

**SUGAR REGULATORY ADMINISTRATION**  
**LA GRANJA AGRICULTURAL RESEARCH AND EXTENSION CENTER**  
**BRGY. LA GRANJA, LA CARLOTA CITY**



**VARIETY IMPROVEMENT AND PEST MANAGEMENT SECTION**

**Ecological Test, PHIL 2013 Series**

- Date of Completion of Study: November 2023
- Date of Completion of Terminal Report: December 2023

The study evaluated the plant crop performance of ten Phil 2013 series sugarcane varieties planted in La Carlota, BISCOM, SONEDCO, Victorias and Sagay Mill Districts from December 2022 to December 2023.

Significant differences between test and control varieties were observed in tonnage, sucrose content and sugar yield.

Highest variety mean and potential tonnage yield was obtained by Phil 2013-0279 with 118.37 TC/Ha and 181.21 TC/Ha, respectively. Highest tonnage yield was in Sagay Mill District with 149.17 TC/Ha.

Highest sucrose content was obtained by Phil 8013 with 2.23 LKg/TC followed by Phil 2013-0287 and Phil 2013-1153 with 2.12 LKg/TC. Sweetest canes were observed in BISCOM Mill District.

Phil 2013-0287 got the highest variety mean sugar yield with 248.36 LKg/Ha. The highest potential mean yield was obtained by Phil 2013-0279 with 354.88 LKg/Ha in Sagay Mill District. Highest sugar yield was in Sagay Mill District with 272.24 LKg/Ha.

In Gain-Even-Loss Tally, Phil 2013-0287, Phil 2013-0249 and Phil 2013-0279 gained in TC/Ha over VMC 84-524 in one to two locations and one location in LKg/Ha. These three varieties gave also even scores to both control varieties in LKg/TC and Phil 8013 in TC/Ha and LKg/Ha. These varieties are high in tonnage and sucrose content; sparse to very sparse flowering and resistant to smut, downy mildew, leaf scorch and moderate to yellow spot.

These varieties are recommended for further evaluation by the Variety Committee.

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