



Office of the Production Services (OPS)

Annual Accomplishment Report for 2025

The Southern Luzon State University - Office of Production Services (OPS) is steadfast in its commitment to promoting innovation, sustainability, and productivity within the university and the wider community. Over the past year, the OPS has played a pivotal role in bridging academic excellence with practical applications through the development and distribution of research-based and agricultural products. This annual report highlights the achievements, initiatives, and impact of the OPS, showcasing how its efforts align with the university's mission to foster economic growth and community development. From product innovation to capacity-building activities, the OPS continues to be a cornerstone of progress and resilience, addressing societal needs while championing the principles of quality and service.

I. Projects under the Office of Production Services

A. Sanitation Facility

The SLSU Sanitation Facility was established as part of the university's mission to promote hygiene and sustainability through innovative research and production. The initiative began with studies on kamias soap formulation in 2005, driven by the need for an effective cleansing product suited for farmers and the local community. Over the years, the project expanded to include the production of ethyl alcohol, particularly in response to the COVID-19 pandemic. With a Php 5,000,000 grant in 2020, the facility was equipped with state-of-the-art machinery, followed by a Php 1,000,000 renovation budget to house the production line. Officially inaugurated on March 29, 2023, the sanitation facility is strategically located at the SLSU College of Agriculture in Brgy. Ayuti, Lucban, Quezon. It serves as a hub for research-based sanitation product development while strengthening collaborations with local farmers and the wider community.

I. K-Soap Production

Month	No. Produced	Activity Status	Remarks
January	870	Standard production	Included a failed batch with immersion students
February	0	(No production recorded)	Focused on alcohol production and packaging soaps produced in January
March	291	Standard production	
April	490	Standard production	
May	0	(No production recorded)	Focused on packaging soaps
June	0	(No production recorded)	Focused on alcohol production
July	403	Standard production	Included a failed trial experiment for lowering soap pH (1/2 batch).
August	0	(No production recorded)	Focused on alcohol production
September	69	Lowest production	Production related to lowering pH
October	0	(No production recorded)	Focused on alcohol production
November	366	Standard production	Included a failed batch with immersion students.
December			
TOTAL	2,489 bars		



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• Specific Batches:

- o Production in February was explicitly designated for **Sanitation health kits**.
- o A trial was conducted in February using **orange oil as fragrance**.

B. Mt. Banahaw Forest Protection and Conservation Unit

The Mt. Banahaw Forest Protection and Conservation Unit has made significant strides in forest protection through active patrolling, community engagement, and participation in critical meetings. Continued efforts are essential to maintain the integrity of the protected areas and promote sustainable environmental practices.

I. Operations and Enforcement Data

The unit successfully achieved 100% completion on all major regular field activities, conducting essential patrols, monitoring, and maintenance across the protected area and Botanical Garden.

Activity Category	Target Annual Frequency (Estimate)	Actual Annual Frequency (Estimate)	Completion Status
General Patrolling/Monitoring (MBDL Protected Area)	156 times	188 times	120% — Exceeded Target
Botanical Garden Maintenance (Cleaning and Weeding)	64 times	80 times	125% — Exceeded Target
Reforestation Area Monitoring (Weeding and Inspection)	32 times	48 times	150% — Exceeded Target

Analytical Data: Enforcement and Wildlife

Category	Key Accomplishments/Findings
Illegal Activity	2 illegal hunting incidents reported and addressed in Q1, resulting in the collection of 5 pig traps.
Wildlife Conservation	2 wildlife species (Philippine Pond Turtle and Philippine Serpent Eagle) were successfully rescued, examined, and released back into the wild.

II. Reforestation and Seedling Preparation

The unit played a crucial role in facilitating community and inter-agency reforestation efforts, alongside its internal seedling preparation program.

Tree Planting Activities (Quantified Seedlings)

A total of at least 4,200 seedlings were successfully planted in coordinated activities with partner organizations:

Group/Organization	Date(s)	Location	Seedlings Planted (Quantified)
SLSU Graduating Students (4 groups)	May 13-21, 2025	Samil, Majayjay	2,400 seedlings
Inter-Agency Tree Growing	May 27, 2025	Botanical Garden	1,200 seedlings (Yakal Kaliot)
DPWH	April 23, 2025	Botanical Garden	500 seedlings



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Gintong Kalinga	April 12, 2025	Brgy. Samil, Majayjay	100 seedlings
Total Quantified Seedlings			4,200

Note: Additional, non-quantified tree planting activities were conducted by the 4K Lucban Federation and Casa Lucban students during Q1.

Visitor Assistance and Research Support

The MBFPCU Forest Rangers provided extensive logistical and research support, facilitating numerous activities for students, researchers, government staff, and community partners throughout the year.

Specific instances of assistance provided include:

- **Research Facilitation**
 1. Assisted researchers in multiple sessions (January 30 to February 1, February 14-16, and February 22-24, 2025) who were studying the stick and leaf insect.
 2. Guided researchers at the Samil area on March 2, 2025.
 3. Assisted Dr. Mae Carpio and two students from De la Salle at the Manlit area on March 8, 2025.
- **Reforestation and Technical Support**
 1. Provided support to the 4K Lucban Federation for their tree planting activity on January 6, 2025.
 2. Assisted Dr. Beltran and BS Forestry students in the technical work of re-potting seedlings with different treatments on February 28, 2025.
 3. Guided Ms. Trixie and her company to the high-altitude areas (1300masl) up to the summit and landslide area for wildling tree planting on March 8-9, 2025.
 4. Assisted 107 students of Casa Lucban with their tree planting activities on March 15, 2025.
- **Maintenance and Infrastructure Support:**
 1. Assisted power saw operator in cutting fallen trees on January 29, 2025, to clear the area.
 2. Aided two electricians from GSO in changing lightings at the Bunkhouse and Pavilion on February 20, 2025.

Meetings and Consultations

The unit maintained a high-level of inter-agency coordination, participating in a minimum of **38 formal meetings** throughout the year. This included monthly internal meetings, as well as critical participation in the Regional Multi-Sectoral Forest Protection Committee (RMFPC) and various Protected Area Management Board (PAMB) meetings with (QPL, MBSCPL, BRWFR, and PMSFR).

Botanical Garden Incidental Income

Quarter	Total Income from Permits
Q1 (Jan - Mar)	₱2,175.00
Q2 (Apr - Jun)	₱3,375.00
Q4 (Partial)	₱1,550.00
Documented Annual Total	₱7,100.00



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C. Native Tree Clonal Nursery and Fruit Bearing Tree Project

The nursery at Southern Luzon State University - Upper Main Campus, located in Brgy. Ayuti, Lucban, Quezon, serves as a vital hub for cultivating various native and fruit-bearing trees essential for research, extension, and agroforestry initiatives. Among the notable species grown are guyabano, cacao, Liberica coffee, and marang, alongside other native like white lauan, molave, kamagong, katmon, and high-value fruit trees suited to the local climate. Situated in the cool, elevated landscape of Lucban, the nursery benefits from rich soil and consistent rainfall, providing an ideal environment for seed propagation and asexual reproduction techniques like grafting and cuttings. Established as part of SLSU's commitment to sustainable agriculture and biodiversity conservation, the nursery supports both academic endeavors and community-based projects aimed at enhancing local agroforestry practices.

I. Preparation and Maintenance Activities

The following key metrics were achieved in preparing the nursery facilities and maintaining the plant materials:

Activity	Metric	Unit
Potted Soils Prepared & Arranged	15,000	pots
Size of Maintained Hedge Garden Area	4,637	sq. m.
Number of Seedlings in Hedge Garden	1,774	seedlings
Size of Maintained Nursery Area	1,250	sq. m.
Rooting Media Sterilized	24	sacks

II. Analysis of the Accomplishments

a. Resource Preparation

A total of **15,000 pots** of soil were prepared and arranged. This substantial number provides the essential initial capacity for potting rooted cuttings from the hedge garden or transplanting young seedlings, indicating a strong readiness for a high-volume planting/propagation cycle.

Furthermore, **24 sacks of rooting media** were sterilized. Sterilization is a critical step in clonal propagation, as it helps prevent fungal diseases and pathogens that can compromise the success rate of rooting cuttings.

b. Nursery and Hedge Garden Maintenance

Hedge Garden: An area measuring **4,637 sq. m.** was maintained, housing **1,774 seedlings**. The hedge garden is crucial as it serves as the **source of mother plants** from which cuttings are taken for clonal propagation. Effective maintenance of this area ensures the health and vigor of the mother plants, which directly impacts the quality and rooting success of the cuttings.

General Nursery Area: The primary nursery area, measuring **1,250 sq. m.**, was also maintained. This space is vital for performing potting, hardening, and growth-monitoring activities for the newly propagated or transplanted trees.

D. Dwarf Coconut Demonstration Farm in Tayabas City Campus

By virtue of the Board Resolution No. 1218 dated December 2017, 50 hectares of land was granted to Southern Luzon State University Tayabas Campus. With the vast lands given, it was then provisioned that the lands be utilized. Therefore, with the initiative of the campus together with the assistance of the



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Philippine Coconut Authority, 5 hectares of land was dedicated for the Dwarf Coconut Demo Farm situated in the 5 hectares of land in the campus. Dwarf is a variety of coconut that is characterized by its short stature.

At present, the Demo Farm cultivates five (5) dwarf varieties namely Malayan Dwarf, Equatorial Green, Katigan, Tacunan and TAG x MRD. According to the Republic Act 11524 with the title "Coconut Farmers and Industry Farming", there is a need for planting, replanting, fertilization, and research and development of coconut trees. Likewise, training of farmers and families regarding the industry is also emphasized. Therefore, the coconuts that will be harvested from the Demo Farm will be the seedlings to be distributed for the replanting program.

1. Executive Summary

The project maintains a field inventory of **786** dwarf coconut trees and a nursery stock of **1,039** materials.

The **Catigan Green** variety is the most prevalent, dominating both the field's productive phase and the nursery stock.

Key Findings:

- **Field Production:** 374 trees are currently in the **Bearing Phase**.
- **Mortality Risk:** A total of 9 mortalities have been recorded, with **Malayan Yellow** being the most affected variety, accounting for 7 losses primarily due to pests.
- **Nursery Efficiency:** The nursery has 295 germinated seedlings out of 1,039 materials. However, the Catigan Green variety shows inconsistent germination rates, ranging from 8% to 47% across different batches.

2. Field Inventory Analysis (Planted Trees)

A. Total Inventory and Variety Distributions

The corrected total number of planted dwarf coconut trees is 786, which is the sum of all individual variety totals, despite the report listing the grand total as 813.

The **Catigan Green (CG)** variety makes up most of the plantation.

Variety	Total Quantity (pcs)	Percentage of Total	Reported Mortality
Catigan Green	395	50.3%	2 (pest & typhoon)
Equitorial Green	186	23.7%	0
Malayan Yellow	151	19.2%	7 (pest)
G3PH Tacunan	33	4.2%	0
Malayan Red	21	2.7%	0
GRAND TOTAL	786	100.0%	9

B. Maturity and Production Status

The plantation is heavily weighted towards production, with 374 trees in the Bearing Phase.

Phase	Total Quantity (pcs)	Key Variety in Phase
Bearing	374	Catigan Green (240 pcs)
Non-Bearing	207	Malayan Yellow (77 pcs)
Vegetative	163	Catigan Green (86 pcs)
Flowering	42	Malayan Yellow (16 pcs)



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II. Alcohol Production (1 Unit = 100 ml bottle)

The total number of alcohol units produced is **3,900 units**. Assuming each unit is a **100 ml bottle**, the total volume produced is **390.0 Liters**.

Month	No. Produced (100 ml Units)	Total Volume Produced (Liters)	Activity Status	Remarks
January	569	56.9 L	Standard production	
February	720	72.0 L	Standard production	Production for Sanitation health kits; Trial using orange oil as fragrance.
March	544	54.4 L	Standard production	
April	0	0.0 L	(No production recorded)	Focused on soap production
May	94	9.4 L	Standard production	
June	354	35.4 L	Standard production	
July	682	68.2 L	Standard production	
August	167	16.7 L	Standard production	
September	0	0.0 L	(No production recorded)	Focused on lowering of soaps' pH
October	277	27.7 L	Standard production	
November	493	49.3 L	Standard production	
December				
TOTAL	3,900	390.0 L		

Key Findings

The production activities for K-soap and Alcohol show distinct patterns in volume, stability, and focus on research and development.

1) K-Soap Production Findings

- **Total Output:** The total production for K-soap as of November 2025 is **2,489 units**.
- **Highest Volume Month:** January recorded the highest monthly output with **870 units** produced.
- **Heavy R&D Focus:** A significant portion of the recorded activity was dedicated to research and experimental trials:
 - **Quality Improvement:** Multiple attempts were made to lower the soap's pH level.
- **Internal Challenges:** Several failed batches were attributed to operational issues, including **late adding of components** (January) and **wrong timing of adding chemicals** (November).

2) Alcohol Production Findings

- **Total Output:** The total production for Alcohol as of November 2025 is **3,900 units**, equivalent to **390.0 Liters** (assuming 1 unit = 100 ml).
- **Highest Volume Month:** February recorded the highest monthly output with **720 units** produced.



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C. Mortality and Risk Assessment

The reported 9 mortalities indicate a critical pest control issue, particularly for the Malayan Yellow (MY) variety.

- Malayan Yellow (MY): Recorded 7 mortalities, all attributed to pest issues. This suggests a varietal susceptibility or specific localized infection that needs immediate intervention. The losses occurred in both Non-Bearing (5 pcs) and Bearing (2 pcs) trees.
- Catigan Green (CG): Recorded 2 mortalities, attributed to both pest and typhoon. This indicates exposure to both biological environmental risks.

3. Nursery Inventory Analysis (Seedlings/ Materials)

The nursery's main function is to support field planting and replacement, holding a total of 1,039 coconut materials.

A. Total Materials and Germination

Variety	Total Quantity (pcs)	Germinated (pcs)	Remarks
Catigan Green	835	241	≈ 28.8 % overall germination
Malayan Yellow	155	41	≈ 26.5 % overall germination
Equitorial Green	49	13	≈ 26.5 % overall germination
GRAND TOTAL	1,039	295	≈ 28.4 % overall germination

Key Data Points

- **Catigan Green (CG):**
 - This variety forms the largest stock in the nursery, with 835 materials.
 - It also has the highest number of successful seedlings, with 241 pieces germinated.
 - It has the best overall germination performance at approximately 28.8%.
- **Malayan Yellow (MY):**
 - This variety has 155 materials.
 - 41 pieces have germinated, yielding an approximate germination rate of 26.5%.
- **Equitorial Green (EG):**
 - This variety has the smallest inventory, with only 49 materials.
 - 13 pieces have germinated, which results in an approximate germination rate of 26.5%

Photos:



Additional Photos:

https://drive.google.com/drive/folders/1bey8DzcjtOLaEsLQOzHFnrUH7zaL9B3?usp=drive_link



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E. High-Value Crops Project

The High-Value Crops Project is strategically implemented in an environment, like Lucban, Quezon, which offers favorable conditions for cultivating high-value crops, such as lettuce and broccoli. These crops are chosen for their significant market value and their potent nutritional profiles.

The specific varieties cultivated, such as **Romaine lettuce**, are recognized for being packed with health benefits. Romaine is notably high in minerals, including calcium, phosphorus, magnesium, and potassium, while being naturally low in sodium. It is also a rich source of Vitamin C, Vitamin K, and folate, and provides beta carotene, which the body converts into Vitamin A.

The crops included in the 2025 production report are:

- **Lettuce**
- **Cucumber**
- **Tomato**
- **Upland Kangkong**

The project's goal is to leverage these advantageous local conditions to achieve the efficient and sustainable production of these highly nutritious and profitable crops, including those featured in the annual report.

Crop Production Summary

The table below summarizes the total production yield (in kilograms) for each crop across the months where harvests were recorded.

Month	Lettuce (kg)	Cucumber (kg)	Tomato (kg)	Upland Kangkong (kg)
January	4	3.25	0	0
February	1.25	0	0	0
March	16.5	51	0	0
April	0	0	0	0
May	1.75	30	25	20
June	1	11	10	0
July	0	0	0	41.4
August	0	0	0	0
September	0	50	0	10
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
TOTAL	24.5	145.25	35	71.4

Production Planting Overview

The crops were cultivated across three main areas: the **Hydroponics greenhouse** (Lettuce), the **Pot greenhouse** (Cucumber), and the **Plot open field area** (Tomato and Upland Kangkong).

A. Lettuce Production (Hydroponics Greenhouse)

- **Total Annual Yield:** 24.5 kg
- **Peak Production:** March (16.5 kg)
- **Planting/Operations Timeline:** October preparation in greenhouse operations, with November as the planting time.
- **Key Observations:** Production was recorded in January, February, March, May, and June. The October/November planting timeline suggests these yields likely resulted from plants put in place towards the end of the previous year or early in the current year, and then a subsequent planting in November 2025.

B. Cucumber Production (Pot Greenhouse)

- **Total Annual Yield:** 145.25 kg
- **Peak Production:** March (51 kg)



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- **Planting/Operations Timeline:** April planting time, with July, August, October, and November identified for preparation and planting.
 - **Key Observations:** Cucumber had the **highest overall annual yield**. The production periods in January and March precede the official April planting time, indicating a carry-over harvest from the previous season's crop. Subsequent harvests occurred in May, June, and September.
- C. Tomato and Upland Kangkong Production (Plot Open Field)**
- **Total Annual Yields:** Tomato (35 kg), Upland Kangkong (71.4 kg)
 - **Peak Production:**
 - **Tomato:** May (25 kg)
 - **Upland Kangkong:** July (41.4 kg)
 - **Planting/Operations Timeline:** The heavy rainstorm/typhoon hit months are January to April and October to December.
 - **Key Observations:**
 - Tomato harvests were recorded in May and June.
 - Upland Kangkong harvests were recorded in May, July, and September.
 - The open field crops are noted to be susceptible to heavy rainstorms/typhoons, which primarily hit during the early and late months of the year, potentially impacting operations, and yields.

Issues, Risks, and Corrective Actions

Operational and environmental challenges identified during the project include weather-related risks and internal resource issues.

- **Weather-Related Risks**

Issue/Risk	Description	Corrective Action
Heavy rainstorm/Typhoon (Open Field)	May result in nutrient loss and physical damage (tearing leaves, breaking stems, crops bending). Prolonged rain can also delay operations like weeding and fertilizing.	Used crop tolerance for rainy seasons or a crop calendar to proactively avoid yield losses.
Lack of Sunlight (Hydroponics Greenhouse)	Continuous rain and lack of sun exposure can delay the maturity growth stage of some lettuce plants.	Adjusted the nutrient solution in the submersible dewatering pump and storage to account for the slower nutrient uptake by the lettuce plants.

- **Water Supply Issue**

Issue/Risk	Description	Corrective Action
Insufficient water supply	The preparation of greenhouse units, especially the hydroponics system which requires significant water for sanitation, may interrupt operations and waste time.	Used drums to store water before operation for temporary unavailability, but acknowledged that continuous insufficient supply requires a proper, long-term action.

F. Conservation of Native Butterflies of Mt. Banahaw de Lucban Project

I. Key Achievements and Production



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- **Butterfly Nursery Size:** A butterfly nursery of **36 sq. m.** was created.
- **Trellis:** A trellis is to be established.
- **Total Butterflies Produced (Trials):** For the trials conducted from July to November 2025, approximately **500 individual butterflies** of two species were reared and released in the wild:
 - o *Hypolimnys bolina*
 - o *Papilio lowi*
- **Note on Target Production:** Butterfly production is officially targeted for **2026**.

II. Host Plant Utilization and Availability

Sourcing of host plant cuttings has commenced. The cuttings include:

- **10 pcs** *Calotropis*
- **10 pcs** *Aristolochia*
- **15 pcs** *Parsonia*
- **20 pcs** *Adenia*
- **25 pcs** *Fraxinus*
- **25 pcs** *Passiflora*

III. Environmental Condition Assessment

The project location, Lucban, Quezon, Philippines, experienced significant environmental challenges from July to November 2025.

- 1) **Weather Conditions:** The area faced considerable effects from **typhoons** that brought **heavy, torrential rainfall** and **strong winds**.
- 2) **Impact on Butterflies:** These conditions can greatly **impede** the butterflies' ability to:
 - a. Fly
 - b. Forage
 - c. Reproduce
 - d. Regulate their body temperature

IV. Issues, Risks, and Corrective Actions

Category	Issues and Risks	Corrective Actions
Butterfly Farming	The wet season and the timing of typhoons cause problems due to excessive moisture and high humidity , disrupting metamorphosis.	Provide adequate shelter in the enclosure for butterflies to hide during heavy rains.
	Increased probability of diseases .	Maintain hygiene within the rearing house to prevent the spread of diseases.
	Physical damage (wings) and disruptive behavior.	Consider producing butterflies only during the dry season .
Host Plants	Excessive rain can cause waterlogging that impacts plant survival.	Assess soil moisture regularly to adjust management practices and interventions.
		Improve drainage and fertilization .

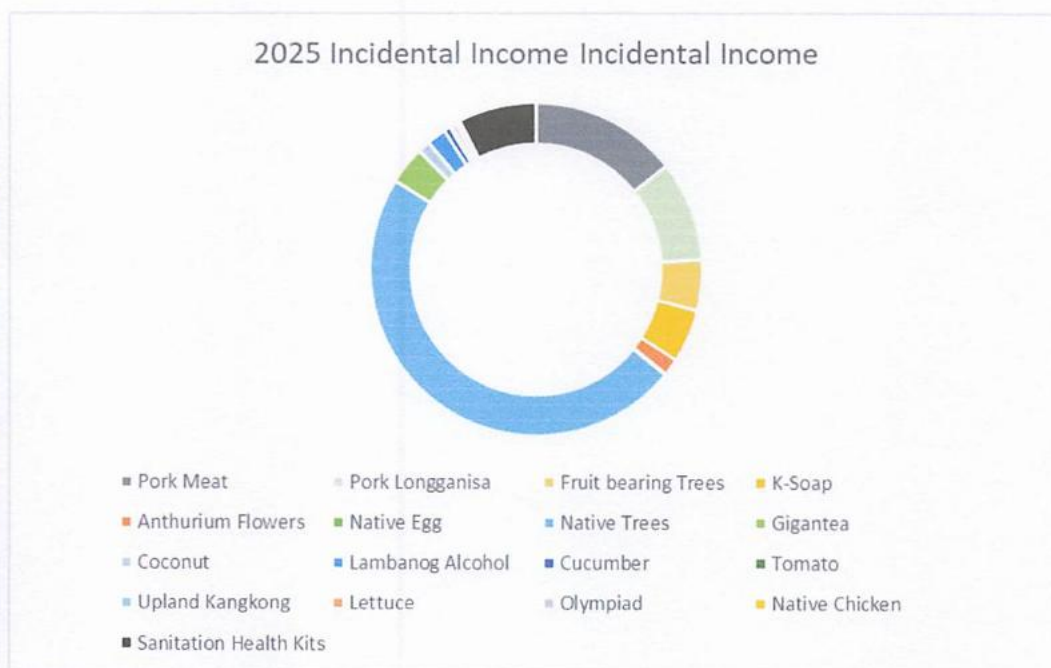
II. Incidental Income Report (As of November 25, 2025)

QUARTER 1		QUARTER 2		QUARTER 3		QUARTER 4	
Item	Incidental Income	Item	Incidental Income	Item	Incidental Income	Item	Incidental Income
Pork Meat	2,260.00	Pork Meat	31,790.00	Pork Meat	50,318.00	Pork Meat	76,060.00
Pork Longganisa	13,420.00	Pork Longganisa	57,000.00	Pork Longganisa	12,730.00	Pork Longganisa	26,220.00
Fruit bearing Trees	28,925.00	Fruit bearing Trees	5,500.00	Fruit bearing Trees	16,050.00	Fruit bearing Trees	4,400.00
K-Span	15,690.00	K-Span	17,955.00	K-Span	650.00	K-Span	23,550.00



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2025 Incidental Income	
Item	Incidental Income
Pork Meat	160,448.00
Pork Longganisa	109,370.00
Fruit bearing Trees	54,875.00
K-Soap	57,845.00
Anthurium Flowers	18,400.00
Native Egg	1,070.00
Native Trees	539,275.00
Gigantea	40,950.00
Coconut	13,300.00
Lambanog Alcohol	20,920.00
Cucumber	7,285.00
Tomato	1,050.00
Upland Kangkong	1,635.00
Lettuce	4,900.00
Olympiad	3,000.00
Native Chicken	2,180.00
Sanitation Health Kits	85,000.00
TOTAL	1,121,503.00



Key Findings: 2025 Incidental Income

Based on the 2025 Incidental Income data, here are the key findings regarding the OPS' incidental revenue streams:

1. Overall Performance and Growth

- The total Incidental Income for 2025 reached Php 1,121,503.00.
- The highest quarterly income was recorded in Quarter 4 (Php 379,365.00).
- The lowest quarterly income was recorded in Quarter 3 (Php 139,758.00).

2. Dominant Income Item

- Native Trees are the single most significant source of incidental income, totaling Php 539,275.00.
 - This item alone accounts for approximately 48.1% of the total annual incidental income.

3. Top Contributing Categories

The top three items account for approximately 72% of the total income:

- Native Trees: Php 539,275.00
- Pork Meat: Php 160,448.00
- Pork Longganisa: Php 109,370.00



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4. Significant One-Time/High-Value Item

- Sanitation Health Kits contributed a substantial Php 85,000.00, which represents the fourth-highest income item for the year due to a request as commemorative of SLSU-UHS.

III. Activities/ Community Engagement/ Trainings

- **LGU Mauban Benchmarks SLSU's Extension, Production, and TBI for Innovation and Commercialization**

In a forward-thinking move, the Local Government Unit (LGU) of Mauban recently visited Southern Luzon State University (SLSU) on January 30 to gain insights into enhancing their extension, production, and business incubation initiatives. The delegation was eager to explore the best practices of SLSU's Office of Extension Services, Office of Production Services (OPS), and Technological Business Incubation (TBI) Hub.

During the visit, engaging discussions were held on strategies for strengthening public service programs and fostering sustainable business models. A key highlight was the consultation with the TBI on the commercialization of Katmon fruit, aiming to transform this indigenous resource into market-ready products. The delegation also visited OPS' Shared Service Facility on Meat Processing and Sanitation Facility, gaining valuable insights into maintaining high standards in food production and hygiene. This collaboration seeks to bridge the gap between research and enterprise, reinforcing LGU Mauban's commitment to innovation-driven local development.

This benchmarking activity underscores the vital role of academic institutions in supporting local government efforts toward economic growth and technological advancement. Such partnerships are instrumental in driving sustainable development and fostering a resilient local economy.

Photos:

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- **SLSU Representatives Attend 2025 ProPak Philippines to Explore Advanced Packaging and Processing Technologies**



Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Lucban, Quezon



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Representatives from Southern Luzon State University's Office of Production Services, For. Eraldwin A. Dimailig, Director, and Mr. Aerial Gilbert P. Dimaranan, CED I, attended the 2025 ProPak Philippines on February 12, 2025, at the World Trade Center Metro Manila, Pasay City. The event brought together industry leaders and showcased the latest innovations in packaging and processing technology from global companies.

Thanks to a strategic partnership with the Department of Trade and Industry – Quezon Provincial Office, SLSU was able to participate in this prestigious event. DTI-Quezon organized a special Bus-In Delegation Program, making it easier for attendees to access the venue. This partnership provided the SLSU representatives with complimentary transportation, fast-track event access, and valuable opportunities to network with industry experts from around the world.

ProPak Philippines is known for highlighting cutting-edge solutions in packaging and processing, giving industries a platform to explore the latest technological advancements. For. Dimailig and Mr. Dimaranan's participation reflects SLSU's commitment to staying at the forefront of innovation, supporting ongoing initiatives in product development and production services.

This collaboration with DTI-Quezon not only strengthened SLSU's network but also reinforced its role as a leading institution in research and production technology. By participating in events like ProPak Philippines, SLSU continues to enhance its capabilities and contribute to the advancement of local industries, driving positive change in the region.

Photos:

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- **SLSU and DTI-Quezon Hold Exploratory Meeting for Potential MOA**



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Southern Luzon State University (SLSU) and the Department of Trade and Industry (DTI)-Quezon held an exploratory meeting to discuss a potential Memorandum of Agreement (MOA) to strengthen collaboration in research, innovation, and business development. The meeting was attended by Ms. Julieta Tadiosa, CESO V, Provincial Director of DTI-Quezon, Dr. Marissa C. Esperal, Vice President for Research, Extension, Production, and Development, and Innovation (REPDI), and For. Eraldwin A. Dimailig, Director of the Office of Production Services.

Mr. Aerial Gilbert P. Dimaranan, Crafts Education Demonstrator I, presented on behalf of the Office of Production Services, highlighting the partnership's objectives. Ms. Anna Marie V. Quincina, Division Chief of Business Development Division of DTI-Quezon, provided an overview of past and ongoing collaborations, while Ms. Honeylee Eclavea, Senior Trade Industry Development Specialist, discussed key points for the proposed MOA.

The proposed collaboration aims to enhance product innovation through improved packaging, design, and labeling for MSMEs. Business incubation and mentorship programs will be developed to support startups and aspiring entrepreneurs. Research and development initiatives will focus on improving product quality, processing techniques, and certification compliance. Agri-based product processing and commercialization will help add value to local agricultural products such as coconut, cacao, and coffee. Enterprise training programs will equip MSMEs with essential technical, managerial, and marketing skills, while internship opportunities will provide students with industry exposure and hands-on experience.

This collaboration aims to foster economic growth, innovation, and academic engagement in Quezon Province, strengthening the university's role in community development and industry support.

Photos:

https://drive.google.com/drive/folders/1Xa73Ntz9MKL70MORJ0xixeyclebrjk4i?usp=drive_link



SLSU and DTI-Quezon Hold Exploratory Meeting for Potential MOA

Southern Luzon State University, in partnership with the Department of Trade and Industry – Quezon, held an exploratory meeting to discuss a potential Memorandum of Agreement (MOA) aimed at strengthening collaboration in research, innovation, and business development, March 12, 2025.

Empowering people, ensuring a sustainable future



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• SLSU - OPS Engages in Sustainable Butterfly Farming Training by JMC Butterfly Farm

The Office of Production Services (OPS) of Southern Luzon State University (SLSU) participated in a 3-Day Basic Butterfly Breeding Training from March 19 to 21, 2025, conducted by JMC Butterfly Farm. Led by Mr. Mark Fabalena, General Manager of JMC Farms, and Ms. Jonah Fabalena, Technical Supervisor of JMC Farms, the training aimed to equip participants with essential knowledge on butterfly breeding, conservation, and its potential as a sustainable livelihood initiative.

OPS representatives included For. Eraldwin A. Dimailig, Director of OPS; Mr. Aerial Gilbert P. Dimaranan, Crafts Education Demonstrator I of OPS and Project Leader of the Butterfly Breeding Project; Dr. Mary Ann R. Agudilla, along with her project proponents For. Richard A. Valle and Mr. Ramonito O. Dator. This initiative aligns with the future Butterfly Breeding Project under OPS, which seeks to explore butterfly farming for ecological and economic benefits.

The training began with a familiarization tour of JMC Butterfly Farm, where participants examined its layout and observed various butterfly species. A key discussion focused on host plants, which are crucial for butterfly breeding as they serve as food sources for caterpillars. Participants also learned how to design and construct butterfly cages, ensuring an environment that supports healthy butterfly development.

On the second day, a seminar on Basic Butterfly Breeding provided in-depth discussions on egg collection, caterpillar care, pupation, and adult butterfly management. Additionally, the training highlighted the potential for creating butterfly-based souvenirs, such as framed butterflies, laminated bookmarks, and decorative items, showcasing the economic opportunities in butterfly farming.

The final day featured a field visit to butterfly sub-breeders in Marinduque, where participants gained practical insights into the management and maintenance of different butterfly species. Learning from experienced breeders allowed the OPS team to gather best practices that can be applied to their own Butterfly Breeding Project.

This training serves as a foundation for OPS' efforts to establish a butterfly breeding facility, integrating eco-tourism, research collaborations, and income-generating projects into its production initiatives. Through this program, OPS strengthens its commitment to sustainability, biodiversity conservation, and innovative livelihood development.

Photos:

https://drive.google.com/drive/folders/1S4TgR4mrtpAchGmxeJuwOvnAfGh80IQ4?usp=drive_link



SLSU - OPS Engages in Sustainable Butterfly Farming Training by JMC Butterfly Farm

Southern Luzon State University, in collaboration with JMC Butterfly Farm, conducted a 3-Day Basic Butterfly Breeding Training to enhance knowledge on butterfly farming for conservation and livelihood opportunities, March 19-21, 2025.



Office of the Production Services (OPS)

• ERDB-DENR Officials Visit SLSU Lucban for Research Collaboration and Facility Inspection

The Ecosystems Research and Development Bureau (ERDB) of the Department of Environment and Natural Resources (DENR), led by Director Lormelyn E. Claudio, CESO III, along with the entire Executive Committee and Senior Researchers, visited Southern Luzon State University (SLSU) Lucban Campus today, March 27, 2025.

The visit aimed to inspect key research and production facilities, including the Clonal Nursery, the Sanitation Facility, and the Anthurium Nursery.

During the visit, For. Eraldwin A. Dimailig, Director of the Office of Production Services, provided an in-depth discussion about the Clonal Nursery, its operations, and its role in supporting reforestation efforts. He emphasized that Clonal Nursery seedlings are the top-selling product of SLSU Production Services' incidental income, reflecting the university's significant contributions to sustainable forestry initiatives. The ERDB team assessed the nursery's progress following the conduct of the National Greening Program (NGP).

At the Sanitation Facility, Prof. Vanessa S. Cadeliña, Project Leader of the Sanitation Facility, introduced the ERDB delegation to SLSU's locally developed hygiene products, particularly the K-Soap (Kamias Soap) and the Lambanog Ethyl Alcohol. She explained the research and production process behind these innovations, highlighting their sustainable ingredients and potential impact on both hygiene and local resource utilization. The ERDB officials were excited to try these products, recognizing their value in promoting sustainability and indigenous resource use.

Additionally, at the Anthurium Nursery, the ERDB officials took interest in SLSU's innovative use of coconut husks as a sustainable and cost-effective planting medium, aligning with their advocacy for eco-friendly agricultural practices.

Beyond the facility visits, the ERDB team engaged in discussions with SLSU representatives to explore potential collaborations in research, development, and academic publications. The visit reinforced the shared commitment of both institutions to advancing environmental research and sustainable agricultural innovations, further strengthening their partnership in eco-friendly initiatives.

Photos:

https://drive.google.com/drive/folders/1hz9WjKfeW2RpP_-8m7G4VDGwofQMP5nF?usp=drive_link



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- **SLSU received assistance from DOST Quezon for GMP Compliant Facility**

The Department of Science and Technology of Quezon, led by Mr. John Michael A. Florendo, Senior Science Research Specialist, along with Ms. Sydney Mae G. Tadosa, SRS II and Dr. Maria Fara A. Cadeliña, member of Food Safety Team of Quezon, assisted SLSU for a GMP-compliant Meat Shared Service Facility, May 7, 2025.

DOST Quezon conducted a technical inspection of the facility to evaluate its current setup, equipment layout, and process flow. The inspection aimed to identify gaps and provide expert recommendations to help the university align with national food safety and GMP standards. The initiative is part of the university's broader goal to professionalize its food processing operations and enhance its functions. The Meat SSF supports academic training for its students, while also providing processing services for future partnership with local MSMEs. The recommendations provided by DOST Quezon will serve as the university's guide to the facility's upgrade, including the adjustment to workflow, hygiene protocols, and structural improvements.

With the insights gained from the inspection, SLSU aims to implement corrective actions and move closer to full GMP compliance, reinforcing its role as a center for food innovation, safety, and service delivery.



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- **DTI initiates ownership turnover of Shared Service Facilities to SLSU**

The Department of Trade and Industry (DTI) is now facilitating the transfer of ownership of the Shared Service Facilities (SSFs) operated by Southern Luzon State University (SLSU)—a crucial step toward the eventual donation of the equipment to the university.

This development marks a significant milestone in the ongoing collaboration between DTI and SLSU in supporting micro, small, and medium ent



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enterprises (MSMEs) through the SSF Program. The program has played a vital role in boosting the productivity and competitiveness of local industries by providing access to modern equipment and shared production spaces.

Coordinated by DTI-Quezon and SLSU, the transfer process involves the formal turnover of ownership from DTI to the university. Once completed, the donation will enable SLSU to fully manage and optimize the use of the SSFs for sustained MSME support and institutional development.

To facilitate the donation, a coordination meeting was formally held on May 23, 2025, via Zoom, with key representatives from both DTI and SLSU. During the meeting, DTI Regional Director Marissa Argente approved the donation of the Meat Processing SSF located at SLSU Main Campus in Lucban, and the Nipa Sweetener Production SSF housed at SLSU Infanta Campus.

These facilities are expected to enhance the university's capabilities in production-based education, research, and community extension. The turnover of the Nipa Sweetener Production SSF was attended by Dr. Violeto Coronacion, Project Leader of the initiative and Campus Director of SLSU Infanta. The facility is intended to scale up the production and commercialization of natural sweeteners derived from nipa sap, while supporting livelihood opportunities for local communities.

Meanwhile, Mr. Ariel Gilbert Dimaranan, Crafts Education Demonstrator I from the Office of Production Services, represented the SLSU Main Campus during the turnover of the Meat Processing SSF. The facility will improve the university's efforts in applied learning and enterprise development in the food sector.

#YES4SLSU **TURNOVER OF THE SSF PROJECT IN QUEZON**
SSF PROJECT FOR NIPA SWEETENERS PRODUCTION
SOUTHERN LUZON STATE UNIVERSITY - INFANTA CAMPUS
Infanta, Quezon



APPROVED FOR DONATION OF THE SSF PROJECT IN QUEZON
SSF PROJECT FOR MEAT PROCESSING
SOUTHERN LUZON STATE UNIVERSITY - LUCBAN CAMPUS
Lucban, Quezon



DTI initiates ownership turnover of Shared Service Facilities to SLSU

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• Youth Exposure and Enterprise: SLSU Opens Doors to Mauban Learners

The Department of Trade and Industry (DTI) – Quezon, led by Ms. Jaryz Eden Lloce, Trade Industry Development Specialist, along with the Local Government Unit of Mauban, facilitated the industry exposure of Maubanin youth learners at Southern Luzon State University's Meat Processing Shared Service Facility, as part of the Youth Entrepreneurship Program: You Can Be Your Own Boss (YEP! BYOB), June 26, 2025.

The Southern Luzon State University (SLSU), through its Office of Production Services (OPS), proudly hosted the Maubanin youth at its Shared Service Facility (SSF) for Meat Processing



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located in Brgy. Ayuti, Lucban, Quezon. This meaningful activity aimed to bridge entrepreneurial vision with real-world industry exposure and practical skills in food processing.

The afternoon session began with a warm welcome from For. Eraldwin A. Dimallig, MFO, Director of the Office of Production Services. He emphasized the importance of hands-on learning in cultivating entrepreneurial spirit and technical confidence among the youth. He also acknowledged the strong partnership with DTI and LGU Mauban in creating meaningful learning experiences for future entrepreneurs.

A key highlight of the visit was the live demonstration of Lucban Longganisa production, facilitated by Mr. Richard Ellage and Mr. Allan Julius Bobila, staff of the Production Services Unit. The students observed every stage of the process—from raw meat preparation and seasoning to stuffing, packaging, sanitation, and quality control. The demonstration offered a unique opportunity for participants to engage with industry practitioners and understand the complexities of food processing.

In addition, Mr. Aerial Gilbert Dimaranan, CED I, presented an overview of the facility's current operations and its future direction. He shared that SLSU is focused on upgrading the Meat Processing Facility to become fully compliant with Good Manufacturing Practices (GMP). This includes improving infrastructure, enhancing sanitation protocols, optimizing workflow, and acquiring equipment that meets regulatory standards. These improvements aim to ensure food safety, open doors for FDA accreditation, and increase the facility's capacity to support research and community-based enterprises.

The participants expressed appreciation for the insightful and interactive session, which not only deepened their understanding of food enterprise development but also inspired them to explore agri-based business opportunities rooted in local culture and products.

The Office of Production Services expresses its heartfelt gratitude to DTI Quezon, LGU Mauban, and the eager and engaged Maubanan Youth Learners who made this event a success. SLSU remains committed to community engagement, youth development, and capacity-building initiatives that support innovation and local economic growth.

As it moves forward, SLSU continues to champion inclusive education and industry-driven learning, empowering future entrepreneurs with the knowledge, exposure, and tools they need to thrive in the ever-evolving landscape of agribusiness and food innovation.



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- **Office of Production Services and Bureau of Plant Industry conduct hands-on training for staff and farmers on conserving plant genetic resources**

The Office of Production Services (OPS) of Southern Luzon State University, in collaboration with the Bureau of Plant Industry (BPI), successfully conducted a comprehensive training on Plant Genetic Resources Conservation and Management from July 7 to 10, 2025. The program was designed to equip OPS staff and farmers with both theoretical knowledge and practical skills in conserving vital plant genetic resources.

The training began with a lecture and hands-on activity on Seed Production, facilitated by Mr. Ernie Lito Bollosa. Participants gained valuable insights into seed handling, selection, and multiplication techniques, ensuring the production of high-quality planting materials. Mr. Bollosa also delivered a session on the Establishment of Mother Trees, highlighting the importance of maintaining superior tree stocks for sustainable propagation efforts.

Building on these foundations, Mr. Mark Christopher E. Valdez led a session introducing the concepts of Plant Genetic Resources.

Conservation and Management, laying the groundwork for more technical discussions. This was followed by a collaborative lecture by Mr. Keem Bryan Pornobi and Mr. Alex S. Pedroso on Germplasm Acquisition and the Processing of Collected Materials, emphasizing proper methods of collecting, documenting, and preparing plant genetic samples.

Mr. Valdez returned to deliver key insights on Seed Conservation and the Management of Seed Crops and Vegetatively Propagated Species, offering practical strategies for maintaining genetic viability over time. Together with Mr. Pedroso, he also presented the topic on Regeneration of Seed Crops Genetic Resources, focusing on renewing seed stocks while preserving their genetic traits.

A highlight of the training was the field collection and visit on-site planting areas, which allowed participants to directly apply their learning. Mr. Pedroso and Mr. Pornobi led a preparatory briefing on actual germplasm collection protocols, followed by on-site field collection activities with guidance from Mr. Valdez, Mr. Pedroso, and Mr. Pornobi. This hands-on experience enabled participants to engage in real-world germplasm identification and retrieval techniques.

To wrap up the field activities, Mr. Valdez conducted a detailed lecture on the Characterization of Collected Germplasm, underscoring the importance of systematic trait evaluation, documentation, and data management to support future research and conservation work.

The four-day training successfully enhanced the participants' technical capabilities in managing plant genetic resources. This effort marks an important step toward promoting agricultural sustainability, crop diversity, and long-term food security through OPS-led initiatives.



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Photos: https://drive.google.com/drive/folders/1ZIX4J1Vd8WfX0P52yMLX-th-ZXfeUxF5?usp=drive_link

• SLSU strengthens preparedness through Business Continuity Plan training

The Office of Production Services (OPS), together with its projects and the Technology Business Incubator (TBI) Hub, successfully conducted a Business Continuity Plan (BCP) Training on September 4 to 5, 2025, with Mr. Keanu Austin Rairata as guest speaker. The program was designed to enhance the capacity of OPS personnel, project staff, and TBI participants in ensuring organizational resilience and continuity of operations during emergencies and disruptions.

Mr. Rairata shared practical knowledge on risk assessment, identification of critical processes, response and recovery strategies, and effective communication mechanisms in times of crisis. He also highlighted the relevance of BCP in institutional sustainability, remarking, *"Kakaunti ang may alam tungkol sa Business Continuity Plan. Kaya mahalagang magkaroon ng ganitong pagsasanay upang maihanda ang bawat organisasyon sa anumang sakuna o aberya."*

The participants actively engaged in workshops and group activities designed to apply BCP principles to their respective operations, from production and research initiatives to innovation-driven enterprises.

University officials present during the training included Dr. Frederick T. Villa, University President; Dr. Marissa C. Esperal, Vice President for Research, Extension, Production, and Development Innovation (REPDI); Dr. Helene D. Daya, Head of the Faculty and Staff Development Program (FSDP). They expressed their appreciation to Mr. Rairata for sharing his expertise and commended OPS and TBI participants for their commitment to strengthening resilience.

They emphasized that the training is a crucial step in aligning SLSU's production and innovation arms with risk management practices, ensuring that the university can continue to serve communities even in times of uncertainty.



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Photos: https://drive.google.com/drive/folders/1YEZTuoCyx7aWCFDIOsja4t10p85eDlwd?usp=s_haring

- **CTE captures best digital commercial**

Showcasing creativity and innovation, College of Teacher Education's (CTE) Adrienne Aguila, Khalil Hernandez, Ahron Guinto, Faith Perez, and Angelo Toling, nailed the top spot of Kamias (K)-Soap Digital Commercial Challenge, STW 2025, Sept. 29.

Gabriel Louis Simon Araya, Paul Vincent De Chavez, and Herman Pamis Jr. of College of Arts and Sciences' (CAS), and SLSU Tiaong Campus reps, Ian Reyroso, Arwin Priol, and Aron Franz Lejarde, placed second and third, respectively.

The digital commercial contest aimed to foster student creativity and promote kamias soap, initially formulated to address the needs of farmers in cleaning stubborn skin stains.

// report by Simon Juacquin Saludaes & John Carl Crisostomo
// photo from Knowledge Management Office (KMO) and Herman Pamis Jr.



- **Capacity Building of OPS on Meat Processing**

To strengthen its production initiatives and expand its product development capabilities, the Office of Production Services (OPS) conducted a Meat Processing Training facilitated by Ms. Shyrille Lopez as the trainer, with the assistance of Ms. Aziela Elises.

The activity served as a capacity-building program for OPS staff, aiming to enhance their technical skills in meat processing and enable the development of new product variants beyond the traditional Longganisang Lucban.

This initiative underscores OPS' commitment to continuous learning, innovation, and sustainable enterprise development—advancing the university's goals of promoting research-based, market-ready, and high-quality food products.



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Photos: <https://drive.google.com/drive/folders/1b18dBW6jzQwzefj7dv9T1KQSLkyuJ2ET?usp=sharing>

- **A Timely Boost for Livestock Growers: SLSU-OPS Concludes Animal Production Seminar**

Southern Luzon State University (SLSU), through its Office of Production Services (OPS) in partnership with the College of Agriculture and the Office of Extension Services, successfully conducted a four-day Animal Production Seminar focusing on Native Pig Production with Swine Production Management and Native Chicken Production. The trainings were held on October 22–23, 2025 and November 6–7, 2025, respectively, at the Banahaw Hall of the SLSU Business Resource Center.

The activity was designed to strengthen the technical capabilities of hog and poultry growers from Lucban, ensuring broad community participation and representation. OPS farmers also joined as secondary participants to support OPS operations, enhance skill rotation, and reinforce SLSU's function as a model production facility.

The Native Pig Production training, facilitated by Dr. Cynthia L. Payonga, covered essential topics including farm classifications, reproductive physiology, breeding systems, selection and culling, feeding strategies, housing design, disease prevention, and farm record-keeping. Dr. Payonga emphasized science-based and cost-efficient methods suited for native pig production systems, equipping participants with practical strategies to improve farm productivity and sustainability.

On November 6–7, Dr. Wendy C. Nombrefia led the Native Chicken Production training, delivering comprehensive discussions on breed identification, breeding management, feeding and nutrition, affordable housing systems, biosecurity protocols, health management, and simple record-keeping suited for native chicken operations. Participants actively engaged in the sessions, sharing farm experiences and clarifying management concerns, making the training both technical and collaborative.

Across both sessions, farmers demonstrated high engagement and enthusiasm in adopting modern yet accessible livestock production techniques. The seminar emphasized low-input, locally appropriate practices that support profitability while preserving indigenous breeds and strengthening food security in rural communities.



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The activity also highlighted SLSU's strong commitment to rural development. Through the combined efforts of the OPS, the College of Agriculture, and the Office of Extension Services, the seminar served as a formal extension program that showcased the university's role in disseminating knowledge, supporting livelihood improvement, and empowering local growers in Quezon Province.

Participants completed the seminar with enhanced technical competencies and renewed motivation to improve their animal production practices. The success of the event further solidified collaboration between SLSU, the LGU of Lucban, and the agricultural community—contributing to a more resilient and informed group of local livestock and poultry growers.



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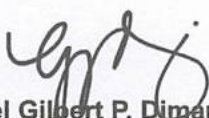
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