



SUGAR REGULATORY ADMINISTRATION
LA GRANJA AGRICULTURAL RESEARCH AND EXTENSION CENTER

SRA-LGAREC

2022 Annual Accomplishment Report

RESEARCH DEVELOPMENT AND EXTENSION – VISAYAS
LA GRANJA AGRICULTURAL RESEARCH AND EXTENSION CENTER
Brgy. La Granja, La Carlota City, Negros Occidental, Philippines



2022 ANNUAL ACCOMPLISHMENT REPORT

AGRICULTURAL RESEARCH DIVISION

Production Technology Crop Management Section
Variety Improvement and Pest Management Section
Soils Laboratory
Agro-Based Laboratory - Bacolod

AGRICULTURAL SUPPORT SERVICES DIVISION

Farm Services Unit
Support Services Unit
Trichogramma Laboratory

EXTENSION SERVICES DIVISION – VISAYAS

Adopt A Small Sugarcane Farming Family
Accelerated Development of Sugarcane HYV - Seed Farm Program
Capability Building of Sugarcane Farmers, Workers and SRE RDE Personnel
Technology Packaging
Beneficial Microorganisms (BMO) Production
SIDA Funded Projects

Department/Division: RD&E / Production Technology and Crop Management (PTCM)

Year: 2022

A. Program/Project: Agronomic Studies

Approved Budget: **Php: 341,000.00**

- Variety by Season of Planting
- Variety by Age of Harvest
- Variety x fertilizer
- Furrow Distance x Planting Density
- Tolerance of varieties to natural waterlogged condition
- Ratoon Performance of New HYV's
- Assessment of Selected SRA HYV's to Drought Tolerance

I. Highlights of Accomplishment

One of the mandates of the Production Technology and Crop Management (PTCM) Unit is to conduct agronomic tests on the promising varieties released by the Variety Improvement and Pest Management (VIPM) Unit of the Sugar Regulatory Administration. The yield potential of every variety is expressed by breaking barriers that limits yield. Undoubtedly, there are many factors that affect sugarcane growth and yield expression and one of the most important is the proper cultural management practices employed. Thus, several agronomic tests are being conducted every year.

Variety by Season of Planting, on the growth and yield performance of Phil 2008-1009, Phil 2009-1567, Phil 2010-0149 series planted at early, middle and late planting season, significant differences were observed among varieties in terms of stalk length and diameter. Longer stalks were observed on Phil 8013 having an average of 326.16 cm. Shortest stalks were obtained from Phil 2010-0149 having 263.62 cm. The Phil 2008-1009 got the biggest stalk having 2.84 cm while Phil 2009-1567 had the smallest with 2.26 cm.

Significant differences were observed among seasons of planting in growth parameters. Early planting got longer stalks comparable with middle planting having 333.64 cm and 320.72 cm respectively. Stalk diameter was significantly higher in early planted canes.

Variety and season of planting significantly influenced TC/Ha, LKg/TC and LKg/Ha. The variety Phil 2008-1009 got higher TC/Ha in all seasons of planting with 135.22 TC/Ha, 141.46 TC/Ha and 65.65 TC/Ha respectively. In terms of the LKg/TC, Phil 8013 had consistently higher sugar rendement in early, middle and late planting while Phil 2008-1009 had the lowest with a mean average of 1.80 LKg/TC. On sugar yield, Phil 8013 (245.72 LKg/Ha), Phil 2009-1567 (246.94 LKg/Ha) and Phil 2010-0149 (220.68 LKg/Ha) got higher LKg/Ha in early planting. Phil 8013

sustained its higher yield (400 LKg/Ha) in middle planting. All varieties were comparable in late planting season. Highest mean sugar yield (314.01 LKg/Ha) was obtained from middle planting.

Variety by Age of Harvest, on the yield performance of Phil Phil 2009-0919, Phil 2009-1567 and Phil 2010-0149 harvested at 10, 11 and 12 months after planting, Results showed that cultivars considerably varied in terms of sugarcane tonnage and sugar output, regardless of age. The maximum tonnage (109.95 TC/ha) and sugar yield (234.52 LKg/Ha) were achieved by Phil 2009-0919.

Sugar rendement varied according to harvest age and variety. The highest average LKg/TC was obtained from 12 months old cane (2.36 LKg/TC). Among the varieties, Phil 2010-0149 obtained the highest (2.38 LKg/TC) datum.

Variety by Fertilizer: treatments were consist of four levels of fertilization for each set: 0, 75, 150, and 225 kg N/Ha; 0, 75, 150, and 225 kg P₂O₅/Ha; and 0, 60, 120, and 180 kg K₂O/Ha, respectively. Results showed that the cane and sugar yields of Phil 2009–0919 were not significantly influenced by nitrogen fertilization. Although not significant, the highest cane yield of the plant was 98.41 TC/Ha, obtained at 225 kg N/Ha. Similarly, at 225 kg N/ha, the highest sugar yield of 230.40 LKg/ha was observed. Phil 2009–0919 plant cane was not significantly influenced by varying phosphorus fertilization rates. The cane yield of the plant ranged from 86.48 to 94.27 TC/Ha, while the sugar yield ranged from 209.04 to 242.36 LKg/Ha.

As with phosphorus fertilization, potassium fertilization had no effect on Phil 2009-0919. Cane and sugar yields were comparable regardless of potassium rates. Phil 2009-0919 yielded 75.04-99.52 TC/ha and 195.23-252.00 LKg/ha. Sugar rendement (LKg/TC) in Phil 2009-0919 was unaffected by N, P, and K fertilization rates. LKg/TC of Phil 2009–0919 ranges from 2.29–2.57. The highest net benefit from nitrogen fertilization of Phil 2009-0919 grown in Guimbalaon sandy clay loam soil was obtained at 225 kg N/ha. On the other hand, Phil 2009–0919 plant cane obtained the highest net benefits from phosphorus fertilization at 0 kg P₂O₅/ha and potassium fertilization at 120 kg K₂O/ha.

Furrow Distance by Planting Density: Different furrow distance and planting density had no significant effect on sugar yield in Phil 2009-0919. Sugar rendement varies between 2.19 and 2.35 LKg/TC. Cane yield (TC/Ha) and sugar yield (LKg/Ha) differed significantly at different furrow distance. Significantly higher tonnage was observed on canes planted at 1.3 meter furrow distance (103.80 TC/Ha), while significantly lower tonnage was observed on 1.5 meters (89.36 TC/Ha, comparable with 1.8 meter furrow distance (78.90 TC/Ha). Sugar yield was highest at 1.3 meter furrow distance (234.63 LKg/Ha), comparable to 1.5 meter (203.66 LKg/Ha), and lowest on canes planted at wider furrow distance (179.21 LKg/Ha).

No Significant interaction was observed on furrow spacing and planting density. Based on the results of the study, Phil 2009-0919 is best suited at 1.3 meter furrow distance. Using Phil 2009-0919, planting at a wider furrow distance of 1.5 to 1.8 meters could give lower yield results.

Tolerance of varieties to natural waterlogged condition, results showed significant differences

in terms of cane tonnage when waterlogged stress was imposed at tillering stage. Phil 2011-1683, Phil 2011-0899 and Phil 2011-1121 obtained significantly higher tonnage with 115.33 TC/Ha, 100.43 TC/Ha and 94.27 TC/Ha respectively. Significantly lower tonnage was observed on Phil 2011-0237 (72.99 TC/Ha).

Imposing waterlogged stress at the stalk elongation stage had a significant impact on cane tonnage. Significantly comparable tonnage were observed on Phil 2011-1683 (118.76 TC/Ha), Phil 2011-0899 (118.09 TC/Ha) and Phil 2011-0237 (103.32 TC/Ha) respectively. Phil 2011-1121 obtained significantly lowest tonnage of 75.39 TC/Ha.

The results of the study suggest that Phil 2011 series had different responses in waterlogged conditions imposed at two different growth stages. Phil 2011-1683, Phil 2011-0899 and Phil 2011-1121 can tolerate waterlogged condition when imposed at tillering stage while Phil 2011-1683, Phil 2011-0899 and Phil 2011-0217 are best suited in waterlogged condition imposed at stalk elongation stage.

Ratoon Performance of New High-Yielding Varieties: The experiment was already in its first ratoon and in the early stage of stalk elongation. Agronomic data such as number of internodes, plant height and tiller at 3 & 6 MAP (months after planting) were already consolidated and statistically analyzed. Data on cane yield, sugar rendement and sugar yield were already consolidated and will be analyzed statistically using Statistical Tool for Agricultural Research (STAR).

Assessment of Selected SRA HYV's to Drought Tolerance. This study aims to assess the resiliency of selected sugarcane high yielding varieties to drought condition. The experiment was laid out in the 4th quarter of 2021 but later abandoned due to force majeure (Typhoon Odette). The experiment will be relaid once the repair of the greenhouse is complete.

II. Best Practice/s Applied

- Standard cultural practices recommended by SRA were employed throughout the conduct of various studies.
- Use of digital and modern devices in measuring the physiological attributes of sugarcane crops under agronomic studies.
- Agronomic and harvest data gathered were examined using thorough statistical procedures.
- All agronomic studies were properly conducted according to the planned schedule of activities.
- Daily monitoring of field activities.

III. Photo Documentation



IV. Sustainability Plan

Proper coordination with the Variety Improvement and Pest Management (VIPM) and Farm Services unit that the newly released variety will be propagated immediately to ensure that the conduct of agronomic trials will not be delayed. The results of agronomic trials will be forwarded to extension services for dissemination to sugarcane industry stakeholders.

B. On-going/Program/Project: **Following: Its Effect on Sugarcane Yield & Economic Feasibility**

Approved budget: Php 53,000.00

I. Highlights of Accomplishment

The experiment was conducted to evaluate the effect of fallowing on the yields of Phil 2006 - 1899 and Phil 99-1793 and to determine which fallowing scheme can increase yield. The experiment was already in its third ratoon, all agronomic and harvest data were consolidated and analyzed using Statistical Tool for Agricultural Research (STAR). The incorporation of mungbean as fallow-plant was imposed after the harvesting of the plant cane. Fresh and dried weight of the harvested mungbean was collected for economic analysis.

II. Best Practice/s Applied

- Standard cultural practices recommended by SRA were employed throughout the study.
- Agronomic and harvest data gathered were examined using thorough statistical procedures.
- Protocols were properly implemented according to the planned schedule of activities.
- Daily monitoring of field activities.

III. Photo Documentation



IV. Sustainability Plan

Proper observation of the research protocol will be observed throughout the study. The result will be thoroughly evaluated and disseminated to stakeholders in the sugarcane industry.

C. On-going/Program/Project: Residual Effect of Miudpress on Growth & Yield of Sugarcane

Approved budget: Php 53,000.00

I. Highlights of Accomplishment

II.

The study aims to integrate and re-evaluate the use of organic fertilizer (in this case, mudpress) on sugarcane productivity. This will give the farmers another approach, knowing that the resources needed in implementing such system in their fields are available within their reach. Furthermore, the researchers of this study aim to reduce the application of NPK Recommended Rate as part of avoiding the use of synthetic fertilizers thus promoting labor- and cost-intensive farming systems. The study is now in its second ratoon, agronomic and harvest data in the first ratoon were already consolidated and analyzed. Soil sampling was done at 3 and 6 MAP (months after planting) to determine the optimum nutrient uptakes of the crop. The study will be terminated after the third ratoon crop.

II. Best Practice/s Applied

- Standard cultural practices recommended by SRA were employed throughout the conduct of various studies.
- Agronomic and harvest data gathered were examined using thorough statistical procedures.
- Protocols were properly implemented according to the planned schedule of activities.
- Daily monitoring of field activities.

III. Photo Documentation



IV. Sustainability Plan

Proper observation of the research protocol will be observed throughout the study. After the completion of the study, the result will be thoroughly evaluated and will be disseminated to the

sugarcane industry stakeholders. This will help to lower their production costs due to the spiraling prices of chemical fertilizers.

D. Program/Project: Sugarcane-Rice Intercropping

Approved budget: Php 11,000.00(for harvesting)

I. Highlights of Accomplishment

The study was focused on evaluating the suitability of sugarcane and upland – rice intercropping and its economic feasibility. The experiment was laid out in the 1st quarter of 2021 but abandoned 10 months later due to force majeure (severe damage by typhoon Odette).

II. Best Practice/s Applied

- Standard cultural practices recommended by SRA were employed throughout the study.
- Agronomic and harvest data gathered were examined using thorough statistical procedures.
- Protocols were properly implemented according to the planned schedule of activities.
- Daily monitoring of field activities.

III. Photo Documentation



IV. Sustainability Plan

The study should be re-laid out to properly evaluate the suitability of sugarcane-rice intercropping system. To include other crops as sugarcane intercrop so that it will be evaluated and could give additional income to sugarcane farmers.

E. Program/Project: Yield Comparison of Plantlets & One-eye Cuttings

Approved budget: Php 48,000.00

I. Highlights of Accomplishment

The experiment was conducted to determine the yield comparison of plantlets and one-eye cuttings at different levels of fertilization. The experiment was already in its first ratoon, all agronomic and harvest data were consolidated and analyzed using Statistical Tool for Agricultural Research (STAR).

II. Best Practice/s Applied

- Standard cultural practices recommended by SRA were employed throughout the study.
- Agronomic and harvest data gathered were examined using thorough statistical procedures.
- Protocols were properly implemented according to the planned schedule of activities.
- Daily monitoring of field activities.

III. Photo Documentation



IV. Sustainability Plan

Proper observation of the research protocol will be observed throughout the study. The researcher will propose a study that will make use of micropropagated plantlets and other related studies. The result will be thoroughly evaluated and disseminated to stakeholders in the sugarcane industry.

F. Program/Project: Micropropagation of SRA High Yielding Varieties Approved budget: Php 1,630,000.00

I. Highlights of Accomplishment

- A total of 44,920 hardened micropropagated plantlets were released and distributed to 74 different recipients/mill districts.

Table 1. Micro-propagated Plantlets Distribution & Recipients

| Variety | January 1 - December 31, 2022 | |
|----------------|-------------------------------|------------|
| | Distributed (pieces) | Recipients |
| Phil 2010-0149 | 5,700 | 3 |
| Phil 2006-2289 | 22,500 | 22 |
| Phil 99-1793 | 11,090 | 19 |
| Phil 2009-1969 | 4,900 | 27 |
| Phil 2011-0899 | 400 | 1 |
| Phil 2011-1683 | 150 | 1 |
| Phil 2011-0237 | 180 | 1 |
| Total | 44,920 | 74 |

Table 2. 2022 MICROPROPAGATION PROJECT (Jan-Dec)

| Variety & Month Released | Recipient | Number of Plantlets Released | Address |
|--------------------------|---------------------|------------------------------|------------------------------|
| January | | | |
| Phil 99-1793 | Jorjelyn E. Aungon | 1,000 | Kabankalan City, Negros Occ. |
| Phil 2006-2289 | Jorjelyn E. Ayungon | 1,000 | Kabankalan City, Negros Occ. |
| Phil2010-0149 | Jorjelyn E. Ayungon | 1,000 | Kabankalan City, Negros Occ. |
| | Total | 3,000 | |
| February | | | |
| Phil 99-1793 | Lopez MDDC | 4,000 | Sagay City, Negros Occ. |

| | | | |
|---------------------|-----------------------------|--------|-------------------------------|
| Phil 2006-2289 | Paul Azcona | 7,000 | Kabankalan City, Negros Occ. |
| Phil 2006-2289 | Exequiel Marañon | 3,000 | Brgy. Cabahug, Cadiz City |
| Phil 2009-1969 | Lopez MDDC | 600 | Sagay City, Negros Occ. |
| Phil 2009-0919 | Lopez MDDC | 400 | Sagay City, Negros Occ. |
| Phil2010-0149 | Terence Uygongco | 4,000 | Capiz, Iloilo |
| | Total | 19,000 | |
| March | | | |
| Phil 99-1793 | Ariel Batuigan(PCIC) | 100 | Brgy II, Isabela, Negros OCC> |
| | Ejay Badoles | 250 | CPSU, Kabankalan City |
| Phil 2006-2289 | Demi John V. Ayroso(PCIC) | 100 | Calinog, Iloilo |
| | Total | 450 | |
| April | | | |
| Phil 99-1793 | CAHUFWAS Block Farm | 1000 | Isabela |
| Phil 2006-2289 | Clarence Ortiz | 5000 | Himamaylan |
| Phil 2010-0149 | Jocelyn Noble | 700 | Hinigaran |
| | Total | 6700 | |
| May | | | |
| Phil 99-1793 | CMU | 1000 | Bukidnon |
| Phil 99-1793 | United Ilijan Block Farm | 650 | Bago City |
| Phil 2011-1683/0237 | PTCM (SRA-LGAREC) | 330 | SRA-LGAREC |
| | Total | 1980 | |
| June | | | |
| | NO RECIPIENTS | | |
| July | | | |
| | NO RECIPIENTS | | |
| August | | | |
| Phil 99-1793 | PHILSUTECH Participants(12) | 1,040 | Bacolod |
| Phil 2006-2289 | PHILSUTECH Participants(15) | 1,950 | Bacolod |
| Phil 2009-1969 | PHILSUTECH Participants(23) | 1,300 | Bacolod |
| | Total | 4,290 | |
| September | | | |
| Phil 99-1793 | Sheryl Guillen | 750 | Kabankalan City |
| Phil 2006-2289 | Sheryl Guillen | 250 | Kabankalan City |
| | Total | 1000 | |

| | | | |
|--------------------|-----------------------------|---------------|-----------------|
| October | | | |
| Phil 2009-1969 | Dax Manayon | 500 | Isabela |
| Phil 99-1793 | Dax Manayon | 500 | Isabela |
| Phil 2006-2289 | Stanley Lucasan | 3000 | Kabankalan City |
| | Total | 4,000 | |
| November | | | |
| Phil 99-1793 | Jocelyn Tupas | 800 | Isabela |
| Phil 2006-2289 | Jocelyn Tupas | 1,200 | Isabela |
| | Total | 2,000 | |
| December | | | |
| Phil 2009-1969 | Ma. Rodelia Evelyn Espiritu | 2000 | Dumaguete City |
| Phil 2009-1969 | Avelino Dingson | 500 | Binalbagan |
| | Total | 2500 | |
| GRAND TOTAL | | 44,920 | |

II. Best Practice/s Applied

- Standard laboratory practices recommended by SRA were employed in the entire duration of the project.
- Proper implementation of protocols on sterilization of explants, glassware and media as well as decontamination of used culture media.
- Adapting proper nursery management to reduce the mortality rate during potting out, hardening and transplanting of sugarcane seedlings.
- Proper disposal of used plastic bags and diseased plantlets to avoid harboring of pest and diseased/pathogens.
- Roguing of defective or diseased parts/plantlets

III. Photo Documentation



IV. Sustainability Plan

The sugarcane industry stakeholders will be able to avail the planting materials of newly released varieties of SRA through micropropagation technology. The distribution of plantlets should be properly planned, with a focus on small-scale sugarcane farmers.

G. Program/Project: Beneficial Microorganism (BMO) Mass Production

Approved budget: Php 430,568.00

I. Highlights of Accomplishment

A total of 16,454.02 gallons were produced and distributed to 246 beneficiaries at different mill districts. The highest distribution was recorded in La Carlota Mill District with a total of 5,830.93 gallons.

| MILL DISTRICT | January - December 2022 | |
|--------------------------|-------------------------|----------------------|
| | Volume | No. of Beneficiaries |
| La Carlota | 5,830.93 | 110 |
| Biscom | 4,818.13 | 43 |
| Kabankalan | 722.57 | 12 |
| Bacolod Murcia | 705.42 | 8 |
| AHSSI-HPCO-Silay-Talisay | 565.32 | 21 |
| Victorias | 1,010.85 | 15 |
| Lopez | 290.61 | 6 |
| Sagay-Danao | 227.21 | 8 |
| San Carlos | 496.69 | 5 |
| Bais-Ursumco | 31.70 | 5 |
| Bogo/Ormoc | 840.16 | 4 |
| Batangas MDDC/SRA-LAREC | 211.36 | 1 |
| Davao | 158.82 | 4 |
| SRA-BUSCO, BUKIDNON | 375.16 | 2 |
| PANAY/CAPIZ/PASSI | 169.09 | 2 |
| TOTAL | 16,454.02 | 246 |

| Name of Recipients | Address | Number of Gallons |
|---------------------------|-----------------------------------|-------------------|
| 1. Beverly M. Mañara | Brgy. Alegria, Murcia | 1.58 |
| 2. Ben Sombilona | Hda. Bucruz, La Carlota City | 79.26 |
| 3. Nicolas Kramer | Hda. España, Isabela, Negroa Occ. | 163.8 |
| 4. Marcos Escalante | Hda. Lourdes Manapla | 52.84 |
| 5. John Kenneth Fernandez | Bago City | 42.27 |
| 6. Francisco Manalo | Hda. Agho, La Castellana | 42.27 |
| 7. Carlos Dormido Jr. | Ma-ao, Bago City | 15.85 |
| 8. Benjamin Duran | La Castellana | 63.40 |

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| 9. Meil Gargar | Brgy. Cabahug, Cadiz City | 137.38 |
| 10. Eric Montinola | Hda. Alicante, Isabela, Negroa Occ. | 52.84 |
| 11. Alfredo Barcelona | Escalante City | 52.84 |
| Total | | 704.33 |
| February | | |
| 1. BASFA Block Farm | Calatrava | 105.68 |
| 2. Parick Zayco | Ma-ao, Bago City | 68.69 |
| 3. Farm Services | SRA, LGAREC | 26.41 |
| 4. Phillip Gary Balandra | Pontevedra | 31.7 |
| 5. Carlo Magno | San Enrique, Negros Occ. | 21.14 |
| 6. Joey Ledesma | (AHSSI), E.B. Magalona, Negros Occ. | 52.84 |
| 7. Raymond Montinola | AHSSI, Silay City | 26.42 |
| 8. MMDFA Block Farm(Regie V. Duran) | Calatrava, Negros Occ. | 132.1 |
| 9. Dino Gutierrez | Kabankalan City, Negros Occ. | 190.22 |
| 10. Ricardo Garcia (Canes and Stables) | Ayungon, La Carlota | 190.22 |
| 11. BACHFAS Block Farm | Brgy, Cansalungon, Isabela, Negros Occ. | 132.1 |
| 12. Meil Gargar | Brgy. Cabahug, Cadiz City | 184.97 |
| Total | | 1,162.49 |
| March | | |
| 1. Rose Marie Guanzon | Hda. Corazon, Antipolo, Pontevedra | 22.19 |
| 2. Eric Montinola | Hda. Alicante, Isabela, Negroa Occ. | 211.36 |
| 3. Capiz Sugar Central, Inc. | President Roxas, Capiz City | 42.27 |
| 4. Hiyang Hiyang Block Farm | Talisay City, Negros Occ. | 42.27 |
| 5. BACHFA Block Farm | Isabela, Negros Occ. | 68.69 |
| 6. BAFA Block Farm | Talisay City, Negros Occ. | 79.26 |
| 7. Bogo/Ormoc MDDC | Leyte, | 105.68 |
| 8. Adopt a Small Sugarcane Farm | Brgy. Inolingon, Moises Padilla | 73.97 |
| 9. Nilo Dingcong | Miranda, Pontevedra | 26.42 |
| 10. Vicente Baladhay | Brgy. Sag ang, Canlaon 2, La Castellana | 31.7 |
| 11. Alfredo Barcelona | Escalante City | 52.84 |
| 12. Helen Tranpanco | Sitio Bugkos, La Granja, La Carlota City | 10.56 |
| 13. Sagay Sugar Central(Patricia Cooper) | Sagay City | 10.56 |

| | | |
|--------------------------------------|--|-----------------|
| 14. Nick Kramer | Hda. España, Isabela, Negros Occ. | 105.68 |
| 15. Sheila Ordinario | San Carlos MDDC, San Carlos City | 52.84 |
| 16. Francisco Dueñas | Brgy. Nagasi, La Carlota City | 15.85 |
| 17. CALIFA Block Farm | Brgy. Sagang, La Castellana | 79.26 |
| 18. Violeta Integrated Farmers Asso. | Hda. Violeta, Kapitan Ramon, Silay City | 10.56 |
| 19. Jann Carlo Bustamante | Brgy. Mabini, Pontevedra | 10.56 |
| 20. Joselito Fuentes | Sagay City | 52.84 |
| 21. Eduardo Deocadez | Victorias MDDC, Victorias City | 14.8 |
| 22. Sheila Paltiguera | Hda. Carmel, Brgy. Magsaysay, Cadiz City | 31.7 |
| 23. Jose Huelar | RHI, San Carlos City | 5.28 |
| 24. Pamela Lintoco | Hda. De Fuego 2, Brgy. Bagtic Silay City | 5.28 |
| Total | | 1,162.42 |
| April | | |
| 1. Lolita Dayo | Bago City | 28.00 |
| 2. Emilda Aculit | Bago City | 28.00 |
| 3. Joerie Granflor | Bago City | 28.00 |
| 4. BISCFA | Moises Padilla | 184.94 |
| 5. Batangas MDDC | Batangas | 105.68 |
| 6. SRA LAREC | SRA LGAREC | 52.84 |
| 7. CAHUFWAS Block Farm | Isabela | 211.36 |
| 8. Meil Gargar | Cadiz City | 137.38 |
| 9. Farm Services | SRA LGAREC | 15.85 |
| 10. Sorayda Gidayawan | Silay City | 10.56 |
| 11. BUSCO | Bukidnon | 158.52 |
| 12. SRA Busco Bukidnon | Bukidnon | 5.28 |
| 13. Davao MDDC | Davao | 158.82 |
| 14. Efraim Alayon | Bukidnon | 52.84 |
| 15. Crystal Sugar Company | Maramag Bukidnon | 158.52 |
| 16. Grix Rafols | La Carlota City | 15.85 |
| 17. Hda. San Jose II workers ass. | Silay City | 10.57 |
| Total | | 1,362.71 |
| May | | |
| 1. Carlos Dormido Jr. | Ma-ao, Bago City | 21.14 |
| 2. Janet Alayon | Silay City | 10.56 |
| 3. Ormoc MDDC | Ormoc City | 52.84 |
| 4. HISUMCO | Ormoc City | 475.56 |
| 5. Montelo Farmer's Ass'n | Pinggog, Ilog | 52.84 |
| 6. Razel Nobleza | Silay City | 10.56 |
| 7. Eric Montinola | Isabela | 121.53 |

| | | |
|---------------------------------------|----------------------|-----------------|
| 8. Jean Beunaventura | Bago City | 52.84 |
| 9. Jerr Alvarez | Bago City | 52.84 |
| 10. Errol Gatumbato | Kabankalan City | 63.40 |
| 11. Joseph Vincent Acuña | Bacolod City | 158.52 |
| 12. Daniel Diamante | La Castellana | 52.84 |
| 13. Lucille Sy | Pontevedra | 26.42 |
| 14. Marilou Montano | Talisay City | 10.57 |
| 15. Alfredo Barcelona | Escalante | 52.84 |
| 16. Virgilio Gasacao | Kabankalan City | 52.84 |
| 17. Freddie Alvarez | Bago City | 26.42 |
| 18. Errol Himalay | Bago City | 26.42 |
| 19. Armando Suriaga | Bago City | 26.42 |
| 20. Mario De Los Reyes | Ma-ao, Bago City | 26.42 |
| 21. Florencia Blanca | Ma-ao, Bago City | 26.42 |
| 22. Maricel Dequiña | Bago City | 26.42 |
| 23. Benjie Salvador | Ma-ao, Bago City | 26.42 |
| 24. NAJABA Block Farm | Bago City | 52.84 |
| 25. Ma. Leni Etorma | Bago City | 26.42 |
| 26. DSPA Block Farm | Hinigaran | 105.68 |
| 27. Nilda Kagakit | Ma-ao, Bago City | 26.42 |
| 28. Progreso Agrarian Reform Coop. | Silay City | 10.57 |
| Total | | 1,727.85 |
| June | | |
| 1. Mary Grace Mana-ay | Bago City | 26.42 |
| 2. Lea Dohinog | Bago City | 26.42 |
| 3. Rene Verdad | La Carlota City | 52.84 |
| 4. Dione Abaday | Pontevedra | 52.84 |
| 5. Ormoc MDDC | Leyte | 52.84 |
| 6. Arnaldo Castillo | Talisay | 10.56 |
| 7. Biscom | Binalbagan | 10.56 |
| 8. Lougil Estember | Pontevedra | 105.68 |
| 9. Meil Gargar | Cadiz | 10.56 |
| 10. Ferdinand Emmanuel Gayoles | Bago | 52.84 |
| 11. Grix Rafols | La Carlota | 52.84 |
| 12. Alfredo Malacapay | Kabankalan | 21.14 |
| 13. Ralph Jalandoon | Pontevedra | 105.68 |
| 14. Joselito Fuentes | Sagay | 52.84 |
| 15. Joseildo Dayoha Sr. | Negros Oriental | 26.42 |
| 16. SCBI | San Carlos/Calatrava | 26.42 |
| 17. Lopez MDDC | Sagay | 31.70 |

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|--|----------------------------|-----------------|
| 18. BUCFA Block Farm | Sagay | 21.14 |
| 19. EARBA Block Farm | Murcia | 132.10 |
| 20. CAPDI | Batangas | 52.84 |
| 21. Gerry Ledesma | La Carlota | 105.68 |
| 22. Nick Kramer | Negros Occidental | 184.94 |
| 23. Ceasar Caduhada | Canlaon | 31.70 |
| 24. Ben Rodriguez | La Carlota | 52.84 |
| 25. Nestor Emmanuel Jalandoni | Neg. Occidental | 96.98 |
| 26. DSPA Block Farm | Hinigaran | 79.30 |
| 27. Al Montero | Hinigaran | 0.32 |
| 28. Philip Gary Balandra | Pontevedra | 5.28 |
| 29. DAFWARBA Block Farm | La Castellana | 132.10 |
| 30. Jhon Jong | Hinigaran | 79.26 |
| 31. Rafael Abello | Hinigaran | 105.68 |
| Total | | 1,878.02 |
| July | | |
| 1. Farm Servicecs | SRA LGAREC | 15.85 |
| 2. Carlos Dormido | Bago City | 21.14 |
| 3. Elena Libertad | Don Salvador Benedicto | 15.85 |
| 4. Joaquin Anilada | Binalbagan | 26.42 |
| 5. Jonathan Salvan | Binalbagan | 26.42 |
| 6. PASON Incorporated | Binalbagan | 105.68 |
| 7. LABHID Farmers Ass'n | Himamaylan | 158.52 |
| 8. Rene Silos | Himamaylan | 105.68 |
| 9. Panay Area Block Farm | Panay | 126.82 |
| 10. Camandag Rice & Sugar Farmers Ass'n, | La Castellana | 105.56 |
| 11. Jose Manuel Mapa | Silay City | 63.40 |
| 12. BCARBA Block Farm | Isabela | 158.52 |
| 13. Daniel Hilado | Murcia | 79.26 |
| 14. Normel Fajarito | Hinigaran | 21.14 |
| 15. Julian Geolingo | Lopez-Sagay | 121.53 |
| 16. Roberto Tiansay | Bago City | 5.28 |
| 17. Joey Ledesma | E.B Magalona | 68.69 |
| Total | | 1,225.76 |
| August | | |
| 1. Al Montero | Pontevedra | 5.33 |
| 2. Meil Gargar | Cadiz | 105.68 |
| 3. Marlyn Dela Cruz | Isabela, Negros Occidental | 10.57 |
| 4. Rosemarie Tingal | Isabela, Negros Occidental | 21.14 |
| 5. Brgy. Robles Small Farmers | La Castellana | 105.68 |
| 6. Canes and Stables | La Carlota | 72.26 |

| | | |
|-----------------------------------|----------------------------|-----------------|
| 7. Sugar Industry Foundation Inc. | Talisay, Negros Occidental | 5.28 |
| 8. ISARFAWA | Antipolo, Pontevedra | 105.68 |
| 9. BAARBA | Isabela, Negros Occidental | 105.68 |
| 10. BAFARFA | Kabankalan City | 79.26 |
| 11. Lougel Jhon Estember | La Carlota City | 79.26 |
| 12. Jose A. Barros | Murcia, Negros Occidental | 105.68 |
| 13. PROFABA | Payao, Binalbagan | 105.68 |
| 14. Farm Services | SRA-LGAREC | 15.85 |
| 15. Tagoc Agrarian Reform Coop. | Kabankalan City | 42.27 |
| 16. Dave Jereza | La Carlota City | 21.13 |
| 17. Jesus Daguna | Mabinay | 5.28 |
| 18. TAFWA Block Farm | Hinigaran | 52.84 |
| 19. Gerry Ledesma | La Carlota City | 105.68 |
| 20. BAFA Block Farm | Moises Padilla | 105.68 |
| 21. Saturnino Tuya Jr. | Moises Padilla | 105.68 |
| 22. Fernando Manuel Larañaga | Cebu | 132.10 |
| 23. Rolly Valencia | Himamaylan | 42.27 |
| 24. Jose Maria Valmayor | San Carlos | 105.68 |
| 25. Ferdinand Emmanuel Gayoles | Ma-ao, Bago City | 15.85 |
| 26. Benjamin Duran | La Castellana | 31.70 |
| Total | | 1,689.19 |
| September | | |
| 1. Sagay MDDC | Sagay City | 15.85 |
| 2. Farm Services | SRA-LGAREC | 15.85 |
| 3. CANDUMARAO Cluster Association | Hinigaran | 211.36 |
| 4. Freddie Villanueva | Pontevedra | 10.57 |
| 5. Farncis Milabo | Bago City | 15.85 |
| 6. Carlos Dormido | Bago City | 15.85 |
| 7. Grix Rafols | La Carlota | 58.12 |
| 8. Josie Barros | Murcia | 105.68 |
| 9. Isidro Bello | Isabela | 15.85 |
| 10. Bernardino Yulo | Isabela, Negros Occ. | 200.79 |
| 11. Hilbert Samillano, Murcia | Murcia | 10.57 |
| 12. Danilo Meguiso, La Castellana | La Castellana | 10.57 |
| 13. Dahryl Albañez, Isabela | Isabela | 79.26 |
| 14. Jose Maria Ledesma, Talisay | Talisay | 52.84 |
| 15. SRA-Farm Services | SRA LGAREC | 15.85 |

| | | |
|--------------------------------------|----------------------------|-----------------|
| 16. Sheryl Guillen, Kabankalan | Kabankalan City | 3.96 |
| 17. Melvin Evangelista, Cadiz | Cadiz City | 132.10 |
| 18. PAHURPAS Block Farm | Binalbagan | 132.10 |
| Total | | 1,103.02 |
| October | | |
| 1. Sta. Barbara Farmers Association | Cadiz City | 8.81 |
| 2. Hda. Alberto Farmers Association | Cadiz City | 8.81 |
| 3. Gracia Farmers Association | Cadiz City | 8.81 |
| 4. Alex Malicse | Pontevedra | 15.85 |
| 5. BACFA | Isabela | 132.10 |
| 6. AMHUFAS | Binalbagan | 132.10 |
| 7. Payao Hugpong Farmers Association | Binalbagan | 132.10 |
| 8. URC-SURE | La Carlota City | 15.85 |
| 9. Freddie Villamor | Pontevedra | 10.57 |
| 10. Lolita Betongga | Isabela, Negros Occidental | 132.10 |
| 11. Vincent Navarra | San Enrique | 15.85 |
| 12. Ma. Elena Camat | Pontevedra | 15.85 |
| 13. Natural Park Farmer Association | San Carlos City | 52.84 |
| 14. Dr. Cesero Mesiyas | Pontevedra | 26.42 |
| 15. Dharyll Albañez | Isabela, Negros Occidental | 290.62 |
| 16. Dax Mansayon | Hda. Salud, Isabela | 158.52 |
| 17. Vicente Baladhay Jr. | La Castellana | 21.14 |
| 18. Federico Montinola | Isabela, Negros Occidental | 52.84 |
| 19. John Paul Gamboa | Silay City | 31.70 |
| 20. Jose Barros | Murcia | 105.68 |
| Total | | 1368.56 |
| November | | |
| 1. La Carlota MDDC | La Carlota City | 26.42 |
| 2. Lucille Sy | Pontevedra | 21.14 |
| 3. Joey Ledesma | E.B Magalona | 15.85 |
| 4. CPSU | Moises Padilla | 31.70 |
| 5. Melanie Gepielago | Murcia | 7.93 |
| 6. Randy Gane | Himamaylan | 52.84 |
| 7. Glenn Ramos | Kabankalan City | 105.68 |
| 8. CPSU Moises Padilla | PACOMA, Isabela | 31.70 |
| 9. Jocelyn Joy Gomez | Bago City | 26.42 |
| 10. Pablito Legaspi | La Castellana | 13.21 |
| 11. Benjamin Loro | La Castellana | 13.21 |

| | | |
|--|----------------------------|-----------------|
| 12. Sugar Industry Foundation Inc. | Talisay City | 5.28 |
| 13. Darwen Vergara | Pontevedra | 10.56 |
| 14. Tugas Takas ARB Association | Hinigaran | 158.52 |
| 15. CPSU Moises Padilla | La Castellana | 31.70 |
| 16. Jhon Jong | Hinigaran | 79.26 |
| 17. Elesio Tagnia | La Castellana | 528.40 |
| 18. Danilo Meguiso | La Castellana | 10.56 |
| 19. Farm Services | SRA-LGAREC | 57.43 |
| 20. Aoril Joy Pido | Moises Padilla | 26.42 |
| 21. Fermina Swissa | Bago City | 169.08 |
| 22. Francis Leo Hilario | Moises Padilla | 105.68 |
| 23. Ricky Gadayan | Victorias City | 13.21 |
| 24. Edgar Alamon | Kabankalan City | 52.84 |
| 25. LQRIFA | Moises Padilla | 158.52 |
| 26. Maria Sa-onoy | Moises Padilla | 31.70 |
| Total | | 1785.26 |
| December | | |
| 1. Maria Sa-onoy | Moises Padilla | 31.70 |
| 2. Melanie Gepielago | Bago City | 10.57 |
| 3. Joey Ledesma | Silay City | 31.70 |
| 4. Lopez MDDC | Cadiz City | 31.70 |
| 5. Inayawan Small Sugarcane Farmer's Association | Cauayan | 5.28 |
| 6. Railside | Isabela, Negros Occidental | 158.52 |
| 7. Roger Espada | Hinigaran | 158.52 |
| 8. Melvin Ibañez | La Carlota City | 79.26 |
| 9. Farm Services | SRA-LGAREC | 15.85 |
| 10. Rodelo Erbito | Sagay City | 52.84 |
| 11. Palayog Farmer Worker Association | Hinigaran | 163.80 |
| 12. CARBA Block Farm | Hinigaran | 179.65 |
| 13. Stanley Lucasan | Kabankalan City | 52.84 |
| 14. Leyte Cane Planter Association | Leyte | 21.14 |
| 15. Miel Gargar | Cadiz City | 132.10 |
| 16. Vland Group | La Castellana | 158.94 |
| Total | | 1284.41 |
| GRAND TOTAL | | 16454.02 |

II. Best Practice/s Applied

- Standard laboratory practices recommended by SRA were employed in the entire duration of the project.
- Proper implementation of protocols on sterilization of glassware and media as well as decontamination of used culture media.
- Conducts training/demo on BMO production to different MDDC's.

III. Photo Documentation



IV. Sustainability Plan

Provision of beneficial micro-organisms(BMO) will be available, which will enhance the planter's soil conditions and will aid in lessening the application of inorganic fertilizers. Results of studies related to the use BMO will be disseminated to sugarcane industry stakeholders. More trainings/seminars will be conducted at different planters association and MDDC's.

H. Program/Project: PTCM Section Head Operation

Approved budget: Php 1,392,136.00

I. Highlights of Accomplishment

The Production Technology & Crop Management Unit (PTCM) is responsible in formulating and conducting researches on cultural management practices to increase and sustain productivity such as, efficiency in lime and fertilizer usage in relation to soil types climatic conditions, macro and micro nutrient elements and cost reduction practices; weed control and management and other cultural practices. Production Technology and Crop Management (PTCM) Unit is also mandated to conduct agronomic tests on the promising varieties released by the Variety Improvement and Pest Management (VIPM). In coordination with Support services, PTCM is tasked to implement the micropropagation technology that utilizes the rapid multiplication of newly released varieties of sugarcane and production/distribution of Beneficial Micro-organisms (BMO).

PTCM unit consists of four (4) technical and six (6) non-technical personnel. Technical personnel were assigned to conduct agronomic and other relevant research. They also served as resource speakers on sugarcane cultural management, micropropagation and BMO production.

The PTCM staff acted as resource speakers in the following seminars/symposiums

- Acted as resource speakers during OPSI Virtual Seminar on Methods of rapid HYVs propagation; Beneficial Micro-organism(BMO) and Sugarcane Cultural Management Practices.
- Acted as resource speakers during OPSI On-Site Seminar on Methods of rapid HYVs propagation; Beneficial Micro-organism(BMO) and Sugarcane Cultural Management Practices.
- Attended 2022 Philsutech Annual Convention.
- Attended 2022 RDE National In-House Review
- Attended 32nd WESVAARRDEC Regional Symposium on Research and Development Highlights.

II. Best Practice/s Applied

- Implementation of standard protocols in the conduct of Agronomic and other related research.
- Proper implementation of protocols in BMO and Micropropagation laboratory.
- Conducts training/demo on Micropropagation, BMO production and Sugarcane Cultural Management Practices to different MDDC's.

III. Photo Documentation



IV. Sustainability Plan

Technical personnel will continue to attend training and symposiums for research and innovation. Review the previous research and laboratory protocols to ensure that it is still on the right track. Conducts training and seminars on micropropagation, BMO and sugarcane cultural management practices for small-scale sugarcane farmers. Publishing of relevant results of agronomic trials and other research for information dissemination.

Department/Division: Research, Development and Extension- Variety Improvement and Pest Management Section

Year: 2022

A. PROGRAM/PROJECT: Pollination, Sowing and Seedling Care, Phil 2021 Series

Approved Budget: 1,063.612

I. Highlights of Accomplishment

During the 2021 breeding season, flowering of parental clones and varieties was late but of long duration with peak of full emergence observed on first week of November 2021.

Pollination work started October 19 and ended November 28, 2021, utilized 87 female and 48 male selected parents. A total of 260 arrows from 203 biparental cross combinations were pollinated. From these, 259 arrows from 203 biparental crosses were harvested.

The sowing of fuzz in 203 seed boxes from November 26 to December 12, 2021 resulted in the germination of seedlings in 203 biparental crosses consisting of 259 arrows. Medium to very good germination was observed in 33% percent of the crosses. Overcrowded seedlings in 67 parental crosses were pricked in 443 seed boxes.

Seedlings in 646 seed boxes were given proper care and management like regular watering, fertilization, spraying of insecticides and fungicides, trimming of leaves, weeding and cultivation prior to transplanting in June 2022.

Sugar Regulatory Administration's mission is "to provide Research, Development and Extension Services to ensure sufficient supply of sugarcane for a diversified, sustainable and competitive industry that improves productivity and profitability of sugarcane farmers and processing industries, and processing industries, and provides decent income for workers towards enhancing the quality of life of Filipinos." Breeding of high yielding varieties is a valuable program for the realization of the agency's mission. This project is Stage II of the SRA Sugarcane Variety Improvement Program (SVIP) which utilizes sugarcane parent materials during the pollination period and is the most critical stage in the production of future high yielding varieties of sugarcane.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)

- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Harvesting of arrows and tapping of male flowers.

IV. Sustainability Plan

Improvement of usual protocols is being implemented. The personnel involved continue to study researches and propose for projects that will ensure the parentals that will be used would be the best combinations for better seedlings, thus better, if not best varieties for release to farmers in the future. Introgression is a project that is being looked into for improvement of the genetic base of sugarcane varieties.

B. PROGRAM/PROJECT: Single Seedling Plot Test, PHIL 2020 Series

Approved Budget: 923,336

I. Highlights of Accomplishment

The 2020 hybridization work which produced a total of 66,488 seedlings from 172 bi-parental crosses were transplanted from June 16-25, 2021. From these, 41,924 seedlings from 170 bi-parental crosses survived in the field with a survival rate 63.05%.

Sugar Regulatory Administration's mission is "to provide Research, Development and Extension Services to ensure sufficient supply of sugarcane for a diversified, sustainable and competitive industry that improves productivity and profitability of sugarcane farmers and

processing industries, and processing industries, and provides decent income for workers towards enhancing the quality of life of Filipinos.” Breeding of high yielding varieties is a valuable program for the realization of the agency’s mission. This project is Stage III of the SVIP where seedlings from the Pollination, Sowing and Seedling Care Project are transplanted in the field, provided with proper cultural practices, and subjected to selection.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Data collection (brix reading and diameter measurement).

IV. Sustainability Plan

Seedlings produced every year for crosses performed should undergo this stage. Researchers of this project make sure protocols are properly observed. Criteria for selection of clones is strictly implemented. This will ensure clones forwarded to the Row Test are the best among the thousands of clones planted.

C. PROGRAM/PROJECT: Row Test, PHIL 2019 Series

Approved Budget: 280,000

I. Highlights of Accomplishment

Row Test, Phil 2019 Series was conducted in April 2021 to March 2022 as the 4th stage of the Breeding Program of SRA-LGAREC where 927 clones were selected from the 225 bi-parental crosses in Phil 2019 Series Single Seedling Plot Test. From these, 348 clones with good agronomic characteristics based on brix reading, average tiller per stool, average diameter, weight per stalk and flowering observation were selected for the next stage of the Breeding Program, the Multiplication and Disease Screening Stage.

This is Stage IV of the SVIP where the first single-eye seed piece planting of clones selected from the Single Seedling Plot Test. Selection of promising clones is based on the agronomic and morphological characteristics as well as disease reaction of the plants. This accomplishment helps in achieving the production and development of improved sugarcane varieties that meet clients' expectations and are adapted to the ever-changing climate condition.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Field lay-out and planting

IV. Sustainability Plan

Researchers of this project make sure protocols are properly observed. Criteria for selection of clones is strictly implemented. This will ensure clones to be forwarded to the Multiplication I are the best among the hundreds of clones planted.

D. PROGRAM/PROJECT: Multiplication I, Phil 2019 Series

Approved Budget: 141,000

I. Highlights of Accomplishment

Three hundred forty-eight Phil 2019 Series clones selected from Row Test, Phil 2019 Series were multiplied (Multiplication I) and simultaneously tested for smut. Multiplication I was laid out and planted in January 2022. Care and maintenance of sugarcane plants were done based on SRA cultural practices. One hundred eighty clones were selected for Multiplication II and Downy Mildew screening in September 2022 based on their agronomic and morphological characteristics.

This accomplishment helps in achieving the production and development of improved sugarcane varieties resistant to diseases that meet clients' expectations and are adapted to the ever-changing climate condition.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Selection of clones

IV. Sustainability Plan

Researchers of this project make sure protocols are properly observed. Criteria for selection of clones is strictly implemented. This project will be validated in the laboratory using markers for Smut disease resistance or susceptibility.

E. PROGRAM/PROJECT: Multiplication II, Phil 2018 series

Approved Budget: 210,000

I. Highlights of Accomplishment

One hundred ninety-seven clones were selected from first Multiplication Stage of Sugarcane Variety Improvement Program based on the result of Smut Resistance Trial Phil 2018 series. Selected clones were propagated and screened in Downy Mildew Disease to evaluate the resistance of clones. Thirty clones were selected for Preliminary Yield Test and tested for Leaf Scorch, Yellow Spot Screening and Smut verification.

This accomplishment helps in achieving the production and development of improved sugarcane varieties resistant to diseases that meet clients' expectations and are adapted to the ever-changing climate condition.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time

- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Harvesting

IV. Sustainability Plan of the PAP

Researchers of this project make sure protocols are properly observed. Criteria for selection of clones is strictly implemented. This project will be validated in the laboratory using markers for Downy Mildew disease resistance or susceptibility.

F. PROGRAM/PROJECT: Preliminary Yield Test, Phil 2016 Series

Approved Budget: 160,000

I. Highlights of Accomplishment

The Preliminary Yield Test of Phil 2016 series was conducted at SRA, La Granja Agricultural Research and Extension Center, La Carlota City to determine the yield and agronomic performance of sugarcane clones under representative environmental conditions and to select and recommend promising clones/varieties for ecological testing. There were 30 entries selected from Phil 2016 Series Multiplication II with Phil 8013 and VMC 86-550 as control varieties. Preliminary Yield Test is the Stage VI of the on-going Sugarcane Variety Improvement of SRA.

The yield performance of Phil 2016 series clones showed there were nine clones that stood out with high tonnage over the control variety VMC 86-550. Two clones were significantly higher in sucrose content compared to Phil 8013. Four clones were significantly higher in LKg/Ha compared to control variety VMC 86-550 while the remaining clones were statistically comparable, if not, lower to one or both controls.

Ten promising clones were selected and recommended for further evaluation in the Ecological Test namely; Phil 2016-145-1281, Phil 2016-115-1121, Phil 2016-99-0773, Phil 2016-114-1085, Phil 2016-85-0647, Phil 2016-82-0619, Phil 2016-78-0573, Phil 2016-75-0469, Phil 2016-99-0781 and Phil 2016-52-0373.

This accomplishment helps in achieving the production and development of improved sugarcane varieties resistant to diseases, high tonnage, high sucrose and high yielding that meet clients' expectations.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Data collection and putting of sample tags

IV. Sustainability Plan of the PAP

Researchers of this project make sure protocols are properly observed. Criteria for selection of clones is strictly implemented. This project will be validated in the laboratory using markers for high sucrose and other agronomic traits once markers for such traits are established.

G. PROGRAM/PROJECT: Preliminary Yield Test, Phil 2017 Series

Approved Budget:

I. Highlights of Accomplishment

To assess the yield and agronomic performance of sugarcane clones under typical environmental conditions and to identify and suggest promising clones/varieties for ecological testing, the Preliminary Yield Test of Phil 2017 series was carried out at SRA, La Granja Agricultural Research and Extension Center, La Carlota City. With Phil 8013 and VMC 86550 serving as the control variety, 30 entries from Phil 2017 Series Multiplication II were chosen. The ongoing Sugarcane Variety Improvement of SRA is in Stage VI, the Preliminary Yield Test.

The yield performance of Phil 2017 series clones showed that there were two clones showed significantly higher in tonnage yield compared to both controls. These varieties were Phil 17-96-1743 and Phil 17-51-0951 with a tonnage mean of 101.52 TC/Ha and 108.59 TC/Ha, respectively. Eighteen (18) clones showed statistically comparable than Phil 8013 and eleven clones to control variety VMC 86-550 in sucrose content. In sugar yield, Phil 17-56-1179 was the only test clone surpassed VMC 86-550 with a mean of 221.84 LKg/Ha. Fifteen clones were statistically comparable while the rest of the clones were significantly lower to VMC 86-550.

Ten promising clones were selected and recommended for further evaluation in the Ecological Test namely; Phil 2017-59-1331, Phil 2017-64-1397, Phil 2017-54-1065, Phil 2017-34-0539, Phil 2017-56-1179, Phil 2017-124-2093, Phil 2017-106-1921, Phil 2017-96-1743, Phil 2017-43-0849 and Phil 2017-51-0951.

This accomplishment helps in achieving the production and development of improved sugarcane varieties resistant to diseases, high tonnage, high sucrose and high yielding that meet clients' expectations.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time

- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Data collection (Counting of millable stalks and measuring plant height).

IV. Sustainability Plan of the PAP

Researchers of this project make sure protocols are properly observed. Criteria for selection of clones is strictly implemented. This project will be validated in the laboratory using markers for high sucrose and other agronomic traits once markers for such traits are established.

H. PROGRAM/PROJECT: Propagation of High Yielding Varieties (HYVs)

Approved Budget:

| | | |
|-----------------|---|---------|
| Propagation I | - | 353,792 |
| Propagation II | - | 115,000 |
| Propagation III | - | 135,000 |

I. Highlights of Accomplishment

* Propagation I, PHIL 2018 Series

Thirty promising Phil 2018 Series clones were planted and maintained in SRA-LGAREC from April 2022 to October 2022 in preparation for Propagation II. The canepoints to be

produced will be further propagated to increase number of planting materials needed for the Ecological Test in different locations nationwide.

*** Propagation II, PHIL 2017 series**

Thirty promising Phil 2017 Series clones/varieties were propagated in SRA-LGAREC from November 2021 to May 2022. These were cutbacked and the canepoints produced were further propagated to increase number of planting materials. Ratoon of these clones/varieties were also maintained and cultured to facilitate additional supply of planting materials.

*** Propagation II, PHIL 2016 Series**

Thirty promising Phil 2016 Series clones/varieties were propagated in SRA-LGAREC from November 2021 to May 2022. These were cutbacked and the canepoints produced were further propagated to increase number of planting materials. Ten of these varieties will be propagated for the Ecological Test in different locations. Ratoons of these clones/varieties were also maintained and cultured to facilitate additional supply of planting materials.

*** Propagation III, PHIL 2015 Series**

Ten selected varieties of Phil 2015 Series were planted and propagated in SRA-LGAREC from May 2021 to January 2022 as Propagation III, the source of planting materials for the National Cooperative Test/Ecological Test in different locations nationwide. These varieties were: Phil 2015-31-0095, Phil 2015-56-0445, Phil 2015-107-0943, Phil 2015-107-0953, Phil 2015-92-1083, Phil 2015-64-0631, Phil 2015-56-0433, Phil 2015-66-0675, Phil 2015-80-0821 and Phil 2015-103-0867.

*** Propagation III, PHIL 2014 Series**

Ten selected varieties of PHIL 2014 Series were planted and propagated in SRA-LGAREC from May 2021 to January 2022 as Propagation III, the source of planting materials for the National Cooperative Test/Ecological Test in different locations nationwide. These varieties were: Phil 2014-01-0013, Phil 2014-89-0727, Phil 2014-14-0085, Phil 2014-90-0747, Phil 2014-82-0679, Phil 2014-55-0417, Phil 2014-59-0451, Phil 2014-53-0405, Phil 2014-19-0125 and Phil 2014-41-0267.

This accomplishment helps in achieving the production and development of improved sugarcane varieties that meet clients' expectations and are adapted to the ever-changing climate condition. Aside from providing cane points for NCT projects, propagated clones are also utilized as male parentals in the Pollination, Sowing and Seedling Project.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Preparation of cane points (cutback).

IV. Sustainability Plan of the PAP

Researchers of this project make sure protocols are properly observed. Clones for propagation will be also screened in the laboratory. Flowering clones will be used as male parentals.

I. PROGRAM/PROJECT: Smut Resistance Tests

Approved Budget: 170,000

I. Highlights of Accomplishment

* PHIL 2016 Series (PYT Stage, Plant Cane & Ratoon)

Thirty clones were selected out of 200 clones from Multiplication II Phil 2016 series. These clones including VMC 86-550 and Phil 8839 as control variety were inoculated with smut spores to test their resistance to the disease. These were incubated for two days and planted in field in 5 meters long and replicated four times in each clone.

Collection of data was done one month after planting and bi-monthly until 6 months, same with the ratoon.

In plant cane, results showed that 13 clones were very highly resistant, 11 highly resistant, 2 resistant, 2 intermediate resistant, 1 intermediate average and 1 susceptible to the disease. While in ratoon cane, 13 were very highly resistant, 8 highly resistant, 1 resistant, 2 intermediate resistant, 4 intermediate average, 1 intermediate susceptible and 1 highly susceptible. Only resistant clones will be selected for Ecological Testing.

*** PHIL 2017 Series (PYT Stage, Plant Cane & Ratoon)**

Thirty clones were selected out of 197 clones from Multiplication II Phil 2017 series. These clones including VMC 86-550 and Phil 8839 as control variety were inoculated with smut spores to test their resistance to the disease. These were incubated for two days and planted in field in 5 meters long and replicated four times in each clone.

Collection of data was done one month after planting and bi-monthly until 6 months, same with the ratoon.

In plant cane, results showed that 30 clones were very highly resistant while in ratoon cane, 25 were very highly resistant, 3 highly resistant, 1 resistant and 1 intermediate average. Only resistant clones will be selected for Ecological Testing.

*** PHIL 2019 Series at Row Test**

Three hundred forty-eight clones and two check varieties were inoculated with smut spores to test their resistance to the disease. These clones were incubated for two days and planted in plastic bags at 20 replicates for each clone.

Collection of data was done one month after planting and bi-monthly thereafter until six months.

Results showed that 270 clones were very highly resistant, 2 highly resistant, 11 resistant, 25 intermediate resistant, 7 intermediate average, 9 intermediate susceptible, 11 susceptible, 3 highly susceptible and 10 very highly susceptible to the disease. Only resistant clones will be propagated in Multiplication II and further tested to downy disease.

Disease screening tests/trials are very important in the production of improved and better yielding varieties.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Preparation of canepoints (left) and scraping of smut inoculum (right).

IV. Sustainability Plan of the PAP

Researchers should review and improve protocols if necessary. Disease Resistance Trial results will be validated in the laboratory thru PCR (Polymerase Chain Reaction).

J. **PROGRAM/PROJECT: Downy Mildew Resistance Test, PHIL 2018 Series (Plant Cane & Ratoon)**

Approved Budget: 158,000

I. **Highlights of Accomplishment**

One hundred ninety seven selected clones of Phil 2018 series were tested against downy mildew of sugarcane. The experiment was laid-out in randomized complete block design with four replications, under La Granja conditions. VMC 86-550 was used as spreader rows, were also laid-out in between test clones to ensure natural infection. Determination of the disease rating was done by phenotypic screening. Rating of downy mildew was scored based on International Rating Scale.

In plant cane, the reactions of the test clones to the disease are as follows; six (6) clones were very highly resistant, twenty-one (21) highly resistant, seventeen (17) resistant, thirty (30) intermediate resistant, thirty-one (31) intermediate average, fourteen (14) intermediate susceptible, twenty-four (24) susceptible, seventeen (17) high susceptible and thirty-seven (37) very highly susceptible. While in ratoon cane, sixteen (16) clones were very highly resistant, ten (10) highly resistant, twenty-one (21) resistant, twenty-six (26) intermediate resistant), nineteen (19) intermediate average, twenty (20) intermediate susceptible, thirteen (13) susceptible, twenty-one (21) highly susceptible and fifty-one (51) very highly susceptible. VMC 86-550, used as spreader row consistently got a rating of 9 which is very highly susceptible. Clones with ratings 1-4 were recommended for further testing.

Disease screening tests/trials are very important in the production of improved and better yielding varieties.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Data collection (Infection count)

IV. Sustainability Plan of the PAP

Researchers should review and improve protocols if necessary. Disease Resistance Trial results will be validated in the laboratory thru PCR (Polymerase Chain Reaction).

K. PROGRAM/PROJECT: Yellow Spot Resistance Test, PHIL 2016 and 2017 Series

Approved Budget: 95,000

I. Highlights of Accomplishment

Thirty clones of the Phil 2016 series were rated for resistance to yellow spot disease. The trial was conducted from February 2021 to February 2022. Natural method of infection was employed by planting diseased clones in between 2 rows of test clones. Two (2) clones were found very highly resistant, eight (8) highly resistant, six (6) resistant, nine (9) intermediate resistant, two (2) intermediate average and three (3) susceptible to the disease.

Thirty clones of the Phil 2017 series were rated for resistance to yellow spot disease. The trial was conducted from April 2021 to April 2022. Natural method of infection was employed by planting diseased clones in between 2 rows of test clones. One (1) clone was found very highly resistant, six (6) highly resistant, eight (8) resistant, five (5) intermediate resistant, four (4) intermediate average, one (1) intermediate susceptible, three (3) susceptible and two (2) very highly susceptible to the disease.

Disease screening tests/trials are very important in the production of improved and better yielding varieties.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation

IV. Sustainability Plan of the PAP

Researchers should review and improve protocols if necessary. Disease Resistance Trial results

will be validated in the laboratory thru PCR (Polymerase Chain Reaction).

L. PROGRAM/PROJECT: Leaf Scorch Resistance Test, PHIL 2016 and 2017 Series

Approved Budget: 99,000

I. Highlights of Accomplishment

Thirty clones of the Phil 2016 series were rated for resistance to leaf scorch of sugarcane. The test was conducted from February 2021 to February 2022. The method of infection employed was a combination of artificial and natural means. Disease reaction of the test clones was assessed 10 months after planting. Twelve (12) clones were resistant, eleven (11) were intermediate resistant, four (4) intermediate average and three (3) intermediate susceptible.

Disease screening tests/trials are very important in the production of improved and better yielding varieties.

II. Best Practice/s Applied

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation

IV. Sustainability Plan of the PAP

Researchers should review and improve protocols if necessary. Disease Resistance Trial results will be validated in the laboratory thru PCR (Polymerase Chain Reaction).

M. PROGRAM/PROJECT: Ecological Test, Phil 2012 Series

Approved Budget: 1,380,000

I. Highlights of Accomplishment

The study evaluated the plant crop performance of ten selected Phil 2007 and Phil 2012 series sugarcane varieties planted in La Carlota, BISCOM, SONEDCO, Victorias and Sagay Mill Districts from December 2020 to January 2022.

Highest variety mean tonnage was obtained by Phil 2012-0455 with a mean of 121.57 TC/Ha while the highest potential tonnage yield in all locations was observed in La Carlota Mill District on Phil 2012-1373 with 159.36 TC/Ha.

Phil 2007-0563 got the highest variety mean sucrose content with 2.40 Lkg/TC. Three varieties significantly highest in sucrose content compared to the control variety VMC 84-524 in SONEDCO MD namely; Phil 2007-0243, Phil 2007-0563 and Phil 2007-0359. Sweetest canes were observed in SONEDCO MD.

Highest variety mean sugar yield was obtained by control variety Phil 8013 with 260.79 Lkg/Ha. Highest sugar yield was obtained by La Carlota MD compared to other locations with 293.74 Lkg/Ha.

In Gain-Even-Loss Tally, Phil 2007-0359 gained over VMC 84-524 in one location in terms of LKg/TC and gave even scores to all location in TC/Ha and LKg/Ha. Phil 2012-0475 gave even scores to both controls in TC/Ha, LKg/TC and LKg/Ha. Phil 2012-1263 got loss scores to Phil 8013 in one location in LKg/TC but gave even scores to both controls in TC/Ha and LKG/Ha in all locations. Phil 2012-0483 got also loss scores compared to both controls in one location in LKg/TC but gave even scores to both controls in TC/Ha and LKg/Ha. These four varieties were medium to high in tonnage and sucrose content; sparse to very sparse flowering.

Sugar Regulatory Administration's mission is "to provide Research, Development and Extension Services to ensure sufficient supply of sugarcane for a diversified, sustainable and competitive industry that improves productivity and profitability of sugarcane farmers and processing industries, and provides decent income for workers towards enhancing the quality of life of Filipinos." Breeding of high yielding varieties is a valuable program for the realization of the agency's mission. This project is the last stage of the SRA Sugarcane Variety Improvement Program (SVIP) which screens the best clones among 10 entries that were tested in different locations. This ensures the consistency of the performance of varieties grown in different topographic and climatic conditions, thus, resulting to recommending the best variety/varieties to be released to farmers.

II. Best Practice/s (if applicable)

- Planning/scheduling of activities for the year for each project ahead of time

- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Data Collection and Monitoring



Characterization of Varieties



Harvesting

IV. Sustainability Plan of the PAP

Researchers ensure proper protocols on screening of potential varieties will be implemented. Validation in the laboratory will also be employed thru markers for diversity and diseases. This will be done across NCT/Ecotest varieties per site.

N. PROGRAM/PROJECT: Flower Induction Nursery

Approved Budget: 310,284

I. Highlights of Accomplishment

The goal of the project is to get potential varieties to flower so that they can be used as parentals in breeding. Last December 2021, 44 potential varieties from the germplasm were ratooned in a humid and elevated place in Canla-on City.

Fifteen varieties flowered out of the 44 selections, namely: Phil 90-60-0557, Phil 90-61-0567, Phil 91-8-0085, Phil 91-8-0661, VMC 84-947, VMC 86-550, Phil 99-1793, VMC 71-39, Phil 8361, Phil 97-3501, Phil 97-617-3161, Phil 03-1389, Phil 07-0359, Phil 07-0563 and Phil 08-1009.

All varieties maintained were marcotted on the 2nd week of August 2022. Marcotted plants with flowers were used in pollination last October-November 2022.

This project will augment the needed parent materials for the Pollination, Sowing and Seedling Care Project. We can look forward to better combinations in the crosses, which later on will result to better performing varieties.

II. Best Practice/s

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Marcotting



Harvesting of flowers

IV. Sustainability Plan of the PAP

More priority parentals will be planted in the Flower Induction Nursery. Additional sites for the Flower Induction Nursery are also considered to induce flowering of other potential parental varieties

0. PROGRAM/PROJECT: Sugarcane Disease Garden as Source of Inocula for Resistance Trials

Approved Budget: 1,307,480

I. Highlights of Accomplishment

Seven varieties namely: Phil 6111, Phil 7464, Phil 7779, Phil 8839, Phil 8013, Phil 56226, VMC 86550 and mixed clones were ratooned last January 2022 to December 2022 to augment inocula for disease resistance studies. These varieties served as resistant and susceptible checks for resistance trials to smut, downy mildew, yellow spot, and leaf scorch.

Disease screening tests/trials are very important in the production of improved and better yielding varieties. This project provides the needed inocula for all the resistance trial tests.

II. Best Practice/s

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Field monitoring

IV. Sustainability Plan of the PAP

Researchers will perform in vitro cultures of the inocula for further identification (strains, etc) and will conduct genetic material extraction. These will then be sent to sequencing facility. Results will be useful in diagnosis and treatment of diseases in the future.

P. PROGRAM/PROJECT: Germplasm Collection, Characterization and Maintenance

Approved Budget: 707,336

I. Highlights of Accomplishment

Thirty new Ecotest entries and 10 accessions from UPLB Institute of Plant Breeding were added in the Germplasm Collection for the year 2022. Eight hundred varieties/clones were characterized agronomically. Brix reading, flowering and stalk diameter were gathered to primarily provide information for selection of parent materials.

Broadening of genetic bases of sugarcane will improve sugarcane varieties. With this, a collection of diverse accessions for future crosses will be useful.

II. Best Practice/s

- Planning/scheduling of activities for the year for each project ahead of time
- Daily monitoring of field activities (reporting of packiao team leaders to Science Aides, then Science Aides to technical personnel regarding progress of activities)
- Establishing good working relationship among technical and non-technical personnel including field packiaos

III. Photo Documentation



Data collection (characterization of leaf length and width measurement).

IV. Sustainability Plan of the PAP

Researchers are planning propose a project that will conduct collections from different parts of the Philippines. Revival of variety exchange with other countries is also being considered.

A. ON-GOING PROGRAM/PROJECT: Pollination, Sowing and Seedling Care, PHIL 2022 Series

Approved Budget: 1,063,612

The crossing program for 2022 has the primary objective of producing high yielding and disease resistant varieties that could adapt to specific and wider ecologic zones of the country. As a secondary objective, the program aims to select parent materials with good combining ability, resistance to diseases and with good agronomic characteristics.

Five hundred parent materials were ratooned in a 3.16 hectare crossing block area from November 2021 to February 2022. Two thousand five hundred stalks from 200 selected female parents were marcotted on the 3rd week of August 2022. Pollination work started on the 2nd week of October and ended on December 2022. Accordingly, sowing of fuzz started on the 3rd week of November and ended on December of 2022. Seedling care will continue until the transplanting of seedlings on May to June 2023.



Collection and preparation of flowers for pollination.

B. ONGOING PROGRAM/PROJECT: Single Seedling Plot Test, PHIL 2021 Series

Approved Budget: 923,336

The 73,408 seedlings from 203 bi-parental crosses produced in the 2021 crossing program

were transplanted in a 5.56 hectare-area from June 11 to July 10, 2022. Seedlings were transplanted singly along the furrows on holes previously made at a distance of one meter between furrows and 30 centimeters between seedlings. Three-eye cuttings of Phil 56-226 were planted every 20 seedlings to serve as control variety during selection work. Survival count one month after transplanting showed 43,426 seedlings survived in the field with a survival rate of 59.60%. Selection of promising clones will be done on March to April 2023.

C. ONGOING PROGRAM/PROJECT: Row Test, Phil 2020 Series

The field test was planted in April 2021 using 667 clones selected from the Single Seedling Plot Test, Phil 2020 Series. Selection of promising clones shall be in January of next year.

D. ONGOING PROGRAM/PROJECT: Multiplication II, Phil 2019 series

Approved Budget: 210,000

Multiplication II was planted in August 2022. Downy Mildew resistant clones shall be selected and passed as entries for the Preliminary Yield Test of LGAREC & LAREC and First Propagation preparatory to the National Cooperative Test. Cutbacking shall be done in March of next year. Sufficient canepoints shall be provided for leaf scorch and yellow spot screening and smut verification

E. ONGOING PROGRAM/PROJECT: Preliminary Yield Test, Phil 2018 series

Approved Budget: 160,000

Thirty selected Phil 2018 Series clones from Multiplication II were planted as entries in the Preliminary Yield Test. Agronomic data (stool count, tiller count and plant height) were gathered last December 2022. Only 10 varieties will be selected and tested for Ecological Test.



F. ONGOING PROGRAM/PROJECT: Propagation III, Phil 2016 series

Approved Budget: 135,000

Ten promising clones were propagated and maintained in preparation for Ecological Test

G. ONGOING PROGRAM/PROJECT: Smut Resistance Test, Phil 2018 series

Approved Budget: 170,000



Data collection (Infection count)-Plantcane

H. ONGOING PROGRAM/PROJECT: Downy Mildew Resistance Test, Phil 2019 series

Approved Budget: 158,000

The study composed of 180 Phil 2019 series clones was laid-out in August 2022 and maintained in the field. Monthly disease ratings are taken until February 2023.



Field lay-out and planting

I. ONGOING PROGRAM/PROJECT: Yellow Spot Resistance Trial, Phil 2018 series

Approved Budget: 95,000

Thirty entries clones for Preliminary Yield Test Phil 2018 series were tested in Yellow Spot screening.



Field monitoring and application of trichogramma

J. ONGOING PROGRAM/PROJECT: Leaf Scorch Resistance Trial, Phil 2018 series

Approved Budget: 99,000

Thirty entries clones for Preliminary Yield Test Phil 2018 series were tested in Leaf Scorch screening.



Field monitoring

K. ONGOING PROGRAM/PROJECT: Ecological Test, Phil 2013 series

Approved Budget: 1,380,000

The project aims to evaluate the adaptability of new varieties selected from the Preliminary Yield Test in a given location with specific climatic/soil/pathogen. In addition, the project will determine the yield performance of the ten varieties in the plant in comparison with the standard and local check varieties in 5 locations.

As of December, one site was laid-out and the remaining four sites will be laid-out in January 2023.



Field lay-out

J. ONGOING PROGRAM/PROJECT: Assessment of Genetic Diversity of Sugar Regulatory Administration Varieties

Approved Budget: 37,000

DNA isolation of 200 accessions and varieties in the Germplasm collection and molecular screening across genotypes using diversity and fungal disease resistance markers was done in 2021. These needed to be replicated then scored to ensure accuracy of results using the several synthesized primers which arrived third week of December 2021. Unfortunately, stocks of 200 DNA samples got degraded after the onslaught of typhoon Odette (power outage for 3 weeks). These samples cannot be used as templates for amplification and finger printing. This year, DNA extraction of 50 varieties/accessions (10 in 5 locations) started in May 2022. Quality, purity and concentration were checked prior to amplification using ESTA 15, ESTA 16, ESTA 34, ESTA 58, ESTB 94 SOMS 124 &148, ESTA 48 and ESTB 41 primers. Optimization of other primers for PCR will start in December. Currently, the genome laboratory has 109 diversity primers. Fingerprinting and diversity analysis will be performed next year.

K. ONGOING PROGRAM/PROJECT: Morpho-agronomic Characterization of SRA Plant Genetic Resources for Construction of Dichotomous Key

Approved Budget: 298,860

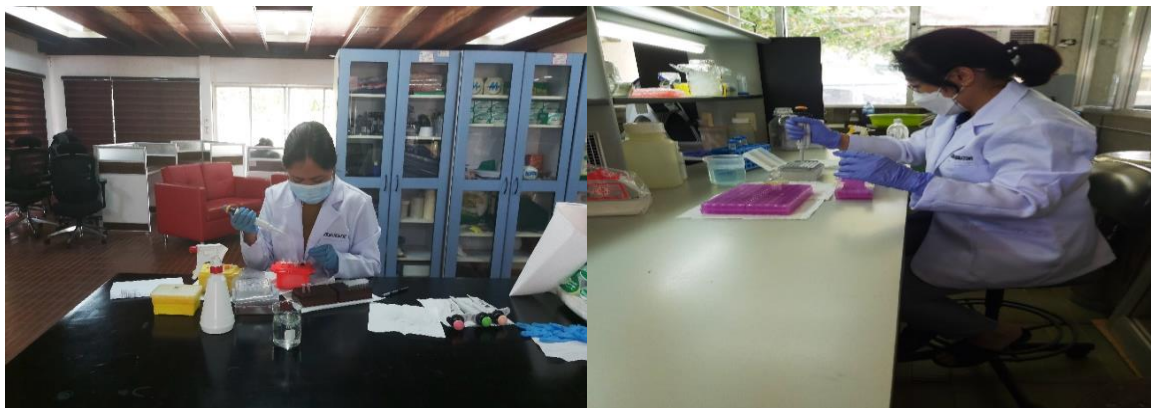
Fifty-two morpho-agronomic traits of 352 varieties/accessions were gathered from September 11 to October 11, 2022. Data collection will continue next year for the remaining accessions/varieties. The traits included the following:

- A. Stool Conformation (Plant habit, tillering habit, density, leaf carriage, trashiness)
- B. Leaf Blade (Color, Texture, Erectness, Length and width of 10 samples, Leaf Margin Pubescence, Midrib color)
- C. Leaf Sheath (Waxiness, Primary Color, Secondary Color, Presence or absence of Prickle or Trichomes, Quality and Persistence of Prickle or Trichomes)
- D. Auricle (Outer and Inner Auricle Shape)
- E. Dewlap (Waxiness, Primary Color, Shape, Presence or absence of dewlap margin undulation)
- F. Ligule (Shape, Hairiness)
- G. Stalk (Waxiness, Color of Exposed Internode, Color of Unexposed Internode, Presence of Stripes of cane, Splits / Growth Cracks, Corky Cracks, Corky Patch, Internode Shape, Alignment, Node Swelling, Growth ring width, Rows of Root Primordia, Leaf Scar Prominence, Root band Shape, Pithiness)
- H. Bud (Shape, Prominence, Length and Width of 10 buds, Bud groove/Furrow position, Bud Hair (hair group 9), Bud Tip Position, Bud Base Position)

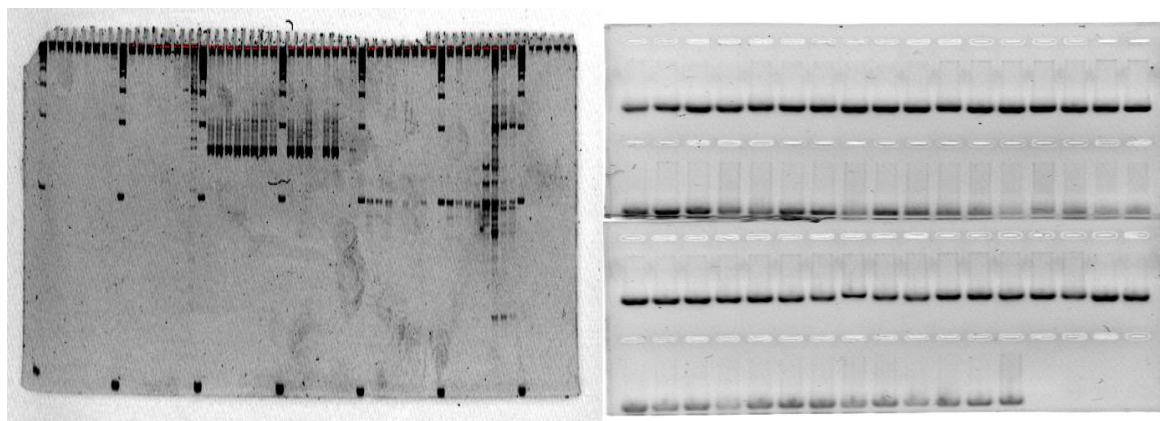
L. ONGOING PROGRAM/PROJECT: Molecular Characterization of SRA Germplasm Accessions

Approved Budget: 345,000

This project is the laboratory counterpart of the morpho-agronomic characterization project. Accessions needed to be fingerprinted. To achieve this, at least 10 to 20 diversity primers are needed to be utilized in the amplification of the samples. The primers arrived third week of December 2021. Four hundred DNA samples extracted got degraded after the onslaught of typhoon Odette (power outage for 3 weeks). This year optimization of diversity primers is being done as well as DNA re-extraction of several accessions is being performed. Amplification and fingerprinting will be completed in 2023.



Ms. Dynah Fatima Discaya conducts Polymerase Chase reaction (PCR) and DNA extraction.



Results of PAGE (SOMS 124-148 primers) (left) and Agarose Gel Electrophoresis (right).

M. ONGOING PROGRAM/PROJECT: Genomics Assisted Discovery of Genes and Molecular Markers for Important Traits in Selected Sugarcane HYVs

Approved Budget: 663,336

Procurement of key reagents for the project except the adaptor ligation kit was completed in October 2022 and two Genome laboratory technical personnel resigned. Project will start in January 2023 with DNA extraction of Phil 2006-2289 and Phil 99-1793, DNA library construction and sequencing for marker development.

N. ONGOING PROGRAM/PROJECT: Molecular Screening of Putative Mutants for Desired Agronomic Traits and Sucrose Content

Approved Budget: 190,284

Procurement of mutagenic reagents were completed this year. Existing mutant sugarcane plants from SIDA-funded PNRI project has not gone through selection for molecular screening. Putative mutants were replanted in December 2022 for dissociation of chimeras.

O. ONGOING PROGRAM/PROJECT: Isolation and characterization of *Gluconacetobacter diazotrophicus* from ten SRA HYVs

Samples of young shoots with healthy roots and young buds were taken from second ratooned crossing block at seven months old of ten SRA high yielding varieties cultivated at La Granja conditions. The varieties were selected based on their robust growth characteristics as recommended by the principal breeder. The plant samples were carefully washed with tap water until the plant were free from the attached soil. After cleaning the samples, roots and young buds

were carefully separated and were surfaces sterilized using 70% ethanol and 3% sodium hypochlorite. One gram of each sample was macerated with 5% sterile sucrose solution. The juice of the macerated samples was serially diluted in tubes containing 9ml sterile 5% solution up to 10^{-3} .

The diluted plant suspensions were inoculated on N-free LGI semi solid medium pH 5.5-6.0 for growth enrichment of the *G. diazotrophicus*. The tubes were incubated 6-7 days at 28-30°C. Each sample showing an enriched growth forming subsurface yellow pellicle was sub-cultured three times every 5 days for further enrichment and purification. The cultured were then streaked in PDPA and LGI agar medium and were incubated for 5-7 days at 30°C for separate colonies from roots. The isolates were backed up in the test tube slants containing potato dextrose peptone agar and coded accordingly.

Catalase Reaction Test

Bacterial cells were smeared on a glass slide followed by addition of a drop 3% hydrogen peroxide. A positive reaction to this test determines if the hydrogen peroxide is toxic to the bacteria and determines if the bacteria contain the enzyme catalase which converts hydrogen peroxide to oxygen and water as shown by a production of bubbles or gas. According to James et al., (2000), *Gluconoacetobacter diazotrophicus* is a catalase test positive bacterium. Table 3 shows the reaction of the different isolates from hydrogen peroxide. Isolate that showed negative reaction will be discarded.

The transfer, isolation and characterization of these bacteria were halted because of the high percent contamination due to the high relative humidity and the mold growth on the ceiling of the laboratory. Some of the isolates were saved and some of it were totally antagonized by the contaminants. The selected colonies will be subjected to visual characterization and series of the test and biochemical assays to further characterize and confirm their identity. It is also recommended to conduct molecular identification to ensure that the isolated bacteria are *G.*



Department/Division: Soils Laboratory, SRA-LGAREC, RD&E - VISAYAS A.
Year: 2022

PROGRAM/PROJECT: Documentation of soils laboratory Projects;
Soils and juice analysis

Approved Budget: 2,870,744

I. Highlights of Accomplishment

A total of **2,814** samples were received and analyzed for Crop Year 2022. These samples encompassed of soil, sugarcane stalks, and special samples like sugarcane leaves, water, BMO, and soils from our very own field research and collaborative projects with Japan International Research Center for Agricultural Sciences (JIRCAS) and different mill districts. Among the total samples, **1030 were soil, 1359 were sugarcane stalks and 425 were special**. All these were from the private planters and experimental units of SRA respectively. Samples receive and analyzed by the laboratory helped planters, farmers, fertilizer formulators, researchers and other walk-in clients to achieve maximum profitability through accurate and timely laboratory services. Through soil analysis clients will have the Realtime fertility status of their soil, thus by knowing this a proper fertility management tailored for the sugarcane crop planters will not over or under fertilize their fields thus achieving maximum gain by significantly reducing inputs. See Table 1 for the summary of samples submitted and analyzed.

For the number of soil samples, 37% of the total samples received and analyzed is from the soil samples; 683 were from private planters representing 66.31% of the total, and the rest of 33.69% were from the experiments of SRA. The analyzed samples decreased from the previous crop year of soil submitted by both private planters and researchers which was 1,196. This can be primarily attributed to the significant decrease of research samples analyzed from 70.2% of the previous crop year. the decrease of research samples analyzed was since four research projects of the unit were terminated early this year.

For the sugarcane juice (stalks) analyzed, 48% of the total samples received and analyzed is from the sugarcane juice samples; 1076 samples were from the experimental fields of SRA representing 88.49% of the total, while the rest were from the private planters and researchers. This number increased from 72.2% of the previous crop year respectively.

For the number of special samples collected/analyzed, 15% of the total samples received and analyzed is from the various special samples; from 289 of crop year 2021 it increased to 425; this can be attributed to the influx research samples, in addition, the laboratory has catered to the quantitative and qualitative test for the BMO of various mill districts Refer to Figure 2

For quality assurance, the Soils laboratory is continuously audited by certifying agencies to make sure that results are reliable and accurate. Relative to this, we have participated in the proficiency testing (PT) schemes of various laboratories like Food and Fertilizer Technology Center, Taiwan Agricultural Research Institute (FFTC-TARI), Taiwan, Global Soil Laboratory Network (GLOSOLAN) through Food and Agriculture Organization (FAO) of the United Nations, and Bureau of Soil and Water Management (BSWM). These activities are vital for the accuracy and precision of the analysis that our laboratory is performing and an important requirement to secure a license to operate (LTO) from the certifying agencies like BSWM and Professional Regulation Commission (PRC). Results of these PT schemes have shown that our laboratory passed and gained satisfactory results, thus affirming our capability to give out correct results (Refer to Figure 3)

Table 1. Summary of Samples Analyzed per quarter for Crop Year 2022

| Performance Indicator | Physical Targets | | | | | Accomplishments | | | | |
|--|------------------|-----|-----|-----|-------------|-----------------|-----|-----|-----|--------------|
| | Q1 | Q2 | Q3 | Q4 | Total | Q1 | Q2 | Q3 | Q4 | Total |
| ANALYSIS | | | | | | | | | | |
| 1. No. of samples Analysed | 250 | 250 | 250 | 250 | 1000 | 310 | 332 | 188 | 200 | 1,030 |
| 2. No. of Planters Served | 20 | 20 | 20 | 20 | 80 | 128 | 124 | 83 | 58 | 387 |
| 3. No. of Sugarcane stalks analysed (maturity Testing) | 200 | 200 | 200 | 200 | 800 | 318 | 684 | 110 | 245 | 1,359 |
| 4. No. of recipients (stalks) | 5 | 5 | 5 | 5 | 20 | 6 | 18 | 5 | 3 | 32 |
| 5. No. of Special samples analysed (Leaf, water, and others) | 20 | 20 | 20 | 20 | 80 | 206 | 20 | 150 | 49 | 425 |
| 6. No. of recipients (special) | 2 | 2 | 2 | 2 | 8 | 2 | 4 | 6 | 8 | 20 |

Table 2. Crop year 2022 Monthly Breakdown of Samples and Analyzed

| Month 2022 | SOIL ANALYSIS | | | JUICE ANALYSIS | | | Special Samples | Grand Total |
|---------------|---------------|------------|--------------|----------------|--------------|--------------|--------------------|----------------|
| | Private | Research | Sub Total | Private | Research | Subtotal | | |
| January | 95 | 30 | 125 | - | 111 | 111 | 78 | 314 |
| February | 69 | 2 | 71 | 21 | 48 | 69 | 64 | 204 |
| March | 78 | 36 | 114 | 66 | 72 | 138 | 64 | 316 |
| April | 85 | 54 | 139 | 91 | 158 | 249 | 6 | 394 |
| May | 60 | 87 | 147 | 60 | 55 | 115 | 9 | 271 |
| June | 45 | 1 | 46 | 36 | 284 | 320 | 5 | 371 |
| July | 98 | 36 | 134 | - | 31 | 31 | 7 | 172 |
| August | 15 | - | 15 | - | 33 | 33 | 93 | 141 |
| September | 39 | - | 39 | 4 | 44 | 48 | 50 | 137 |
| October | 14 | - | 14 | - | 54 | 54 | 27 | 95 |
| November | 34 | 2 | 36 | | 102 | 102 | 14 | 152 |
| December | 50 | 100 | 150 | 5 | 84 | 89 | 8 | 247 |
| Total | 682 | 348 | 1,030 | 283 | 1,076 | 1,359 | 425 | 2,814 |

I. Soil Analysis

For the Month of JANUARY 2022

| Name | Hda./Address | No. of Samples |
|---------------------------|----------------------------|----------------|
| A. Planter | | |
| 1. Nestor Coloso | Ilog, Negros Occidental | 6 |
| 2. Mark Vargas | Cauayan | 7 |
| 3. Monticon | Bugahin, isabela | 4 |
| 4. Doming M. Sit | Camandag, La Castellana | 1 |
| 5. Pedro R. Armon | Camandag, La Castellana | 1 |
| 6. Cristina Pelayo | Camandag, La Castellana | 1 |
| 7. Ma.Socorro Japson | Camandag, La Castellana | 1 |
| 8. Roberto S. Mission | Camandag, La Castellana | 1 |
| 9. Hermilo Palmares | Camandag, La Castellana | 1 |
| 10. Fatima Mission | Camandag, La Castellana | 1 |
| 11. Hermi Ortegue | Camandag, La Castellana | 1 |
| 12. Noralyn Estives | Brgy. Balabag, La Carlota | 1 |
| 13. Mario G. Gomez | Brgy. Tapi, Kabankalan | 3 |
| 14. Onyo Eraga | Brgy. Gomez Pontevedra | 1 |
| 15. Esmeralda Dindo | Brgy. Gomez, Pontevedra | 1 |
| 16. Angelo Alocilja | Brgy. DSB, Pontevedra | 1 |
| 17. Jorjelyn Ayungon | Brgy. Camp Clark, Isabela | 1 |
| 18. Juan Carlos Torre | Tipolo, Sag-ang | 11 |
| 19. Mario Malunes | Brgy. Gatuslao, Candoni | 1 |
| 20. Alan Nagum | Sipalay | 1 |
| 21. Jerlyn Grace Sabico | Dancalan, Ilog | 1 |
| 22. Antonio Talacadao | Tabu, Ilog | 1 |
| 23. Melanie Tablason | Brgy. Bantayan, Kabankalan | 1 |
| 24. Leila Nemenzo | Tabu, Ilog | 1 |
| 25. Rebmark Tulbo | Brgy. Oringao, Kabankalan | 1 |
| 26. Pacito c. Tulbo | Brgy. Oringao, Kabankalan | 1 |
| 27. Jhonrey Lacason | Brgy. Oringao, Kabankalan | 1 |
| 28. Karl Albanez Pavillar | Tabu, Ilog | 1 |
| 29. Fransico S. Traza Jr. | Talacdan, Cauayan | 1 |

| | | |
|---------------------------------|---------------------------------|-----------|
| 30.Chlia Fe D. Roquero | Bantayan, Kabankalan | 1 |
| 31.Ricky Talunda | Brgy. Tagoc, Kabankalan | 1 |
| 32.Romeo Sayun | Brgy. Tagoc, Kabankalan | 1 |
| 33.Herman Domingo | Brgy. Tagoc, Kabankalan | 1 |
| 34.Tarco | Brgy. Tagoc, Kabankalan | 1 |
| 35.Samauel Panaligan | Brgy. Tagoc Kabankalan | 1 |
| 36.Jomila Moyong | Brgy. Himaya, Hinigaran | 1 |
| 37.Samson J. Flores | Quintin Remo, Moises Padilla | 3 |
| 38. Urc Sunedco Milling | Camugao, Kabankalan | 1 |
| 39. District Cane | Camugao, Kabankalan | 1 |
| 40. Stable Farm | Camugao, Kabankalan | 1 |
| 41. Ninita Zerna | Pinalayaan, Pamplona | 2 |
| 42. Keilana Resource Dept. Corp | Manggoto, Pamploma | 2 |
| 43.Lili Perales | Pagtic, Tambulan, Tayasan | 1 |
| 44. Janeth Rebusas | Magsusuhog, Pamploma | 1 |
| 45. Rose Marie Gemira | Balayong, Pamploma | 1 |
| 46. Miguel Angel Diaz Teves | Sta. Rita, Tanjay | 1 |
| 47. Keilana Resource Dept Corp. | Mangoto, Pamploma | 1 |
| 48. Micheal Vesintino | Sebucauan | 8 |
| 49.Rose Marie Guanzon | Brgy. Antipolo, Pontevedra | 1 |
| 50.April Cornelio | Bagacay, Hinigaran | 1 |
| 51. Elsie Salinio | Sitio. Cuyaoyao, Moises Padilla | 1 |
| 52. Edgar Malayas | Brgy . Biao, Binalbagan | 1 |
| 53. Salvacion Guanzon | Brgy. Santo, Binalbagan | 1 |
| 54. DEFWARBA | Brgy. Cabacungan, La Castellana | 3 |
| 55. Jayvon Dwight B. Sena | Cauyan, Neg. Occ | 1 |
| 56. Angel Tonsay | Had. Nahilao La Castellana | 1 |
| | Subtotal | 95 |
| B. Research | | |
| 1. Soils Laboratory | La Granja, La Carlota | 27 |
| 2. VIPM | Hda. Angelita, La Castellana | 1 |
| 3. Andy Alimpulos | Tampalon Kabankalan | 1 |
| 4. Rosenie Entima | Hda. Bagacay, Hinigaran | 1 |
| | Subtotal | 30 |

For the Month of FEBRUARY 2022

| Name | Hda/Address | No. of Samples |
|--|-----------------------------------|----------------|
| A. Planter | | |
| 1. Melvin Bianco | Brgy. DSB Pontevedra | 1 |
| 2. Efren A. Ramos JR. | La Castellana | 1 |
| 3. Jor jelyn E. Alingon | Brgy. CabCab , Isabela | 1 |
| 4. Jean P. Cacho | Brgy. Talacdan, Cauyan City | 1 |
| 5. Domingo A. Canaway Jr. | Brgy. Tabu-Ilog Neg. Occ | 1 |
| 6. Norberto Geronca | HAD. Nalipay Isabela , Neg Occ. | 1 |
| 7. Michael Enegrio | HAD. Nalipay isabela Neg Occ | 1 |
| 8. Alfredo Sevilla | HAD. Nalipay Isabela Neg Occ | 1 |
| 9. Marife I. Olpos | Ursunico | 1 |
| 10. Recarte De-Guit | Ursunico | 1 |
| 11. Irien N. Patorio | CPSU kabankalan | 1 |
| 12. Roma Mae A. Deniega | CPSU Kabankalan | 1 |
| 13. Catherine De Tomas | Brgy. Alalingan, Bacolod City | 1 |
| 14. Jeann Mea Escobar | HAD. Ruiz. Cabonbon, Himamaylan | 2 |
| 15. Richilda Pun-an | Inolingan, Moises Padilla | 1 |
| 16. Rodito Balasabas | Brgy. Banogbanay, ISABELA | 1 |
| 17. Ryan Sarinong | Mambusao , Capiz | 18 |
| 18. Noe Leonora | Brgy. Pantique, Hinigaran | 5 |
| 19. DAFWARBA | Brgy. Cabacungan, La Castellana | 2 |
| 20. Norene G. Dandoy | Brgy. Baga as, Hinigaran | 1 |
| 21. Pinky Sequehod | Kabankalan | 1 |
| 22. Lovely Ortega | Himamaylan | 1 |
| 23. Ruthchel Camot | Brgy. Mandiao , Bayawan City | 1 |
| 24. Renadine Teodoro | Himamaylan | 1 |
| 25. NAPFWA | Brgy. Ilijan, Bago City | 9 |
| 26. UPLB CAIS- LGRTS | La Carlota City | 1 |
| 27. AMANO | Brgy. Mansalanao, La Castellana | 1 |
| 28. Henry Tam | Brgy. San Miguel, Tanjay City | 2 |
| 29. Jamie Ramirez | Brgy. Tan- aw, Kabankalan | 1 |
| 30. Josue Ramirez | Brgy, Tan- aw, Kabankalan | 1 |
| 31. Noel Beker | Brgy. Tan –aw, Kabankalan | 2 |
| 32. Dophe Gomez/Prince Grace s. enmacino | Magtu, Mabinay, neg Occ | 1 |
| 33. Donald Seron/John Bent Morino | Brgy. Camingawan, Kabankalan City | 1 |

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|--|---------------------------------|-----------|
| 34. Beverlyn Frondoza/Jona Cordero | Brgy. Tampalom, Kabankalan City | 1 |
| 35. Abigail S. Sibuan/Joshua Gellecano | Hgtu, Mabinay | 1 |
| 36. Keilan Resource Dept Corp. | | 1 |
| 37. Ray Mathew Soliguen | Prk. Malinong, brgy. Miranda | 1 |
| | | |
| | Subtotal | 69 |
| B. Research | | |
| 1. Rosenie Entima | Hda. Candelaria, Manapla | 1 |
| 2. Joemar Benidicto | Sagay | 1 |
| | Subtotal | 2 |

For the Month of MARCH 2022

| Name | Hda/Address | No. of Samples |
|-----------------------------|---------------------------------|----------------|
| A. Planter | | |
| 1. Ma. Snooky Francisco | Brgy. Inolingán, Moises Padilla | 1 |
| 2. Fe Salino | Brgy. Inolingán, Moises Padilla | 1 |
| 3. Jestone C. Esoy | Brgy. Salon , Kabankalan | 1 |
| 4. Ned Damon damon | Alijis, Bacolod City | 1 |
| 5. Erol Antonio | Brgy. Antipolo, Pontevedra | 1 |
| 6. BB-ARBA BF | Brgy. Buenavista, Himamaylan | 21 |
| 7. Roselyn V. Macapobres | Brgy. Prosperidad , San carlos | 1 |
| 8. Ebenezer L. Macapobres | Brgy. Prosperidad, San carlos | 2 |
| 9. Gregorio Macapobres | Brgy. Prosperidad , San Carlos | 1 |
| 10. Edmond Delos Santos | Brgy. La Granja | 2 |
| 11. Jever Amallo | Biskon Mill District | 1 |
| 12. Rosalie Amallo | Biskon Mill District | 1 |
| 13. Sunny C. Quiritan | Biskon Mill District | 1 |
| 14. Henry Tan | Mag-alayan , Pampalona Neg Occ | 1 |
| 15. DAFWARBA | Brgy. Cabacungan, La Castellana | 2 |
| 16. Emelito Guanga | Brgy. Old Escalante | 2 |
| 17. Jason Ryan Ligason | La Castellana | 6 |
| 18. Rosebell Villanueva | Mobong, Tagaytay, Bindoy | 1 |
| 19. Rodrigo S. Villanueva | Upper Tinaogan, Bindoy | 1 |
| 20. Regie Tano | Iniwasan, Pamploma | 1 |
| 21. Rodel Villanueva | Upper, Tinaoga, Bindoy | 1 |
| 22. Evelyn Amorganda | Mato Bato, Bindoy | 1 |
| 23. Marbith Callora Carinal | Balao, Nabilog, Tayasan | 1 |

| | | |
|----------------------------|--------------------------------|-----------|
| 24. Wiljun Cabrera | Tambulan, Tayasan | 1 |
| 25. Ryan Sarimong | Mambusao, Capiz | 12 |
| 26. Ritchel M. Napallatan | Brgy. Manghanoy, La Castellana | 1 |
| 27. Elvie V. Gulpang | Brgy. Gen Luna | 2 |
| 28. Dominador Obas | Magtical, Toboso, Neg. Occ. | 1 |
| 29. Claudine M. Capistrano | CPSU- Main | 1 |
| 30. Dayme Pajora | Brgy. Bato, Hinigaran Neg Occ. | 1 |
| 31. Rodel D. Tubianosa | Had. Nato La Castellana | 1 |
| 32. Ofelia Carreso | Sitio. Jalandon-on , Hinigaran | 1 |
| 33. Elena Encaja | Brgy. Magbalo, Kabankalan | 3 |
| 34. Ronnie Bantaycan | Brgy. Magballo, Kabankalan | 1 |
| 35. Marvin Andalajoa | Brgy. Balitoc, Ilog | 1 |
| | | |
| | Subtotal | 78 |
| B. Research | | |
| 1. Teresita Bañas | La Granja, La Carlota City | 1 |
| 2. Glosolan | | 10 |
| 3. Soils Laboratory | Alijis, Bacolod City | 1 |
| 4. Soils Laboratory | La Granja, La Carlota City | 24 |
| | | |
| | Subtotal | 36 |
| | | |

For the Month of APRIL 2022

| Name | Hda./Address | No. of Samples |
|---------------------------|---------------------------------|----------------|
| B. Planter | | |
| 1. Elvie Gulpang | Hda. Vicenta | 1 |
| 2. Emelito Guanga | Escalante, Negros Occidental | 1 |
| 3. CADARBA block farm | Brgy. Rafael Borera, Sagay City | 5 |
| 4. Universal Rabina Corp. | RSB, La Carlota City | 2 |
| 5. Estela Cabucos | Caputatan Norte, Medellin, Cebu | 1 |
| 6. Rosario Mag-aso | Brgy. Quezon San Carlos City | 1 |
| 7. Florintina Delarna | Brgy. Quezon San Carlos City | 1 |
| 8. Christian Comonas | Brgy. Quezon San Carlos City | 1 |
| 9. Moises Mag-aso | Brgy. Quezon San Carlos City | 1 |
| 10. Denna Lyn Baltazar | Kanashigi Farm , Haguimit LCC | 1 |
| 11. Zenon H. Geanga | Brgy. Cambaog, Hinigiran | 3 |

| | | |
|------------------------------|---------------------------------|----|
| 12. John Mari Paul S. Jungco | Brgy. San Miguel | 1 |
| 13. Charley Magne Multo | Polo Tanjay | 2 |
| 14. Edwin Callet | Balao, Kimbulan, Tayasan | 1 |
| 15. Larry Tionco | Kilaban, Tayasan | 1 |
| 16. NAPA | Tinaogan, Bindoy | 1 |
| 17. Jay Dawn Balasabas | Tara, Mabinay | 1 |
| 18. Caselyn Joy C. Dy | San Antonio Himamaylan | 1 |
| 19. Edchel O. Lambot | CPSU Kabankalan | 19 |
| 20. Augusto Obsioma | Brgy. Locotan, Kabankalan | 1 |
| 21. Alcamer Obsioma | Bryg. Locotan, Kabankalan | 1 |
| 22. Aramis Jose Obsioma | Brgy. Locotan, Kabankalan | 1 |
| 23. Daisy Blanco | Bryg. Locotan, Kabankalan | 1 |
| 25. Eden Muyco | Brgy. Locotan, Kabankalan | 1 |
| 26. Dolores Dolar | Brgy. Locotan, Kabankalan | 1 |
| 27. Edgar Dolar | Brgy. Locotan, Kabankalan | 2 |
| 28. Francis Sison | Bryg. Locotan, Kabankalan | 1 |
| 29. Jim Osorio | Brgy. Locotan, Kabankalan | 1 |
| 30. Jimson Osorio | Bryg. Locotan, Kabankalan | 1 |
| 31. Johnny Mamar | Brgy. Locotan, Kabankalan | 1 |
| 32. Jose Heramil | Bryg. Locotan, Kabankalan | 1 |
| 33. Lida Obsioma | Brgy. Locotan, Kabankalan | 1 |
| 34. Lino Rekomono | Bryg. Locotan, Kabankalan | 1 |
| 35. Lito Dela Crus | Bryg. Locotan, Kabankalan | 1 |
| 36. Mary Jane Naype | Brgy. Locotan, Kabankalan | 1 |
| 37. Marylou Muyco | Brgy. Locotan, Kabankalan | 1 |
| 38. Noli Dulo | Brgy. Locotan, Kabankalan | 1 |
| 39. Perpetua Bautista | Brgy. Locotan, Kabankalan | 1 |
| 40. Raymund Muyco | Brgy. Locotan, Kabankalan | 1 |
| 41. Renald Palangga | Brgy. Locotan, Kabankalan | 1 |
| 42. Ruben Moreno | Brgy. Locotan, Kabankalan | 1 |
| 43. Wenefredo Castro | Bryg. Locotan, Kabankalan | 1 |
| 44. Romeo Villarojo | Brgy. Tan -awan, Kabankalan | 1 |
| 45. Leonisia Navas | Brgy. Tan -awan, Kabankalan | 1 |
| 46. Domingo Navas | Brgy. Tan -awan, Kabankalan | 2 |
| 47. Rodora Molina | Brgy. Tan -awan, Kabankalan | 1 |
| 48. SCSAFA | Brgy. San Isidro, E.B. Magalona | 4 |

| | | |
|--------------------------|---------------------------------------|-----------|
| 49. Anna Mae P. Guilaran | Prk. Kawayan, Brgy. Bacong, Bago City | 1 |
| 50. Edreson Gemotra | CPSU, Kabankalan City | 6 |
| | Subtotal | 85 |
| B. Research | | |
| 1. PTCM | SRA-LGAREC, Lot 7 | 54 |
| | Subtotal | 54 |

For the Month of MAY 2022

| Name | Hda/Address | No. of Samples |
|---|-------------------------------------|----------------|
| B. Planter | | |
| 1. Bryan Brett Bawa | So. Napac-an, Brgy. Nangka, Bayawan | 1 |
| 2. Jesselyn Elegido | Brgy. Villasol, Bayawan City | 1 |
| 3. Inocencio Billones | Brgy. Villasol, Bayawan City | 1 |
| 4. Leopoldo Cosico | Brgy. Mabini, Cadiz City | 2 |
| 5. Ryan T. Sarimong | Mambusao, Capiz | 12 |
| 6. Henry Guanzon | Himaya, Hinigaran | 1 |
| 7. Alfe B. Dullaco | | 1 |
| 8. Restituto N. Alvarez Jr. | Hda. Elisaldi, Bago City | 1 |
| 9. PARBA BF | Brgy. Pilar, Hinigaran | 1 |
| 10. Maghat Bukidnon Asossayon Sang Paloypoy | So. Locot, Brgy. Buenavista | 1 |
| 11. Velco Agri Corp. | Negros Oriental | 1 |
| 12. Cabusog Catalino | Tara, Mabinay, Negros Oriental | 1 |
| 13. Joel Balansag | Manipis, Tanjay, Negros Oriental | 1 |
| 14. Joel Balansag | Manipis, Tanjay, Negros Oriental | 1 |
| 15. Velco Agri Corp. | | 1 |
| 16. George Pepino | Ma-ao, Bago City | 3 |
| 17. Velco Agri Corp. | | 2 |
| 18. Romeo Calisporo | | 1 |
| 19. Dioscoro Andrino | Brgy. Pilar, Hinigaran | 2 |
| 20. Gina/Jonel Revias | Brgy. Pilar, Hinigaran | 2 |
| 21. Alvin Geniga | Brgy. Pilar, Hinigaran | 2 |
| 22. Rene Escultor | Brgy. Pilar, Hinigaran | 2 |
| 23. Gomercindo Dionisio | Brgy. Pilar, Hinigaran | 2 |
| 24. Dionesio Revias | Brgy. Pilar, Hinigaran | 2 |
| 25. Lilia Guanzon | Brgy. Pilar, Hinigaran | 1 |

| | | |
|---|--|-----------|
| 26. Guia Gonzales | Brgy. Pilar, Hinigaran | 1 |
| 27. Freddie Secapore | Brgy. Pilar, Hinigaran | 1 |
| 28. Ramy Grande | Brgy. Pilar, Hinigaran | 1 |
| 29. Joseph Antes | Brgy. Pilar, Hinigaran | 1 |
| 30. ILIFAS BF | So. Iling-iling, Brgy. Cabadiangan, Himamaylan | 2 |
| 31. Chlia Mae Roquero | Brgy. Tampalon, Kabankalan City | 1 |
| 32. Ma. Rosario Benita Ortiz | Canlaon City, Negros Oriental | 7 |
| | Subtotal | 60 |
| B. Research | | |
| 1. Soils Laboratory (Pesticide Residue) | SRA-LGAREC Lot 19, La Carlota City | 12 |
| 2. Soils Laboratory (P-Validation) | SRA-LGAREC-Lot 19, La Carlota City | 27 |
| 3. Soils Laboratory (Micronutrient) | SRA-LGAREC-Lot 19, La Carlota City | 48 |
| | Subtotal | 87 |

For the Month of JUNE 2022

| Name | Hda/Address | No. of Samples |
|-------------------------|--------------------------------------|----------------|
| B. Planter | | |
| 1. Godie Columna | Brgy. Pinaguinpinan, Kabankalan City | 1 |
| 2. Julio Maque | Brgy. Pinaguinpinan, Kabankalan City | 1 |
| 3. Francisco Zaragoza | Brgy. Pinaguinpinan, Kabankalan City | 1 |
| 4. Armando T. Gabiota | Brgy. Pinaguinpinan, Kabankalan City | 1 |
| 5. Joebert Malba | Brgy. Pinaguinpinan, Kabankalan City | 1 |
| 6. Jesus Dormido | Brgy. Pinaguinpinan, Kabankalan City | 2 |
| 7. Emilita Gabaya | Brgy. Pinaguinpinan, Kabankalan City | 1 |
| 8. Florisa S. Casipong | Brgy. Dawis, Bayawan City | 1 |
| 9. Josephine V. Moreno | Brgy. Dawis, Bayawan City | 1 |
| 10. Johnrey L. Livestre | Brgy. Dawis, Bayawan City | 1 |
| 11. Ebert Maglikiang | Brgy. Dawis, Bayawan City | 1 |
| 12. Nemrod E. Gonzaga | Brgy. Dawis, Bayawan City | 1 |

| | | |
|---------------------------------------|---|-----------|
| 13. Chendy V. Moreno | Brgy. Dawis, Bayawan City | 1 |
| 14. Eufemia P. Gagang | Brgy. Dawis, Bayawan City | 1 |
| 15. Andres Cord B. Moreno | Brgy. Dawis, Bayawan City | 1 |
| 16. Cherilyn M. Ermita | Brgy. Dawis, Bayawan City | 1 |
| 17. Joselyn V. Palomar | Brgy. Dawis, Bayawan City | 1 |
| 18. Mildred A. Balasabas | Brgy. Dawis, Bayawan City | 1 |
| 19. Lemuel G. Garsula | Brgy. Dawis, Bayawan City | 1 |
| 20. Felipe E. Ganza | Brgy. Dawis, Bayawan City | 1 |
| 21. Roger E, Ignacio | Brgy. Dawis, Bayawan City | 1 |
| 22. Jeriel S. Entrina | Brgy. Dawis, Bayawan City | 1 |
| 23. Odita G. Abuda | Brgy. Dawis, Bayawan City | 1 |
| 24. Jessa Mae B. Entrina | Brgy. Dawis, Bayawan City | 1 |
| 25. Lolita G. Garsula | Brgy. Dawis, Bayawan City | 1 |
| 26. Hoñe B. Moreno | Brgy. Dawis, Bayawan City | 1 |
| 27. Rene Silos | Hda. Silos, Brgy. Talaban, Himamaylan City | 1 |
| 28. Rafael Abello | Had. Progreso, Isabela | 1 |
| 29. Rosini Dautil | Brgy. Cabcab, Isabela | 1 |
| 30. Benjamin Maramara | Brgy. Quezon, San Carlos City | 1 |
| 31. Rosario Mag-aso | Brgy. Quezon, San Carlos City | 1 |
| 32. Roy Amolo | Brgy. Quezon, San Carlos City | 1 |
| 33. Julita Toledo | Brgy. Quezon, San Carlos City | 1 |
| 34. Ma. Junyden Sescia | Brgy. Quezon, San Carlos City | 1 |
| 35. Josephine Panase | Brgy. Quezon, San Carlos City | 3 |
| 36. Joel Mag-aso | Brgy. Quezon, San Carlos City | 1 |
| 37. Baldomar Raul | Cabangahan, Abis, Mabinay | 1 |
| 38. Baldomar Rony | Cabangahan, Abis, Mabinay | 1 |
| 39. Gemera Rose Marie | Abante, pamplona | 1 |
| 40. Nilva Torres | Magsusunog, Pamplona | 1 |
| 41. Teves Jose Ramon | Cambalud, Pamplona | 1 |
| 42. Vailoces Momar | Matobato, Bindoy | 1 |
| | Subtotal | 45 |
| B. Research | | |
| 1. Agri. Support Services Division | SRA-LGAREC-Lot 12 | 1 |
| | Subtotal | 1 |
| | | |

For the Month of JULY 2022

| Name | Hda./Address | No. of Samples |
|----------------------------|------------------------------------|----------------|
| C. Planter | | |
| 1. Joemar Bernardino | Brgy. Quezon, San Carlos City | 1 |
| 2. Patricio Filipinas | Brgy. Quezon, San Carlos City | 1 |
| 3. Julita Toledo | Brgy. Quezon, San Carlos City | 1 |
| 4. Eilen Juanites | Brgy. Quintin Remo, Moises Padilla | 1 |
| 5. PROFABA | Brgy. Payao, Binalbagan | 7 |
| 6. Atty. Danilo Tabat | Tabu, Ilog | 1 |
| 7. Raymond Mabayag | Mambugsay, Cauayan | 1 |
| 8. MINABA ARCC | Brgy. Tampalon, Kabankalan City | 1 |
| 9. Jaime Callao | Pinalubongan, Tayasan | 1 |
| 10. Jimmy Calomba | Pinalubongan, Tayasan | 1 |
| 11. Susan Ong | Sibulan, Negros Oriental | 10 |
| 12. Criselda Lapera | Brgy. Santol, Binalbagan | 2 |
| 13. Laura Bertolano | Brgy. Santol, Binalbagan | 1 |
| 14. Perlita Cañete | Brgy. Santol, Binalbagan | 2 |
| 15. Shirley Gagnao | Brgy. Santol, Binalbagan | 1 |
| 16. Jonas Lapera | Brgy. Santol, Binalbagan | 1 |
| 17. Rogan Cañete | Brgy. Santol, Binalbagan | 1 |
| 18. Marianito Magbanua Jr. | Brgy. Santol, Binalbagan | 1 |
| 19. Clarita Andaya | Brgy. Santol, Binalbagan | 2 |
| 20. Carmelita Claveria | Brgy. Santol, Binalbagan | 1 |
| 21. Dante Carmelino | Brgy. Santol, Binalbagan | 1 |
| 22. Nilo Piduhan | Brgy. Santol, Binalbagan | 2 |
| 23. Fe Noquina | Brgy. Santol, Binalbagan | 1 |
| 24. Mildred Gudaca | Brgy. Santol, Binalbagan | 1 |
| 25. Democrito | Brgy. Santol, Binalbagan | 3 |
| 26. Felix Damerez | Brgy. Santol, Binalbagan | 2 |
| 27. Esperidion Ferfas | Brgy. Santol, Binalbagan | 2 |
| 28. Janna Cañete | Brgy. Santol, Binalbagan | 2 |
| 29. Jeasselina Edianel | Brgy. Santol, Binalbagan | 2 |
| 30. Rogelio Servano | Brgy. Santol, Binalbagan | 2 |

| | | |
|----------------------------|---------------------------------|-----------|
| 31. Jovemer Cañete | Brgy. Santol, Binalbagan | 1 |
| 32. Carla Marie Pactoran | Brgy. Santol, Binalbagan | 1 |
| 33. Sylvia Geronaga | Brgy. Santol, Binalbagan | 1 |
| 34. Charlie Servano | Brgy. Santol, Binalbagan | 2 |
| 35. Hernanie Aguilar | Brgy. Santol, Binalbagan | 2 |
| 36. Jessica Saquital | Brgy. Santol, Binalbagan | 1 |
| 37. Enrique Librosa Dr. | Brgy. Santol, Binalbagan | 1 |
| 38. Romulo Claveria | Brgy. Santol, Binalbagan | 1 |
| 39. Raymundo Dalumpines | Brgy. Santol, Binalbagan | 3 |
| 40. Jose Servano | Brgy. Santol, Binalbagan | 2 |
| 41. Leocadio Geronaga | Brgy. Santol, Binalbagan | 1 |
| 42. Wilson Pactoran | Brgy. Santol, Binalbagan | 1 |
| 43. Julius A. Cangmaong | CTU-TC, Cebu | 1 |
| 44. Marlynda Abinto | Caputatan Norte, Medellin, Cebu | 1 |
| 45. Felomina Balansag | La Paz, Bogo City | 1 |
| 46. Alberto Cabucos | La Paz, Bogo City | 1 |
| 47. Loreta Lagdoce | Brgy. Ma-ao, Bago City | 1 |
| 48. Beatrice Sumaragao | Brgy. Ma-ao, Bago City | 1 |
| 49. Jimmy Tagalog | Brgy. Ma-ao, Bago City | 1 |
| 50. Babillas Ylagan | Brgy. Ma-ao, Bago City | 1 |
| 51. Eduardo De la Cruz Sr. | Brgy. Ma-ao, Bago City | 3 |
| 52. Reymundo Alagos | Brgy. Ma-ao, Bago City | 1 |
| 53. Nilda Kagakit | Brgy. Ma-ao, Bago City | 1 |
| 54. Edwin Bandoja | Brgy. Ma-ao, Bago City | 1 |
| 55. Analyn Lagoyo | Brgy. Ma-ao, Bago City | 1 |
| 56. Laura Compra | Brgy. Ma-ao, Bago City | 1 |
| 57. Renato Lastinosa | Brgy. Bacong, Bago City | 1 |
| 58. Dadito Magmar | Brgy. Bacong, Bago City | 1 |
| 59. Romeo Lastinosa | Brgy. Bacong, Bago City | 1 |
| 60. Nenita Magbanua | Brgy. Bacong, Bago City | 1 |
| 61. Rene Ojedo | Brgy. Bacong, Bago City | 1 |
| 62. Jerry Mojara | Brgy. Salong, Kabankalan City | 1 |
| 63. Henry Tan | Pamplona, Neg. Occ | 2 |
| 64. Sharon Pernia | Brgy. Robles, Neg. Occ. | 1 |
| | | |
| | Subtotal | 98 |

| | | |
|------------------------------------|--------------------|-----------|
| B. Research | | |
| 1. Soils Lab (Soil Bioremediation) | SRA-LGAREC, Lot 14 | 24 |
| 2. Soils Lab (Pesticide Residue) | SRA-LGAREC, Lot 19 | 12 |
| | | |
| | Subtotal | 36 |

For the Month of AUGUST 2022

| Name | Hda/Address | No. of Samples |
|--------------------------|-------------------------------|----------------|
| C. Planter | | |
| 1. Remando Paglumotan | Bayawan City, Negros Oriental | 1 |
| 2. Inocencio Billones | Bayawan City, Negros Oriental | 1 |
| 3. MONTICON | Had. Alicante, Isabela | 2 |
| 4. Jomila Moyong | Brgy. Himaya, Hinigaran | 1 |
| 5. DJ Ian Segunla | Antipolo, Pontevedra | 1 |
| 6. Emme Tanda | Brgy. Mambogaton, Himamaylan | 2 |
| 7. Eco Farm | Brgy. Gatuslao, Candoni | 5 |
| 8. La Granja Farm School | Brgy. La Granja, La Carlota | 1 |
| 9. Radan R. Cagalawan | Brgy. Ayungon, La Carlota | 1 |
| | | |
| | Subtotal | 15 |
| B. Research | | |
| - | - | - |
| | Subtotal | - |

For the Month of SEPTEMBER 2022

| Name | Hda/Address | No. of Samples |
|---------------------|---------------------------------------|----------------|
| C. Planter | | |
| 1. Melvin Ibanez | Had. Paz. La Carlota City | 27 |
| 2. Mae Anne Rafols | Had. Felicidad, La Carlota City | 1 |
| 3. Carlos M. Lanuza | Hda. Balabag, JL, Brgy. Balabag | 5 |
| 4. Rodante Senarosa | So. Ipil-ipil, Brgy. Ma-ao, Bago City | 1 |
| 5. Roberto Saga | Magsusunog, Pamplona | 1 |
| 6. TARI | Taiwan | 2 |
| 7. Joana Colmenares | Ma ao, Bago City | 1 |

| | | |
|--------------------|------------------|-----------|
| 8. Herman Manong | Ma ao, Bago City | 1 |
| | | |
| | Subtotal | 39 |
| B. Research | | |
| - | - | - |
| | | |
| | Subtotal | - |

For the Month of OCTOBER 2022

| Name | Hda/Address | No. of Samples |
|-------------------------|-------------------------------|----------------|
| A. Planter | | |
| 1. Ben Rodriguez | Brgy. Sagasa Bago City | 1 |
| 2. Ben Rodriguez | Brgy. Don George Bago City | 1 |
| 3. Armando Armonio | Brgy. Camandag | 1 |
| 4. Francis Armonio | La Castellana | 1 |
| 5. Rosalinda Valenzuela | La Castellana | 1 |
| 6. Agnes Lanio | La Castellana | 1 |
| 7. Susan Mission | La Castellana | 1 |
| 8. Letecia Bangeles | La Castellana | 1 |
| 9. John Regalado | Cansilayan Murcia | 2 |
| 10. Dennis Sellado | Brgy. Camalobalo Hinigaran | 1 |
| 11. Ricardo P. Campos | Brgy. Camalobalo Hinigaran | 1 |
| 12. Cesar Laurencio | Hda. Berta 2, Balabag | 1 |
| 13. Jesson A. Sevelo | So. Hiniwaran, Moises Padilla | 1 |

For the Month of NOVEMBER 2022

| Name | Hda./Address | No. of Samples |
|---------------------|---------------------------------------|----------------|
| A. Planter | | |
| 1. Manalo Abesit | Brgy. Pandan, Pontevedra | 3 |
| 2. Martin Jalandoni | Maja Grande Brgy. Robles, La Castella | 1 |
| 3. Martin Jalandoni | MTJ Farm Alegria Haguimit | 1 |
| 4. Martin Jalandoni | Hda. Carvina 3 Isabela | 1 |
| 5. Martin Jalandoni | Hda. Alegria Haguimit | 1 |
| 6. Martin Jalandoni | Hda. Palencia Brgy. San Miguel LCC | 1 |

| | | |
|------------------------------------|--------------------------------------|---|
| 7. Jose Nordy Arevalo | Hda. Salamanca | 1 |
| 8. Argeline Lubay | Cubay La Carlota | 1 |
| 9. Ma. Cecilia Farm Workers Assoc. | Brgy. Crossing Magallon | 1 |
| 10. Dama Farm Workers | Hda. Dama, Cabacungan | 1 |
| 11. Reform Benefeciaries | La Castellana | 1 |
| 12. Jayson Tumbay | La Carlota City | 2 |
| 13. Mellisa Jane C. Sison | La Carlota City | 1 |
| 14. Martin Jalandoni | Hda. Palencia Brgy. San Miguel LCC | 1 |
| 15. Martin Jalandoni | Hda. Alegria Haguimit | 2 |
| 16. Martin Jalandoni | Hda. Grande Brgy. Robles La Castella | 1 |
| 17. Martin Jalandoni | Hda. Carvina 3 Isabela | 1 |
| 18. UPLBCAFS / LGRTS | Brgy. La Granja, La Carlota | 1 |
| 19. Azcona, Pablo Luis | Hilamonan Kabankalan City | 7 |
| 20. HANARBA | Hda. Nalipay Brgy. V Isabela | 2 |
| 21. Alfredo Sevilla | Hda. Nalipay Brgy. V Isabela | 1 |
| 22. Salvacion Yangyang | Hda. Nalipay Brgy. V Isabela | 1 |
| 23. Gangoso, Luzviminda | Hda. Nalipay Brgy. V Isabela | 1 |
| | | |
| B. Research | | |
| 1. BSWM-PT Sample | | 2 |

For the Month of DECEMBER 2022

| Name | Hda./Address | No. of Samples |
|------------------------------------|---|----------------|
| A. Planter | | |
| 1. Alfonso Miguel Siason | Hda. Concordia, Brgy. Binalbagan | 11 |
| 2. Leonida Rato | Brgy. Manghanoy, Sitio Sambag | 1 |
| 3. Leah A. Dela Paz | San Isidro Pont. Negros | 1 |
| 4. Atty. Alfonso Miguel Siason | Brgy. Sibucan, San Enrique | 7 |
| 5. Elsa Zafra | Prk. Bagong Silang Ma-ao Bago City | 7 |
| 6. Jasper Neil D. Parcon | Brgy. Talacdan, Cauyan | 1 |
| 7. VIPM | Bais | 1 |
| 8. Amano | Sitio Nolan Brgy. Mansalanao, La castellana | 2 |
| 9. Ma. Cecilia Farm Workers Assoc. | Brgy. Crossing, Magallon | 1 |

| | | |
|---------------------------------|--|-----|
| 10. Estela Agrarian Reform Cop. | Hda. Estela A. Brgy. San Miguel La Carlota | 3 |
| 11. Mark Serios | Camingawan, Kabankalan | 2 |
| 12. Paul Azcona | Hda. San Lucas , Kabankalan City | 2 |
| 13. Neda Ueralio | Brgy. Malingin , Bago City | 1 |
| 14. Uswaldo Lipalam | Brgy. Binalbagan, Bogo City | 1 |
| 15. Leonico Alagase | Brgy. La Paz , Bogo City | 1 |
| 16. Dionisio Lirasan | Brgy. La Paz , Bogo City | 2 |
| 17. Eloisa Lambuyog | Brgy. Binalbagan, Bogo City | 1 |
| 18. Macario Ypil | Brgy. Binalbagan, Bogo City | 3 |
| 19. Maximo Batuigas | Hda. Iling-iling , Brgy. Cabandongan, Himamaylan | 1 |
| 20. Rolando Gambalan | Hda. Iling-iling , Brgy. Cabandongan, Himamaylan | 1 |
| | Sub-Total | 50 |
| B. Research | | |
| 1. JIRCAS | Multiple locations | 100 |
| | total | 150 |

II. Other Sugarcane By-Products

For the Month of January 2022

| Name | Sample | No. of Samples |
|----------------------|---------------------------------|----------------|
| A. Private | | 0 |
| | Subtotal | 0 |
| B. Research | | |
| 1. Rosenie Entima | Sugarcane Stalks, La Castellana | 48 |
| 2. Rosenie Entitma | Sugarcane Stalks, Sagay | 48 |
| 3. JIRCAS | Sugarcane Stalks, La Granja | 3 |
| 4. Teresita B. Bañas | Sugarcane Stalks, La Granja | 12 |
| | Sub Total | 111 |

For the Month of February 2022

| Name | Sample | No. of Samples |
|----------------------|---------------------------|----------------|
| A. Private | | |
| 1. Project-SARAI 1.2 | Sugarcane Stalks | 21 |
| | Subtotal | 21 |
| B. Research | | |
| 1. Rosenie Entima | Sugarcane Stalks, Manapla | 48 |
| | Subtotal | 48 |

For the Month of March 2022

| Name | Sample | No. of Samples |
|---------------------|-----------------------------|----------------|
| A. Private | | |
| 1. Carlos Jadeniano | Sugarcane Stalks, Talisay | 20 |
| 2. Project SARAI | Sugarcane Stalks | 46 |
| | Subtotal | 66 |
| B. Research | | |
| 1. Rosenie Entima | Sugarcane Stalks, La Granja | 72 |
| | Subtotal | 72 |
| | Grand Total | 318 |

For the Month of April 2022

| Name | Sample | No. of Samples |
|-------------------------------------|-----------------------------|----------------|
| B. Private | | |
| 1. Project SARAI | Sugarcane juice | 71 |
| 2. Carlos C. Jardeniano | Sugarcane juice | 20 |
| | Subtotal | 91 |
| B. Research | | |
| 5. Rosenie G. Entima | Sugarcane juice, SRA-LGAREC | 56 |
| 6. Soils Laboratory (Micronutrient) | Sugarcane juice, SRA-LGAREC | 48 |
| 7. Soils Laboratory (P-Validation) | Sugarcane juice, SRA-LGAREC | 27 |
| 8. Teresita Bañas | Sugarcane juice, SRA-LGAREC | 27 |
| | Sub Total | 158 |

For the Month of May 2022

| Name | Sample | No. of Samples |
|--------------------------------|-----------------------------|----------------|
| A. Private | | |
| 1. Carlos Jardeniano | Sugarcane juice | 40 |
| 2. Carlos Jardeniano | Sugarcane juice, Maa | 20 |
| | Subtotal | 60 |
| B. Research | | |
| 1. JIRCAS | Sugarcane juice, SRA-LGAREC | 12 |
| 2. Atty. Ignacio S. Santillana | Sugarcane juice, SRA-LGAREC | 7 |
| 3. Jhon Abrien Soliza | Sugarcane juice, SRA-LGAREC | 24 |
| 4. Jayno C. Ramos | Sugarcane juice, SRA-LGAREC | 12 |
| | Subtotal | 55 |

For the Month of June 2022

| Name | Sample | No. of Samples |
|---|----------------------------------|----------------|
| A. Private | | |
| 1. Edchel O. Lambot | Sugarcane juice, CPSU-Kabankalan | 18 |
| 2. Rustum G. Flores/Aries T. Villanueva | Sugarcane juice, Himamaylan City | 18 |
| | Subtotal | 36 |
| B. Research | | |
| 1. Ma. Theresa D. Alejandrino | Sugarcane juice, SRA-LGAREC | 129 |
| 2. Rosenie G. Entima | Sugarcane juice, SRA-LGAREC | 128 |
| 3. JIRCAS | Sugarcane juice, SRA-LGAREC | 3 |
| 4. PTCM | Sugarcane juice, SRA-LGAREC | 24 |
| | Subtotal | 284 |
| | Grand Total | 684 |

For the Month of JULY 2022

| Name | Sample | No. of Samples |
|-------------------|-----------------|----------------|
| C. Private | | |
| 1. | | - |
| | | |
| | Subtotal | - |

| | | |
|----------------------|-----------------------------|-----------|
| B. Research | | |
| 1. Farm Services | Sugarcane juice, SRA-LGAREC | 4 |
| 2. JIRCAS-SRA | Sugarcane juice, SRA-LGAREC | 15 |
| 3. Teresita B. Bañas | Sugarcane juice, SRA-LGAREC | 12 |
| | Sub Total | 31 |

For the Month of AUGUST 2022

| Name | Sample | No. of Samples |
|-------------------------------|-----------------------------|----------------|
| A. Private | | |
| - | - | - |
| | Subtotal | - |
| B. Research | | |
| 1. Teresita B. Bañas | Sugarcane juice, SRA-LGAREC | 6 |
| 2. JIRCAS-SRA | Sugarcane juice, JIRCAS-SRA | 3 |
| 3. Ma. Theresa D. Alejandrino | | 24 |
| | Subtotal | 33 |

For the Month of SEPTEMBER 2022

| Name | Sample | No. of Samples |
|----------------------|-----------------------------|----------------|
| A. Private | | |
| Carlos Jardeniano | - | 4 |
| | Subtotal | 4 |
| B. Research | | |
| 1. Teresita B. Bañas | Sugarcane juice, SRA-LGAREC | 44 |
| | Subtotal | |
| | Grand Total | 46 |

For the Month of October 2022

| Name | Sample | No. of Samples |
|-----------------------|-----------------------------|----------------|
| D. Private | | |
| | Subtotal | 0 |
| B. Research | | |
| 9. Rosenie G. Entima | Sugarcane juice, SRA-LGAREC | 48 |
| 10. Teresita B. Bañas | Sugarcane juice, SRA-LGAREC | 6 |
| | Sub Total | 54 |

For the Month of November 2022

| Name | Sample | No. of Samples |
|----------------------|-----------------------------|----------------|
| A. Private | | |
| | Subtotal | |
| B. Research | | |
| 1. Rosenie G. Entima | Sugarcane juice, SRA-LGAREC | 96 |
| 2. Teresita B. Bañas | Sugarcane juice, SRA-LGAREC | 6 |
| | Sub Total | |
| | Total | 102 |

For the Month of December 2022

| Name | Sample | No. of Samples |
|------------------------|-----------------|----------------|
| A. Private | | |
| 1. John Louie T. Sabio | Sugarcane stalk | 5 |
| | Subtotal | 5 |
| B. Research | | |
| 1. Rosenie Entima | Sugarcane stalk | 84 |
| | Subtotal | 84 |
| | Total | 89 |

III. Special Analysis

For the Month of January 2022

| Name | Sample | No. of Samples |
|---------------------|------------------|----------------|
| A. Research | | |
| 1. JIRCAS-SRA | Sugarcane juice | 3 |
| 2. Soils Laboratory | Sugarcane leaves | 48 |
| 3. Soils Laboratory | Sugarcane leaves | 27 |
| | Subtotal | 78 |

For the Month of February 2022

| Name | Sample | No. of Samples |
|--------------------|-----------------|----------------|
| B. Research | | |
| 1. JIRCAS-SRA | Sugarcane Fibre | 64 |
| | | |
| | Subtotal | 64 |

For the Month of March 2022

| Name | Sample | No. of Samples |
|--------------------|-----------------|----------------|
| C. Research | | |
| 1. JIRCAS-SRA | Sugarcane Fibre | 64 |
| | | |
| | Subtotal | 64 |
| | Total | 206 |

For the Month of April 2022

| Name | Sample | No. of Samples |
|--------------------|-----------------|----------------|
| D. Research | | |
| 1. JIRCAS-SRA | Sugarcane fiber | 3 |
| 2. JIRCAS-SRA | Sugarcane fiber | 3 |
| | Subtotal | 6 |

For the Month of May 2022

| Name | Sample | No. of Samples |
|--------------------|-----------------|----------------|
| E. Research | | |
| 1. JIRCAS-SRA | Sugarcane fiber | 9 |
| | Subtotal | 9 |

For the Month of June 2022

| Name | Sample | No. of Samples |
|--------------------|-----------------|----------------|
| F. Research | | |
| 1. JIRCAS-SRA | Sugarcane leaf | 5 |
| | Subtotal | 5 |
| | Total | 20 |

For the Month of July 2022

| Name | Sample | No. of Samples |
|--------------------|-----------------|----------------|
| G. Research | | |
| 1. monticon | BMO | 3 |
| 2. J. Ledesma | BMO | 2 |
| 3. URSOMCO | BMO | 2 |
| | Subtotal | 7 |

For the Month of August 2022

| Name | Sample | No. of Samples |
|-------------------------|------------------|----------------|
| H. Research | | |
| 1. JIRCAS-SRA | Sugarcane juice | 15 |
| 2. JIRCAS-SRA | Sugarcane fiber | 45 |
| 3. JIRCAS-SRA | Sugarcane stalks | 15 |
| 4. JIRCAS-SRA | Sugarcane leaves | 15 |
| 5. KABANKALAN BLOCKFARM | BMO | 3 |
| | Subtotal | 93 |

For the Month of September 2022

| Name | Sample | No. of Samples |
|-------------------------|-----------------|----------------|
| I. Research | | |
| 1. JIRCAS-SRA | Sugarcane fiber | 45 |
| 2. KABANKALAN BLOCKFARM | BMO | 3 |
| 3. FFTC TARI | PLANT TISSUE | 1 |

| | | |
|-------------|-----------------|------------|
| 4. BUKIDNON | BMO | 1 |
| | Subtotal | 50 |
| | Total | 150 |

For the Month of October 2022

| Name | Sample | No. of Samples |
|--------------------|------------------|----------------|
| J. Research | | |
| 1. JIRCAS-SRA-NSC | Sugarcane fiber | 18 |
| 2. JIRCAS-SRA-NSC | Sugarcane stalks | 3 |
| 3. JIRCAS-SRA-NSC | Sugarcane leaves | 3 |
| 4. CADPI | BMO | 1 |
| 5. MONTINOLA | BMO | 2 |
| | Subtotal | 27 |
| | | |

For the Month of November 2022

| Name | Sample | No. of Samples |
|--------------------|-----------------|----------------|
| K. Research | | |
| 1. MTD | BMO | 12 |
| 2. HAGCARBA | BMO | 2 |
| | Subtotal | 14 |

For the Month of December 2022

| Name | Sample | No. of Samples |
|--------------------|-----------------|----------------|
| L. Research | | |
| 1. La Carlota mddc | BMO | 2 |
| 2. LAREC | BMO | 4 |
| 3. SAGAY MDDC | BMO | 2 |
| | Subtotal | 8 |
| | Total | |

II. Best Practice/s (if applicable)

- Timely analysis of the samples this ensures that our clients get the results in preparation for their planting.
- Communicating with the clients to remind them to take the results via email or in person. This ensures that our commitment to serve them.
- Good record keeping tracking of the requested items.
- Continuous field visits and lectures on soil fertility management, proper soil sampling, and proper BMO preparation to name a few. These activities ensures that planters and stakeholders are properly trained and informed of the correct and efficient way to manage the fertilizer application thru our soil test. Also, this activity gives our client updated and informative knowledge to the importance of our services in connection to their profitability thereby increasing the clients coming to our laboratory.

III. Photo Documentation

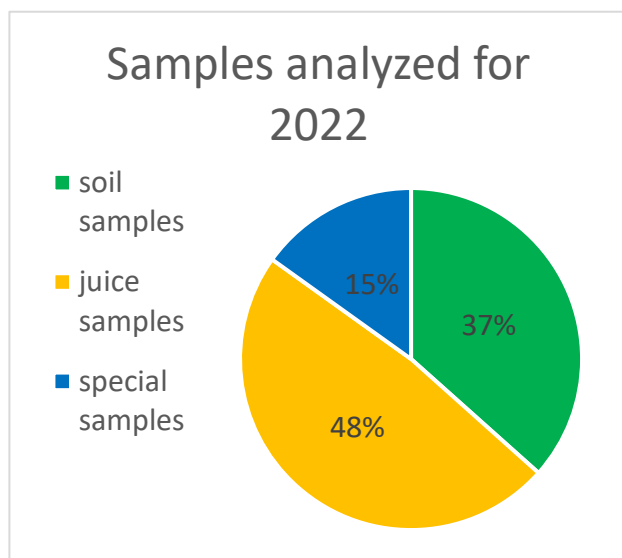


Figure 1. distribution of samples received for crop year 2022



Figure 2. Quantitative and Qualitative analysis of BMO



Figure 3. PT samples from FAO and FFTC- TARI, (Rightmost) certificate of participation from FFTC-TARI

IV. Sustainability Plan of the PAP

The project will bank on its goal to deliver timely and accurate laboratory services thru soil analyses, sugarcane juice maturity testing and other agro-based materials analyses referred by planters, farmers, fertilizer formulators, researchers, and other walk-in clients as its sustainability mechanism.

The following support actions and mechanism will be implemented to ensure that the project achievements are sustained:

(1) massive information drive on soil fertility management clients is made aware of the importance of our services to their gains, thus increasing the flow of samples receive and analyzed by the laboratory. We are, likewise, actively involved in the transfer and dissemination of our specialized field of expertise through our Outreach Programs for the Sugar Industry (OPSI) to students, researchers, farmers, and other entities in the sugar industry. We were active in providing online and onsite lectures on (1) Soils Sampling and fertilization; (2) Liming of Sugarcane crops; and (3) Soil fertility as well as the farmers who visit the Soils laboratory-LGAREC for fertilizer computations, and some field visit especially in this challenging and critical times wherein fertilizer prices are constantly increasing, and our soil is gradually declining in fertility.

(2) securing licenses to operate with ease that our laboratories conforms to different regulatory buddies. Our laboratory has since then work on securing licenses and as of the moment we have secured license to operate(LTO) as a chemical laboratory from professional regulation commission(PRC) to date we are still working on securing additional license required by Bureau of Soil and Water Management (BSWM). In addition to this the laboratory also needs to secure permits from Philippine national police (PNP) and Philippine Drug Enforcement Agency (PDEA) to secure necessary chemicals so that the laboratory will not have hindrance in procuring certain chemicals needed for some analysis that our clients and researchers needs. Also, these permits, and licenses is vital for securing an ISO certificate so that the laboratory will be at par to the international standards.

(3) continuous trainings and seminars are highly necessary for the technical staff to be updated on the latest trends and techniques in analyzing the samples in a much sustainable and environment friendly way.

(4) laboratory equipment and maintenance, this ensures that equipment is functioning well and calibrated thus reducing errors in analysis and cost by buying new one.

Department/Division: Soils Laboratory, SRA-LGAREC, RD&E - VISAYAS

Year: 2022

A.

PROGRAM/PROJECT: Research/Collaborative projects

Approved Budget: 92,000

I. Highlights of Accomplishment

A. Research Activities

For Crop Year 2022, the Soils Laboratory section has terminated four (4) field experiments. This researches are entitled; **(1) Micronutrient Sufficiency level in Sugarcane crop; (2) Phosphorus Method Field Validation; (3) Pesticides Residues assessment; and (4) Bioremediation and P-speciation in sugarcane respectively.**

All of these experiments were sampled, analyzed, and monitored for both leaves and soil every 3 months from planting to assess the response of treatments to its nutrient uptake and soil chemical properties. Also, growth parameters were measured and recorded every three months as well, to monitor the growth response relative to age and treatments for each respective research. All this research has been harvested and terminated last March 2022. Refer to Figure 1 and 2 below.

The Soils Laboratory section have presented two (3) research projects was presented in Philsutech convention, Philippine Chemistry congress, DOST scholars conference, and 13th international symposium on southeast Asian water environment ; **(1) Soils Fertility Status of Sugarcane Cultivated Areas in the Philippines; and (2) Combined Effect of Azospirillum spp. Arbuscular Mycorrhizal Fungi and Sugar Press Mud to the Growth and Nutrient Uptake of Water-Stressed Sugarcane Plant; (3) Ground Nitrate Concentration on Intensive Sugarcane Growing Areas in Negros Island Philippines all are presented by Ms. Virgie P. Celestial.** In addition, Jayno Ramos and Jhon Abrien Soliza presented four finished project for the concluded SRA-RDE national in-house review 2022 entitled **(1)Assessment Of Pesticide Residue On Soil, Run-Off, Plant Tissue And Juice Of Selected Philippine High Yielding Varieties Of Sugarcanes; (2) Yield Response Of Phil 2004-1011 As Influenced By Varying Levels Of Soil Micronutrients' Boron, Zinc, Copper And Molybdenum; (3) Soil Bioremediation And Phosphorus Speciation Applied With Different Organic Amendments; (4) Available Phosphorus Extraction Method Field Validation For Sugarcane Crop.** Also, for research 1 and 4 Mr. Ramos and Soliza have won 1st place and best paper, respectively. All these papers are all equally important and valuable for the stakeholders. (Refer to Figure 3, 4, and 5)

B. Collaborative Research Projects

We are continually working with our JIRCAS counterparts on three (3) projects namely; **(1) Development of Soil Carbon Storage; and (2) Development of Deep Planting Technology in the Philippines; and (3) Development of Sugarcane Production System which can Produce the Highest Annual Yield.** The third batch of soil sample collection was actualized last February 14-March 3, 2022 as part of the “Development of Soil Carbon Storage” research project. Soil samples were collected from various sampling sites composed of sugarcane, forest and home garden areas in Negros Occidental. It was then sent to JIRCAS research station in Tsukuba, Japan for analysis upon collection. Refer to figure 6

For February 21, 2022, the SRA-LGAREC Soils Laboratory personnel conducted the harvesting, yield parameter data collection, fiber content, sucrose, fructose and glucose analysis for Treatments T1 (12 MAP-Dry Season), T3 (8 MAP-Dry Season), T4 (6 MAP-Dry Season) & T8 (6 MAP-Wet Season) on “Development of Sugarcane Production System which can Produce the Highest Annual Yield” research project.

Further, the field lay-out of “Development of Deep Planting Technology in the Philippines” research experiment was also started last March 18, 2022 in two different sites in Negros Occidental with varying soil fertility level. Monthly monitoring of the plant growth was also conducted through collection of growth parameter data such as plant height, tiller count and SPAD index. Refer to (Figure 7).

Furthermore, another set of harvesting was done last August to measure the yield parameters such as; fiber content, sucrose, fructose and glucose analysis for treatments T2 (10 MAP-Dry Season), T4 (6 MAP-Dry Season), T5 (12 MAP-Wet Season), T7 (8 MAP-Wet Season) & T8 (6 MAP-Wet Season) on the third project mention above.

Table 1. Soils Laboratory Research Activities

| Project Name | Micronutrient Sufficiency Determination | Phosphorus Method Field Validation | Pesticide Residue Assessment | Soil Bioremediation |
|---------------------|--|---|---|---|
| Test Site | <i>LGAREC, LOT 19</i> | <i>LGAREC, LOT 19</i> | <i>LGAREC, LOT 19</i> | <i>LGAREC, Lot 14</i> |
| January | Conduct Brix Monitoring | Conduct Brix Monitoring | Sample Tagging | Sample Tagging |
| February | Harvesting, Data gathering and Sampling | Harvesting, Data gathering and Sampling | Conduct Brix Monitoring | Conduct Brix Monitoring |
| March | Analyzed soil samples | Analyzed soil samples | Harvesting, Data gathering and Sampling | Harvesting, Data gathering and Sampling |
| April | Encoding of data | Encoding of data | Analyzed soil samples | Analyzed soil samples |
| May | - | - | Encoding of data | Encoding of data |
| June | Terminated From this point | Terminated From this point | Terminated From this point | Terminated From this point |

Table 2. Soils Laboratory Collaborative Research Activities with JIRCAS

| Date | Research Project/ Program | Activity |
|----------------------------------|--|--|
| February 14-March 3, 2022 | Development of Soil Management Technique to Improve the Soil Carbon Storage | -Collection of soil samples at various sampling sites in Negros Occidental, composed of sugarcane fields, forest and home garden areas. |
| February 21, 2022 | Development of Sugarcane Cultivation System which can Produce the Highest Annual Yield | -Harvesting of sugarcane stalks from Treatments T1 (12 MAP-Dry Season), T3 (8 MAP-Dry Season), T4 (6 MAP-Dry Season) & T8 (6 MAP-Wet Season) -Collection of yield parameter data such as plot weight, stalk weight, stalk diameter and number of internodes -Analysis of percent fiber, sucrose, fructose and glucose content of sugarcane stalk samples |
| March 18-March 27, 2022 | Development of Deep Planting Technology in the Philippines | -Conducted field lay-out and planting on Alijis, Bacolod City (Low Soil Fertility) and SRA-LGAREC (Standard Soil Fertility) |
| June 2022 | Development of Deep Planting Technology in the Philippines | -Collected growth parameter data (3 MAP) on Alijis, Bacolod City (Low Soil Fertility) and SRA-LGAREC (Standard Soil Fertility) |
| July 2022 | Development of Deep Planting Technology in the Philippines | -Collected growth parameter data (4 MAP) on Alijis, Bacolod City (Low Soil Fertility) and SRA-LGAREC (Standard Soil Fertility) |
| August 2022 | Development of Sugarcane Cultivation System which can Produce the Highest Annual Yield | -Harvesting of sugarcane stalks from Treatments T2 (10 MAP-Dry Season), T4 (6 MAP-Dry Season), T4 (6 MAP-Dry Season), T5 (12 MAP-Wet Season) & T8 (6 MAP-Wet Season) -Collection of yield parameter data such as plot weight, stalk weight, stalk diameter and number of internodes -Analysis of percent fiber, sucrose, fructose and glucose content of |

| | | |
|-----------------------|--|--|
| | | sugarcane stalk samples |
| September 2022 | Deep Planting Technology | -Collected growth parameter data (6 MAP) on Alijis, Bacolod City (Low Soil Fertility) and SRA-LGAREC (Standard Soil Fertility) |
| October 2022 | Deep Planting Technology | -Collected growth parameter data (7 MAP) on Alijis, Bacolod City (Low Soil Fertility) and SRA-LGAREC (Standard Soil Fertility) |
| | Development of Sugarcane Cultivation System which can Produce the Highest Annual Yield | -Harvesting of sugarcane stalks from Treatment 8 -Collection of yield parameter data such as plot weight, stalk weight, stalk diameter and number of internodes |
| November 2022 | Deep Planting Technology | -Collected growth parameter data (8 MAP) on Alijis, Bacolod City (Low Soil Fertility) and SRA-LGAREC (Standard Soil Fertility) |
| | | -Field visit together with JIRCAS research team on all on-going collaborative projects and other probable research areas in Negros. |
| December 2022 | Deep Planting Technology | -Collected growth parameter data (9 MAP) on Alijis, Bacolod City (Low Soil Fertility) and SRA-LGAREC (Standard Soil Fertility) |

II. Best Practice/s (if applicable)

- Timely analysis of the samples this ensures that results is ready in preparation for the analysis of data for presentation.
- Good record keeping and tracking of the requested items and job request to ensure continuous pay out for our workers on field.
- Continuous field visits and monitoring of research fields to ensure that all activities are done timely and fields are will taken care of.
- Training and seminars are also vital in updating our knowledge in research
- Good coordination between departments to ensure smooth flow of work
- Constant meeting and update with our JIRCAS collaborative partners.

III. Photo Documentation

A. Research Activities



Figure 1. Research field activities such as harvesting, stalk sampling,



Figure 2. Sampling and data gathering activities



Figure 3. Researches Presented in 36th Philippine chemistry Congress, Philsutech convention, and DOST scholars conference.



Figure 4. Researches Presented in 36th Philippine chemistry Congress, Philsutech convention, and DOST scholars conference.



Figure 5. SRA-RDE inhouse review 1st place and best paper award for the soils lab-LGAREC team

B. Collaborative Research Projects



Figure 6. Soil collection for the collaborative research of SRA and JIRCAS



Figure 7. Field lay-out of "Development of Deep Planting Technology in the

IV. Sustainability Plan of the PAP

The research projects of the soils lab was terminated and presented for year 2022, All these papers are all equally important and valuable for the stakeholders and promotes sustainability in farming cultures, while JIRCAS collaborative projects are still on-going and vastly depends on the funds from the proposed projects of JIRCAS collaborators.

**RESEARCH DEVELOPMENT AND EXTENSION
AGRICULTURAL SUPPORT SERVICES DIVISION**

Year: 2022

A. PROGRAMS/RPROJECTS:

1. FARM SERVICES UNIT

1.a. *Propagation of New and Prevailing HYVs including One Eye Cutting Nursery*

1.b. Budget: Php6,327,848.00

2. SUPPORT SERVICES DIVISION

2.a. *Provision of Support Services for the LGAREC Station*

2.b. Budget: Php7,444,780.00

3. TRICHOGRAMMA LABORATORY

3.a. *Mass Production of Trichogramma Strips for the Control of Borers*

3.b. Budget: 699,308.00

I. HIGHLIGHTS OF ACCOMPLISHMENTS

A. FARM SERVICES UNIT

One of the important functions of the unit is the propagation and distribution of Sugar Regulatory Administration's sugarcane New High Yielding Varieties(HYV's); sales and distributions of sugarcane canepoints to sugarcane planters, MDDC's, SUC's, sugarcane farmer associations, block farms, individual/group of sugarcane researchers and also provision of planting materials to SRA-LGAREC research units.

For fiscal year 2022, the sales and distributions of HVY's exceeded the target by about 255.54%, from 280 lacs target to 715.52 lacs actual released with 152 recipients. The massive releases of HYV were due to the clients increased demand and satisfactory feedback of SRA produced varieties which help sugarcane planters increase their production and income. Among HYV's, Phil 2006-2289 gain the highest demand which reached up to 75.56% of the total released as shown in the table below.

On the other hand, sugarcane planters took the lead for all recipients of HYVs (84.21%), followed by block farms/MDDCs/sugarcane farmers association (11.18%) and researchers/SUCs (4.61%).

Aside from sales and distributions of sugarcane HYVs, the unit also has provided support services to LGAREC research units; area allocations, field operations/land preparations, irrigation and drainage and other support operations.

PRODUCTION AND DISTRIBUTION OF HYV

| VARIETY | TOTAL PRODUCTION (LACSA) | TOTAL DISTRIBUTION (LACSA) | NO. OF BENEFICIARIES | VARIETY SHARE ON DISTRIBUTION |
|----------------|--------------------------|----------------------------|----------------------|-------------------------------|
| PHIL 2009-0919 | 5.32 | 5.32 | 4 | 0.74% |
| PHIL 2009-1969 | 74.6 | 71 | 18 | 9.92% |
| PHIL 2006-2289 | 551.14 | 540.64 | 101 | 75.56% |
| PHIL 2006-1899 | 0.12 | 0.12 | 1 | 0.02% |
| PHIL 2004-0827 | 0.06 | 0.06 | 1 | 0.01% |
| PHIL 2004-1011 | 0.16 | 0.16 | 1 | 0.02% |
| PHIL 2000-0791 | 1.3 | 1.3 | 1 | 0.18% |
| PHIL 99-1793 | 96.5 | 96.5 | 22 | 13.49% |
| PHIL 97-3933 | 0.1 | 0.1 | 1 | 0.01% |
| PHIL 8013 | 0.32 | 0.32 | 2 | 0.04% |
| TOTAL | 729.62 | 715.52 | 152 | 100% |

HYV CANEPOINTS RECIPIENT DISTRIBUTION

| RECIPIENTS | | TOTAL NUMBER of TAKERS | TOTAL NUMBER OF LACSA | PERCENT SHARE OF TAKERS |
|---|--------|------------------------|-----------------------|-------------------------|
| Sugarcane Planters | MALE | 103 | 549.16 | 67.76% |
| | FEMALE | 25 | 63.58 | |
| Block Farms/MDDC/Sugarcane Planter Associations/Organizations | | 17 | 75.84 | 11.18% |
| Researchers/SUC's | | 7 | 26.94 | 4.61% |
| TOTAL | | 152 | 715.52 | 100.00% |

B. SUPPORT SERVICES UNIT

The unit is responsible for the provision of support services to different research units of SRA-LGAREC Station. These support services which help LGAREC researchers and personnel did their specific operations include;

- a. Tractor services for field operations(land preparations, inter-row cultivations, hauling of researchers cane samples and planting materials, hauling of agricultural supplies)
- b. Transportation services to researchers and other LGAREC personnel to different specific locations
- c. Support labor services and other services: maintenance of buildings and grounds, repair and maintenance of electrical power system, irrigation and domestic water facilities, repair and maintenance of service vehicles, tractors and implements.

Table below shows some important accomplishments of the unit for SRA-LGAREC field operations.

IRRIGATION SERVICES AND OPERATION

| DIVISION/UNIT | NO. OF HECTARES IRRIGATED |
|-------------------|---------------------------|
| RESEARCH DIVISION | 11.891 Ha |
| FARM SERVICES | 13.987 Ha |
| TOTAL | 25.878 Ha |

TRACTOR SERVICES AND OPERATIONS

| DIVISION/UNIT | LAND PREPARATIONS / CLEARING OPERATIONS | INTER-ROW CULTIVATIONS (RATOONER / ROTAVATOR) |
|-------------------|---|---|
| RESEARCH DIVISION | 28.531 Ha | |
| FARM SERVICES | 16.177 Ha | 22.309 ha |
| TOTAL | 44.708 Ha | 22.309 Ha |

This table shows the list of service vehicles used by LGAREC Station in different field operations. Service vehicles for the transportation of researchers and LGAREC personnel. Trucks were used in hauling agricultural supplies, delivery of harvested canes, hauling mud press and mill ashes and delivery and hauling of researchers planting materials and cane samples respectively.

| VEHICLES | YEARS IN SERVICE | STATUS/REMARKS |
|------------------------|------------------|---|
| 1. NISSAN NAVARA | 15 years | Operational; for replacement of brake system and PMS |
| 2. HYUNDAI H-100 | 5 years | Operational; aircon for check-up |
| 3. FUSO DUMP TRUCK | 18 years | Operational; minor repair done on brakes |
| 4. ISUZU ALUMINUM VAN | 2 years | Operational |
| 5. TOYOTA VAN | 2 years | Operational |
| 6. TOYOTA REVO SJF-356 | 19 years | Operational; for wash-over, minor problem on steering |
| 7. NISSAN VAN NV350 | 7 years | Operational |
| 8. CANTER DUMPTRUCK | 10 years | Operational; minor repair done on clutch |

This table shows the list of tractors and implements which notably did field operations for research and propagation field.

TRACTORS AND IMPLEMENTS

| TRACTOR/IMPLEMENT | ACTIVITIES DONE/STATUS/REMARKS |
|----------------------------------|--|
| 1. FORD TRACTOR 6600 | For repair; hydraulic cylinder |
| 2. JOHN DEERE 6605 #1 | Non-Operational; for overhauling |
| 3. JOHN DEERE 6605 #2 | Operational; for injection pump calibration |
| 4. JOHN DEERE 3036EN | Operational; with rotavator for cultivation |
| 5. JOHN DEERE 3036E | Operational; with sickle sword for harvesting |
| 6. JOHN DEERE 3036E | Operational; with sickle sword for harvesting |
| 7. FORD COUNTY(Dozer) | Operational |
| 8. ROTAVATOR | Operational |
| 9. DISC HARROW(FORD TRACTOR) | Non-Operational; disc shaft was fractured and for repair |
| 10. DISC HARROW(John Deere 6605) | Operational |
| 11. FURROWER(4units) | Operational |
| 12. DISC PLOW | Operational |
| 13. CHISEL IMPLEMENT | Operational |
| 14. INTER-ROW IMPLEMENT | Operational |
| 15. Cane Grabber1 | Operational |
| 16. Cane Grabber2 | Operational |
| 17. Moldboard Plow | Non-operational; under repair |

A. TRICHOGRAMMA LABORATORY

The mass production of *Trichogramma* as a potential biological control agent against sugarcane stem borers of the Sugar Regulatory Administration, La Granja Agricultural Research and Extension Center gave a significant impact to the sugarcane planters as well as to rice, corn, and vegetable farmers in Negros and other part of Visayas for the past years.

The increasing demand of sugarcane planters/farmers is an evidence of its significance to the farmers as their biological control agent for stem borers. *Trichogramma* is an egg parasitoid that kills the pest before it can cause any damage to the plant.

TRICHOGRAMMA STRIPS PRODUCTION AND DISTRIBUTION

| ITEM | TOTAL PRODUCTION | TOTAL DISTRIBUTION | NO. OF BENEFICIARIES | REMARKS |
|---------------|------------------|--------------------|----------------------|-----------------------------------|
| | (NO. OF STRIPS) | (NO. OF STRIPS) | | |
| TRICHO STRIPS | 33,804 | 26,287 | 113 | 7,517 strips were used as starter |

TRICHOGRAMMA STRIPS RECIPIENT DISTRIBUTION

| RECIPIENTS | | TOTAL NUMBER | TOTAL NUMBER OF STRIPS TAKEN | PERCENT SHARE OF TAKERS |
|---|--------|--------------|------------------------------|-------------------------|
| Sugarcane Planters | MALE | 78 | 9,761 | 69.03% |
| | FEMALE | 2 | 104 | 1.77% |
| Block Farms/MDDC/Sugarcane Planter Associations/Organizations | | 11 | 12,336 | 9.73% |
| Researchers/SUC's | | 22 | 4,086 | 19.47% |
| TOTAL | | 113 | 26,287 | 100.00% |

II. PHOTO DOCUMENTATIONS

HYV FIELD PHOTOS

PHIL 2006-2289



PHIL 2006-2289



CUTBACKED PHIL 2006-2289 READY TO RELEASE

PHIL 2006-2289



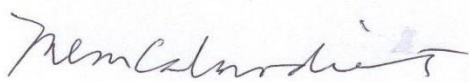
VARIOUS ACTIVITIES OF TRICHOGRAMMA LABORATORY



III. SUSTAINABILITY PLAN OF THE PAP

The division shall continue and improve the productivity of the projects to support and provide the necessities of sugarcane planters, researchers, research units, and other clientele of LGAREC Station.

Prepared and submitted by,



MA. LOURDES C. ALMODIENTE, Dr. Dev.
OIC-Agricultural Support Services Divisio

Division/Unit: Agro-Based Laboratory Unit-Visayas**Year: 2022****PROGRAM/PROJECT:****1. Soil, Fertilizer, Plant Tissues and other Special Analysis**

Budget: Php 4,130,000.00

1.a. Preparation of Cultures of Microorganism for Sugarcane Production.

Budget: Php 78,000.00

1.b. P.D. 1435 Issuance of LTO-SL

Budget: Php 150,000.00

2. Determination of sufficiency level of Micronutrient for Sugarcane Soils.

Budget: Php 70,000.00

3. Comparison of Soil Phosphorus Analytical methods for Sugarcane Soils.

Budget: Php 70,000.00

I. Highlights OF ACCOMPLISHMENT**1. Soil, Fertilizer, Plant Tissues and other Special Analysis**

The Agro-Based Laboratory Unit delivered a high quality and timely laboratory services to Stakeholders of Negros and Panay Areas through: Conducting chemical analysis of soil Recommending fertilizer doses based on the results of analysis. Conducting proximate analysis of various agro-based materials (Lime, Rockphosphate, Dolomite, Commercial and Organic fertilizer, feeds, Plant Tissues, etc.) Extending technical assistance to planters and formulators on problem related to results interpretation, fertilizer scheme, etc. Maintaining culture of beneficial microorganism in agriculture and formulate suitable carriers for these Microorganism. Beneficial Microorganism were made available to sugar farmers for free.

The laboratory received and analyzed a total of **2748** samples for the year 2022. There were **1,875** soil samples which were submitted by **543** planters and **873** special sample submitted by **159** planters, researchers and agricultural product suppliers. Also, a total of **1518** determination were conducted for Total Nitrogen (N), Phosphorus (P), Potassium (K), Calcium (Ca), Magnesium (Mg), Calcium Carbonate (CaCO₃), Silica as (SiO₂), Copper (Cu), Iron (Fe), Lead (Pb), Zinc (Zn), Arsenic (As), Mercury (Hg), Cadmium (Cd), Aluminum as (Al₂O₃) and Manganese (Mn). In addition, the trace elements were conducted using X-Ray Fluorescence Spectrophotometer.

Summary of sample analyzed and clients served for year 2022

| Sample Type | No. of sample analyzed | No. of client served |
|----------------|------------------------|----------------------|
| Soil Sample | 1875 | 543 |
| Special Sample | 873 | 149 |
| Total | 2748 | 702 |

Soil analysis is the valuable tool for sugar farming. Proper soil test will help ensure the application of enough fertilizer to meet the requirement of the crop while taking advantage of the nutrients already present in the soil. With proper fertilization production increases, higher sugar yield means higher returns.

1.a. Preparation of Cultures of Microorganism for Sugarcane Production

The Laboratory maintain the following cultures of Beneficial Microorganism for agricultures: Acetobacter, Azotobacter, Azospirillum, Trichoderma and others indigenous microorganism. And prepare **92** litter of pure culture. These were made available to planters for free. By maintaining this Beneficial Microorganism, help in the mass production conducted by the researchers in LGAREC, available for distribution to stakeholders.

1.b. P.D. 1435 Issuance of LTO-SL (License to Operate Soil Laboratory)

The Agro-Based Laboratory participated in three (PT) Proficiency Testing provider. The proficiency testing is one of the requirements of the Laboratory for LTO_SL application as per P.D. 1435:

1. GLOSOLAN Global Soil Laboratory Network, United nation. Conducted last March 2022
2. FFTC-TARI Taiwan Agricultural Research Institute Proficiency Testing for soil and plant tissues conducted last August 2022;
3. PHIL NASOLAN Philippine National Soil Network soil proficiency testing cycle-01 conducted last November 2022.

The Agro-Based Laboratory given a satisfactory rating with a Z-score of ≤ 2 . For Organic Carbon, Phosphorus, Nitrogen, Calcium, Magnesium and pH. (Z-score indicate less than 2 satisfactory, between 2 & 3 questionable and greater than 3 is unsatisfactory). The certificate of License to Operate Soils Laboratory (LTO-SL) is important and valuable to all Soils Laboratory in the Philippines to continue its operation.

2. Determination of Sufficiency Level of Micro-nutrient for Sugarcane Soils

3. Comparison of Soil Phosphorus Analytical Methods for Sugarcane Soils

This two (2) projects; 1) Determination of Sufficiency Level of Micro-nutrient for Sugarcane Soils; 2) Comparison of Soil Phosphorus Analytical Methods for Sugarcane Soils, were terminated March 2022, these were the collaborative research of Agro-Based Laboratory and Soils Laboratory LGAREC. These were re-titled to;

1. Yield Response of Phil 2004- 2011 as Influenced by Varying Levels of Soil Micro-nutrient' Boron, Zinc, Copper and Molybdenum;
2. Available Phosphorus Extraction Method Field Validation for Sugarcane Crop. These were

presented in the 2022 RDE-NATIONAL IN-HOUSE Review in Pampanga by Mr. Jayno Ramos and Jhon Abrien Soliza of Soils Laboratory LGAREC and have won 1st place and best paper respectively. All these papers are all equally important and valuable for all Stakeholders. The detailed Summary of the research activity for 2022, were included in the Soils Laboratory LGAREC 2022 Annual Narrative Report.

II. Best Practices

A. Timely delivery of quality services

- The analysis result should be ready before the given date. Extending assistance to client for their soil fertility concerns and students for their research and on the job training.

III. Photo Documentation





The Lab..... that's where the action is.

IV. SUSTAINABILITY PLAN OF THE PAP

1. Soil, Fertilizer, Plant Tissues and other Special Analysis

Proper soil management that meet the needs of the present without compromising the ability of future generation to meet their own needs for soil. This make soil sustainable.

Recommendation:

Regular soil analysis every 2-3 years to monitor the deficiency of soil fertility and its pH level and proper fertilization as recommended according to soil test.

Prepared by:

NELSIE GRACE E. GELA

Agro-Based Laboratory

OIC-

Department: Research Development and Extension (RDE)**Division/ Unit: Extension Services Division - Visayas****CORPORATE AND SIDA FUNDED PROJECTS****Year: 2022****I. Highlights of Accomplishment**

This annual report presents the accomplishments of Extension Services Division - Visayas for Year 2022.

MANPOWER COMPLEMENT

The Extension Services Division Visayas has a total of 163 personnel complement, with 4 Agriculturists assigned in different mill districts. Contract of Service personnel is composed of 67 Project Development Officers, 18 Project Evaluation Officers, 19 Agriculturists I, 20 Farm Surveyors and 35 office-based personnel, all under job order basis.

On the other hand, the division has provided the necessary technical assistance to sugarcane planters in 16 mill districts in the whole Visayas.

For Crop Year 2021-2022, the total area planted for sugarcane in the Visayas is **272,106.26** hectares with a final monitored production in total tonnage of **21,439,625.18** and a total LKg of **37,355,567.30**. The total sugar produce is **1,867,778.37** metric tons. Visayas average production for Crop Year 2021-2022 is **54.33** TC/Ha with **1.74** LKg/TC and an average of **94.66** LKg/Ha.

| Mill District | Area Planted (Has) | Area Harvested (Has) | Final Production CY 2021-2022 | | | Average Production | | |
|-------------------------|--------------------|----------------------|-------------------------------|---------------|---------------|--------------------|-----------|--------|
| | | | Tons Cane | LKg | Sugar MT | TC/HA | LKG/HA | LKG/TC |
| LA CARLOTA | 18,568.29 | 18,568.29 | 1,169,802.27 | 2,047,153.97 | 102,357.70 | 63.00 | 110.25 | 1.75 |
| MA-AO | 11,965.37 | 11,965.37 | 720,224.97 | 1,282,000.45 | 64,100.02 | 60.19 | 107.14 | 1.78 |
| BAC-MUR-FFHC | 20,390.00 | 20,390.00 | 1,243,790.00 | 2,176,632.50 | 108,831.63 | 61.00 | 106.75 | 1.75 |
| HPCO | 13,085.00 | 13,085.00 | 881,013.05 | 1,673,833.20 | 83,691.66 | 67.33 | 127.92 | 1.90 |
| VICTORIAS | 29,737.00 | 29,737.00 | 2,022,116.00 | 3,437,597.20 | 171,879.86 | 68.00 | 115.60 | 1.70 |
| LOPEZ | 14,545.91 | 14,545.91 | 892,391.58 | 1,597,380.93 | 79,869.05 | 61.35 | 109.82 | 1.79 |
| SAGAY | 16,528.98 | 16,528.98 | 939,672.51 | 1,475,285.85 | 73,764.29 | 56.85 | 89.25 | 1.57 |
| SAN CARLOS | 7,573.28 | 7,573.28 | 431,676.96 | 742,484.37 | 37,124.22 | 57.00 | 98.04 | 1.72 |
| BISCOM | 30,278.43 | 30,278.43 | 1,796,271.75 | 3,148,480.20 | 157,424.01 | 59.33 | 103.98 | 1.75 |
| SONEDCO/ DACONGCOGON | 26,151.00 | 26,106.88 | 1,431,962.37 | 2,606,171.51 | 130,308.58 | 54.85 | 99.83 | 1.82 |
| TOLONG | 13,068.00 | 13,068.00 | 666,480.69 | 1,185,750.35 | 59,287.52 | 51.00 | 90.74 | 1.78 |
| BAIS-URSUMCO | 26,800.00 | 26,800.00 | 1,432,440.42 | 2,703,750.47 | 135,187.52 | 53.45 | 100.89 | 1.89 |
| ILOILO | 20,440.00 | 20,440.00 | 987,252.00 | 1,628,965.80 | 81,448.29 | 48.30 | 79.70 | 1.65 |
| CAPIZ | 11,885.00 | 11,885.00 | 546,710.00 | 885,670.20 | 44,283.51 | 46.00 | 74.52 | 1.62 |
| BOGO-MEDELLIN | 5,090.00 | 4,961.75 | 153,672.55 | 197,724.14 | 9,886.21 | 30.97 | 39.85 | 1.29 |
| ORMOC-HISUMCO | 6,000.00 | 5,689.00 | 265,576.94 | 464,279.46 | 23,213.97 | 46.68 | 81.61 | 1.75 |
| VISAYAS | 272,106.26 | 271,622.89 | 15,581,054.06 | 27,253,160.60 | 1,362,658.04 | 54.33 | 94.66 | 1.74 |
| For Ethanol | | | | | | | | |
| Mill District | Area Planted (Has) | Area Harvested (Has) | Tons Cane | TC/Ha | Liter Ethanol | Liters/ Ha | Liters/TC | |
| San Carlos | 5,172.41 | 4,290.00 | 244,530.00 | 57.00 | 13,938,210.00 | 57.00 | 57.00 | |

This year, we are all challenge to maximize our effort to provide the best services that we can give to help our frontliners in the field of Agriculture, our sugarcane farmers, as we arise from the previous adversities due to the pandemic, the soaring in prices of agricultural inputs and declining of production brought by natural calamities.

CROP ESTIMATION PROJECT

The Crop Estimation project aims to provide accurate data that shows the status of the productivity of Sugarcane in the Philippines. The SRA YESS or Yield Estimation System for Sugarcane project under the Crop Estimation has been created to support this aim. The YESS has been processing remotely-sensed maps, gathers field data or validation, and many other activities has been conducted that is beneficial to the sugarcane industry.

And the following table represents all activities the Crop Estimate team has accomplished in the year 2022.

1. AREA PROFILING

| MILL DISTRICT | Vacant area/ converted to other crops (ha) | SOCIALIZED CREDIT APPLICANTS ASSISTED |
|----------------|--|---------------------------------------|
| LA CARLOTA | | 82 |
| MAAO | | 126 |
| FFHC-BAC MUR | 100.4600 | 36 |
| HPCO | 6.0000 | 138 |
| LOPEZ | 111.1400 | 44 |
| VICTORIAS | 5.0000 | 39 |
| SAN CARLOS | 1. 50 | 40 |
| SAGAY/DANA0 | | 38 |
| BAIS-URSUMCO | | 90 |
| SONEDCO | 28.0000 | 102 |
| TOLONG | 5.0000 | 20 |
| BISCOM | | 110 |
| ILOILO | 256.0000 | 47 |
| CAPIZ | 664.0000 | 38 |
| BOGO- MEDELLIN | 473.1900 | 21 |
| ORMOC | 10.0000 | 24 |
| TOTAL | 1658.7900 | 995 |

Farms surveyors has surveyed **1,658.7900** hectares of vacant areas and converted to other crops.

2. FARM MECHANIZATION SURVEY

| MILL DISTRICT | NO. OF FARM SURVEYED | NO. OF TRACTORS SURVEYED | NO. OF HAULING TRUCKS SURVEYED | NO. OF IMPLEMENTS SURVEYED |
|---------------|----------------------|--------------------------|--------------------------------|----------------------------|
| LA CARLOTA | 51 | 23 | 127 | 55 |
| MA-AO | 10 | 8 | 16 | 27 |
| BACMUR | | | | |
| HPCO | 44 | 107 | 111 | 159 |
| LOPEZ | 35 | 76 | 125 | 174 |
| VICTORIAS | 1387 | 122 | 42 | 262 |
| SAN CARLOS | 63 | 27 | 52 | 99 |
| SAGAY-DANA0 | 53 | 30 | 70 | 169 |
| BAIS-URSUMCO | 54 | 42 | 96 | 97 |
| SONEDCO | 246 | 43 | 236 | 124 |
| TOLONG | 738 | 55 | 470 | 136 |
| BISCOM | 86 | 236 | 133 | 539 |

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| ILOILO | 35 | 23 | 45 | 42 |
| CAPIZ | 74 | 90 | 55 | 253 |
| BOGO-MEDELLIN | 33 | 110 | 129 | 83 |
| ORMOC | 57 | 123 | 154 | 288 |
| TOTAL | 2961 | 1115 | 1861 | 2529 |

3. AUTOMATIC WEATHER STATION

26 Units were installed to Fifteen (15) Mill Districts of Visayas Region. To date, there are twelve (12) Online Sites, Eight (8) units were pulled-out due to unserviceable data loggers, Five (5) Offline Sites--2 Sites for relocation, and One (1) unlocated AWS unit.

4. FARM SURVEYORS

| | MILL DISTRICT | NAME OF SURVEYOR |
|----|--------------------------------|-----------------------------|
| 1 | Lopez | Abarquez, Mark R. |
| 2 | Tolong | Abordo, Twelve Bert A. |
| 3 | Capiz/Monomer/Antique MD | Balsote, Roderic D. |
| 4 | Ormoc-Hisumco | Ylanan, Marjun G. |
| 5 | Sagay-Danao | Cuizon, Robinson S. Jr. |
| 6 | Victorias | Abian, Giveson L. |
| 7 | San Carlos | Duran, Regie V. |
| 8 | Bogo Medellin MD | Gallarde, Jessha Marie P. |
| 9 | Sonedco/Dacongcogon | Garcia, Stephen John R. |
| 10 | La Carlota | Garcillan, Joemar B. |
| 11 | FFHC/Bac-Mur MD | Lopez, Raffy L. |
| 12 | BAIS URSUMCO | Pasco, Carlo Jay T. |
| 13 | Ma-ao | Pernia, Vince Dominick T. |
| 14 | BISCOM | Rubiato, Crister F. |
| 15 | HPCO | Salgon, Norberto L. Jr. |
| 16 | Iloilo/Santos Lopez/Antique MD | Santillana, Roman L. Jr. |
| 17 | Sonedco/Dacongcogon | Villavicencio, Eddie Q. Jr. |

17 Farm Surveyors were assigned at each district of Visayas as of December 2022. They perform all field activities under the Crop Estimation Project.

COB 2022 Form A

| Programs / Activities / Projects (PAP) | Brief Description | Performance Indicator | Physical Target | Physical Accomplishment |
|---|---|---|-----------------|-------------------------|
| Extension Services Division | | | | |
| A. ADOPT A SMALL SUGARCANE FARMING FAMILY | This is a refocused program to mitigate the impact of COVID-19 pandemic to small sugarcane farming families. Target beneficiaries are 20 small sugarcane farming families in every mill district. One hectare of sugarcane plantation will be funded by SRA at Php85,000. | No. of Famers/Beneficiaries | 224 | 209 |
| IMPLEMENTATION OF SUGAR BOARD DIRECTIVE ON PRIORITY PROJECTS | | | | |
| 1. Development/propagation/distribution of good sugarcane genomics. | Sugarcane productivity improvement through the distribution of good quality and best performing sugarcane varieties in the Visayas mill districts. - this will be implemented as a multi-year project | Hectarage of Established Seed Farms | 100 | 56.21 |
| B. MILL DISTRICT OPERATION, PROJECT MONITORING AND SUPERVISION | Maintenance of office rentals for Extension Visayas Mill District Offices | No. of Mill District Offices | 13 | 13 |
| TECHNOLOGY DEVELOPMENT & TRAINING UNIT | | | | |
| C. OPSI TRAININGS | On-site Sugarcane Farm Management Seminar, Farm Planning and Budgetting, BMO Production Training, Farm Tour for various stakeholders and other related courses. | No. of Trainings/ Seminars conducted | 4 | 93 |
| D. TECHNOLOGY PACKAGING | Packaging of matured technologies and info dissemination to stakeholders | No. of Innovative Materials Distributed | 4000 | 20,582 |

I. ADOPT A SMALL SUGARCANE FARMING FAMILY

Each ASSFF beneficiary with one (1) hectare sugarcane plantation was funded by SRA at Php 85,000.00 and was assisted/provided with technical assistance on how to manage the farm efficiently. This project was initiated to mitigate the impact of COVID-19 pandemic as well as to improve farm productivity and income sustainability to the small sugarcane farming families within the 16 mill districts in the Visayas.

As of December 31, 2022, a total 209 hectares/beneficiaries of the Adopt a Small Sugarcane Farming Family of ESD Visayas Mill Districts were already established to which 83 hectares/beneficiaries were already harvested.

AREA ESTABLISHED (HECTARES/BENEFICIARIES):

| MILL DISTRICT | AS OF DECEMBER 31, 2022 |
|---------------------|-------------------------|
| LA CARLOTA | 14 |
| MAAO | 14 |
| BISCOM | 13 |
| HPCO | 14 |
| FFHC/BAC-MUR | 14 |
| VICTORIAS | 14 |
| LOPEZ | 14 |
| SAGAY DANA O | 14 |
| SAN CARLOS | 12 |
| SONEDCO/DACONGCOGON | 13 |
| TOLONG | 14 |
| BAIS URSUMCO | 13 |
| BOGO MEDELLIN | 13 |
| ORMOC-HISUMCO | 12 |
| ILOILO | 14 |
| CAPIZ | 7 |
| TOTAL | 209 |

AREA HARVESTED (HECTARES/BENEFICIARIES)

| MILL DISTRICT | AS OF DECEMBER 31, 2022 |
|---------------------|-------------------------|
| LA CARLOTA | 6 |
| MAAO | 7 |
| BISCOM | 1 |
| HPCO | 8 |
| FFHC/BAC-MUR | 14 |
| VICTORIAS | 13 |
| LOPEZ | 10 |
| SAGAY DANA O | 3 |
| SAN CARLOS | |
| SONEDCO/DACONGCOGON | 4 |

| | |
|---------------|-----------|
| TOLONG | 9 |
| BAIS URSUMCO | 8 |
| BOGO MEDELLIN | |
| ORMOC-HISUMCO | |
| ILOILO | |
| CAPIZ | |
| TOTAL | 83 |

As of December 31, 2022 total 209 hectares/beneficiaries of the Adopt a Small Sugarcane Farming Family of ESD Visayas Mill Districts were already established. Total of 83 hectares/beneficiaries have already harvested as seen on the next table.

AREA HARVESTED: ADOPT A SMALL SUGARCANE FARMING FAMILY

| SEQ | NAME | ADDRESS | AREA PLANTED (HAS) | DATE PLANTED | VARIETY PLANTED | DATE HARVESTED | BASELINE | | | WITH SRA INTERVENTION | | INCREASED IN PRODUCTION |
|-----------------------------------|--------------------------|---|--------------------|---------------------|-----------------|-------------------|-----------|--------|-------|-----------------------|--------|-------------------------|
| | | | | | | | CROP YEAR | TC/HA | LK/TC | TONS CANE/HA | LKG/TC | |
| HPCO MILL DISTRICT | | | | | | | | | | | | |
| 1 | Rosalinda M. Dela Cruz | Had. Pula, Brgy. Kapitan Ramon, Silay City | 1.0000 | December 05, 2021 | PHIL 83-331 | October 11, 2022 | 2021-2022 | 57.00 | 1.55 | 62.761 | 1.600 | 5.761 |
| 2 | Liza O. Miasis | Had. Pula, Brgy. Kapitan Ramon, Silay City | 1.0000 | November 10, 2021 | PHIL 83-331 | October 24, 2022 | 2021-2022 | 55.00 | 1.56 | 73.221 | 1.778 | 18.221 |
| 3 | Ernesto T. Martisano | Had. Pula, Brgy. Kapitan Ramon, Silay City | 1.0000 | December 09, 2021 | PHIL 83-331 | October 30, 2022 | 2021-2022 | 56.00 | 1.50 | 77.636 | 1.745 | 21.636 |
| 4 | Alexander D. De Asis | Had. Balili, Brgy. Gahit, Silay City | 1.0000 | November 20, 2021 | VMC-84-524 | September 9, 2022 | 2021-2022 | 62.00 | 1.69 | 69.000 | 1.740 | 7.000 |
| 5 | Rosalie G. Tuting | Had. Balili, Brgy. Gahit, Silay City | 1.0000 | October 18, 2021 | VMC-84-524 | September 6, 2022 | 2021-2022 | 59.00 | 1.60 | 62.000 | 1.640 | 3.000 |
| 6 | Loida C. Bangcaya | Had. Pula, Brgy. Kapitan Ramon, Silay City | 1.0000 | December 16, 2021 | VMC 84-947 | October 16, 2022 | 2021-2022 | 52.00 | 1.60 | 54.645 | 1.865 | 2.645 |
| BISCOM MILL DISTRICT | | | | | | | | | | | | |
| 7 | Alfredo A. Saonoy | Sitio Loblob, Magallon Cadre, Moise Padilla | 1.0000 | October 18-22, 2021 | Phil 2006-2289 | October 10, 2022 | 2021-2022 | 42.00 | 1.80 | 61.230 | 1.750 | 19.230 |
| BAIS URSUMCO MILL DISTRICT | | | | | | | | | | | | |
| 8 | Lourdes B. Garsola | Brgy. Cambanjao, Bais City | 1.0000 | May 20, 2021 | VMC 84-524 | February 25, 2022 | 2021-2022 | 42.33 | 1.42 | 61.682 | 1.605 | 19.352 |
| 9 | Daniel E. Epetito | Mabala-as, Pandanon, Mabinay | 1.0000 | March 20, 2022 | VMC 84-524 | November 23, 2022 | 2020-2021 | VACANT | | | | |
| 10 | Edwin B. Amante | Brgy. Cambanjao, Bais City | 1.0000 | May 10, 2021 | VMC 84-524 | March 4, 2022 | 2020-2021 | 43.34 | 1.72 | 61.997 | 2.251 | 18.657 |
| 11 | Virgiel A. Tresquio | Brgy. Cambanjao, Bais City | 1.0000 | May 17, 2021 | VMC 84-524 | February 21, 2022 | 2020-2021 | 41.36 | 1.61 | 57.018 | 1.908 | 15.658 |
| 12 | Ma. Josephina A. Tugdang | Zulueta St., Brgy. Suba, Manjuyod | 1.0000 | May 25, 2021 | Phil 99-1793 | April 20, 2022 | 2020-2021 | VACANT | | 70.824 | 2.080 | |
| 13 | Bernardo M. Bacolod | Sitio Biasong, Brgy. Cambanjao, Bais City | 1.0000 | June 16, 2021 | VMC 84-524 | March 15, 2022 | 2020-2021 | 38.62 | 1.63 | 52.125 | 1.877 | 13.505 |
| 14 | Cresenciano S. Arapoc | Brgy. Cambanjao, Bais City | 1.0000 | May 05, 2022 | VMC 84-524 | February 13, 2022 | 2020-2021 | 44.21 | 1.71 | 59.785 | 2.240 | 15.575 |
| 15 | Sergio D. Fernandez | Proper, Brgy. Cambanjao, Bais City | 1.0000 | May 26, 2021 | VMC 84-524 | March 2, 2022 | 2020-2021 | 45.38 | 1.76 | 63.366 | 2.010 | 17.986 |
| VICTORIAS MILL DISTRICT | | | | | | | | | | | | |
| 16 | Merlinda D. Roces | Had. Hermenia, Brgy. Purisima, Manapla | 1.0000 | April 15, 2021 | Phil 99-1793 | March 2, 2022 | 2020-2021 | 40.00 | 1.85 | 48.000 | 1.920 | 8.000 |
| 17 | Ines Y. Pamposa | Had. Candelaria, Brgy. Purisima, Manapla | 1.0000 | February 20, 2021 | Phil 99-1793 | February 10, 2022 | 2020-2021 | 36.00 | 1.80 | 45.110 | 1.900 | 9.110 |
| 18 | Reynold R. Fernandez | Had. Anecita, Brgy. San Pablo, Manapla | 1.0000 | November 15, 2021 | Phil 99-1793 | October 5, 2022 | 2020-2021 | 40.00 | 1.60 | 63.000 | 1.720 | 23.000 |
| 19 | Danilo C. Genaro | Had. Candelaria, Brgy. | 1.0000 | January | Phil 99-1793 | December | 2020-2021 | 45.00 | 1.70 | 56.000 | 1.560 | 11.000 |

| | | | | | | | | | | | | |
|--|--------------------------|--|--------|---------------------|----------------|--------------------------|--------------|--------|------|-----------------|-------|--------|
| | | Purísima, Manapla | | 24,2021 | | 10,2022 | | | | | | |
| 20 | Alejandro B. Balboa | Had. Inson, Brgy. Andres Bonifacio, Cadiz City | 1.0000 | October 12,2021 | VMC 84-947 | November 8, 2022 | 2020-2021 | 45.00 | 1.65 | 58.000 | 1.700 | 13.000 |
| 21 | Joevel M. Pabuaya | Sitio Lacson, Brgy. Magsaysay, Cadiz City | 1.0000 | June 13,2021 | Phil 83-331 | November 10, 2022 | 2020-2021 | VACANT | | 50.000 | 1.640 | |
| 22 | Edilberto S. Bardoquillo | Purok Demokrasya, Brgy. Jerusalem, Cadiz City | 1.0000 | November 19,2021 | VMC 84-947 | November 25,2022 | 2020-2021 | VACANT | | 62.000 | 1.710 | |
| 23 | Gerry E. Barreto | Had. San Antonio, Brgy. XIV, Manapla | 1.0000 | August 01, 2021 | VMC 84-524 | November 26,2022 | 2020-2021 | VACANT | | 53.000 | 1.670 | |
| 24 | Hadjie C. Padrona | Had. Rita, Brgy. San Pablo, Victorias City | 1.0000 | January 23, 2021 | VMC 84-947 | December 5,2022 | 2020-2021 | 30.00 | 1.70 | 40.000 | 1.800 | 10.000 |
| 25 | Joelinda N. Legarda | Had. San Jose, Victorias City | 1.0000 | November 4,2021 | VMC 84-947 | October 30, 2022 | 2020-2021 | 37.00 | 1.75 | 55.000 | 1.700 | 18.000 |
| 26 | Salve T. Dionesio | Had. Amelita, Brgy. Daga, Cadiz City | 1.0000 | August 16,202 | VMC 84-524 | November 20, 2022 | 2020-2021 | VACANT | | 58.000 | 1.740 | |
| 27 | Florentino D. Cataluna | Brgy. Caduhaan, Cadiz City | 1.0000 | April 14,2021 | Phil 99-1793 | February 2,2022 | 2020-2021 | 45.00 | 1.92 | 55.000 | 1.900 | 10.000 |
| 28 | Bimbo S. Villaruz, Sr. | Sitio Sanga, Brgy. Mabini Cadiz City | 1.0000 | April 22,2021 | VMC 84-947 | February 5,2022 | 2020-2021 | 36.00 | 1.80 | 46.000 | 1.800 | 10.000 |
| MA-AO MILL DISTRICT | | | | | | | | | | | | |
| 29 | Jojen L. Flores | Purok Surgom II, Brgy. Bacong, Bago City | 1.0000 | September 09, 2021 | Phil 2006-2289 | August 29, 2022 | 2020-2021 | 47.00 | 1.72 | 63.210 | 1.770 | 16.210 |
| 30 | Lea M. Dohinog | Igtalinga, Brgy. Bacong, Bago City | 1.0000 | October 18-21, 2021 | Phil 2006-2289 | September 21, 2022 | 2020-2021 | 32.00 | 1.79 | 62.310 | 1.840 | 30.310 |
| 31 | Mario M. Delos Reyes | Kalubihan, Brgy. Ma-ao, Bago City | 1.0000 | November 30, 2021 | VMC 84-524 | October 1-5, 2022 | 2020-2021 | 40.00 | 2.10 | 63.050 | 2.100 | 23.050 |
| 32 | Ma. Leni E. Etorra | Kalubihan, Brgy. Ma-ao, Bago City | 1.0000 | November 30, 2021 | VMC 84-524 | September 6, 2022 | 2020-2021 | 35.00 | 2.00 | 31.21 - partial | 1.740 | |
| 33 | Emilda E. Aculit | Orchids, Brgy. Binubuhan, Bago City | 1.0000 | October 15-16, 2021 | Phil 2006-2289 | October 2-10, 2022 | 2020-2021 | 55.00 | 1.90 | 61.130 | 1.930 | 6.130 |
| 34 | Jen L. Buenaventura | Purok Surgom II, Brgy. Bacong, Bago City | 1.0000 | September 10, 2021 | Phil 2006-2289 | September 26, 2022 | 2020-2021 | 49.00 | 1.75 | 77.880 | 1.847 | 28.880 |
| 35 | Lolita n. Dayo | Orchids, Brgy. Binubuhan, Bago City | 1.0000 | October 04, 2021 | Phil 2006-2289 | September 6, 2022 | 2020-2021 | 51.00 | 1.73 | 35.46 - partial | 1.750 | |
| LA CARLOTA MILL DISTRICT | | | | | | | | | | | | |
| 36 | Hermilo A. Palmares | Sitio Agho, Brgy. Camandag, La Castellana | 1.0000 | October 22, 2021 | Phil 2006-2289 | November 2022 | 2020-2021 | 52.00 | 1.69 | 52.316 | 1.781 | 0.316 |
| 37 | Domingo M. Sit | Sitio Agho, Brgy. Camandag, La Castellana | 1.0000 | October 27, 2021 | Phil 2006-2289 | September 25, 2022 | 2020-2021 | 56.00 | 1.72 | 65.710 | 1.996 | 9.710 |
| 38 | Cristina T. Pelayo | Sitio Agho, Brgy. Camandag, La Castellana | 1.0000 | October 30, 2021 | VMC 84-524 | November 2022 | 2020-2021 | 51.00 | 1.74 | 58.114 | 1.675 | 7.114 |
| 39 | Ma. Socorro P. Japson | Sitio Agho, Brgy. Camandag, La Castellana | 1.0000 | November 25, 2021 | VMC 84-524 | November 2022 | 2020-2021 | 51.00 | 1.77 | 49.660 | 1.722 | |
| 40 | Pedro R. Armonio | Sitio Agho, Brgy. Camandag, La Castellana | 1.0000 | December 14, 2021 | Phil 99-1793 | November 2022 | 2020-2021 | 59.00 | 1.79 | 67.210 | 1.968 | 8.210 |
| 41 | Roberto S. Mission | Sitio Agho, Brgy. Camandag, La Castellana | 1.0000 | November 21,2021 | Phil 2006-2289 | November 2022 | 2020-2021 | 58.00 | 1.81 | 72.310 | 2.132 | 14.310 |
| 42 | Hermie M. Ortegue | Sitio Agho, Brgy. Camandag, La Castellana | 1.0000 | November 24, 2021 | VMC 84-524 | December 2022 | 2020-2021 | 56.00 | 1.77 | | | |
| 43 | Jimmy Mameng | Pontevedra, Negros Occidental | 1.0000 | November 12, 2021 | Phil 2006-2289 | November 2022 | 2020-2021 | 54.00 | 1.79 | | | |
| SONEDCO/DACONGCOGON MILL DISTRICT | | | | | | | | | | | | |
| 44 | Reneboy D. Amacna | Cantanhap, Brgy. Oringao, Kabankalan City | 1.0000 | November 2021 | VMC 88-354 | September 9, 2022 | 2021-2022 | 55 | 1.68 | 77.760 | 1.800 | 22.760 |
| 45 | Ramel G. Abadilla | Brgy. Bantayan, Kabankalan City | 1.0000 | November 2021 | VMC 84-524 | September - October 2022 | 2021-2022 | 58 | 1.81 | 75.820 | 1.728 | 17.820 |
| 46 | Jose G. Titong | Brgy. Da-an Banwa, Kabankalan City | 1.0000 | November 29, 2021 | Phil 2006-2289 | October 2022 | 2021-2022 | 51 | 1.80 | 55.868 | 1.890 | 4.868 |
| 47 | Raconlon R. Semillano | Purok Acacia, Brgy. Tagoc, Kabankalan City | 1.0000 | November 13, 2021 | Phil 99-1793 | September 20-25, 2022 | 2021-2022 | 60 | 1.76 | 83.790 | 1.770 | 23.790 |
| SAGAY DANA0 MILL DISTRICT | | | | | | | | | | | | |
| 48 | Raul Araneta | Sagay City, Negros Occidental | 1.0000 | April 01, 2021 | Phil 99-1793 | January - February 2022 | CY 2020-2021 | 57.00 | 1.50 | 60.230 | 1.510 | 3.230 |
| 49 | Lyne D. Sotes | Daisy, Brgy. Puey, Sagay City | 1.0000 | June 25, 2021 | VMC 88-354 | February 06-17, 2022 | CY 2020-2021 | 46.00 | 1.50 | 58.430 | 1.600 | 12.430 |
| 50 | Santiago A. | Bagong Silang, Brgy. | 1.0000 | July 16, 2021 | VMC 88-354 | June 9-11, | CY 2020- | 46.00 | 1.40 | 57.482 | 1.441 | 11.482 |

| | Corsonada | Bug-ang, Toboso | | | | 2022 | 2021 | | | | | |
|-----------------------------------|-------------------------|--|--------|--------------------|--------------|-------------------|--------------|-------|------|--------|-------|--------|
| LOPEZ MILL DISTRICT | | | | | | | | | | | | |
| 51 | Delia B. Caro | Bagong Buhay, Brgy. Rizal, Sagay City | 1.0000 | December 13, 2021 | PHIL 99-1793 | May 01, 2022 | CY 2020-2021 | 48.00 | 1.50 | 59.800 | 1.580 | 11.800 |
| 52 | Ma. Beberlie P. Mentino | Purok Rosas, Brgy. Malubon, Sagay City | 1.0000 | June 10, 2021 | PHIL 99-1793 | May 15, 2022 | CY 2020-2021 | 45.00 | 1.65 | 62.070 | 1.670 | 17.070 |
| 53 | Virginia P. Orot | Purok Ipil-ipil, Brgy. Malubon, Sagay City | 1.0000 | June 13, 2021 | PHIL 99-1793 | May 01, 2022 | CY 2020-2021 | 44.00 | 1.70 | 56.880 | 1.688 | 12.880 |
| 54 | Ruby M. Martinez | Mabinuligon, Brgy. Lopez Jaena, Sagay City | 1.0000 | May 29, 2021 | PHIL 99-1793 | December 04, 2022 | CY 2020-2021 | 50.00 | 1.53 | 65.800 | 1.680 | 15.800 |
| 55 | Susana G. Escamilla | Had. Cornell 2, Brgy. Cabahug, Cadiz City | 1.0000 | June 13, 2021 | PHIL 99-1793 | June 12, 2022 | CY 2020-2021 | 50.00 | 1.50 | 59.120 | 1.501 | 9.120 |
| 56 | Dolores A. Adrias | Had. Faraon, Brgy. Cabahug, Cadiz City | 1.0000 | June 13, 2021 | PHIL 99-1793 | August 01, 2022 | CY 2020-2021 | 45.00 | 1.25 | 61.530 | 1.900 | 16.530 |
| 57 | Lucia Batan | Mabinuligon, Brgy. Lopez Jaena, Sagay City | 1.0000 | December 29, 2021 | VMC 84-947 | October 14, 2022 | CY 2020-2021 | 45.00 | 1.75 | 68.130 | 1.600 | 23.130 |
| 58 | Evelyn F. Padayogdog | Had. Fe, Esacalante City | 1.0000 | December 08, 2021 | VMC 84-947 | November 17, 2022 | CY 2020-2021 | 50.00 | 1.65 | 59.590 | 1.650 | 9.590 |
| 59 | Leonilo Uychiat | Had. Fe, Esacalante City | 1.0000 | November 20, 2021 | VMC 84-524 | August 18, 2022 | CY 2020-2021 | 53.00 | 1.70 | 71.000 | 1.610 | 18.000 |
| 60 | Juan Jereos | Brgy. Rafael Barrera, Sagay City | 1.0000 | January 14, 2022 | PHIL 99-1793 | August 23, 2022 | CY 2020-2021 | 47.00 | 1.70 | 65.530 | 1.590 | 18.530 |
| TOLONG MILL DISTRICT | | | | | | | | | | | | |
| 61 | Cecilia A. Abuzo | Brgy. Narra, Bayawan City | 1.0000 | August 15, 2021 | Phil 74-64 | March 21, 2022 | 2020-2021 | 40.00 | 1.70 | 45.79 | 1.77 | 5.790 |
| 62 | Antonio A. Cuevo | Brgy. Narra, Bayawan City | 1.0000 | September 24, 2021 | VMC 88-354 | April 20, 2022 | 2020-2021 | 47.00 | 1.80 | 54.29 | 1.78 | 7.290 |
| 63 | Gerlie K. Maglinao | Brgy. Obat, Santa Catalina | 1.0000 | July 18, 2021 | Phil 8013 | February 18, 2022 | 2020-2021 | 35.00 | 1.60 | 40.10 | 1.77 | 5.100 |
| 64 | Remegia A. Saraña | Brgy. Kabulacan, Sta. Catalina | 1.0000 | June 05, 2021 | Phil 99-1793 | February 26, 2022 | 2020-2021 | 40.00 | 1.60 | 46.61 | 1.99 | 6.610 |
| 65 | Epifanio Tayab | Brgy. Narra, Bayawan City | 1.0000 | June 2, 2021 | VMC 88-354 | February 5, 2022 | 2020-2021 | 38.00 | 1.75 | 43.57 | 1.69 | 5.570 |
| 66 | Rodolfo G. Tayab | Brgy. Narra, Bayawan City | 1.0000 | June 9, 2021 | VMC 88-354 | February 17, 2022 | 2020-2021 | 38.00 | 1.80 | 43.52 | 1.91 | 5.520 |
| 67 | Ricardo T. Taub | Brgy. Manihinon, Bayawan City | 1.0000 | June 20, 2021 | VMC 88-354 | February 9, 2022 | 2020-2021 | 40.00 | 1.70 | 42.93 | 1.81 | 2.930 |
| 68 | Danny L. Encabo | Brgy. Kalumboyan, Bayawan City | 1.0000 | January 10, 2022 | Phil 99-1793 | November 5, 2022 | 2020-2021 | 48.00 | 1.85 | 41.54 | 1.95 | -6.464 |
| 69 | Norabeth D. Pacaña | Brgy. Manihinon, Bayawan City | 1.0000 | May 5, 2021 | Phil 99-1793 | February 15, 2022 | 2020-2021 | 45.00 | 1.80 | 52.84 | 1.90 | 7.840 |
| FFHC/BAC-MUR MILL DISTRICT | | | | | | | | | | | | |
| 70 | Luvizinda Pelaez | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | February 15, 2021 | VMC 947 | December 20, 2021 | 2020-2021 | 45.40 | 1.72 | 62.45 | 1.75 | 17.050 |
| 71 | Alan S. Evia | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | January 30, 2021 | VMC 947 | January 04, 2022 | 2020-2021 | 47.30 | 1.75 | 59.50 | 1.79 | 12.200 |
| 72 | Veronica C. Costanilla | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | January 30, 2021 | VMC 947 | January 02, 2022 | 2020-2021 | 38.90 | 1.80 | 61.50 | 1.80 | 22.600 |
| 73 | Sherlita L. Camay | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | January 30, 2021 | VMC 947 | January 04, 2022 | 2020-2021 | 40.90 | 1.78 | 57.60 | 1.81 | 16.700 |
| 74 | Romil S. Collamar | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | March 1, 2021 | PSR 254 | December 10, 2022 | 2020-2021 | 41.97 | 1.65 | 65.29 | 1.70 | 23.320 |
| 75 | Aurelia M. Ibanez | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | March 1, 2021 | VMC 947 | January 06, 2022 | 2020-2021 | 46.70 | 1.50 | 58.75 | 1.73 | 12.050 |
| 76 | Conchita S. Collamar | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | March 1, 2021 | PSR 254 | January 02, 2022 | 2020-2021 | 39.80 | 1.55 | 59.60 | 1.75 | 19.800 |
| 77 | Magdalena C. Manlangit | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | February 15, 2021 | PSR 254 | January 02, 2022 | 2020-2021 | 42.80 | 1.60 | 60.95 | 1.77 | 18.150 |
| 78 | Regina I. Olasca | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | February 15, 2021 | PSR 254 | November 02, 2021 | 2020-2021 | 45.85 | 1.62 | 50.60 | 1.78 | 4.750 |
| 79 | Carmen S. Evia | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | February 15, 2021 | PSR 254 | January 02, 2022 | 2020-2021 | 39.60 | 1.75 | 63.40 | 1.79 | 23.800 |
| 80 | Norma V. Clarin | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | February 15, 2021 | VMC 947 | November 02, 2021 | 2020-2021 | 42.50 | 1.70 | 50.68 | 1.72 | 8.180 |
| 81 | Arlyn B. Gregorio | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | March 1, 2021 | VMC 947 | November 02, 2021 | 2020-2021 | 30.35 | 1.69 | 63.20 | 1.74 | 32.850 |
| 82 | Anabelle S. Costanilla | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | February 15, 2021 | VMC 947 | January 10, 2022 | 2020-2021 | 51.90 | 1.60 | 65.10 | 1.78 | 13.200 |
| 83 | Jose Rojun S. Collamar | Purok Laroca, Brgy. Sta. Rosa, Murcia | 1.0000 | January 30, 2021 | VMC 947 | December 05, 2021 | 2020-2021 | 41.30 | 1.70 | 52.90 | 1.82 | 11.600 |

II. ACCELERATED DEVELOPMENT OF SUGARCANE HYV - SEED FARM PROGRAM

Sugarcane productivity improvement through the distribution of good quality and best performing sugarcane varieties in the Visayas mill districts – this project will be implemented as a multi-year project.

This program provided farm support to project cooperators of the development of sugarcane seed farm in the maximum amount of **Php85, 000.00** per hectare.

To date, a total **56.2100** hectares seed farms planted with SRA high yielding varieties were already established. On-going monitoring and supervision of various farm operations for 15 cooperators was implemented and facilitated by SRA personnel in every mill districts. A total of **1,005.9600** lacsas canepoints produced and distributed to 153 beneficiaries. Expansion area for sugarcane high yielding varieties seed farm program was already **251.2900** hectares.

AREA ESTABLISHED (HECTARES)

| MILL DISTRICT | AS OF DECEMBER 2022 |
|---------------------|---------------------|
| LA CARLOTA | 5.00 |
| MAAO | 5.10 |
| BISCOM | 6.00 |
| HPCO | 1.00 |
| FFHC/BAC-MUR | |
| VICTORIAS | 10.00 |
| LOPEZ | 5.11 |
| SAGAY DANA O | 5.00 |
| SAN CARLOS | |
| SONEDCO/DACONGCOGON | 8.00 |
| TOLONG | 3.00 |
| BAIS URSUMCO | 5.00 |
| ORMOC-HISUMCO | 3.00 |
| ILOILO | |
| CAPIZ | |
| TOTAL | 56.21 |

CANE POINTS BENEFICIARIES (LACSA):

| MILL DISTRICT | LACSA PRODUCED | BENEFICIARIES |
|---------------|----------------|---------------|
| LA CARLOTA | 132.820 | 12 |
| MAAO | 71.500 | 20 |
| BISCOM | 177.000 | 55 |
| HPCO | | |
| FFHC/BAC-MUR | | |
| VICTORIAS | | |

| | | |
|---------------------|-----------------|------------|
| LOPEZ | 139.500 | 16 |
| SAGAY DANA O | 188.640 | 16 |
| SAN CARLOS | | |
| SONEDCO/DACONGCOGON | 124.500 | 13 |
| TOLONG | | |
| BAIS URSUMCO | 172.000 | 21 |
| ORMOC-HISUMCO | | |
| ILOILO | | |
| CAPIZ | | |
| TOTAL | 1005.960 | 153 |

III. CAPABILITY BUILDING OF SUGARCANE FARMERS, WORKERS AND SRA RDE PERSONNEL

This project aims to provide interventions to enhance basic knowledge of sugarcane farmers and become more efficient and competitive agri-entrepreneurs. Train farmers to effectively implement the acquired technologies learned and help increase productivity and income.

Also, through capability building activities and continuous improvement of personnel resource capabilities, efficient response to the current and strategic needs of the sugar industry, development and technology advancements for global competitiveness will be attained.

For 2022, a total of **72** trainings/seminars on Sugarcane Farm Management, Farm Planning and Budgetting, Training on Beneficial Microorganisms (BMO) Production, Training and Demonstration for Tractor Operators, GAD Training and Virtual Stakeholders' Consultation were conducted with active participation from **2,817** sugar industry stakeholders.

| Mill District | NO. | Trainings | Date Conducted | Number of Participants |
|---------------|-----|---|----------------|------------------------|
| MAAO | 1 | Farm Tractor Training for GAA 2018 Block Farms | 11-Feb-22 | 19 |
| TOLONG | 2 | Sugarcane Farm Management Seminar, Sitio Datag, Brgy. Maglinao, Basay, Negros Oriental | 20-Feb-22 | 20 |
| SAN CARLOS | 3 | Simple Bookkeeping Seminar, San Carlos Mill District Office, San Carlos City | 10-Mar-22 | 28 |
| HPCO | 4 | Sugarcane Farm Management Seminar, Had. Dalinson, Alacaygan, E.B Magalona | 17-Mar-22 | 18 |
| HPCO | 5 | Sugarcane Farm Management Seminar, Had. Violeta, Kapitan | 24-Mar-22 | 26 |
| LGAREC | 6 | Orientation & Farm Demonstration of Sugarcane Grabbers and Wholestalk cutter, SRA LGAREC, La Granja, La Carlota City, Negros Occidental | 30-Mar-22 | 100 |
| SONEDCO | 7 | Farm Tractor Training for GAA 2018 Block Farm from Sonedco Mill District | 31-Mar-22 | 30 |

| | | | | |
|---------------|----|--|-------------------|-----|
| LGAREC | 8 | Orientation & Farm Demonstration of Sugarcane Grabbers and Wholestalk cutter, SRA LGAREC, La Granja, La Carlota City, Negros Occidental | 31-Mar-22 | 110 |
| ILOILO | 9 | Orientation & Farm Demonstration of Farm Tractor and Sugarcane Grabbers for AGFA, DFA and ILOILO MDDC | Mar-22 | 22 |
| HPCO | 10 | Sugarcane Farm Management Seminar, Had. San Vicente I, Brgy. Kapitan Ramon, Silay City | May 5, 2022 | 25 |
| HPCO | 11 | Sugarcane Farm Management Seminar, Had. Editha, Brgy. Guimbala-on, Silay City | May 12, 2022 | 25 |
| Bais URSUMCO | 12 | Sugarcane Farm Management Seminar, Bagtic Farmers Association, Pinalubngan, Tayasan, Neg. Oriental | May 24-25, 2022 | 37 |
| HPCO | 13 | Sugarcane Farm Management Seminar, Had. Progreso, Brgy. Kapitan Ramon, Silay City | May 26, 2022 | 25 |
| LOPEZ | 14 | Seminar on Sugarcane Trash Farming at Brgy. Jonob-jonob, Escalante City | July 6, 2022 | 15 |
| LOPEZ | 15 | Seminar on Sugarcane Trash Farming at Brgy. Had Fe, Escalante City | July 8, 2022 | 18 |
| LOPEZ | 16 | Seminar on Sugarcane Trash Farming at Brgy. Lopez Jaena, Sagay City | July 6, 2022 | 18 |
| LOPEZ | 17 | Cultural Management Seminar at Gen Luna, Sagay City | July 15, 2022 | 15 |
| LOPEZ | 18 | Financial Literacy Training at Lopez Jeana, Sagay City | July 20, 2022 | 15 |
| LOPEZ | 19 | Cultural Management Seminar at Brgy. Cervantes, Escalante City | July 25, 2022 | 15 |
| SAGAY DANA O | 20 | Variety Programming/ Propagation of High Yielding Varieties | July 29, 2022 | 20 |
| BISCOM | 21 | OPSI Training at Barangay Montilla Agrarian Reform Organic Farmers Association | October 12, 2022 | 26 |
| BISCOM | 22 | OPSI Training at Brgy. Cabcab, Isabela | October 13, 2022 | 192 |
| ORMOC | 23 | OPSI Training at Canlosong Hugpong Farmers Association | November 17, 2022 | 39 |
| BOGO-MEDELLIN | 24 | OPSI Seminar for CHED Scholars at CTU Tuburan Campus | December 7, 2022 | 45 |
| ORMOC-HISUMCO | 25 | OPSI Seminar for Scholars | November 21, 2022 | 19 |
| ORMOC | 26 | Sugarcane Farm Management Seminar | October 13, 2022 | 18 |
| LGAREC | 27 | Workshop Planning and Assessment for ESD Visayas COS Personnel | Dec 14-15, 2022 | 140 |
| LA CARLOTA | 28 | Training on BMO Application, Sitio Colonia Agrarian Reform Beneficiaries Assn and Had Agho Camandag Agrarian Reform Beneficiaries Association, La Castellana | Feb-22 | 20 |
| SAN CARLOS | 29 | Training on BMO Application from San Carlos Mill District | 30-Mar-22 | 30 |

| | | | | |
|--------------|----|---|--------------------|----|
| SAN CARLOS | 30 | Training on BMO Production, Brgy. Maaslob, Calatrava, Negros Occidental | June 10, 2022 | 32 |
| CAPIZ | 31 | Training on BMO Application | Feb-22 | 20 |
| BACMUR | 32 | Training on BMO Production, Had. Virgen 2, Brgy. E. Lizares, Talisay City, Negros Occidental | May 19, 2022 | 12 |
| BISCOM | 33 | Training on BMO Production, BISCOM Compound, Binalbagan, Negros Occidental | June 2, 2022 | 22 |
| SRA LGAREC | 34 | Training of Trainors on BMO Production at Balay OPSI | July 7, 2022 | 72 |
| LA CARLOTA | 35 | Training on BMO production for Block farm at Brgy. Robles, La Castellana | July 12, 2022 | 40 |
| LA CARLOTA | 36 | Training on BMO production for Block farm at Brgy. RSB, La Carlota City | July 13, 2022 | 43 |
| BISCOM | 37 | Training on BMO production for Block farm, associations, private planters at Had. Nalipay Brgy 5, Isabela | July 14-15, 2022 | 90 |
| BISCOM | 38 | Training on BMO production for farm laborers at Had. España, Brgy. Amin, Isabela | September 21, 2022 | 6 |
| MA-AO | 39 | Training on BMO production for Block farms at Brgy. Ma-ao, Bago City | July 12, 2022 | 36 |
| MA-AO | 40 | Training on BMO production for associations/MDDC | July 13, 2022 | 42 |
| MA-AO | 41 | Training on BMO production at Don Jorge Araneta Agrarian Refrom Beneficiaries Assn | July 22, 2022 | 70 |
| SONEDCO | 42 | Training on BMO production for Block farms at Brgy. Pinggot, Ilog | July 19, 2022 | 60 |
| | 43 | Training on BMO production for Planters associations/SUC/Sugar Mill at Brgy. 1, Kabankalan City | July 20, 2022 | 42 |
| | 44 | Training on BMO production for SONEDCO MDDC/ARB Associations at Brgy. 1, Kabankalan City | July 21, 2022 | 45 |
| BAIS-URSUMCO | 45 | Training on BMO production for Block Farms at Vista Real Mabinay, Negros Oriental | July 19, 2022 | 69 |
| | 46 | Training on BMO production for Block Farms at AABT Compound, Calasga-an, Bais City | July 20, 2022 | 35 |
| TOLONG | 47 | Training on BMO production for Block Farms at Tompuco Function Hall, Brgy. Villareal, Bayawan City | July 21, 2022 | 22 |
| | 48 | Training on BMO production for private planters at Tompuco Function Hall, Brgy. Villareal, Bayawan City | July 22, 2022 | 33 |
| FF/BACMUR | 49 | Training on BMO production for Block Farms at C-PRIME Farmers Hall, Brgy. Salvacion, Murcia | July 18, 2022 | 30 |
| FF/BACMUR | 50 | Training on BMO production for MDDC and other associations. | July 19, 2022 | 42 |
| HPCO | 51 | Training on BMO production for Block Farms at Brgy. Pasil, EB Magalona | July 19, 2022 | 18 |
| | 52 | Training on BMO production for private planters at Brgy. Hawaiian, Silay City | July 20, 2022 | 52 |

| | | | | |
|-----------------|----|---|----------------------|-------------|
| VICTORIAS | 53 | Training on BMO production for Block Farms at Centro San Pablo, Victorias City | July 20, 2022 | 48 |
| | 54 | Training on BMO production for Block Farms at Centro San Pablo, Victorias City | July 21, 2022 | 42 |
| LOPEZ/SAGAY | 55 | Training on BMO production for Block Farms at Brgy. Cabahug, Cadiz City | July 21, 2022 | 39 |
| | 56 | Training on BMO production for private planters/associations at rgy. Cabahug, Cadiz City | July 22, 2022 | 42 |
| SAN CARLOS | 57 | Training on BMO production for Block Farms at San Carlos Mill District Office | July 27, 2022 | 53 |
| | 58 | Training on BMO production for Block Farms at San Carlos Mill District Office | July 28, 2022 | 42 |
| CAPIZ | 59 | Training on BMO production for Block farm, associations, private planters/MDDC/SUC | July 22, 2022 | 15 |
| ILOILO | 60 | Training on BMO production for Block farm, associations, private planters/MDDC/SUC | July 20-21, 2022 | 24 |
| BOGO - MEDELLIN | 61 | Training on BMO production for Block Farms at BMSPAI Function Hall Bomedco Compound, Brgy. Luya-a, Medellin, Cebu | July 26, 2022 | 30 |
| | 62 | Training on BMO production for Block farm, associations, private planters/MDDC at BMSPAI Function Hall Bomedco Compound, Brgy. Luya-a, Medellin, Cebu | July 27, 2022 | 31 |
| ORMOC-HISUMCO | 63 | Training on BMO production for Block Farms at Brgy. San Pablo, Ormoc City | July 20, 2022 | 28 |
| | 64 | Training on BMO production for Block farm, associations, private planters/MDDC at Brgy. San Pablo, Ormoc City | July 21, 2022 | 33 |
| MA-AO | 65 | Training on BMO Production at Humayan Small Planters Association | October 4, 2022 | 31 |
| MA-AO | 66 | Training on BMO Production at Mailum Planters Association | October 6, 2022 | 16 |
| MA-AO | 67 | Training on BMO Production at Nakalang Farm Workers Associatio | October 25, 2022 | 42 |
| BISCOM | 68 | Training on BMO Production and OPSI Training at CPSU-Moises Padilla Campus | November 3-4, 2022 | 55 |
| BISCOM | 69 | Training on BMO Production and OPSI Training at CPSU-Moises Padilla Campus | November 10-11, 2022 | 55 |
| LA CARLOTA | 70 | Training on BMO Production and OPSI Training for La Castellana Small Planters | November 17-18, 2022 | 60 |
| BISCOM | 71 | Training on BMO Production and OPSI Training at Canlosong Hugpong Farmers Association | November 21, 2022 | 34 |
| BISCOM | 72 | Training on BMO Production and OPSI Training at Canlosong Hugpong Farmers Association | November 21, 2022 | 34 |
| TOTAL | | | | 2817 |

IV. TECHNOLOGY PACKAGING

The Technical Development and Training Unit under the Extension Services was tasked to plan, implement and coordinate all trainings and packaging of matured technologies of RDE Visayas for reproduction and dissemination to the stakeholders. Through this information dissemination campaign, updates on the latest technologies developed by SRA through the Research Development and Extension (RDE) will be more recognizable by our sugar industry stakeholders.

For this year, a total of **20,582** informative, educational and communication (IEC) materials was reproduced at SRA – LGAREC and distributed which included the following: Talamdan sa Pagpanguma sang Tubo (Hiligaynon translated), Cost of Production Survey & Customers Feedback, Soil Sampling Brochures, BMO Production Brochures, OPSI KOMIKS (Hiligaynon and Cebuano translated), Scholarship Forms, Socialized Credit Application forms, Mga Aprobado nga Pama-agi sa Pagtanum sang Tubo, Brochures of Sugarcane Pest and Diseases, Micropropagation Pamphlets, and SRA High Yielding Varieties Pamphlets.

V. BENEFICIAL MICROORGANISMS (BMO) PRODUCTION

The soaring price of fertilizer is a continuous threat to our sugarcane growers because high production comes with responsibility for fertilizing the crops. With this existing issue, the Sugar Regulatory Administration (SRA) is finding ways to come up with an alternative solution that would benefit our sugarcane farmers while considering the environmental approach. The Sugar Regulatory Administration (SRA) conducts studies on beneficial microorganisms (BMO), a technology that was validated through several efficacy trials conducted solely on sugarcane. Acetobacter, Azotobacter, and Azospirillum are nitrogen-fixing bacteria found in sugarcane and extracted to create BMO. This helps accelerate the decomposition of organic wastes and residues while suppressing the growth of soil-borne pathogens. These also improve the soil's physical, chemical, and biological environments and promote plant germination, photosynthetic capacity, fruition, and ripening.

To bring the technology to farmers, the SRA Extension Services Division-Visayas conducted the Training of Trainers on BMO Production on July 7, 2022, at Balay OPSI, La Granja, La Carlota City. The training was conducted by the SRA Agricultural Research Services Division and attended by a total of 72 SRA Extension Services Division-Visayas personnel. As a result of the trainers training on BMO production, the SRA Extension Services Division-Visayas set in motion the intervention. As of December 2022, **1,703** participants have attended the **44** BMO Production trainings conducted at different block farms and mill districts by SRA Extension Services Division-Visayas.

On top of that, La Carlota MDDC also initiated their project on mass production of BMO through the collaboration with SRA Extension Services Division – Visayas, AALCPI and the sugar mill – URC SURE. This project aim to establish pilot farms for BMO demonstration and application as a strategy to fastrack the adoption as well as to provide production data from a commercial size that will serve as a additional reference in introducing the BMO technology. To date, La Carlota MDDC produced an average of 600 to 800 liters a week to provide for the weekly target area for application. This project has a target of 330 hectares for application which includes small farms, big farms low land and upland area.

SIDA FUNDED PROJECTS

VI. BLOCK FARMING PROGRAM

The Block Farming Program, now in its seventh year of implementation, is still on track to achieve its original goal of converting consolidated farms owned by small farmers Agrarian Reform beneficiaries into agribusiness centers through professionalized farm management and mechanized farming, as well as logistical, financial, technical, and production support services.

From GAA 2016 to GAA 2022, the block farming program benefited 13,570 household beneficiaries with an expenditure incurred of Php 704,818,200.

SUMMARY OF SIDA FUNDED BLOCK FARMS – VISAYAS

| | GAA 2016 | GAA 2017 | GAA 2018 | GAA 2019 | GAA 2022 | TOTAL |
|--------------------------------------|-----------------|-----------------|----------------|-----------------|---------------|-----------------|
| No. of Block Farms Accredited | 37 | 35 | 25 | 30 | 20 | 147 |
| No. of Block Farms Validated | 37 | 35 | 25 | 30 | 20 | 147 |
| No. of Beneficiaries | 939 | 989 | 639 | 728 | 836 | 4,131 |
| Area Involved (has) | 1,250.78 | 1,145.31 | 822.758 | 1,016.81 | 699.74 | 4,935.40 |
| No. of Household | 3,254 | 3,225 | 2,260 | 2,488 | 2,343 | 13,570 |

Cumulative Accomplishment

Block Farm Program is being implemented by the SRA Extension Services Division of the Research, Development, and Extension Department of Visayas. The cumulative physical accomplishment of the program from 2016 to 2022, as of December 30, 2022 are the following:

| GAA | START-UP CAPITAL ALLOCATED | START-UP CAPITAL UTILIZATION as of December 2022 | % UTILIZATION |
|------|-------------------------------|---|---------------|
| 2016 | 46,238,910.00 | 45,661,969.43 | 98.75 % |
| 2017 | 51,922,500.00 | 48,541,068.49 | 93.49 % |
| 2018 | 37,500,000.00 | 35,123,788.88 | 93.66 % |
| 2019 | 49,500,000.00 | 46,020,147.41 | 92.97 % |
| 2022 | 28,135,971.42 | 7,428,032.79 | 26.40 % |

| | | | |
|--------------|-----------------------|-----------------------|----------------|
| TOTAL | 213,297,381.42 | 182,775,007.00 | 81.05 % |
|--------------|-----------------------|-----------------------|----------------|

| GAA | HYV NUSERY BUDGET ALLOCATED | BUDGET UTILIZATION as of December 2022 | % UTILIZATION |
|--------------|------------------------------------|---|----------------------|
| 2016 | 2,789,400.00 | 2,589,020.18 | 92.82 |
| 2017 | 5,030,200.00 | 4,296,760.00 | 85.42 |
| 2018 | 3,459,575.00 | 3,199,348.25 | 92.48 |
| 2019 | 3,905,760.00 | 3,592,664.00 | 91.98 |
| 2022 | 3,400,000.00 | 986,200.00 | 29.01 |
| TOTAL | 18,584,935.00 | 14,663,992.43 | 78.90 |

| GAA | TECHNO DEMO BUDGET ALLOCATED | BUDGET UTILIZATION as of December 2022 | % UTILIZATION |
|-------------|-------------------------------------|---|----------------------|
| 2016 | 2,858,250.00 | 2,044,156.43 | 71.52% |

| Block Farm Interventions | Indicator | Extension Services Division Visayas (Implementing Unit) |
|---|--|--|
| | | Quantitative Accomplishment |
| 1. Organization of Block Farms | No. of Block Farms Accredited | 147 |
| | No. of Enrollees | 4,131 |
| | Area Covered (in Hectares) | 4,935.40 |
| 2. Capacity-building of Block Farms | No. of trainings or seminars conducted | 443 |
| | No. of participants or attendees | 11,072 |
| 3. Provision of Start-up Capital to Block Farms | Amount of start-up capital provided to Block Farms for purchase of farm inputs, establishment of HYV nursery and techno-demo farms (in Philippine Pesos) | 198,496,955.86 |

| | | |
|--|---|--------|
| 4. Provision of Farm Mechanization to Block Farms | No. of Tractors delivered | 82 |
| | No. of Tractor with Sugarcane Wholestalk Cutter delivered | 35 |
| | No. of Farm Implements delivered | 223 |
| | No. of STWs Irrigation Sets delivered | 123 |
| | No. of Sugarcane Grabber/Loader delivered | 44 |
| | No. of Sugarcane Cutter/ Harvester delivered | 35 |
| | No. of Hauling Trucks delivered | - |
| | No. of Power Knapsack Sprayer delivered | - |
| | No. of Hand-operated Knapsack Sprayer delivered | 127 |
| 5. Provision of Soil Rehabilitation to Block Farms | No. of Bags of Soil Lime distributed | 71,210 |
| | No. of Bags of Organic Fertilizers distributed | - |
| 6. Provision of Livelihood to Block Farms | No. of Food Houses established | 90 |

**based on fund utilized reported by Extension Services - Visayas*

a. SIDA Block Farming Program – Establishment of Food House

LIVELIHOOD PROGRAM TO SUGARCANE BLOCK FARMS

Livelihood Program focused on community and enterprise development of smallholder farmers engaged in sugarcane block farming while promoting sustainable agricultural practices through the establishment of a food house during the covid-19 pandemic.

This is an incredible opportunity to have a greater impact on the Block Farm beneficiaries' transformation into Agri-entrepreneurs.

Food House Farming Enterprise is being streamlined to aid in the promotion of adaptive technologies to secure food for the family, mitigate the effects of changing climate on food security, and develop a diversified agriculture-based livelihood.

Each block farm from GAA 2017, GAA 2018, and GAA 2019 received a **Php 50,000.00** grant for the establishment of a food house, as well as the following supplies and materials:

- 25m UV Plastic
- 8 kls Assorted Nails
- 5 kls Tire Wires
- 4 pcs Feeding Through
- 4 pcs Waterer
- 10 bags Bio organic Fertilizer
- 15 pcs Seedling Tray 104 Holes
- 30 pcs Seedling Tray 35 Holes
- 6 bundles Polypropylene Seedling Bag
- 2 pcs Spade
- 2 pcs Garden Hoe
- 2 pcs Garden Rake
- 1 roll Garden Hose – 100m
- 2 pcs 5L Plastic Watering Can
- 1 unit 16 L Knapsack Sprayer
- 5 kilos Foliar Fertilizer
- Vegetable Seeds (31 packs ASSORTED)

| GAA | No. of Block Farms Beneficiaries | Delivered as of 31 December 2022 | Remarks |
|--------------|---|---|---------------------------------------|
| GAA 2017 | 35 | 35 | Accomplished Delivered as of May 2022 |
| GAA 2018 | 25 | 25 | Accomplished Delivered as of May 2022 |
| GAA 2019 | 30 | 30 | Accomplished Delivered as of May 2022 |
| TOTAL | 90 | 90 | |

A total of 88 **food houses** were delivered for different mill districts under **Extension Services Division – Visayas**. For food houses established and monitored last year was mostly affected by Typhoon Odette which landfall last December 2021. For the 4th quarter of this year, food houses were re-established, on-going harvesting, others are still looking for new sites due to water logging and income increase has been reported for this quarter (4th quarter) recorded a **Php 22,060.00** total proceeds as of December 2022. Continuous monitoring and technical assistance for the block farm beneficiaries of the SRA SIDA block farms are being observed.

b. SIDA FUNDED FARM MECHANIZATION SUPPORT

Farm mechanization is one of the changes in technology that the industry needs to do in order to enhance sugarcane production and generate more revenue of sugarcane farmers/planters and achieve self-sufficiency. For optimal planting, cultivation, care & maintenance, harvesting, and handling of sugarcane, the Sugarcane Farm Mechanization Program should be encouraged. Farmers can experience reduced operating expenses, minimal postharvest losses, higher-quality goods, and enhanced profitability as a result of these innovative agricultural technologies.

The Sugar Regulatory Administration, through the Extension Services Division Visayas, distributed Farm Machineries and Equipment to beneficiaries of the SIDA Block Farming Program and various mills district recipients in order to promote economic growth and adoption of

modern, appropriate, cost-effective, and environmentally-safe agricultural machineries and equipment, as well as to strengthen the support services provided for our farmers' stakeholders.

Status of Farm Mechanization Support for SIDA Block Farms of GAA 2016, GAA 2017, GAA 2018 & GAA 2019 as of December 2022

| GAA | EQUIPMENT | NO. OF UNITS | APPROVED BUDGET | NO. OF UNITS DELIVERED | DATE DELIVERED | ACCOMPLISHMENT (%) |
|-------------------|--|--------------|-----------------------|------------------------|------------------------------|--------------------|
| SIDA 2016 | Moldboard plough | 37 | 37,000,000.00 | 37 | September | 100% |
| | Furrower | 37 | | 37 | 2020 - October | 100% |
| | Hydraulic Harrow | 37 | | 37 | 2020 | 100% |
| | Fertilizer Applicator | 37 | 8,140,000.00 | 37 | August 2020 - September 2020 | 100% |
| | Irrigation Facilities / Equipments (11 hp pump and engine set with complete accessories) | 37 | 3,700,000.00 | 37 | Aug-19 | 100% |
| | Farm Tractors 90 HP (Massey Ferguson 290T) | 37 | 74,000,000.00 | 37 | Jun-21 | 100% |
| Sub-Total: | | 222 | 122,840,000.00 | 222 | | 100% |
| SIDA 2017 | Irrigation Facilities / Equipment (14 hp pump and engine set with complete accessories) | 31 | 3,100,000.00 | 31 | Aug-19 | 100% |
| | Sugarcane Grabber | 14 | 35,000,000.00 | 14 | Dec-20 | 100% |
| | Brand new tractor with compatible sugarcane whole stalk cutter | 35 | 52,500,000.00 | 35 | Nov 2021 | 100% |
| Sub-Total: | | 90 | 90,600,000.00 | 90 | | 100% |
| | | | | | | |

| GAA | EQUIPMENT | NO. OF UNITS | APPROVED BUDGET | NO. OF UNITS DELIVERED | DATE DELIVERED | ACCOMPLISHMENT (%) |
|-----|-----------|--------------|-----------------|------------------------|----------------|--------------------|
|-----|-----------|--------------|-----------------|------------------------|----------------|--------------------|

| | | | | | | |
|---------------------|---|------------|-----------------------|------------|------------------------------------|-------------|
| SIDA 2018 | Moldboard plough | 25 | 25,000,000.00 | 25 | May-21 | 100% |
| | Furrower | 25 | | 25 | | |
| | Hydraulic Harrow | 25 | | 25 | | |
| | Irrigation Facilities / Equipments (12 hp pump and engine set with complete accessories) | 25 | 3,750,000.00 | 25 | Jan-20 | 100% |
| | Farm Tractors 90HP (Filholland) | 25 | 50,000,000.00 | 25 | December 2021 | 100% |
| Sub-Total: | | 125 | 78,750,000.00 | 125 | | 100% |
| SIDA 2019 | Irrigation Facilities / Equipments (12 hp pump and engine set with complete accessories) | 30 | 4,500,000.00 | 30 | Mar-20 | 100% |
| | Sugarcane Grabber / Loaders | 30 | 75,000,000.00 | 30 | May 2021 – July 2021 | 100% |
| Sub-Total: | | 60 | 79,500,000.00 | 60 | | |
| SIDA 2022 | Farm Tractors 90HP (Filholland) | 20 | 40,000.00 | 20 | November 2022 | 100% |
| Grand Total: | | 517 | 411,690,000.00 | 517 | August 2019 – November 2022 | 100% |

Last October of this year, 2022, six (6) units of 90 HP farm tractors were distributed to cluster block farms of GAA 2017, while two (2) 36 HP whole stalk cutters were distributed to GAA 2017 block farms. This November, another twenty (20) units of the 90 HP farmtractors were delivered to 20 block farms of GAA 2022.

b.1 Farm Mechanization Income and Operation

Sugarcane Grabber Income and Operation

| GAA | MILL DISTRICT | BLOCK FARM | GROSS INCOME (Php) | AREA SERVED (Ha.) | TONNAGE |
|-------------|----------------------|---|---------------------------|--------------------------|----------------|
| 2017 | SONEDCO | Tagoc Agrarian Reform Cooperative | 79,000.00 | | 30.00 |
| | Victorias | PFPC Agrarian Reform Cooperative | 213,630.84 | | 1,780.26 |
| | FF/ Bac-Mur | Sta. Rosa Small Farmers Association | 56,760.00 | | 473.00 |
| | FF/ Bac-Mur | Malasaga Hiyang-hiyang Irrigators Association | 56,760.00 | | 473.00 |
| | SONEDCO/ Dacongogon | Brgy. Tabu Agrarian Reform Beneficiaries Association | 53,750.00 | 12.00 | |
| | BISCOM | Had. Bagacay Workers Carper Beneficiaries Association | 216,000.00 | | 400.00 |

| | | | | | |
|--------------------|--------------------|---|---------------------|---------------|-----------------|
| | Sagay-Danao | Pasto Agrarian Reform Cooperative | 325,000.00 | | |
| | San Carlos | Malanog Menchaca Dolis Farmers Association, | 50,000.00 | | |
| TOTAL | | | 1,050,900.84 | 12.00 | 3,156.26 |
| 2019 | MA-AO | Fermina Small Water Irrigation System Association | 35,130.00 | | 189.85 |
| | Victorias | Sta. Barbara Farmers Association | 474,400.80 | 42.74 | 3,941.12 |
| | Victorias | Had. Alberto Farmers Association | 294,957.00 | | 1,966.38 |
| | SONEDCO-Dacongogon | Balicotoc Agrarian Reform Beneficiaries Association | 41,000.00 | 43.00 | |
| | FF-BAC MUR | Entorilan ARB Association Inc. | 120,000.00 | | |
| | Bogo-Medellin | Had. Filomena Agrarian Reform Beneficiaries Association | 7,400.00 | | |
| | BISCOM | Duran Small Farmers Association | 60,000.00 | | |
| | Bais URSUMCO | Lower Owayon Agrarian Reform Beneficiaries Association | 12,800.00 | 7.00 | 500.00 |
| | BOGO-MEDELLIN | Panugnawan Agrarian Reform Beneficiaries Association | 2,000.00 | | |
| | CAPIZ | Bingawan Sugarcane Planters Farmers Association | 7,995.00 | | |
| | SONEDCO-Dacongogon | Bakyas Farmers Farmworkers Association | 23,500.00 | | |
| | San Carlos | San Joaquin Farmers Association | 8,400.00 | | |
| | San Carlos | Lagaan Farmers Association | 100,000.00 | | |
| | San Carlos | Bagawines, Ulay, Cabulihan Farmers Workers Association | 2,400.00 | | |
| | ORMOC | Kadaohan Block Farming Association | 625.00 | 0.25 | |
| TOTAL | | | 1,190,607.80 | 92.99 | 6,597.35 |
| GRAND TOTAL | | | 2,241,508.64 | 104.99 | 9,753.61 |

From January to December 2022, the sugarcane grabber recorded an income of **Php 6,315,042.28** with tonnage of **24,673.98** from SIDA GAA 2017 and 2019 Block Farms as monitored and reported monthly.

Farm Tractor Income and Operation

| GAA | MILL DISTRICT | BLOCK FARM | GROSS INCOME (Php) | AREA SERVED (Ha.) |
|--------------|--------------------------------------|--|-----------------------|-------------------------|
| 2016 | LOPEZ | LGEI Farmers Association Incorporated | 41,400.00 | 4.60 |
| | SONEDCO | Mataba Womens Association | 20,400.00 | 1.36 |
| | ORMOC | Catmon Small Farmers Association | 7,675.60 | 1.92 |
| | LA CARLOTA | Dama Farm Workers Agrarian Reform Beneficiaries Ass'n | 58,660.00 | 4.19 |
| | ILOILO | Aglalana Green Farmers Association | 24,000.00 | 3.00 |
| | SAN CARLOS | Agpangi Bagacay Cabungahan Agrarian Reform Cooperative | 36,000.00 | 9.00 |
| | SONEDCO | Magballo Agrarian Reform Beneficiaries and Farmers Association | 44,500.00 | 3.10 |
| | SONEDCO | Pinggot Farmers Association | 78,480.00 | 8.37 |
| | VICTORIAS | Had. Candelaria Farmers Association | 65,250.00 | 4.50 |
| | MA-AO | Nakalang Padilla Farm Workers Association | 32,900.00 | 2.35 |
| | SONEDCO | Bantayan Farmers Agrarian Reform Beneficiaries Association | 107,710.00 | 9.47 |
| | SONEDCO | Casoy Lubi Apitong Agrarian Reform Beneficiaries Association | 214,760.00 | 19.87 |
| | FF/BAC-MUR | Had. Esmeralda 2 Rice Farmers Association | 46,500.00 | 3.10 |
| | SAGAY-DANA0 | Minapasuk Upland Farmers Agri-ventures Marketing Cooperative | 112,215.00 | 13.42 |
| | LOPEZ | Talusan Agrarian Reform Beneficiaries Association Inc. | 39,510.00 | 9.30 |
| | Bogo-Medellin | Caputatan Norte Sugarcane Farmers Association | 35,000.00 | 2.50 |
| | Bais-URSUMCO | New Namangka Farmers Association | 60,905.00 | 10.91 |
| | Bais-URSUMCO | Bulod Aktibong Bukidnon Livelihood Organization | 36,138.24 | 5.44 |
| San Carlos | Bagonbon Agrarian Reform Cooperative | 40,000.00 | 4.10 | |
| TOTAL | | | 1,102,003.84 | 120.50 |
| 2017 | BISCOM | Had. Bagacay Workers Carper Beneficiaries Association | 22,900.00 | 11.45 |
| | Victorias | Gracia Farmers Association | 8,000.00 | 2.00 |
| | SONEDCO/ Dacongogon | Brgy. Tabu Agrarian Reform Beneficiaries Association | 69,850.00 | 10.50 |
| | SONEDCO/ Dacongogon | Ga-id Mambugsay ISF Project Minority Association | 10,810.00 | 1.00 |
| | San Carlos | Malanog Rice Farmers Association | 27,728.80 | 2.84 |
| TOTAL | | | 139,288.80 | 27.79 |
| 2018 | Ormoc | Quezon Jr. United Farmers Association | 15,326.30 | 4.16 |
| | Ormoc | Sumangga Sugarcane Farmers Association | 2,788.00 | 0.70 |
| | BAIS-URSUMCO | Sab-ahan Tribu Bukidnon Association | 15,912.00 | |
| | BAIS | Brgy. Inapoy Farm Family Association | 3,669.60 | 0.92 |
| | VICTORIAS | Had. Ogie Sugar Farm Workers Multi-purpose | 32,700.00 | 2.18 |

| | | | |
|---------------------------|--|-----------------------------|---------------|
| | Cooperative | | |
| SONEDCO/ Dacongogon | Brgy. Alim Farmers Poultry and Livestock Raisers | 5,600.00 | 0.70 |
| Victorias | Minuro Agrarian Reform Beneficiaries Cooperative | 96,300.00 | 6.42 |
| SONEDCO | Farmers Association of Tabionan | 120,245.05 | 10.95 |
| SONEDCO/ Dacongogon | Tan-Awan Farmers for Sustainable Agriculture Association | 84,495.00 | 7.42 |
| First Farmers/ Bac-Mur | Hda. Sto. Niño Farmers Association | 120,000.00 | 5.20 |
| SAN CARLOS | Agpangi Bagacay Cabungahan Agrarian Reform Cooperative | 18,000.00 | 4.50 |
| Ma-ao | Nakalang Padilla Farm Workers Association | 9,750.00 | 0.65 |
| Ma-ao | Sitio Mambahao Farmworkers Association | 27,000.00 | 2.00 |
| BAIS | Brgy. Tara Farm Family Association | 6,135.60 | 9.76 |
| SAGAY-DANA O | First District Upper Ministerial Association for Spiritual and Economic Endeavor | 76,300.00 | 13.20 |
| First Farmers/ Bac-Mur | Balogo Farmers Association | 33,900.00 | 3.26 |
| HPCo | Hda. Paho Farmers Association | 47,458.98 | 5.26 |
| HPCo | Had. Angeles Agrarian Reform Beneficiaries Association | 17,755.00 | 1.59 |
| San Carlos | Paghumayan Small Farmers Association | 84,166.40 | 5.26 |
| ILOILO | Agtabo Farmers Association | 54,000.90 | 5.60 |
| CAPIZ | Progressive Women Agrarian Reform Cooperative | 33,750.00 | 6.64 |
| San Carlos | Natural Park Farmers Association | 32,000.00 | 2.00 |
| TOTAL | | 937,252.83 | 98.36 |
| 2019 | BAIS | Maasin Planters Association | 9,910.40 |
| TOTAL | | 9,910.40 | 2.48 |
| GRAND TOTAL | | 2,188,455.87 | 249.12 |

For 4th Quarter, the **90HP Farm Tractors of SIDA GAA 2016 & 2018 Block farms** reported an income of **Php 2,188,455.87** with an area served of **249.12** hectares and as of December 2022 recorded an income of **Php 8,033,729.56** with an area served of **658.1761** hectares, these block farms were monitored and reported to ESD Visayas monthly.

Report on **Pump Irrigation as of December 2022** reported an income of **P19, 264.50** with an area served of **17.54 hectares** while the **35HP Farm Tractor for SIDA GAA 2017 Block Farms** (with sickle sword cutter) reported an income for tractor alone of **P107, 880.00** with total area served of **15.14 ha** as of December 2022.

c. Establishment of Nurseries or Distribution of High Yielding Varieties (HYVs)

| GAA | BLOCK FARM | LOCATION | Variety Planted | Date of Cutback | No. of Lacs Produced | Area | Expansion Area |
|------|---|--|-----------------|--------------------|----------------------|--------|----------------|
| 2016 | Mangulod Farmers Multi Purpose Cooperative | Mangulod, Sta. Catalina, Negros Oriental | Phil 99-1793 | Jan 2022 | 10.00 | 0.4000 | 2.0000 |
| | Agpangi, Bagacay, Cabungahan Agrarian Reform Cooperative | Brgy. Agpangi, Calatrava, Negros Occidental | Phil 2006-2289 | Jan 2022 | 10.00 | 0.4300 | 2.0000 |
| | Polo Plantation Agrarian Reform Beneficiaries Cooperative | Brgy. Polo, Tanjay City, Negros Oriental | Phil 99-1793 | March 2022 | 10.00 | 1.3028 | 2.0000 |
| | Catmon Small Farmers Association | Purok 2, Brgy. Catmon, Ormoc City, Leyte | Phil 99-1793 | April 2022 | 13.50 | 2.0000 | 3.1250 |
| | Talusan Agrarian Reform Beneficiaries Association Inc. | Purok Kulo, Brgy. Bulanon, Sagay City Neg. Occ. | Phil99-1793 | May 25, 2022 | 16.30 | 1.0000 | 4.0750 |
| | Mangulod Farmers Multi-Purpose Cooperative | Sitio Mangulod, Brgy. San Jose, Sta. Catalina, Negros Oriental | Phil 99-1793 | July 2022 | 2.00 | 1.0000 | 0.5000 |
| | NAKALANG PADILLA FARM WORKERS ASSOCIATION | Prk. Malunggay, Brgy. Ilijan, Bago City, Negros Occidental | Phil 99-1793 | September 10, 2022 | 8.50 | 1.7000 | 1.7000 |
| | Talusan Agrarian Reform Beneficiaries Association Inc. | Purok Kulo, Brgy. Bulanon, Sagay City Neg. Occ. | Phil99-1793 | Dec 2022 | 8.00 | 1.0000 | 2.0000 |
| | Leonor Gonzaga Estate Inc. Farmers Association (LGEIFA) | Brgy. Malubon, Sagay City, Negros Occidental | Phil99-1793 | Dec 2022 | 8.00 | 1.0000 | 2.0000 |
| 2017 | Pasto Agrarian Reform Cooperative | Brgy. Magticol, Toboso, Negros Occidental | Phil 99-1793 | Jan 2022 | 5.19 | 1.0380 | 1.0000 |
| | Malanog Menchaca Dolis Farmers Association | Brgy. Dolis, Calatrava, Negros Occidental | Phil 99-1793 | Jan 2022 | 23.00 | 1.0000 | 4.6000 |
| | Bagtic Mampalasan United Farmers Association | Brgy. Bagtic, Mabinay, Negros Occidental | Phil 99-1793 | Jan 2022 | 42.00 | 2.2500 | 5.0000 |
| | Uswag Mag-uuma sa Samac | Brgy. Samac, Mabinay, Negros Oriental | Phil 99-1793 | March 2022 | 14.80 | 1.0000 | 2.0000 |

| | | | | | | | |
|-------------|--|--|------------------------------|----------------|-------|--------|---------|
| | Dolores Sugarcane Farmers Association | Brgy. Dolores, Ormoc City, Leyte | Phil 2006-2289 | March 2022 | 12.00 | 2.0000 | 3.1000 |
| | Had. Bagacay Workers Carper Beneficiaries Association | Brgy. Aranda, Hinigaran, Negros Occidental | Phil 99-1793 | March 2022 | 15.00 | 2.0000 | 3.0000 |
| | Prosperidad Agrarian Reform Beneficiaries Association | Brgy. Prosperidad, San Carlos City, Negros Occidental | Phil 2006-2289 | May 2022 | 51.00 | 1.4483 | 14.7500 |
| | Tagoc Agrarian Reform Cooperative | Brgy. Tagoc, Kabankalan City, Negros Occidental | Phil 99-1793 | Apr-22 | 56.30 | 9.1500 | 14.0750 |
| | Brgy. Tabu Agrarian Reform Beneficiaries Association | Brgy. Tabu, Ilog, Negros Occidental | Phil 99-1793 | Apr-22 | 10.00 | 1.0000 | 2.5000 |
| | Prosperidad Agrarian Reform Beneficiaries Association | Brgy. Prosperidad, San Carlos City, Negros Occidental | Phil 99-1973 | 18-May-22 | 27.20 | 1.0000 | 6.8000 |
| | TAGOC AGRARIAN REFORM COOPERATIVE | Brgy. Tagoc, Kabankalan City, Negros Occidental | Phil 99-1793 | July 2022 | 8.80 | 5.0000 | 2.1000 |
| | Binubuhan Progressive Farmers and Farmworkers Association | Brgy. Binubuhan, Bago City, Negros Occidental | Phil 99-1793 | July-Sept 2022 | 9.50 | 1.1000 | 3.0500 |
| | Asosasyon sang Mamumugon sang Nolan | Brgy. Mansalanao, La Castellana, Negros Occidental | Phil 99-1793, Phil 2006-2289 | Dec-22 | 9.30 | 2.0000 | 2.3250 |
| | Had. Bagacay Workers Carper Beneficiaries Association | Brgy. Aranda, Hinigaran, Negros Occidental | Phil 99-1793 | Dec-22 | 8.00 | 2.0000 | 2.0000 |
| 2018 | Agtabo Farmers Association | Brgy. Agtabo, Passi City, Iloilo | Phil 99-1793 | | | 0.6502 | |
| | First District Upper Ministerial Association for Spiritual and Economic Endeavor | Brgy. Marcelo, Calatrava, Negros Occidental | Phil 99-1793 | Jan 2022 | 5.00 | 1.0000 | 1.0000 |
| | Common Small Farmers Agrarian Reform Beneficiaries Association | Sitio Common Basak, Bais City, Negros Oriental | Phil 99-1793 | Feb 2022 | 35.00 | 2.1000 | 7.0000 |
| | Natural Park Farmers Association | Sitio Iliranan, Brgy. Codcod, San Carlos City, Negros Occidental | Phil 2006-2289 | March 2022 | 1.20 | 0.5530 | 0.2400 |

| | | | | | | | |
|-------------|--|--|---------------------------------|-----------------|-------|--------|---------|
| | Balogo Farmers Association | Brgy. Concepcion, Talisay City, Neg. Occ. | PHIL 83-331 | Apr-22 | 3.20 | 2.0000 | 0.8000 |
| | Natural Park Farmers Association | Brgy.Codcod, San Carlos City, Negros Occidental | Phil 99-1793 | 11-May-22 | 2.10 | 1.0000 | 0.5250 |
| | Bagtic Mampalasan United Farmers Association | Brgy. Bagtic, Mabinay, Negros Oriental | Phil99-1793 | May 2022 | 28.00 | 2.1750 | 7.0000 |
| | SITIO MAMBAHAO FARMWORKERS ASSOCIATION | Sitio Mambajao, Brgy. Bacong, Bago City, Negros Occidental | Phil 99-1793 | August 15, 2022 | 10.00 | 1.70 | 1.2200 |
| | Brgy. Alim Farmers Poultry and Livestocks Raiser Association | Barangay Alim, Hinobanan, Negros Occidental | Phil 99-1793 | Sept 2022 | 7.00 | 2.0000 | 1.2863 |
| | Sitio Nolan Farmers and Farmworkers Association | Brgy. Mansalanao, La Castellana, Neg. Occ. | PHIL 99-1793 AND PHIL 2006-2289 | November 2022 | 8.00 | 2.0000 | 2.0000 |
| | Minuro Agrarian Reform Beneficiaries Cooperative | Brgy. 10, Victorias City, Negros Occidental | Phil 99-1793 | December 2022 | 18.78 | 2.0000 | 4.6950 |
| 2019 | Brgy. Ani-e Small Farmers Association | Brgy. Ani-e, Calatrava, Negros Occidental | Phil 99-1793 | Feb 16 2022 | 33.00 | 1.6600 | 5.0000 |
| | Kahugpungang Panginabuhian Mag-uuma sa La Paz | Sitio Bahi, Brgy. Lapaz, Bogo City, Cebu | Phil 99-1793 | Feb 2022 | 15.15 | 2.0000 | 3.2750 |
| | Fermina Small Water Irrigation System Association | Purok Ipil-ipil, Brgy. Maaao, Bago City, Negros Occidental | Phil 2006-2289 | Feb 2022 | 22.50 | 2.0000 | 5.0000 |
| | Kaisahan sang Mangunguma sa Programa sang CARP | Brgy. Libertad, Banate, Iloilo | Phil 2004-1011 | March 2022 | | 2.0000 | |
| | Bingawan Sugarcane Planters Farmers Association | Brgy. Poblacion, Bingawan, Iloilo | Phil 99-1793 | March 2022 | | 2.0000 | |
| | Christian Farmers Association of Samac | Brgy. Samac, Mabinay, Negros Oriental | Phil 99-1793 | March 2022 | 8.50 | 2.0000 | 0.7000 |
| | Anonang Norte Farmers Association | | Phil 99-1793 | March 10, 2022 | 15.00 | 2.0000 | 1.0000 |
| | Bagawines, Ulay, Cabulihan | Brgy. Bagawines, | Phil 2006- | March 28, | 51.50 | 1.0000 | 10.6250 |

| | | | | | | | |
|---|--------------------|---|----------------|----------------|-------|--------|--------|
| Farmers Association | Workers | Vallehermoso, Negros Oriental | 2289 | 2022 | | | |
| San Joaquin Association | Farmers | Sitio Igmamatay, Brgy. Codcod. San Carlos City, Negros Occidental | Phil 2006-2289 | April 14,2022 | 26.91 | 1.0000 | 6.7275 |
| Anonang Norte Association | Farmers | Brgy. Anonang Norte, Bogo, Cebu | Phil 99-1793 | April 20,2022 | 27.70 | 2.0000 | 6.9250 |
| Sta. Barbara Association | Farmers | Had. Sta. Barbara, Brgy. Burgos, Cadiz City, Negros Occidental | Phil 99-1793 | April 22, 2022 | 27.00 | 2.0000 | 6.7500 |
| Kadaohan Block Association | Farming | Brgy. Kadaohan, Ormoc City | Phil 99-1793 | May 19, 2022 | 5.00 | 1.0000 | 1.2500 |
| San Joaquin Association | Farmers | Sitio Igmamatay, Brgy. Codcod. San Carlos City, Negros Occidental | Phi 99-1793 | May 29, 2022 | 27.50 | 1.0000 | 6.8750 |
| Bugtong-Tangco-Tabangka Indigenous Planters Association | | Sitio Bugtong, Brgy. Tanawan, Kabankalan City, Negros Occidental | Phil 99-1793 | Apr-22 | 22.00 | 0.7000 | 5.5000 |
| Bagawines, Ulay, Cabulihan Farmers Association | Workers | Brgy. Bagawines, Vallehermoso, Negros Oriental | Phil 99-1793 | June 06, 2022 | 25.15 | 1.0000 | 6.2875 |
| Barangay Ani-e Farmers Association | Small | Brgy. Ani-e, Calatrava, Negros Occidental | Phil 99-1793 | June 19, 2022 | 5.00 | 1.0000 | 1.2500 |
| Mandana-Madalag-Pansil-Pandan-Indigenous Planters Association | | So. Pandan, Brgy. Tanawan, Kabankalan City, Negros Occidental | PHIL 99-1793 | July 2022 | 1.20 | 0.2000 | |
| HAD. FELOMINA AGRARIAN REFORM BENEFICIARY ASSOCIATION | | Purok Mahugany, Brgy. Binabag, Bogo City, Cebu | PHIL 99-1793 | August 8, 2022 | 7.00 | 1.00 | 2.0000 |
| Kahugpungang Panginabuhian sa La Paz | Mag-uuma | Sitio Bahi, Brgy. Lapaz, Bogo City, Cebu | Phil 99-1793 | Aug-Sept 2022 | 6.00 | 2.0000 | 1.9000 |
| Fermina Irrigation Association | Small Water System | Purok Ipil-ipil, Brgy. Maao, Bago City, Negros Occidental | Phil 99-1793 | Sept 2022 | 10.00 | 2.0000 | 2.0000 |

| | | | | | | | |
|--------------|--|---|------------------|-----------------|-----------------|----------------|-----------------|
| | Mandayao Gomez Farm Workers Association | Brgy. Sag-ang, La Castellana, Neg. Occ | Phil 99- 1793 | October 2022 | 9.50 | 2.0000 | 1.5400 |
| TOTAL | | | | | 842.2800 | 90.5573 | 186.0713 |

As reported from January to December 2022, the Block Farm HYV Nurseries produced a total of **842.28 laccas** from **90.5573 hectares cutback area** planted to **186.0713 hectares expansion areas**.

d. TRAININGS AND SEMINARS

Conducted OPSI TRAINING and INCEPTION MEETING for SIDA GAA 2022

| Mill District | | Trainings | Date Conducted | Number of Participants |
|---------------|----|---|--------------------|------------------------|
| LA CARLOTA | 1 | Cabungbungan Lingahob Farmers Association | August 12, 2022 | 36 |
| LA CARLOTA | 2 | Had Agho Camandag Agrarian Reform Beneficiaries Association | August 11, 2022 | 52 |
| MA-AO | 3 | Mercedes Farmers Irrigators Association Inc | August 16, 2022 | 37 |
| SONEDCO | 4 | Mahayag Small Farmers Association | August 18, 2022 | 39 |
| VICTORIAS | 5 | Cotcot Upland Farmer and Farmer Workers Association | August 18, 2022 | 32 |
| SONEDCO | 6 | Locotan Banman Sugarcane Farmers Association | August 19, 2022 | 32 |
| SAGAY DANA O | 7 | Kilusang Pagbabago Minautok Upland Farmers Association | August 19, 2022 | 21 |
| SONEDCO | 8 | Malabago Diversified Farmers Association | August 20, 2022 | 35 |
| BISCOM | 9 | Mangahoy-kahoy Farmers Association | August 30, 2022 | 44 |
| HPCO | 10 | Nacayao Small Farmers Association | August 30, 2022 | 36 |
| ILOILO | 11 | Agutayan Cubay Agrarian Reform Cooperative | August 30, 2022 | 32 |
| BISCOM | 12 | Pilar Agrarian Reform Beneficiaries Association | August 31, 2022 | 42 |
| SAGAY DANA O | 13 | Pakigdaet sa Kalamboa-an | August 31, 2022 | 97 |
| SAN CARLOS | 14 | Brgy Quezon ARB Association | September 5, 2022 | 22 |
| TOLONG | 15 | Villasol Small Sugarcane Farmers Association | September 6, 2022 | 15 |
| LOPEZ | 16 | Caridad Delapas Agrarian Reform Beneficiaries Association | September 6, 2022 | 64 |
| BAIS-URSUMCO | 17 | Bagtic Farmers Association | September 15, 2022 | 44 |

| | | | | |
|--------------|----|--|--------------------|------------|
| SAN CARLOS | 18 | Brgy. Macasilao Integrated Small Farmers Association | September 15, 2022 | 56 |
| BAIS-URSUMCO | 19 | Bugnay Farm Family Association | September 16, 2022 | 35 |
| VICTORIAS | 20 | Myrienne Farmers Development Association | September 16, 2022 | 30 |
| TOTAL | | | | 801 |

The interventions and activities provided to the Block Farms identified by the Block Farm Committee have produced positive results in terms of yield of Block Farms:

| REGION | TC/HA | | | LKG/HA | | |
|---------|-----------------|-----------------|------------------|-----------------|-----------------|------------------|
| | CY 2016-2017 | CY 2020-2021 | % OF INCREASE | CY 2016-2017 | CY 2020-2021 | % OF INCREASE |
| Visayas | 45.55 | 58.33 | 28.1 | 79.19 | 99.89 | 26.1 |

Baseline: CY 2016-2017

| SUMMARY (VISAYAS) BLOCK FARMING PROJECT, CROP YEAR 2021-2022 PRODUCTION | | | | | | | | |
|---|---------------------|----------------|--------------------------|------------------|---------------------|----------------|--------------------------|------------------|
| SIDA GAA | Plant cane | | | | Ratoon cane | | | |
| | Area planted (has.) | GROSS SALE | TOTAL COST OF PRODUCTION | TOTAL NET INCOME | Area planted (has.) | GROSS SALE | TOTAL COST OF PRODUCTION | TOTAL NET INCOME |
| 2016 | 210.9425 | 43,245,179.52 | 20,173,164.53 | 23,072,014.99 | 797.2427 | 140,848,768.71 | 51,221,279.69 | 89,627,489.02 |
| 2017 | 244.3564 | 49,148,566.89 | 22,913,619.06 | 26,234,947.83 | 709.5219 | 134,943,418.42 | 46,549,733.83 | 88,393,684.59 |
| 2018 | 154.9837 | 31,708,596.40 | 14,734,193.20 | 16,974,403.20 | 580.0372 | 102,388,978.47 | 35,674,047.46 | 66,714,931.01 |
| 2019 | 241.5289 | 45,641,541.05 | 22,413,133.01 | 23,228,408.04 | 645.7178 | 106,602,268.29 | 39,817,337.43 | 66,784,930.86 |
| ALL GAA | 851.8115 | 169,743,883.86 | 80,234,109.80 | 89,509,774.06 | 2,732.5196 | 484,783,433.89 | 173,262,398.41 | 311,521,035.48 |
| NATIONAL AVERAGE (INCOME PER HECTARE) ALL BLOCK FARMS / ALL GAA | Plant cane_AVERAGE | | 105,081.67 | | | | | |
| | Ratoon cane_AVERAGE | | 114,005.05 | | | | | |
| | OVER-ALL | | 109,543.36 | | | | | |

| GAA | Cost of Production | | Average Cost of Production | Net Income | | Average Net Income |
|--------------------------------------|--------------------|------------------|----------------------------|------------------|------------------|--------------------|
| | New Plant | Ratoon | | New Plant | Ratoon | |
| 2016 | 86,340.58 | 59,666.76 | 73,003.67 | 86,966.06 | 89,144.88 | 88,055.47 |
| 2017 | 88,620.26 | 57,782.43 | 73,201.35 | 83,077.59 | 99,346.09 | 91,211.84 |
| 2018 | 86,266.91 | 60,426.14 | 73,346.53 | 72,749.21 | 90,864.48 | 81,806.85 |
| 2019 | 81,256.39 | 54,565.46 | 67,910.93 | 73,890.66 | 85,353.26 | 79,621.96 |
| AVERAGE | 85,621.04 | 58,110.20 | 71,865.62 | 79,170.88 | 91,177.18 | 85,174.03 |
| Net Income 70% sharing scheme | | | | 55,419.62 | 63,824.02 | 59,621.82 |

2022 GAA Physical Accomplishment

1. Establishment of Block Farms – there is a total of 20 organized Block Farms under 2022 GAA which are eligible to receive interventions and funding:

| REGION | NO. OF BLOCK FARMS | TOTAL ENROLLEES | AREA (HA.) | HOUSEHOLD BENEFICIARIES |
|---------|--------------------|-----------------|------------|-------------------------|
| Visayas | 20 | 836 | 699.7400 | 2,343 |

2. Provision of Start-up Capital

Based on the reports from Extension Services, budget allocated for the start-up capital (*e. Start-up capital includes the budget for land preparation, purchase of cane points or planting materials, cover various labor expenses for farm operations from planting to cultivation and for the purchase of fertilizers*) and the implementation period for the 20 SIDA Block Farms – Visayas as follows:

| REGION | PROVISION OF START-UP CAPITAL (in Php) | TARGET IMPLEMENTATION PERIOD |
|---------|--|------------------------------|
| VISAYAS | 33,000,000.00 | November 2022-April 2023 |

3. Provision of Farm Mechanization

For the farm mechanization support, a total of Php 65,600,000.00 is allocated for the purchase of various farm machineries and equipment to be distributed to 20 SIDA Block Farms Visayas and vehicles for the capacity-building / program supervision of SRA. Allocation for the purchase and distribution of farm machineries and equipment as follows:

| REGION | PROVISION OF FARM MACHINERY AND EQUIPMENT (in Php) |
|---------|--|
| VISAYAS | 65,600,000.00 |

The following are the proposed farm machineries and equipment proposed including the status of procurement as of December. 30, 2022:

| Implementing Unit | Machinery, Equipment, Vehicle | No. of Units | Unit Cost (in Php) | Total Cost (in PhP) | Status | Purpose |
|-------------------|--|--------------|--------------------|---------------------|---|------------------------------------|
| Visayas | 90hp Farm Tractor | 20 | 2,000,000 | 40,000,000 | 100% delivered | Farm Mechanization Support |
| | Farm implements (Moulbard-4 shank, Harrower, 18-22 disc and Furrower 6-shank | 20 | 1,000,000 | 20,000,000 | For Farm implements: Bid-opening is scheduled on October 11, 2022. | Farm Mechanization Support |
| | Irrigation Facilities/Equipment with complete accessories | 20 | 150,000 | 3,000,000 | Pre-bid Conference was done last September 26, 2022 and the Bid-opening is scheduled on October 11, 2022. | Farm Mechanization Support |
| | Motorcycles | 5 | 120,000.00 | 600,000 | For issuance of notice of award to the winning bidder | Program Supervision and Monitoring |

Among the items for procurement under the farm mechanization component of Block Farm, the hauling trucks is still in the pre-procurement activities. The BAC should prioritize and hasten the procurement activity of this item or target the issuance of notice of award in December 2022.

4. Provision of Livelihood Projects

The establishment of a food house as livelihood program for Block Farms promotes good agricultural practices for crop production and animal raising. The main purpose of this livelihood is for food security and alternative source of income for the Block Farm members. The Food House project is integrated to Block Farms under 2022 GAA to promote adaptive technologies for family food security, cushion the impacts of the changing climate to food security and establish a diversified agriculture-based livelihood. Procurement is still on-going as of December 30, 2022.

| REGION | PROVISION FOR ESTABLISHMENT OF FOOD HOUSE (Php) | PARTICULARS | STATUS |
|---------|---|--|---|
| VISAYAS | 949,000.00 | Establishment of Food House – supplies and materials (Php 722,000.00) | For issuance of Notice of Award – NOA to the winning bidder/suppliers |
| | | Establishment of Beneficial Micro-Organism production Site – supplies and materials (Php 227,000.00) | On-going delivery of raw materials |

VII. RAPID PROPAGATION OF SUGARCANE HIGH YIELDING VARIETIES as of DECEMBER 2022

One of the components of the Sugarcane Industry Development Act of 2015 is the RD & E Projects, under this is the establishment of nurseries or the Rapid Propagation of Sugarcane High Yielding Varieties to different milling districts in Visayas. The main objective of this project is to establish a nursery to every milling district for easy access of small sugarcane planters/farmers to new high yielding varieties. Rapid Propagation of Sugarcane High Yielding Varieties for Extension Services Division – Visayas was allotted to different milling districts, provision/interventions under this project included fertilizers, planting materials, land preparation and cultivation, etc.

- PROJECT COMPONENTS/COOPERATORS:**

Area per mill district as per SRA Board Resolution No. 2017-326 was divided to different co-operators such as MDDC's, SUC's Planters Associations, LGU.s etc. Bais Ursumco and HPCo Mill Districts waived their rights not to avail of the said project due to various reasons (availability of area, etc.), thus the area allotted to the two districts was given to Ormoc –Hisumco, Lopez and FFHC/Bac-Mur Mill Districts as per SRA Board Resolution no. 2019-186 dated October 7, 2019.

| MILL DISTRICT | PROJECT PROPONENT | FUND ALLOCATION | ALLOCATION (HECTARES) |
|---------------------------|---|-----------------|-----------------------|
| SAGAY-DANAO MILL DISTRICT | Sagay Danao Mill District Development Council Foundation, Inc. | 1,283,175.00 | 15.00 |
| | Northern Negros College of Science & Technology - NONESCOST | 443,513.00 | 5.00 |
| LOPEZ MILL DISTRICT | Lopez Mill District Development Council Foundation, Inc. | 1,409,478.00 | 16.00 |
| | Lopez Mill District Development Council Foundation, Inc. (Additional Nursery as per SRA Board Resolution No. 2019-186) | 1,747,991.20 | 16.00 |
| SAN CARLOS MILL DISTRICT | San Carlos Mill District | 1,159,272.00 | 15.00 |

| | | | |
|------------------------------------|---|----------------------|-------------------------|
| TOLONG MILL DISTRICT | Southern Negros Mill District Development Council Foundation Inc. (SNMDDCFI) | 1,182,988.00 | 15.00 |
| BISCOM MILL DISTRICT | Planters Association of Southern Negros (PASON) | 1,766,079.75 | 21.00 |
| | Central Philippine State University (CPSU) - Moises Padilla | 85,428.00 | 1.00 |
| | Independent Planters of Biscom Inc. (IPOBI) | 427,140.00 | 5.00 |
| | Negros COFA - Confederation of Farmers Association | 531,340.00 | 6.22 |
| | Bato Farmers Association (BAFA) | 170,856.00 | 2.00 |
| | Central Philippine State University (Hinigaran Campus) | 85,428.00 | 1.00 |
| MA-AO MILL DISTRICT | Maa Mill District Development Council Foundation, Inc. | 1,130,378.00 | 13.00 |
| LA CARLOTA MILL DISTRICT | La Carlota Mill District Development Council Foundation, Inc. | 1,917,863.00 | 22.00 |
| SONEDCO/DACONGCOGON MILL DISTRICT | Central Philippine State University (CPSU) - Main Campus, Kabankalan City | 2,532,917.00 | 30.00 |
| FFHC/BAC-MUR MILL DISTRICT' | Bacolod Murcia/First Farmers Mill District Development Council Foundation, Inc. | 2,188,241.10 | 26.00 |
| | Bacolod Murcia/First Farmers Mill District Development Council Foundation, Inc. (Additional Nursery as per SRA Board Resolution No. 2019-186) | 1,283,175.00 | 15.00 |
| VICTORIAS MILL DISTRICT | Victorias Mill District Development Foundation, Inc. | 3,188,567.00 | 37.00 |
| | Iloilo MDDC | 1,221,620.40 | 14.30 |
| | WVSU Calinog Campus | 256,284.00 | 3.00 |
| | ISCOF San Enrique | 256,284.00 | 3.00 |
| | ISCOF Dingle | 341,712.00 | 4.00 |
| | Badianan LGU | 153,770.40 | 1.80 |
| | Antique-Tobias Fornier LGU | 268,284.00 | 3.00 |
| | Antique SU-Hamtic Campus | 85,428.00 | 1.00 |
| | Binggawan LGU | 85,428.00 | 1.00 |
| | Pilar Planters Association | 85,428.00 | 1.00 |
| | Capiz State University | 427,140.00 | 5.00 |
| BOGO MEDELLIN/DURANO MILL DISTRICT | Bogo Medellin/Durano Mill District Development Foundation, Inc. (CTU - Tuburan Campus) | 678,330.00 | 9.00 |
| ORMOC-HISUMCO MILL DISTRICT | Ormoc-Hisumco Mill District Development Council Foundation, Inc. | 704,221.00 | 9.00 |
| | Leyte Cane Planters Association, Inc. (Additional Nursery as per SRA Board Resolution No. 2019-186) | 1,140,928.80 | 13.00 |
| TOTAL | | 28,238,688.65 | 329.32 |
| NOTE: | Total budget allocated for ESD Visayas | | Php28,291,559.00 |
| | Fund allocation was based on the project proposal submitted | | |

- CASH TRANSFER OF FUNDS:**

One of the provisions of the Rapid Propagation of Sugarcane HYV is the cash transfer of fund. Cash transfer included the funds for land preparation, canepoints, pakiao labor, etc. See table for the list of proponents under the cash transfer provision:

| PROJECT POPONENT/COOPERATOR | MILL DISTRICT | AMOUNT OF CASH TRANSFER | DATE TRANSFERRED | REMARKS |
|--|----------------------------------|----------------------------|---|---|
| 1. Ormoc-Hisumco Mill District Development Council | Ormoc-Hisumco Mill District | Php608,281.00 | March 2019 | With liquidation report forwarded to SIDA One-Stop Shop Office for audit. |
| 2. Northern Negros College of Science and Technology (NONESCOST) | Sagay-Danao Mill District | Php377,725.00 | March 2019 | With liquidation report c/o SRA Bacolod SIDA-One-Stop Shop Office. |
| 3. Planter's Association of Southern Negros, Inc. | Biscom Mill District | Php1,472,079.14 | September 2020 | With liquidation report forwarded to SIDA One-Stop Shop Office for audit. |
| 4. Leyte Cane Planter's Association, Inc. | Ormoc-Hisumco Mill District | Php986,928.80 | November 2020 | With liquidation report forwarded to SIDA One-Stop Shop Office for audit. |
| 5. Iloilo Mill District Development Council Inc. | Iloilo Mill District | Php1,221,620.40 | December 2021 | Released to Iloilo MDDC, subject for submission of liquidation report. |
| 6. Pilar Planters Association | Capiz Mill District | Php85,428.00 | December 2021 | Released to Iloilo MDDC, subject for submission of liquidation report. |
| 7. Central Philippine State University – Main Campus | Sonedco/Dacongogon Mill District | Php601,349.00 | November 2022 | Released to CPSU last December 2022, subject for liquidation |
| 8. Cebu Technological University | Bogo Medellin Mill District | Php552,330.00 | Cheque was issued last December 2022 and scheduled for release to CTU Tuburan Campus on January 2023. | |
| TOTAL | | Php5,905,741.34 | | |

- FUND UTILIZATION:**

As of December 31, 2022 total of **Php23,560,260.48 (83.27%)** already utilized including farm labor, land preparation canepoints and fertilizers procured through competitive bidding.

| MILL DISTRICT | BUDGET | CANEPOINTS/LABOR OPERATIONS | FERTILIZER | TOTAL EXPENDITURE |
|-------------------------|----------------------|--------------------------------|---------------------|----------------------|
| La Carlota | 1,917,863.00 | 1,638,166.00 | 308,000.00 | 1,946,166.00 |
| Ma-ao | 1,130,378.00 | 556,335.00 | 182,000.00 | 738,335.00 |
| FFHC/Bac-Mur | 3,471,438.00 | 2,448,841.65 | 574,000.00 | 3,022,841.65 |
| Victorias | 3,188,567.00 | 2,002,978.00 | 518,000.00 | 2,520,978.00 |
| Lopez | 3,157,469.20 | 2,709,469.39 | 448,000.00 | 3,157,469.39 |
| San Carlos | 1,159,272.00 | | 182,000.00 | 182,000.00 |
| Sagay / Danao | 1,726,688.00 | 1,450,900.00 | 280,000.00 | 1,473,725.00 |
| BISCOM | 3,135,647.00 | 2,176,076.34 | 504,000.00 | 2,680,076.34 |
| Sonedco / Dacongogon | 2,532,917.00 | 1,684,349.34 | 420,000.00 | 1,503,000.00 |
| Tolong/Southern Negros | 1,182,988.00 | 953,504.49 | 210,000.00 | 1,163,504.49 |
| Iloilo / Santos - Lopez | 1,960,945.00 | 1,072,672.47 | 422,800.00 | 1,644,420.40 |
| Capiz / Monomer | 1,203,907.00 | 85,428.00 | 98,000.00 | 183,428.00 |
| Bogo - Medellin | 678,330.00 | 552330 | 126,000.00 | 126,000.00 |
| Ormoc - Kananga | 1,845,149.80 | 1,595,209.80 | 308,000.00 | 1,903,209.80 |
| c/o SRA LGAREC | | | 53,200.00 | |
| TOTAL | 28,291,559.00 | 18,926,260.48 | 4,634,000.00 | 23,560,260.48 |

- FERTILIZER/S:**

Total of **3,310** bags of fertilizers amounting to **Php4,634,000.00** was procured and distributed to project proponents.

| PROPONENT | No. of Bags (Based on Area Allocation) | | TOTAL NO. OF BAGS | 46-0-0 | 18-46-0 | TOTAL | DELIVERY PLACE/ADDRESS |
|---|---|---------|-------------------|------------|------------|------------|--|
| | 46-0-0 | 18-46-0 | | 1,140.00 | 1,660.00 | | |
| LA CARLOTA MDDC | 110 | 110 | 220 | 125,400.00 | 182,600.00 | 308,000.00 | AALCPI Compound, Brgy RSB, La Carlota City |
| MA-AO MDDC | 65 | 65 | 130 | 74,100.00 | 107,900.00 | 182,000.00 | SRA Compound, LGAREC |
| BISCOM MDDC | | | | | | | |
| IPOBI | 25 | 25 | 50 | 28,500.00 | 41,500.00 | 70,000.00 | Had. Manucao, Brgy. Bato, Hinigaran, Negros Occidental |
| PASON | 105 | 105 | 210 | 119,700.00 | 174,300.00 | 294,000.00 | SRA Compound, LGAREC |
| BAFA | 10 | 10 | 20 | 11,400.00 | 16,600.00 | 28,000.00 | Bato Farmers Association, Odioing, Moises Padilla |
| CPSU Moises Padilla | 5 | 5 | 10 | 5,700.00 | 8,300.00 | 14,000.00 | CPSU - Moises Padilla Campus |
| CPSU Hinigaran | 5 | 5 | 10 | 5,700.00 | 8,300.00 | 14,000.00 | SRA Compound, LGAREC |
| COFA | 30 | 30 | 60 | 34,200.00 | 49,800.00 | 84,000.00 | Negros COFA, Binalbagan, Negros Occidental |
| FFHC/BAC-MUR MDDC | 205 | 205 | 410 | 233,700.00 | 340,300.00 | 574,000.00 | First Farmers Association Corner Filipina St., Talisay |
| VICTORIAS MDDC | 185 | 185 | 370 | 210,900.00 | 307,100.00 | 518,000.00 | MDDC, Mill Site, Victorias City |
| SAGAY-DANA O MDDC | | | | | | - | |
| NONESCOST | 25 | 25 | 50 | 28,500.00 | 41,500.00 | 70,000.00 | Brgy. Poblacion 1, Sagay City |
| Sagay Danao MDDC | 75 | 75 | 150 | 85,500.00 | 124,500.00 | 210,000.00 | Brgy. Bato, Sagay City |
| LOPEZ MDDC | 160 | 160 | 320 | 182,400.00 | 265,600.00 | 448,000.00 | Brgy. Cabahug, Cadiz City |
| SAN CARLOS MDDC | 65 | 65 | 130 | 74,100.00 | 107,900.00 | 182,000.00 | SRA Compound, LGAREC |
| SONEDCO/DACONGCOGON | | | | | | | |
| Central Philippine State University - Kabankalan Campus | 120 | 120 | 240 | 136,800.00 | 199,200.00 | 336,000.00 | CPSU Main Campus, Camingawan, Kabankalan City |
| Sonedco/Dacongcogon MDDCFI | 30 | 30 | 60 | 34,200.00 | 49,800.00 | 84,000.00 | |
| TOLONG MDDC/SOUTHERN NEGROS MDDC | | | | | | | |
| Tolong MDDC | 75 | 75 | 150 | 85,500.00 | 124,500.00 | 210,000.00 | MDDC Office, TUPA Bldg, Sta. Catalina, Neg. Oriental |
| ILOILO MDDC/CAPIZ | | | | | | | |
| Iloilo MDDC | 72 | 72 | 144 | 82,080.00 | 119,520.00 | 201,600.00 | Brgy. Imbang Grande, Passi City |
| WVSU Calinog Campus | 15 | 15 | 30 | 17,100.00 | 24,900.00 | 42,000.00 | WVSU Calinog Campus, Poblacion Calinog, Iloilo |
| ISCOF San Enrique | 15 | 15 | 30 | 17,100.00 | 24,900.00 | 42,000.00 | ISCOF San Enrique Campus |

| | | | | | | | |
|-------------------------------|-------------|-------------|-------------|------------|------------|---------------------|--|
| ISCOF Dingle | 20 | 20 | 40 | 22,800.00 | 33,200.00 | 56,000.00 | ISCOF Dingle Campus |
| Badiangan LGU | 9 | 9 | 18 | 10,260.00 | 14,940.00 | 25,200.00 | Brgy. Imbang Grande, Passi City (Iloilo MDDC) |
| Antique-Tobias Fornier LGU | 15 | 15 | 30 | 17,100.00 | 24,900.00 | 42,000.00 | LGU-Tobias Fornier, Antique |
| Antique SU-Hamtic Campus | 5 | 5 | 10 | 5,700.00 | 8,300.00 | 14,000.00 | Antique SU-Hamtic Campus, |
| Binggawan LGU | 5 | 5 | 10 | 5,700.00 | 8,300.00 | 14,000.00 | Brgy. Imbang Grande, Passi City (Iloilo MDDC) |
| Pilar Planters Association | 5 | 5 | 10 | 5,700.00 | 8,300.00 | 14,000.00 | Capiz Sugar Central Compound, Poblacion Pres. Roxas Capiz |
| CAPSU | 25 | 25 | 50 | 28,500.00 | 41,500.00 | 70,000.00 | CAPSU Pontevedra Campus, Brgy. Bailan, Pontevedra Capiz |
| BOGO MEDELLIN MDDC | 45 | 45 | 90 | 51,300.00 | 74,700.00 | 126,000.00 | CTU Tuburan Campus |
| ORMOC-HISUMCO MDDC | 110 | 110 | 220 | 125,400.00 | 182,600.00 | 308,000.00 | Ormoc MDDC Compound, HISUMCO Compound, Monetebello, Kananga, Leyte |
| Brgy. Benolho, Albuera, Leyte | | | | | | | |
| Brgy. Boroc, Ormoc | | | | | | | |
| Sumanga | | | | | | | |
| SRA LGAREC | 19 | 19 | 38 | 21,660.00 | 31,540.00 | 53,200.00 | SRA Compound, LGAREC |
| TOTAL | 1655 | 1655 | 3310 | | | 4,634,000.00 | |

CUTBACK/CANEPOINT BENEFICIARIES (OCTOBER - DECEMBER 2022):

For CY 2022 (January – December) a total of **851.0515** canepoints/planting materials produced through cutback and distributed to beneficiaries **133** beneficiaries (see table below).

| Name of Farmers/Takers | | Varieties Purchased | Date Cutback (Month) | Volume (Iacsa) | Plantation Address |
|----------------------------|--------------------------------|---------------------|----------------------|----------------|-----------------------------------|
| FIRST QUARTER: | | | | | |
| NONESCOST | | | | | |
| 1 | NONESCOST | PHIL 99-1793 | JANUARY 20-24, 2022 | 4.7000 | BRGY. POBLACION I, SAGAY CITY |
| 2 | RENATO VILLACARLOS | PHIL 99-1793 | JANUARY 20-24, 2022 | 6.0000 | BRGY. LANGUB, ESCALANTE CITY |
| 3 | RAFAEL MASCULINO | PHIL 99-1793 | JANUARY 20-24, 2022 | 8.0000 | BRGY. CABAUG, CADIZ CITY |
| 4 | TED DELA TORRE | PHIL 99-1793 | JANUARY 20-24, 2022 | 6.0000 | BRGY. SUBA, CALATRAVA |
| 5 | NONESCOST | PHIL 99-1793 | FEBRUARY 4, 2022 | 7.0000 | BRGY. POBLACION I, SAGAY CITY |
| 6 | REY HERIOS | PHIL 99-1793 | FEBRUARY 4, 2022 | 10.0000 | BRGY. CADUHAAN, CADIZ CITY |
| MA-AO MDDC | | | | | |
| 7 | MR. JOSE LUIS TONGOY | PHIL2006-2289 | JANUARY 16, 2022 | 46.0000 | BRGY. DULAO, BAGO CITY |
| 8 | MR. FERDINAND EMMANUEL GAYOLES | PHIL2006-2289 | FEBRUARY 22, 2022 | 19.0000 | BRGY. DULAO, BAGO CITY |
| SONEDCO/DACONGCOGON | | | | | |
| 9 | GLEN LEONARDIA | PHIL 99-1793 | JANUARY 2022 | 20.0000 | ISABELA, NEGROS OCCIDENTAL |
| 10 | MAY2 DECENAL | PHIL 99-1793 | JANUARY 2022 | 6.0000 | BRGY. CAMINGAWAN, KABANKALAN CITY |
| 11 | MIKE OCSIMA | PHIL 99-1793 | JANUARY 2022 | 2.0000 | BRGY. ORINGAO, KABANKALAN CITY |
| 12 | CPSU - MAIN CAMPUS | PHIL 99-1793 | JANUARY 2022 | 37.0000 | BRGY. CAMINGAWAN, KABANKALAN |

| | | | | | |
|---|--------------------------|----------------|-------------------|-----------------|-----------------------------------|
| | | | | | CITY |
| 13 | GLEN LEONARDIA | PHIL 99-1793 | FEBRUARY 2022 | 20.0000 | ISABELA, NEGROS OCCIDENTAL |
| 14 | CPSU - MAIN CAMPUS | PHIL 99-1793 | FEBRUARY 2022 | 5.0000 | BRGY. CAMINGAWAN, KABANKALAN CITY |
| 15 | CELEDONIA SIPLAO | PHIL 99-1793 | FEBRUARY 2022 | 2.0000 | BRGY. CAMINGAWAN, KABANKALAN CITY |
| 16 | CPSU - MAIN CAMPUS | PHIL 99-1793 | FEBRUARY 2022 | 11.0000 | BRGY. CAMINGAWAN, KABANKALAN CITY |
| LOPEZ | | | | | |
| 17 | ELVIE TINGSON | PHIL 99-1793 | JANUARY 27, 2022 | 4.0300 | BRGY. MAGSAYSAY, CADIZ CITY |
| 18 | JOSE PERNAS | PHIL 99-1793 | JANUARY 27, 2022 | 30.0000 | BRGY. POBLACION 2, SAGAY CITY |
| 19 | JOSE PERNAS | PSR 02-247 | FEBRUARY 8, 2022 | 12.9300 | BRGY. POBLACION 2, SAGAY CITY |
| 20 | LOPEZ MDDC | PHIL 99-1793 | FEBRUARY 16, 2022 | 8.0000 | BRGY. MAGSAYSAY, CADIZ CITY |
| 21 | LOPEZ MDDC | PHIL 99-1793 | MARCH 20, 2022 | 5.0000 | BRGY. LOPEZ JAENA, SAGAY CITY |
| 22 | LOPEZ MDDC | PHIL 99-1793 | MARCH 22, 2022 | 7.0000 | BRGY. MAGSAYSAY, CADIZ CITY |
| ORMOC-HISUMCO | | | | | |
| 23 | MERLINDA NUEVO | PHIL2006-2289 | JANUARY 2022 | 4.0000 | HIBUNAWON, ORMOC CITY |
| 24 | ORMOC-KANANGA MDDCFI | PHIL2006-2289 | JANUARY 2022 | 5.0000 | NAGHALIN, KANANGA |
| 25 | CHULIANTE MKTG | PHIL2006-2289 | FEBRUARY 2022 | 3.2000 | BOROC, ORMOC CITY |
| 26 | IAL ENTERPRISES | PHIL2006-2289 | FEBRUARY 2022 | 15.0000 | DONGHOL, ORMOC CITY |
| 27 | IMA PARAC | PHIL2006-2289 | MARCH 2022 | 5.0000 | BENOLHO |
| 28 | IAL ENTERPRISES | PHIL2006-2289 | MARCH 2022 | 3.2000 | CABULIHAN, ORMOC CITY |
| BISCOM | | | | | |
| 29 | ROBERT BERNARD TAN | PHIL2006-2289 | FEBRUARY 2022 | 15.2000 | BRGY. NABALIAN, HIMAMAYLAN |
| 30 | ADRIANNE CAMPOS | PHIL2006-2289 | MARCH 2022 | 10.1000 | BRGY. CANSALUNGON, ISABELA |
| 31 | FRANKLIN FUENTEVILLA | PHIL2006-2289 | MARCH 2022 | 15.1000 | BRGY. MAMBAGATON, HIMAMAYLAN |
| TOTAL CANE POINTS PRODUCED (FIRST QUARTER) | | | | 352.4600 | |
| SECOND QUARTER | | | | | |
| ORMOC-HISUMCO | | | | | |
| 32 | BAPMPC | PHIL2006-2289 | MAY 2022 | 3.5000 | BOROC, ORMOC CITY |
| 33 | GODFREY CAPANAS | PHIL2006-2289 | MAY 2022 | 2.1000 | MABICA, KANANGA |
| 34 | ORMOC-KANANGA MDDCFI | PHIL2006-2289 | MAY 2022 | 2.8600 | BOROC, ORMOC CITY |
| 35 | GODFREY CAPANAS | VMC 86-550 | JUNE 2022 | 4.4000 | MABICA, KANANGA |
| 36 | GIL GANTUANGCO | VMC 86-550 | JUNE 2022 | 17.8000 | VALENCIA, ORMOC |
| BISCOM | | | | | |
| 37 | PASON | PHIL2006-2289 | APRIL 2022 | 13.0000 | GUINTUBHAN, ISABELA |
| LCPAI - ORMOC | | | | | |
| 38 | HR SERAFICA PLANTATION | PHIL2006-2289 | APRIL 21-22, 2022 | 9.3565 | ORMOC CITY |
| 39 | JAIME SALOMON | PHIL2006-2289 | JUNE 4, 2022 | 4.0000 | ORMOC CITY |
| 40 | ERSI FARM | PHIL2006-2289 | JUNE 4, 2022 | 5.0000 | ORMOC CITY |
| 41 | HR SERAFICA PLANTATION | PHIL2006-2289 | JUNE 11, 2022 | 6.0000 | ORMOC CITY |
| 42 | HR SERAFICA PLANTATION | PHIL2006-2289 | JUNE 28, 2022 | 10.0000 | ORMOC CITY |
| FFHC/BAC-MUR | | | | | |
| 43 | GERARDO LOPEZ | PSR 07-195 | APRIL 17, 2022 | 6.40 | TANZA |
| 44 | JEROME RAMOS | Phil 2006-2289 | APRIL 22, 2022 | 5.00 | ESMERALDA 1 |
| 45 | HERMONT SUGAR PLANTATION | Phil 2006-2289 | APRIL 23, 2022 | 5.00 | INGRID HERNANDEZ |
| 46 | JOSE MA. LEDESMA | Phil 2006-2289 | APRIL 26, 2022 | 3.72 | ROSARIO |
| 47 | JOSE MA. LEDESMA III | Phil 2006-2289 | APRIL 26, 2022 | 2.69 | LEDESMA |
| 48 | JOSE MA. LEDESMA | Phil 2006-2289 | APRIL 27, 2022 | 1.28 | ROSARIO |

| | | | | | |
|--|--------------------------------|----------------|--------------------|-----------------|-------------------------------|
| 49 | JOSE MA. LEDESMA III | Phil 2006-2289 | APRIL 27, 2023 | 2.31 | LEDESMA |
| 50 | ELE/DONNA ECHAUS | PSR 07-195 | APRIL 28, 2022 | 5.80 | PUYAS |
| 51 | ELE/DONNA ECHAUS | PSR 07-195 | MAY 2, 2022 | 6.04 | PUYAS |
| 52 | ROBERTO GONZAGA | PSR 07 -195 | MAY 3, 2022 | 5.00 | LUISA CARMEN |
| 53 | ELE/DONNA ECHAUS | PSR 07-195 | MAY 5, 2022 | 4.24 | PUYAS |
| 54 | FRANCISCO VILLANUEVA | Phil 2006-2289 | MAY 6, 2022 | 5.76 | SAN ISIDRO |
| 55 | ELE/DONNA ECHAUS | PSR 07-195 | MAY 10, 2022 | 1.92 | PUYAS |
| 56 | FRANCISCO VILLANUEVA/VILAYA | PSR 07-195 | MAY 12, 2022 | 2.35 | SAN ISIDRO |
| 57 | FRANCISCO VILLANUEVA/VILAYA | PSR 07 -195 | MAY 12, 2022 | 2.65 | SAN ISIDRO |
| 58 | ED RONNIE SIASAT | PSR 07 -195 | MAY 13, 2022 | 5.00 | E R S |
| 59 | BONIFACIO PENA | Phil 2006-2289 | MAY 13, 2022 | 5.00 | ARGENTINA ASTRO |
| 60 | ELE/DONNA ECHAUS | Phil 2006-2289 | MAY 17, 2022 | 5.33 | PUYAS |
| 61 | FRANCISCO VILLANUEVA/VILAYA | PSR 07 -195 | MAY 24, 2022 | 5.00 | SAN ISIDRO |
| 62 | RUEL TRECHO | Phil 2006-2289 | MAY 26, 2022 | 5.00 | ALUSIMAN |
| 63 | GERARDO LOPEZ | Phil 2006-2289 | MAY 31, 2022 | 1.50 | TANZA |
| 64 | GERARDO LOPEZ | VMC 84-524 | MAY 31, 2022 | 6.00 | MASIN |
| 65 | JOSE MARIA LEDESMA | Phil 2006-2289 | JUNE 1, 2022 | 8.00 | CONSITA |
| 66 | FRANCISCO CUENCA | Phil 2006-2289 | JUNE 6, 2022 | 2.00 | ANITA |
| 67 | BONIFACIO PENA | Phil 2006-2289 | JUNE 8, 2022 | 5.54 | ARGENTINA |
| 68 | JOSE MA LEDESMA | VMC 84-524 | JUNE 9, 2022 | 2.50 | MASIN |
| 69 | FRANCISCO VILLANUEVA | VMC 84-524 | JUNE 15, 2022 | 5.00 | ALISBOG |
| 70 | JOSE MA LEDESMA | VMC 84-524 | JUNE 17, 2022 | 3.00 | ASTRO |
| 71 | FRANCISCO VILLANUEVA | VMC 84-524 | JUNE 21, 2022 | 5.90 | ALISBOG |
| 72 | FRANCISCO VILLANUEVA | Phil 2006-2289 | JUNE 20, 2022 | 3.15 | VILAYA |
| 73 | BONIFACIO PENA | Phil 2006-2289 | JUNE 23, 2022 | 5.25 | ARGENTINA ASTRO |
| TOTAL CANE POINTS PRODUCED (SECOND QUARTER) | | | | 211.3465 | |
| THIRD QUARTER | | | | | |
| NONESCOST | | | | | |
| 74 | RENE DECHINO | PHIL 99-1793 | SEPTEMBER 19, 2022 | 5.0000 | BRGY. LOPEZ JAENA, SAGAY CITY |
| 75 | LYDIA GAMBITO | PHIL 99-1793 | SEPTEMBER 19, 2022 | 6.2300 | BRGY. MINAPASUK, CALATRAVA |
| LCPAI - ORMOC | | | | | |
| 76 | MVT | PHIL2006-2289 | JULY 2022 | 18.5000 | KANANGA, LEYTE |
| 77 | PAPHI | PHIL2006-2289 | AUGUST 2022 | 25.2550 | MONTERICO, ORMOC CITY, LEYTE |
| 78 | LCPAI | PHIL2006-2289 | AUGUST 2022 | 3.0900 | DOLORES, ORMOC CITY, LEYTE |
| 79 | VSU - VILLABA SCHOLAR (THESIS) | PHIL2006-2289 | AUGUST 2022 | 0.1400 | VILLABA, LEYTE |
| 80 | PAPHI | PHIL2006-2289 | SEPTEMBER 2022 | 15.7600 | MONTERICO, ORMOC CITY, LEYTE |
| 81 | LCPAI | PHIL2006-2289 | SEPTEMBER 2022 | 4.6500 | DOLORES, ORMOC CITY, LEYTE |
| ORMOC-HISUMCO | | | | | |
| 82 | ENRIQUE AVILES | PHIL2006-2289 | SEPTEMBER 2022 | 5.3000 | DAYHAGAN, ORMOC CITY |
| 83 | BAPMPC | PHIL2006-2289 | SEPTEMBER 2022 | 5.0000 | BOROC, ORMOC CITY |
| 84 | BAPMPC | PHIL2006-2289 | SEPTEMBER 2022 | 4.0000 | BOROC, ORMOC CITY |
| 85 | ENRIQUE AVILES | PHIL2006-2289 | SEPTEMBER 2022 | 4.7000 | DAYHAGAN, ORMOC CITY |
| 86 | ORMOC-KANANGA MDDCFI | PHIL2006-2289 | SEPTEMBER 2022 | 3.1000 | ALTA VISTA, ORMOC CITY |
| FFHC/BAC-MUR | | | | | |
| 87 | FRANCISCO VILLANUEVA | VMC 84-524 | JULY 4, 2022 | 5.50 | ROSARIO NORTE |
| 88 | FRANCISCO VILLANUEVA/VILAYA | PSR 07 -195 | JULY 18, 2022 | 5.00 | SAN ISIDRO |
| 89 | FRANCISCO VILLANUEVA/VILAYA | PSR 07 -195 | JULY 18, 2022 | 2.06 | SAN ISIDRO |

| | | | | | |
|---|------------------------|----------------|-------------------|-----------------|--------------------------------|
| 90 | FRANCISCO VILLANUEVA | Phil 2006-2289 | JULY 18, 2022 | 2.94 | VILAYA |
| BISCOM | | | | | |
| 91 | PASON | PHIL2006-2289 | SEPTEMBER 8, 2022 | 40.4000 | BRGY. NABALIAN, HIMAMAYLAN |
| TOTAL CANE POINTS PRODUCED (THIRD QUARTER) | | | | 156.6250 | |
| FOURTH QUARTER | | | | | |
| FFHC/BAC-MUR | | | | | |
| 92 | GERARDO L. LEDESMA | PSR 07-195 | OCTOBER 26, 2022 | 4.05 | LUISA CARMEN |
| 93 | GERARDO L. LEDESMA | PSR 07-195 | OCTOBER 26, 2022 | 5.00 | DOS MARIAS |
| 94 | GERARDO L. LEDESMA | PSR 07-195 | OCTOBER 26, 2022 | 5.67 | DOS MARIAS |
| 95 | E.L.E/RALLY ECHAUS | PSR 07-195 | OCTOBER 26, 2022 | 5.69 | PUYAS |
| 96 | E.L.E/RALLY ECHAUS | PSR 07-195 | OCTOBER 26, 2022 | 4.31 | BAGACAY |
| 97 | BONIFACIO PENA | PHIL 2006-2289 | OCTOBER 28, 2022 | 3.51 | ASTRO |
| 98 | BONIFACIO PENA | PHIL 2006-2289 | OCTOBER 28, 2022 | 6.45 | ASTRO |
| 99 | GERARDO LOPEZ | PHIL 2006-2289 | OCTOBER 28, 2022 | 0.10 | TANZA |
| 100 | GLOMAR FARMS INC. | PHIL 2006-2289 | OCTOBER 28, 2022 | 4.07 | OLIVA 2 |
| 101 | GLOMAR FARMS INC. | PHIL 2006-2289 | OCTOBER 28, 2022 | 4.91 | OLIVA 2 |
| 102 | GLOMAR FARMS INC. | PHIL 2006-2289 | OCTOBER 28, 2022 | 4.77 | OLIVA 2 |
| 103 | GLOMAR FARMS INC. | PHIL 2006-2289 | OCTOBER 28, 2022 | 5.06 | OLIVA 2 |
| 104 | L.N. AGUSTIN FARM INC. | PHIL 2006-2289 | OCTOBER 29, 2022 | 2.48 | GEORGINA |
| 105 | L.N. AGUSTIN FARM INC. | PHIL 2006-2289 | OCTOBER 29, 2022 | 2.52 | GEORGINA |
| 106 | BONIFACIO PEÑA | PHIL 2006-2289 | NOVEMBER 4, 2022 | 1.69 | ASTRO |
| 107 | BONIFACIO PEÑA | PHIL 2006-2289 | NOVEMBER 5, 2022 | 0.80 | ASTRO |
| 108 | BONIFACIO PEÑA | PHIL 2006-2289 | NOVEMBER 9, 2022 | 8.00 | ASTRO |
| 109 | GERARDO LOPEZ | PHIL 2006-2289 | NOVEMBER 9, 2022 | 1.50 | TANZA |
| 110 | BONIFACIO PEÑA | PHIL 2006-2289 | NOVEMBER 10, 2022 | 5.00 | ASTRO |
| 111 | BONIFACIO PEÑA | PHIL 2006-2289 | NOVEMBER 11, 2022 | 6.02 | ASTRO |
| 112 | BONIFACIO PEÑA | PHIL 2006-2289 | NOVEMBER 12, 2022 | 3.74 | ASTRO |
| 113 | CARLOS BALCELLS | PHIL 2006-2289 | NOVEMBER 12, 2022 | 2.83 | CLAPAROLS |
| 114 | CARLOS BALCELLS | PSR 07-195 | NOVEMBER 12, 2022 | 1.15 | CLAPAROLS |
| ORMOC-HISUMCO | | | | | |
| 115 | BAPMPC | Phil 2006-2289 | OCTOBER 2022 | 1.5000 | BOROC, ORMOC CITY |
| 116 | ENRIQUE AVILES | Phil 2006-2289 | OCTOBER 2022 | 2.4000 | DAYHAGAN, ORMOC CITY |
| 117 | EDWARD VELASQUEZ | Phil 2006-2289 | OCTOBER 2022 | 3.5000 | BENOLHO, ALBUERA |
| NONESCOST | | | | | |
| 118 | CARLO VALENCIA | PHIL 99-1793 | NOVEMBER 2022 | 1.2000 | BRGY. POBLACION II, SAGAY CITY |
| 119 | JESSA MAE BARCELONA | PHIL 99-1793 | NOVEMBER 2022 | 2.0000 | BRGY. POBLACION II, SAGAY CITY |

| | | | | | |
|--|--------------------|--------------|---------------|-----------------|--------------------------------|
| 120 | CESAR BERJAMIN | PHIL 99-1793 | NOVEMBER 2022 | 2.0000 | BRGY. POBLACION II, SAGAY CITY |
| 121 | ELIEZA PERMENDOSA | PHIL 99-1793 | NOVEMBER 2022 | 2.0000 | BRGY. POBLACION II, SAGAY CITY |
| 122 | ARIEL CERVANTES | PHIL 99-1793 | NOVEMBER 2022 | 2.0000 | BRGY. POBLACION II, SAGAY CITY |
| 123 | JOHNREY PIALAGO | PHIL 99-1793 | NOVEMBER 2022 | 1.6000 | BRGY. POBLACION II, SAGAY CITY |
| 124 | EDUARDO CAUNTOY | PHIL 99-1793 | NOVEMBER 2022 | 2.0000 | BRGY. RIZAL, SAGAY CITY |
| 125 | RONIE SABIDALAS | PHIL 99-1793 | NOVEMBER 2022 | 3.6000 | BRGY. RIZAL, SAGAY CITY |
| SONEDCO/DACONGCOGON | | | | | |
| 126 | RODRIGO JALAPA | PHIL 99-1793 | NOVEMBER 2022 | 1.0000 | CAMINGAWAN, KABANKALAN |
| 127 | VICTORINO OGANAYON | PHIL 99-1793 | NOVEMBER 2022 | 2.0000 | CAMINGAWAN, KABANKALAN |
| 128 | MICHEAL PILLONE | PHIL 99-1793 | NOVEMBER 2022 | 1.0000 | CAMINGAWAN, KABANKALAN |
| 129 | RODRIGO VILLARMINO | PHIL 99-1793 | NOVEMBER 2022 | 1.0000 | CAMINGAWAN, KABANKALAN |
| 130 | NONNOY FERNANDO | PHIL 99-1793 | NOVEMBER 2022 | 2.0000 | INAPOY, KABANKALAN |
| 131 | JOEMARIE TRASONA | PHIL 99-1793 | NOVEMBER 2022 | 5.0000 | PINAGUINPINAN, KABANKALAN |
| 132 | E.U. BAYLES | PHIL 99-1793 | NOVEMBER 2022 | 3.0000 | TAMPALON, KABANKALAN |
| 133 | SAMUEL ABADA | PHIL 99-1793 | NOVEMBER 2022 | 2.5000 | MABINAY |
| TOTAL CANE POINTS PRODUCED (FOURTH QUARTER) | | | | 130.6200 | |

Summary per Quarter (Cutback and Canepoints Beneficiaries)

| | | |
|--------------|----------------------|-----------------|
| 1ST | Canepoints | 352.4600 |
| | Beneficiaries | 31 |
| 2ND | Canepoints | 211.3465 |
| | Beneficiaries | 42 |
| 3RD | Canepoints | 156.6250 |
| | Beneficiaries | 18 |
| 4TH | Canepoints | 130.6200 |
| | Beneficiaries | 42 |
| TOTAL | Canepoints | 851.0515 |
| | Beneficiaries | 133 |

VIII. ACCELERATED TECHNOLOGY TRANSFER PROGRAM - ATP JANUARY – DECEMBER 2022

The Sugar Regulatory Administration through the Extension Services Division - Visayas continues its support to the sugarcane farmers especially to its SIDA Block Farms. For the project titled “Accelerated Technology Transfer Program” as per approved GAA 2016 Re-budgeted to FY 2022 and with the amendments of Project Procurement Management Plan from PPE – Personal Protective Equipment, Food Packs and Hygiene Kits to various supplies and materials for the mass production of beneficial micro-organism for the establishment of BMO Production sites to qualified block farms, planters associations, SUC’s, ARBO’s, LGU’s and MDDC’s to different milling districts in the Visayas.

Beneficial Micro-Organism or commonly known as BMO, a sugarcane specific, molasses-based nitrogen fixing foliar fertilizers is one of SRA’s technology in sugarcane farming. Due to the increasing prices of chemical fertilizers the BMO can reduce nitrogen demand by at least 25 to 30 % of chemical fertilizers.

Currently, SRA- LGAREC is the only production site which accommodate bulk requests and numerous reservations. Thus, to augment and to cater all the requests Extension Services Division – Visayas will established Mass Production and Distribution of BMO to different milling districts funded by the Sugarcane Industry Development Act (SIDA).

SUPPLIES AND MATERIALS FOR BMO PRODUCTION SITES:

Table below are the lists supplies and materials that will be distributed to 200 productions sites of different milling districts in the Visayas.

| DESCRIPTION | UNIT COST | QUANTITY/SIZE | | AMOUNT |
|-------------------------------------|-----------|---------------|----|---------------------|
| BMO Production: | | | | |
| Plastic Container, 100li, capacity | 2,000.00 | 800 | pc | 1,600,000.00 |
| Plastic Container, 20li, capacity | 180.00 | 4400 | pc | 792,000.00 |
| Plastic Container, 6li, capacity | 60.00 | 3400 | pc | 204,000.00 |
| Graduated Cylinders, 100ml capacity | 200.00 | 410 | pc | 82,000.00 |
| Weighing Scale, 500g capacity | 150.00 | 210 | pc | 31,500.00 |
| Knapsack Sprayer, plastic | 1,500.00 | 205 | pc | 307,500.00 |
| TOTAL | | | | 3,017,000.00 |

TRAINING ON BMO PRODUCTION:

Trainer's training on BMO Production was conducted last July 7, 2022 with resource speakers from Research and Laboratory Division headed by **ATTY. IGNACIO S. SANTILLANA**, Deputy Administrator II for RDE and OIC, Office of the Administrator, **MS. MA. LOURDES I. DORMIDO**, OIC, Manager III and **MS. MA. THERESA D. ALEJANDRINO**, SRS II of PTCM Unit, it will be attended by MDO/APP's, Agriculturists and Block Farm Personnel.

On-site trainings to block farms and selected planter's associations, SUC's, ARBO's, LGU's and MDDC's was simultaneously conducted to **29** sites/locations and attended by **1196** participants. The training includes the Organic Farming, Uses and Importance of BMO and the actual demonstration on how to prepare BMO, where different block farm members, planter's associations, SUC's, MDDC's and LGU's were trained on how to produce the so called BMO or the Beneficial Micro-Organism.

Table below are the list of BMO Trainings conducted by Extension Services Division through the Accelerated Technology Transfer Program,

BMO Training (On-site Training for BMO Mass Production)

| Mill District | No. | Trainings | Date Conducted | Number of Participants |
|---------------|-----|---|------------------|------------------------|
| SRA LGAREC | 1 | Training of Trainors on BMO Production at Balay OPSI | July 7, 2022 | 72 |
| LA CARLOTA | 2 | Training on BMO production for Block farm at Brgy. Robles, La Castellana | July 12, 2022 | 40 |
| LA CARLOTA | 3 | Training on BMO production for Block farm at Brgy. RSB, La Carlota City | July 13, 2022 | 43 |
| BISCOM | 4 | Training on BMO production for Block Farm, associations, private planters at Had. Nalipay Brgy 5, Isabela | July 14-15, 2022 | 90 |
| MA-AO | 5 | Training on BMO production for Block farms at Brgy. Ma-ao, Bago City | July 12, 2022 | 36 |
| MA-AO | 6 | Training on BMO production for associations/MDDC | July 13, 2022 | 42 |
| MA-AO | 7 | Training on BMO production at Don Jorge Araneta Agrarian Refrom Beneficiaries Assn | July 22, 2022 | 70 |
| SONEDCO | 8 | Training on BMO production for Block farms at Brgy. Pinggot, Ilog | July 19, 2022 | 60 |
| | 9 | Training on BMO production for Planters associations/SUC/Sugar Mill at Brgy. 1, Kabankalan City | July 20, 2022 | 42 |
| | 10 | Training on BMO production for SONEDCO MDDC/ARB Associations at Brgy. 1, Kabankalan City | July 21, 2022 | 45 |

| | | | | |
|-----------------|----|---|------------------|-------------|
| BAIS-URSUMCO | 11 | Training on BMO production for Block Farms at Vista Real Mabinay, Negros Oriental | July 19, 2022 | 69 |
| | 12 | Training on BMO production for Block Farms at AABT Compound, Calasga-an, Bais City | July 20, 2022 | 35 |
| TOLONG | 13 | Training on BMO production for Block Farms at Tompuco Function Hall, Brgy. Villareal, Bayawan City | July 21, 2022 | 22 |
| | 14 | Training on BMO production for private planters at Tompuco Function Hall, Brgy. Villareal, Bayawan City | July 22, 2022 | 33 |
| FF/BACMUR | 15 | Training on BMO production for Block Farms at C-PRIME Farmers Hall, Brgy. Salvacion, Murcia | July 18, 2022 | 30 |
| FF/BACMUR | 16 | Training on BMO production for MDDC and other associations. | July 19, 2022 | 42 |
| HPCO | 17 | Training on BMO production for Block Farms at Brgy. Pasil, EB Magalona | July 19, 2022 | 18 |
| | 18 | Training on BMO production for private planters at Brgy. Hawaiian, Silay City | July 20, 2022 | 52 |
| VICTORIAS | 19 | Training on BMO production for Block Farms at Centro San Pablo, Victorias City | July 20, 2022 | 48 |
| | 20 | Training on BMO production for Block Farms at Centro San Pablo, Victorias City | July 21, 2022 | 42 |
| LOPEZ/SAGAY | 21 | Training on BMO production for Block Farms at Brgy. Cabahug, Cadiz City | July 21, 2022 | 39 |
| | 22 | Training on BMO production for private planters/associations at rgy. Cabahug, Cadiz City | July 22, 2022 | 42 |
| SAN CARLOS | 23 | Training on BMO production for Block Farms at San Carlos Mill District Office | July 27, 2022 | 53 |
| | 24 | Training on BMO production for Block Farms at San Carlos Mill District Office | July 28, 2022 | 42 |
| CAPIZ | 25 | Training on BMO production for Block farm, associations, private planters/MDDC/SUC | July 22, 2022 | 15 |
| ILOILO | 26 | Training on BMO production for Block farm, associations, private planters/MDDC/SUC | July 20-21, 2022 | 24 |
| BOGO - MEDELLIN | 27 | Training on BMO production for Block Farms at BMSPAI Function Hall Bomedco Compound, Brgy. Luya-a, Medellin, Cebu | July 26, 2022 | 30 |
| | 28 | Training on BMO production for Block farm, associations, private planters/MDDC at BMSPAI Function Hall Bomedco Compound, Brgy. Luya-a, Medellin, Cebu | July 27, 2022 | 31 |
| ORMOC-HISUMCO | 29 | Training on BMO production for Block Farms at Brgy. San Pablo, Ormoc City | July 20, 2022 | 28 |
| | 30 | Training on BMO production for Block farm, associations, private planters/MDDC at Brgy. San Pablo, Ormoc City | July 21, 2022 | 33 |
| TOTAL | | | | 1268 |

Graduated Cylinders and Digital Weighing Scales was delivered last second week of December 2022 as per **PO No. 2022-08-386** amounting to **Php190,748.00**. While request for plastic containers were already process and RBAC is waiting for the signed Notice to Proceed. Delivery of the said request will be done on upon approval of the NTP and processing of required documents.

DOCUMENTATIONS:

CONDUCT OF BMO TRAININGS





Delivered Digital Weighing Scale and Graduated Cylinders (plastic) materials to be used in the establishment of BMO



IX. QUICK RESPONSE TO SUGARCANE PESTS AND DISEASES INFESTATIONS JANUARY – DECEMBER 2022

One of the proponent of the Sugarcane Industry Development Act of 2015 is the RD & E Projects, under this proponent is the provision of chemicals for the Quick Response to Sugarcane Pests & Diseases Infestations to different Mill District Development Councils in the Visayas.

The Sugar Regulatory Administration through the SIDA RD & E Projects implements its Quick Response to Sugarcane Pests & Diseases Infestations through purchasing of chemicals for distribution to different MDDCs/Planters Associations and Block Farms in the Visayas.

The first batch of delivery of the requested chemicals was charged to SIDA RDE Re-budgeted to FY 2021 was done last March 4, 2022 as per PO No. 2021-10-330, by Model Agro Sales amounting to Php2,654,600.00 at the Extension Services Division Office – Visayas, SRA – LGAREC.

| Quantity | Chemicals |
|------------|---|
| 600 kilos | Ratbait powder, <i>Coumatetralyl, Racumin</i> |
| 600 kilos | Ratbait blocks, <i>Flocoumafen, Storm</i> |
| 500 litres | Pesticides, <i>Chlorpyrifos</i> |
| 250 bag | Pesticides, <i>Carbufuran, Furamax 3G</i> |
| 350 bottle | Pesticides, <i>Chlorantraniliprole, Prevathon 5SC</i> |

CHEMICAL ALLOCATIONS PER MILL DISTRICT (PO NO. 2021-10-330)

| Mill District | Area | Allocation by Mill District (%) | Quantity per Pesticide | | | | | TOTAL | Price per Pesticide | | | | | TOTAL |
|---------------------|---------------------|---------------------------------|------------------------|------------|----------------|-------------------|---------------------|--------------|---------------------|-------------------|-------------------|------------------|-------------------|---------------------|
| | | | Racumin (kg) | Storm (kg) | Dage 30 EC (L) | Furamax 3G (bags) | Prevathon (bottles) | | Racumin | Storm | Dage 30 EC | Furamax 3G | Prevathon | |
| | | | ₱1,287.00 | ₱1,599.00 | ₱598.00 | ₱130.00 | ₱1,690.00 | | | | | | | |
| LA CARLOTA | 18,568.2900 | 7 | 42 | 42 | 35 | 17 | 24 | 160 | 54,054.00 | 67,158.00 | 20,930.00 | 2,210.00 | 40,560.00 | 184,912.00 |
| MA-AO | 11,965.3700 | 4 | 24 | 24 | 20 | 10 | 14 | 92 | 30,888.00 | 38,376.00 | 11,960.00 | 1,300.00 | 23,660.00 | 106,184.00 |
| BACMUR/FFHC | 20,390.0000 | 7 | 42 | 42 | 35 | 17 | 24 | 160 | 54,054.00 | 67,158.00 | 20,930.00 | 2,210.00 | 40,560.00 | 184,912.00 |
| HPCO | 13,085.0000 | 5 | 30 | 30 | 25 | 12 | 17 | 114 | 38,610.00 | 47,970.00 | 14,950.00 | 1,560.00 | 28,730.00 | 131,820.00 |
| VICTORIAS | 29,737.0000 | 11 | 66 | 66 | 55 | 27 | 38 | 252 | 84,942.00 | 105,534.00 | 32,890.00 | 3,510.00 | 64,220.00 | 291,096.00 |
| LOPEZ | 14,545.9100 | 5 | 30 | 30 | 25 | 12 | 17 | 114 | 38,610.00 | 47,970.00 | 14,950.00 | 1,560.00 | 28,730.00 | 131,820.00 |
| SAGAY | 16,528.9800 | 6 | 36 | 36 | 30 | 15 | 21 | 138 | 46,332.00 | 57,564.00 | 17,940.00 | 1,950.00 | 35,490.00 | 159,276.00 |
| SAN CARLOS | 12,745.6900 | 5 | 30 | 30 | 25 | 12 | 17 | 114 | 38,610.00 | 47,970.00 | 14,950.00 | 1,560.00 | 28,730.00 | 131,820.00 |
| BISCOM | 30,278.4300 | 11 | 66 | 66 | 55 | 27 | 38 | 252 | 84,942.00 | 105,534.00 | 32,890.00 | 3,510.00 | 64,220.00 | 291,096.00 |
| SONEDCO/DACONGCOGON | 26,151.0000 | 9 | 54 | 54 | 45 | 22 | 32 | 207 | 69,498.00 | 86,346.00 | 26,910.00 | 2,860.00 | 54,080.00 | 239,694.00 |
| TOLONG | 13,068.0000 | 5 | 30 | 30 | 25 | 12 | 17 | 114 | 38,610.00 | 47,970.00 | 14,950.00 | 1,560.00 | 28,730.00 | 131,820.00 |
| BAIS-URSUMCO | 26,800.0000 | 10 | 60 | 60 | 50 | 25 | 35 | 230 | 77,220.00 | 95,940.00 | 29,900.00 | 3,250.00 | 59,150.00 | 265,460.00 |
| ILOILO | 20,440.0000 | 7 | 42 | 42 | 35 | 17 | 24 | 160 | 54,054.00 | 67,158.00 | 20,930.00 | 2,210.00 | 40,560.00 | 184,912.00 |
| CAPIZ | 11,885.0000 | 4 | 24 | 24 | 20 | 10 | 14 | 92 | 30,888.00 | 38,376.00 | 11,960.00 | 1,300.00 | 23,660.00 | 106,184.00 |
| BOGO-MEDELLIN | 5,090.0000 | 2 | 12 | 12 | 10 | 7 | 9 | 50 | 15,444.00 | 19,188.00 | 5,980.00 | 910.00 | 15,210.00 | 56,732.00 |
| ORMOC-HISUMCO | 6,000.0000 | 2 | 12 | 12 | 10 | 8 | 9 | 51.00 | 15,444.00 | 19,188.00 | 5,980.00 | 1,040.00 | 15,210.00 | 56,862.00 |
| TOTAL: | 277,278.6700 | 100 | 600 | 600 | 500 | 250 | 350 | 2,300 | 772,200.00 | 959,400.00 | 299,000.00 | 32,500.00 | 591,500.00 | 2,654,600.00 |

Second batch delivery of chemicals charged to SIDA RDE Re-budgeted to FY 2022 was done last **December 9, 2022** by Model Agro Sales as per **PO No. 2022-11-570** amounting to **Php2,570,798.00** at Extension Services Division – SRA LGAREC.

| Quantity | Chemicals |
|-------------|---|
| 1,520 kilos | Ratbait, blocks, <i>Flocoumafen</i> |
| 500 kilos | Pesticides, liquid, <i>Chlorphyrifus</i> |
| 350 kilos | Pesticides, liquid, <i>Carbufuran</i> |
| 400 bot | Pesticides, liquid, <i>Chlorantaniliprole</i> |

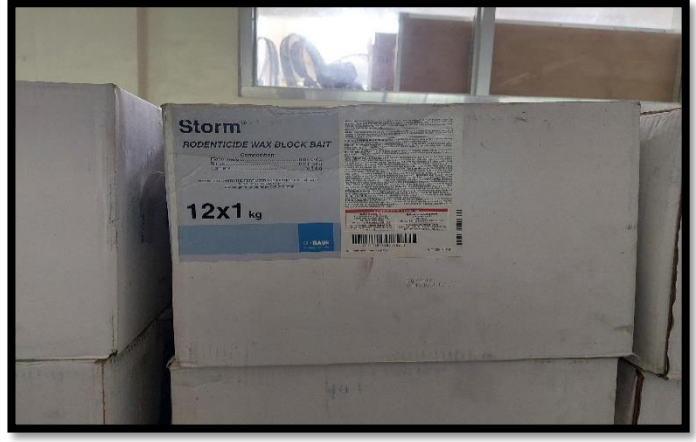
CHEMICAL ALLOCATIONS PER MILL DISTRICT (PO NO. 2021-10-330)

| Mill District | Area | Allocation by Mill District (%) | Quantity per Pesticide | | | | TOTAL | Price per Pesticide | | | | TOTAL |
|---------------------|---------------------|---------------------------------|------------------------|------------|------------|------------|--------------|---------------------|-------------------|------------------|-------------------|---------------------|
| | | | Storm | Dage | Leadforce | Prevathon | | Storm | Dage | Leadforce | Prevathon | |
| | | | (kg) | (kg) | (kg) | (bottles) | | ₱1,062.50 | ₱510.00 | ₱112.28 | ₱1,653.75 | |
| LA CARLOTA | 18,568.2900 | 7 | 106 | 35 | 24 | 28 | 193 | 112,625.00 | 17,850.00 | 2,694.72 | 46,305.00 | 179,474.72 |
| MA-AO | 11,965.3700 | 4 | 60 | 20 | 14 | 16 | 110 | 63,750.00 | 10,200.00 | 1,571.92 | 26,460.00 | 101,981.92 |
| BACMUR/FFHC | 20,390.0000 | 7 | 106 | 35 | 24 | 28 | 193 | 112,625.00 | 17,850.00 | 2,694.72 | 46,305.00 | 179,474.72 |
| HPCO | 13,085.0000 | 5 | 76 | 25 | 17 | 20 | 138 | 80,750.00 | 12,750.00 | 1,908.76 | 33,075.00 | 128,483.76 |
| VICTORIAS | 29,737.0000 | 11 | 167 | 55 | 38 | 44 | 304 | 177,437.50 | 28,050.00 | 4,266.64 | 72,765.00 | 282,519.14 |
| LOPEZ | 14,545.9100 | 5 | 76 | 25 | 17 | 20 | 138 | 80,750.00 | 12,750.00 | 1,908.76 | 33,075.00 | 128,483.76 |
| SAGAY | 16,528.9800 | 6 | 90 | 30 | 21 | 24 | 165 | 95,625.00 | 15,300.00 | 2,357.88 | 39,690.00 | 152,972.88 |
| SAN CARLOS | 12,745.6900 | 5 | 76 | 25 | 17 | 20 | 138 | 80,750.00 | 12,750.00 | 1,908.76 | 33,075.00 | 128,483.76 |
| BISCOM | 30,278.4300 | 11 | 167 | 55 | 38 | 44 | 304 | 177,437.50 | 28,050.00 | 4,266.64 | 72,765.00 | 282,519.14 |
| SONEDCO/DACONGCOGON | 26,151.0000 | 9 | 136 | 45 | 32 | 36 | 249 | 144,500.00 | 22,950.00 | 3,592.96 | 59,535.00 | 230,577.96 |
| TOLONG | 13,068.0000 | 5 | 76 | 25 | 17 | 20 | 138 | 80,750.00 | 12,750.00 | 1,908.76 | 33,075.00 | 128,483.76 |
| BAIS-URSUMCO | 26,800.0000 | 10 | 152 | 50 | 35 | 40 | 277 | 161,500.00 | 25,500.00 | 3,929.80 | 66,150.00 | 257,079.80 |
| ILOILO | 20,440.0000 | 7 | 106 | 35 | 24 | 28 | 193 | 112,625.00 | 17,850.00 | 2,694.72 | 46,305.00 | 179,474.72 |
| CAPIZ | 11,885.0000 | 4 | 60 | 20 | 14 | 16 | 110 | 63,750.00 | 10,200.00 | 1,571.92 | 26,460.00 | 101,981.92 |
| BOGO-MEDELLIN | 5,090.0000 | 2 | 33 | 10 | 9 | 8 | 60 | 35,062.50 | 5,100.00 | 1,010.52 | 13,230.00 | 54,403.02 |
| ORMOC-HISUMCO | 6,000.0000 | 2 | 33 | 10 | 9 | 8 | 60.00 | 35,062.50 | 5,100.00 | 1,010.52 | 13,230.00 | 54,403.02 |
| TOTAL: | 277,278.6700 | 100 | 1520 | 500 | 350 | 400 | 2,770 | 1,615,000.00 | 255,000.00 | 39,298.00 | 661,500.00 | 2,570,798.00 |

Total budget allocated for the Quick Response to Sugarcane Pests and Diseases Infestations amounting to **Php 5,225,398.00**. Chemicals will be distributed to different mill district offices for distribution to sugarcane farmers/clientele of the said districts. Chemical allocations based on the actual area planted with sugarcane. Distribution will be scheduled on January 2023 upon approval of the Memorandum of Agreement between Sugar Regulatory Administration and MDDC's.

DOCUMENTATIONS:

CHEMICALS DELIVERED LAST DECEMBER 9, 2022 as per PO No. 2022- 0 8-398:



CHEMICALS DELIVERED LAST MARCH 4, 2022 as per PO No. 2021-10-330:



X. Water Management and Irrigation of Sugarcane Farms (Block Farm Beneficiaries)

It has always been a great challenge in the Philippine Sugarcane Industry on how to improve and increase farm productivity. Different strategies and projects have been implemented to alleviate such problems. Through the Sugar Industry Development Act of 2015, the effort of reaching the goal of increasing farm productivity is almost at hand. From year 2020 up to present, amidst the threat of pandemic, SRA has developed strategies to help the farmers. Through the priority project funded by the SRA corporate budget, a total of **Php 2,800,000.00** was allotted for the Water Management and Irrigation of Sugarcane Farms in the Visayas.

A total of **54 block farms** beneficiaries were identified after a thorough validation and on-site inspection of available water source to benefit such project. This is to ensure that the irrigation facility to be given shall benefit the farmers to maximize its purpose.

Sets of rain gun irrigation system with complete accessories will be given to the 54 block farm beneficiaries in the different mill districts in the Visayas. To date, **fifty (54) sets of Rain Gun Irrigation System** was already distributed to different block farms in the Visayas. Distribution of Rain Gun was accomplished as of 1st quarter of 2022, with total service area of **658.00 hectares**.

To achieve the goal set for the farmers, dedication and commitment is encouraged. The urge to help the farmers irrigate their lands is what gives impact in uplifting the sugarcane industry from low farm productivity. Water has always been an essential component for efficient farm production and through the rain gun irrigation system, installation of appropriate irrigation facility among farmers can be done for a sustainable sugarcane industry.

For SIDA GAA 2022, Water Management and Irrigation Validation were also accomplished as of December 2022. Out of 20 Block Farms for SIDA GAA 2022 19 block farms were validated and identify water sources (See tables below).

| | MILL DISTRICT | NAME OF ASSOCIATION | SOURCE OF WATER | COORDINATES | Elevation of Water Source to Nursery |
|---|--------------------|--|-----------------|---|--------------------------------------|
| 1 | Bais Mill District | Bugnay Farm Family Association | River | N 09°43.128' E 122°53.350' | 5m |
| 2 | Mao Mill District | Mercedes Farmers Irrigators Association Inc. | Creek | Latitude : 10.481478 Longitude : 123.027767 | 15m |
| 3 | Sonedco | Mahayag Small Farmers Association | Creek | Latitude : 9.9343929 Longitude : 122.7375022 | 5m |
| 4 | Sonedco | Locotan Banman Sugarcane Farmers Association | Creek | N 09°42'45.29" E 122°45'10.84" | 6m |
| 5 | Sonedco | Malabago Diversified Farmers Association | Creek | N 09°46'38.63" E 122°51'09.97" | 2m |
| 6 | La Carlota | Cabungbungan Lingahob Farmers Association | River | N 10°1022'56.74" E 123°04'53.17" | 15m |
| 7 | La Carlota | Had. Ahgo Camandag | River | N 10°19'29.16" E | 5m |

| | | | | | |
|----|-----------------------------------|---|-------------------|-----------------------------------|-----|
| | | Agrarian Reform Beneficiaries Association | | 123°03'15.17" | |
| 8 | Biscom | Mangahoy Kahoy Farmers Association | Creek | N 10°07'25.85" E 123°00'05.49" | 3m |
| 9 | Biscom | Pilar Agrarian Reform Beneficiaries Association | Shallow Tube Well | N 10°14'51.55" E 122°52'28.71" | 1m |
| 10 | Tolong | Villasol Small Sugarcane Farmers Association | Creek | N 09°36'04.49" E 122°46'22.97" | 5m |
| 11 | HPCO | Nacayao Small Farmers Association | Creek | N 10°45'59.60" E 123°07'39.76" | 15m |
| 12 | Victorias | Cot-Cot Upland Farmer and Farm Workwers Association | River | N 10°50'52.40" E 123°16'34.34" | 3m |
| 13 | Victorias | Myrienne Farmers Development Association | Creek | N 10°52'38.83" E 123°09'34.88" | 3m |
| 14 | Lopez | Caridad Delapaz Agrarian Reform Beneficiaries Association | Shallow Tube Well | N 10°53'00.60" E 123°26'53.90" | 1m |
| 15 | Sagay Danao | Kilusang Pagbabago Minatuk Upland Farmers Association | Creek | N 10°41'00.88" E 123°21'30.10" | 3m |
| 16 | | Paghidaet sa Kalamboan | Shallow Tube Well | N 10°43'08.67" E 123°21'39.10" | 1m |
| 17 | Ilollo | Agutayan Cubay Agrarian Reform Cooperative | Creek | 11.08319°N 122.71444° E | 2m |
| | | | River | 11.08397°N 122.71153° E | 3m |
| 18 | San Carlos | Barangay Quezon Agrarian Reform Beneficiaries Association | Creek | N 10°26'19.33" E 123°15'28.85" | 2m |
| 19 | | Barangay Macasilao Integrated Small Farmers Association | River | N 10°40'30.61" E 123°25'37.59" | 5m |
| | N 10°40'34.30" E 123°25'25.98" | | | 5m | |

DOCUMENTATIONS

Farm to Mill Road Project



IMG 1 - Prk 4. Juaton to Sitio Guinowan, Dolores, Ormoc City, Completed



IMG 2 - Brgy. Donghol to Brgy. Mahayag, Ormoc City, Ongoing

Trainings and Seminar



IMG 3 - OPSI Sugarcane Farm Management Seminar, Nov 16-17, 2022

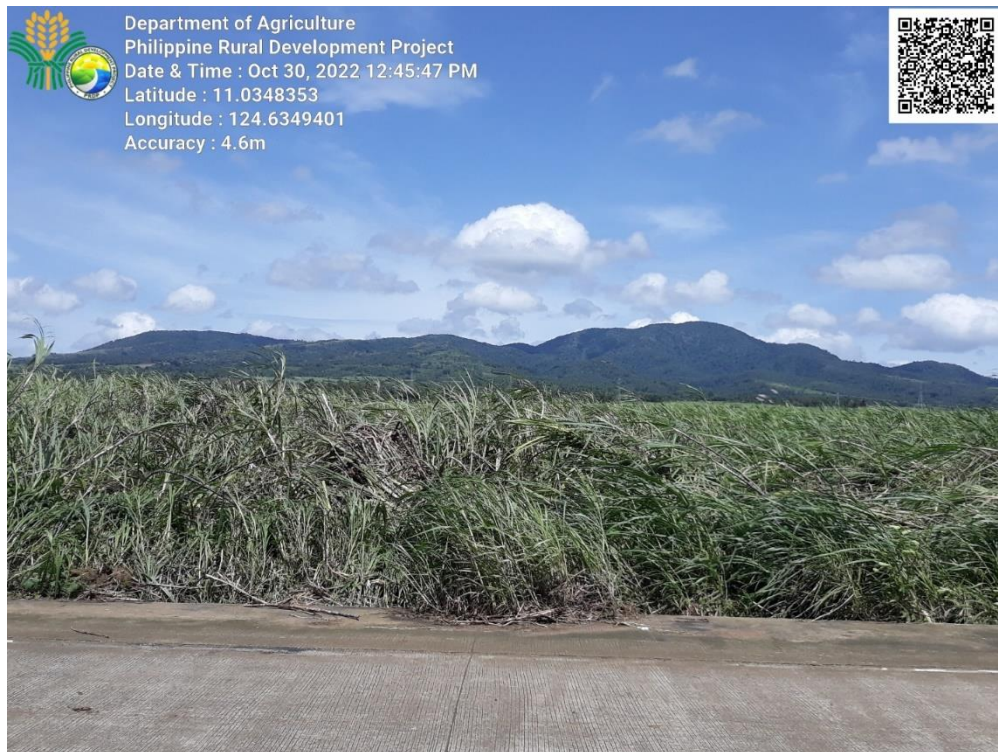


IMG 4 - BMO Training



IMG 5 - BMO Training in Myrienne Farmers Development Assn. on July 21, 2022

Crop Estimate



IMG 6 - Crop Damage Assessment, Typhoon Paen

Farm Mechanization



IMG 7 - Farm Mechanization Survey



IMG 8 – Tractor delivery at MYFDA Block Farm on Nov. 22, 2022

SIDA Programs



IMG 9 - Block Farm Orientation at Salome Farmers Assn. for GAA 2024 on Aug. 4, 2022



IMG 10 - Block Farm Orientation at Bagong Integrated Farmers Assn. for GAA 2024 on Aug. 24, 2022,



IMG 11 - GPS field survey of the MYFDA Block Farm on March 21, 2022



IMG 12 - GPS field survey of the Bagong Integrated Farmers Assn. for GAA 2024 on Nov. 11, 2022



IMG 13 - Soil Sampling at MYFDA Block Farm on Aug. 19, 2022



IMG 14 - Soil sampling at QUEUFA Block Farm on Nov. 24, 2022



IMG 15 - Food House Proj. at CSFA Block Farm, Farm Monitoring

Priority Projects



IMG 16 - Maria Cadiz of ASSFF beneficiary, Farm Monitoring



IMG 17 - Norma Arante of ASSFF beneficiary, Farm Monitoring



IMG 18 - Leyte Cane Planters Association of Rapid Propagation of HYV Proj., Farm Monitoring



IMG 19 - Ormoc-Kananga MDDC FI of Rapid Propagation of HYV Proj., Farm Monitoring



Delivery of 1-unit 90HP New Holland Farm Tractor to Pilar Agrarian Reform Beneficiaries Association (Top Picture) at Purok Silverio, Brgy. Pilar, Hinigaran and another 1-unit to Mangahoycahoy Farmers Association (MAFA), Sitio Mangahoycahoy, Brgy. Santol, Binalbagan Neg. Occ.



Delivery of 1-unit John Deere tractor with compatible whole-stalk cutter to Christian Farmers Association of Samac (CFAS) Block Farm located in Bry. Samac, Mabinay Negros Oriental last October 20, 2022.



Delivery of New Holland tractor last November 18, 2022 for LUCBAN-SFA Blockfarm located in Barangay Locotan, Kabankalan City Negros Occidental



Delivery of Farm Implements; Unit Heavy Duty of Moldboard Plough, Furrower and Hydraulic Harrow on November 02, 2022 at So. Calagmacan, Barangay Camindangan, Sipalay City Negros Occidental for Cluster block farms GAA -2017 BCARBAS/ BTARBA/GMIPMA



Delivery of New Holland tractor last November 18, 2022 for LUCBAN-SFA Blockfarm located in Barangay Locotan, Kabankalan City Negros Occidental

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