



VISAYAS
STATE UNIVERSITY

DEPARTMENT
AGRONOMY

QUARTERLY AND ANNUAL RESEARCH PROGRESS REPORT

Project/Study Title: Adlay Production: A Climate Change Adaptation and Mitigation Strategy for Marginal Lands

Project/Study Leader: Ed Allan L. Alcober, **Study leaders:** Dr. Dionesio M. Bañoc, Ms. Mary Ann L. Maskariño,

Dr. Berta C. Ratilla, Dr. Mariedith Bagarinao,

Dr. Wences Rey Dela Peña

Members: Ernie Valenzona- Research Assistant

Michael Tuasoc- Laborer

Funding Source: VSU-OVPREI

I. Objectives: The objectives of the study is to evaluate the growth and yield of adlay cultivars grown in marginal lands, determine the climate change adaptation and mitigation capacity of adlay cultivars under different cultural management practices grown in marginal lands and assess the profitability of raising adlay cultivars in marginal lands.

II. Short SDG Statement: The study is anchored on Sustainable Development Goals #2 (Zero Hunger) and #13 (Climate Action) of the United Nations and the University's priorities to address the problem of food security in the country and worldwide. The production of staple crops (rice and corn) may no longer be able to meet the food and feed requirements in the coming years as the area of prime agricultural lands have been decreasing due to conversion into residential, commercial and industrial establishments. Thus, the utilization of marginal lands may be an option to offset the impact of reduced farmlands. The project also responds to the priority thrust of the institution by reducing poverty and improving the livelihood of farmers living in the marginal uplands, and address the problem of crop production in the marginal uplands by adopting different crop management strategies.

Project Code:	
Implementation Period:	
Date Received	
1 st Qtr.	
2 nd Qtr.	
3 rd Qtr.	
Annual	

Note: Dates to be filled out by RPO



DEPARTMENT OF AGRONOMY

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III. Relevant Outputs

1. Publications/Presentations

Quarterly Outputs	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter/Annual
A. Journal Publications (complete citation in APA style)	None	None	None	None
A.1. Scopus/WoS-indexed				
A. 2. Other Publications				
B. Book/ Book Chapter				
C. Paper/Poster Presentations (complete citation)				
C.1. Local/Institutional				
C.2. Regional				

C.3 National				
C.4 International				
D. Newsletter/ techno guides, and other relevant publications				

2. Technologies/Products, and Patents/Trademarks/Copyrights/Utility Models/Industrial Designs, and other IPs commercialized/utilized by the Industry

Title/Name of Technology/Products (include generator/author/inventor)	Short Description	Type of IP (Patent/Utility Model, Industrial Design, Copyright)	Status (Utilized/Commercialized)	Technology Adopter (if available online, pls. provide link)
None	None	None	None	None

Note: Type of IP (Patent, Utility Model, Industrial Design, Copyright)

IV. Policy Reports/Recommendations

Title/Name of Policy/Policy Brief	Short Description	Policy Details (pls. provide a copy of the endorsement or approved policy advisory)
None	None	None

V. Citation or Attribution by other R&D Works

Publication, Patents or Policy Outputs (APA style where applicable)	Citation by others (APA style where applicable)
None	None

VI. R&D Linkages Forged/Maintained

Title of MoA/MoU	Department & Agency Involved	Period Covered	Budget (if applicable)
None	None	None	None

VII. Awards and Recognitions

Awardee	Name of Award	Awarding Body	Date & Venue
None	None	None	None

VIII. List of Equipment/Apparatus Purchased/Upgraded or Facilities Enhanced through the Project

Equipment/Facilities/Apparatus	Department/Faculty	Total Cost	Funding Source
None	None	None	None

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IX. Relevant Research Outputs Utilized by the Industry or by Other Beneficiaries (Information/Technology)

Name of the Research Outputs	Short Description	Industry Capacitated/Other Beneficiaries (if applicable)
1. Study 2: Comparative trial of different Adlay cultivars	1.1 The dry season trial was terminated. About 90% of the data were collected, encoded and organized for analysis. Only the data on herbage dry matter yield is on-going. There is a delay on the drying of the plant samples because the ovens are occupied.	
2. Study 6: Influence of ratoon height on the growth and yield of promising Adlay cultivars for food and feed	2.1 The study immediately followed using the harvested plants in study 2	
3. Study 4: Growth and yield of promising Adlay varieties applied with organic and inorganic fertilizers	3.1. The study was established, treatments were applied, crop care and monitoring are on-going. Some of the agronomic parameters were gathered	
4. Studies 3 and 5	4.1. Preparation of the experimental areas were completed. Tillage was already performed.	

X. Problems Encountered and Recommendations

Detailed Description	
Problem/Issues Addressed	<ol style="list-style-type: none">1. Heavy rainfall delayed the planting.2. Stray cows post a risk to the experimental setup.3. Budget for this year is insufficient for the six (6) component studies.4. Delay in the procurement of farm and office inputs in spite of the early submission of PPMP and PRs5. Insufficient manpower. The project with 6 studies has only 1 laborer, and the number of working days was reduced to 12 per month causing delays in the establishment of the other studies.

Strategic Action Plan Taken	Person Responsible	Timeline		Resources Required	Potential Risks
		Date to Begin	Date Due		
Implementation of studies 3 and 5	Dr. M.I. Bagarinao Ms. M.A. Maskarino Ernie Valenzona	October 2025	October 2025	Man power	Weather
Crop Monitoring (Studies 4 and 6)	Dr. B.C. Ratilla Dr. WRB Dela Pena Ernie Valenzona	October 2025	January 2026	Vehicle, Office supplies	Weather
Data collection (Studies 4 and 6)	Dr. B.C. Ratilla Dr. WRB Dela Pena Ernie Valenzona Michael Tuasoc	October 2025	January 2026	Measuring tools, and equipment	Weather
Data analysis and interpretation (Study 2)	Ed Allan L. Alcober Ernie Valenzona	October 2025	November 2025	Statistical software	None
Report writing and submission (Study 2)	Ed Allan L. Alcober Ernie Valenzona	November 2025	February 2026	Laptop and Office supplies	Delay caused by overlapping of other responsibilities

Submitted by:


ED ALLAN M. ALCOBER
Project/Study Leader

Endorsed:

LUZ G. ASIO
Dept. Head/Center Director

SUZETTE B. LINA
Dean

Recommending Approval:

IVY C. EMNACE
Director for Research

Approved:

SANTIAGO T. PEÑA
VP for Research, Extension, and Innovation

Operational Definition of Terms:

1. **Title** - the identification of the Program and the component projects (*as defined by DOST*)
2. **Project** - refers to the basic unit in the investigation of specific S&T problem/s with predetermined objective/s to be accomplished within a specific time frame (*as defined by DOST*)
3. **Project Leader** - refers to a project's principal researcher/implementer (*as defined by DOST*)
4. **Implementation Period** - refers to the grant period or timeframe that covers the approved start and completion dates of the project, and the number of months the project will be implemented (*as defined by DOST*)
5. **Members** - an individual involved in the project to achieve its research goal.
6. **Funding Source** - represents an act of contributing resources to finance a program, project, or need.
7. **Objectives** - statements of the general and specific purposes to address the problem areas of the project (*as defined by DOST*)
8. **Short Sustainable Development Goal (SDG) Statement** - indicates which among the 17 SDGs adopted by the United Nations Members States are addressed by the project (*as defined by DOST*)
9. **Journal Publications** - the process of publishing articles, research papers, or scholarly works in a specialized journal, typically within an academic or professional field.
10. **Scopus/WoS Indexing** - indicate that a journal or publication has been included in a reputable and widely used abstract and citation database. This means the journal's content is considered of high quality and is tracked for citations and research impact.
11. **Paper/Poster Presentations** - paper presentations are oral presentations of research or work, often with a slideshow, while poster presentations are visual displays of research on a large printed poster, often used at conferences or meetings. Poster presentations allow for interaction with viewers, while paper presentations are more structured and formal.
12. **Newsletter** - is a regularly published document, often electronic, that provides updates, news, and information to a specific group of people interested in a particular field or organization. It serves as a way to keep recipients informed about ongoing research, new discoveries, relevant events, and other important details within that domain.
13. **Techno Guides** - provide targeted information on a particular topic.
14. **Technologies** - refers to the tangible results or products of research activities that utilize technology. These outputs can be various, including new inventions, improved processes, scientific publications, and advancements in knowledge. Essentially, it's what is produced when technology is applied to address a research question or problem.

15. **Products** - products or services that can be offered to the market for commercial purposes, such as new consumer goods or medical devices.
16. **Patents** - is a legal right to an invention given to a person or entity without interference from others who wish to replicate, use, or sell it.
17. **Trademarks** - can be any word, phrase, symbol, design, or a combination of these things that identifies your goods or services.
18. **Copyrights** - is the legal ownership of intellectual property with the right to control its reproduction and distribution.
19. **Utility Models** - is a type of intellectual property protection, similar to a patent, but designed for minor or incremental innovations.
20. **Industrial Designs** - may consist of three dimensional features, such as the shape of an article, or two dimensional features, such as patterns, lines or color.
21. **Commercialized** - refers to the process of taking research findings or innovations and turning them into marketable products, services, or technologies that can be offered to the public for profit.
22. **Policy Advisory** - refers to the practice of providing expert advice and recommendations to policymakers on a particular issue or set of issues.
23. **Citation** - is a way of acknowledging and giving credit to the original source of information, ideas, or images used in a paper or work.
24. **R&D Linkages** - agencies participating in the R&D work
25. **Award and Recognitions** - refer to the acknowledgment and celebration of achievements, often for specific contributions or outstanding performance.
26. **Equipment Purchased** - refers to tangible, non-expendable assets acquired to support research activities.
27. **Equipment Upgraded** - equipment that are improved or made more efficient.
28. **Facilities Enhanced** - means that improvements have been made to existing buildings, equipment, or services to improve their functionality, efficiency, or overall quality.
29. **Problems Encountered** - means to have experienced difficulties or issues encountered in the project.
30. **Recommendations** - are actionable suggestions or practical steps derived from a researcher's findings, aiming to address identified problems, improve situations, or guide future research.
31. **Strategic Action Plan** - outlines the specific steps and resources needed to achieve research goals, ensuring that research efforts are aligned with broader strategic objectives.
32. **Person Responsible** - an individual who will be responsible in acting possible action plan in addressing the problems encountered in the project.
33. **Resources Required** - materials available in acting possible action plan in addressing the problems.
34. **Potential Risks** - refers to an uncertain event or condition of the strategic action plan in addressing the problems encountered.