



**FACULTY OF NATURAL RESOURCES AND ENVIRONMENTAL SCIENCES
DEPARTMENT OF FISHERIES AND WATER RESOURCES MANAGEMENT
ASSESSING THE WILLINGNESS OF FISHERMEN TO ADOPT THE USE OF GILL
NETS IN NAMASAGALI SUB COUNTY, KAMULI DISTRICT.**

BY

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BU/UP/2020/2839

**A RESEARCH REPORT SUBMITTED TO THE FACULTY OF NATURAL
RESOURCES AND ENVIRONMENTAL SCIENCES, DEPARTMENT OF
FISHERIES AND WATER RESOURCES MANAGEMENT IN PARTIAL
FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD
OF A DEGREE IN BACHELORS OF SCIENCE IN FISHERIES
AND WATER RESOURCES MANAGEMENT
OF BUSITEMA UNIVERSITY.**

OCTOBER, 2024

DECLARATION

I **WAMEMA JOEL** declare, to the best of my knowledge and understanding that the work content embodied in this thesis report is from my own original work and it has never been submitted to any institution of higher education for an award of a degree. Any material from other sources used in the thesis is duly acknowledged.

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APPROVAL

This is to certify that this research report titled, “Assessing the willingness of fishermen to adopt the use of gill net for fishing in Namasagali sub county, Kamuli district” is original work of Wamema Joel and has been submitted with my approval as the supervisor for the partial fulfillment of the Award of Bachelors of Science in Fisheries and Water Resource Management of Busitema University. **MS. NYANGOMA IMMELDAH**

BUSITEMA UNIVERSITY

Sign: **Date:**

DEDICATION

I dedicate this research report to my father Wamema Fred, and mother Malemo Lorna, Fawe Uganda organization which sponsored me, friends Hisambo Emma, Lota Brian and Maganda Brian. Lastly to my research supervisor NYANGOMA IMMELDAH

ACKNOWLEDGEMENT

Firstly, I would like to thank the almighty God for keeping me in good health condition granting me this opportunity to undertake this research.

My sincere appreciation and gratitude go to my supervisor **MS. NYANGOMA IMMELDAH** for her continuous guidance during this research. Her advice and tireless effort in following up the progress of this research is quite instrumental for its success.

Finally, yet importantly I thank my classmates for their advice and appreciate their support

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ABBREVIATIONS AND ACRONYMS

FAO: Food and Agricultural Organization

MAAIF: Ministry of Agriculture, Animal Industry and Fisheries

NAADS: National Agricultural Advisory Services

NARO: National Agricultural Research Organization

NDP: National Development Plan

NEMA: National Environment Management Authority

NFA: National Forestry Authority

NGOs: Non-Government Organizations

spp.: Species

UWA: Uganda Wildlife Authority

REFERENCES

1. Allison, E. H., Ratner, B. D., Åsgård, B., Willmann, R., & Pomeroy, R. (2018). Rightsbased fisheries governance: From fishing rights to human rights. *Fish and Fisheries*, 19(2), 357-374
2. Batuwa, J. C. (2017). Fishing gear technology and its impact on fish resources of Lakes Victoria, Kyoga and River Nile in Uganda: A review. *Journal of Fisheries and Livestock Production*, 5(3), 1-8.
3. Béné, C., Arthur, R., Norbury, H., Allison, E. H., Beveridge, M., Bush, S., Campling, L., Leschen, W., Little, D., Squires, D., & Thilsted, S. H. (2019). Contribution of fisheries and aquaculture to food security and poverty reduction: Assessing the current evidence. *World Development*, 115, 166-176.
4. Béné, C., Macfadyen, G., & Allison, E. H. (2007). Increasing the contribution of small scale fisheries to poverty alleviation and food security. Food and Agriculture Organization (FAO) Fisheries Technical Paper, (481).
5. Huang, Y. C., & Chen, J. C. (2015). History of fisheries in Asia. In M. Phillips & R. Chuenpagdee (Eds.), *Asian fisheries: Diversity, conservation issues and regional challenges* (pp. 1-28). Springer.
6. Johannes, R. E. (2002). The renaissance of community-based marine resource management in Oceania. *Annual Review of Ecology and Systematics*, 33(1), 317-340.
7. Kaczynski, V.m., Fluharty,DL.,&Stokes,T.K(2017). Factors influencing Fishermen's Willingness to adopt conservation measures: A case study of gillnets fisheries in Lake Victoria. *Marine Policy* , 81,221-228.doi:1016/j.marpol.2017.03.015
8. Kaggwa, R. C., Othina, A., & Kizito, Y. S. (2018). The impacts of anthropogenic activities on fish biodiversity and water quality in the Victoria Nile, Uganda. *Journal of Environmental Science and Water Resources*, 7(2), 23-30.
9. Kirabira, J. B., Ayiga, W. O., & Nalugo, F. N. (2019). Fisheries management and conservation in Uganda: A review. *African Journal of Aquatic Science*, 44(3), 299-314.

Management, 119, 207-220

10. Pomeroy, R. S., Ratner, B. D., Hall, S. J., & Pimoljinda, J. (2020). Transforming small scale fisheries for sustainable development in the 21st century. *MARE*
11. Rodriguez, D. J., Aliño, P. M., Geronimo, R. C., & Johnson, D. E. (2016). Evaluating the effectiveness of marine protected areas: The Philippine experience. *Ocean & Coastal*
12. Ssenkubuge, Y., Mulumba, J., & Naluwairo, R. (2020). Factors influencing compliance to fisheries regulations in Uganda: A case study of the Namasagali community in Kamuli district. *Marine Policy*, 115, 103834.