 nobilization crosses conducted
- 270 sown.

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Discussions/ Conclusions

- No significant differences for %pocs, cqne qnd sugar yields
- Indicate narrow genetic base.
- Introducing foreign varieties
- Consistent parental line development - nobilization

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Acknowledgment

- SRIF Board & Management
- Plant Breeding Team/ workers at SRIF Rarawai sub-station/ family
- ISSCT 11th Germplasm & Breeding and 8th Molecular Biology committee

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