

Knowledge, Attitude and At-Risk Behaviour of Commercial Farmers towards Global Warming in Oyo State, Nigeria

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Certification

This is to certify that Oluwasegun Abidemi ADELEYE with matriculation number LCU/PG/001204 carried out this research work titled “knowledge, attitude and at-risk behaviour of commercial farmers towards Global warming in Oyo State, Nigeria” in the Department of Kinesiology, Sports Science and Health Education, Faculty of Arts and Education, Lead City University, Ibadan, Oyo State for the award of Master Degree (M.Sc.(Ed) in Health Education and that this has not been previously submitted.

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Dedication

Firstly, this research work is dedicated to God Almighty. I also dedicate it to my late parents, Mr & Mrs Adeleye.

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Abstract

The negative consequences of global warming have debilitating effects on human and environment. Due to some unfavourable practices that are associated with livestock and crop productions, the world is experiencing worsening air quality, rising temperatures and increased frequency of extreme weather events. In spite of this, previous studies concentrated on diverse population in relation to global warming, such as students, civil servants; with little concentration on farmers, particularly commercial farmers. This study therefore, examined knowledge, attitude and at-risk behaviour of commercial farmers towards global warming in Oyo State, Nigeria. Milankovitch theory and Health Belief Model were used. Cross-sectional research design was used. Commercial farmers who engaged in livestock and crop productions served as the population of the study. Multistage sampling procedure (disproportionate stratified and simple random sampling techniques) was used to select a total of three hundred and thirty three (333) respondents. A self-developed and validated questionnaire was used as the instrument for the study. The descriptive and inferential statistics of Pearson Product Moment Correlation and Analysis of Variance were used for the analysis. The results showed that the level of knowledge of global warming among commercial farmers in Oyo State was high (75.1%), while attitude (19.0%) and at-risk behaviour (36.6%) were negative. There was a significant weak negative relationship between knowledge and attitude towards global warming among commercial farmers in Oyo State. ($r=-0.494$, $p<0.05$). Also, there was a significant moderate negative relationship between knowledge and at-risk behaviour towards global warming ($r=-0.585$, $p<0.05$). There were significant differences in knowledge ($F_{(3,329)}=9.811$; $p<0.05$), attitude ($F_{(3,329)}=8.123$; $p<0.05$) and at-risk behaviour ($F_{(3,329)}=10.904$; $p<0.05$) towards global warming among commercial farmers in Oyo State, based on educational qualification. Periodic sensitization programme should therefore, be organised for commercial farmers on knowledge, attitude and at-risk behaviour towards global warming.

Keywords: Commercial Farmers, Knowledge, Attitude and At-risk Behaviour towards Global Warming.

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List of Acronyms

Abbreviation	Meaning
LCU	Lead City University
WHO	World Health Organization
WB	World Bank
UN	United Nations
GW	Global Warming
CC	Climate Change
GHG	Green House Gases
CO ₂	Carbon Dioxide
CH ₄	Methane
NO ₂	Nitrous Oxide
CFC	Chlorofluorocarbons
PFC	Perfluorocarbons
WV	Water Vapour
GWP	Global Warming Potentials
IPCC	Intergovernmental Panel for Climate Change
FAO	Food and Agriculture Organization of the United Nations
CDC	Centers for Diseases and Prevention
UNEP	United Nations Environment Programme

EPA	United States Environmental Protection Agency
PPM	Part Per Million
PPB	Part Per Billion
PPT	Part Per Trillion
OYSADA	Oyo State Agribusiness Development Agency
NASS	National Aeronautics and Space Administration
GISS	Goddard Institute for Space Studies
GDP	Gross Domestic Product
GNI	Gross National Income
COVID-19	Coronavirus
SPSS	Statistical Package Social Sciences Software

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