

Original Research Article

Climate-Friendly Farming Self-Efficacy and Its Correlates among Secondary School Agricultural Science Students in Uyo, Akwa Ibom State, Nigeria.

ABSTRACT

The Paper assessed self-efficacy of secondary school agricultural science towards climate-friendly farming. It specifically examined the influence that attitude towards climate-friendly farming, knowledge of climate change and ownership of household farms could have on the climate-friendly farming self-efficacy of the respondents. Correlation analysis, chi-square, percentages and composite index technique were applied to a set of primary data collected from 200 randomly sampled agricultural science students in 4 randomly selected schools in Uyo, AKS. Findings revealed that 52% of the respondents have high climate-friendly farming self-efficacy. The respondents had positive attitudinal disposition towards climate-friendly farming. Most (48.5%) of the respondents had low knowledge of climate change. There is the need for stakeholders to translate the high climate-friendly farming self-efficacy observed among the respondents into climate smart farming through conscious effort at increasing their participation in practical farming activities both in school and home farms. There is a need to include climate change issues in secondary school curriculum so as to raise the knowledge level of the agricultural students on climate change. Students, upon the acquisition of this knowledge and skills would help in the extension of innovative and efficient farming methods to their households and communities thereby complimenting government efforts in the extension of modern and acceptable practices in farming.

Keywords: Climate-Friendly Farming, Self-Efficacy, Secondary school, Agricultural Science Students, Nigeria

1. INTRODUCTION

Climate-change and agriculture are interrelated processes both of which take place on a global scale. Global warming is projected to have impact on conditions affecting agriculture including temperature precipitation and glacial run-off. These conditions determine the carrying capacity of the biosphere to produce enough food for human population and domesticated animal. Small-scale farmers are among the first to feel the impacts of climate change because of their greater dependence on the natural environment. Extreme climate variability (drought, floods and frost) can destroy the economies and welfare of poor rural families because they lack technologies, social protection mechanisms (such as benefits, insurance and savings) and adequate protection for their crops and animals [1; 2].

Few large farms and numerous household and other small farms including teaching and learning farms in schools and colleges characterize agriculture in Nigeria. Young farmers in secondary schools and colleges, always make effort, with guidance from their instructors/teachers, to demonstrate their ability to apply what was learnt in the class at the field in what is referred to as practical agriculture in most school and colleges. Prominent cropping systems adopted by the farmers include mixed cropping and intercropping. This is in addition to the sole cropping and mixed farming sparingly

45 practiced [3]. Secondary school students embark on various cultural practices that lead to the
46 production of various crops and in few cases livestock.

47 Agricultural production must increase if the global food supply is to keep pace with population growth.
48 Yet at the same time, it is clear that if the world is to meet its targets for reducing greenhouse gas
49 emission and mitigating climate change, agriculture must become “climate friendly/smart”. Agricultural
50 production system managed in a climate-friendly way, emit lower greenhouse gases, create
51 significant carbon sinks, and at the same time become more productive and more resilient in the face
52 of climate change [4]. The adaptive capacity of a family is also of importance. The current livelihood of
53 a family may be highly exposed to climate change, but if they have the capacity to adapt, their overall
54 vulnerability may not be high [5]. If a family accustomed to growing maize, has experience in
55 producing sorghum in dry years, they may be better prepared to make a more permanent change if
56 conditions become drier. Again, the capacity to adapt varies considerably between families even
57 within the same community. The most important characteristics for the capacity to adapt are human
58 knowledge and access to social institutions where this knowledge can be shared [5].

59 For Africa and Nigeria in particular, there is the looming threat of food insecurity [6; 7]. Arable lands
60 are dwindling, climate change is taking a toll on agricultural practices, the farming population is aging
61 and going extinct, famine is ravaging the Horn of Africa [8]. This should be of urgent concern to all
62 stakeholders and getting young person’s to invest in or practice agriculture is a way of translating the
63 threats to opportunities. Ultimately, it is the world farmers, Agricultural Students inclusive, who have
64 the largest role to play in making agriculture both climate-friendly and more productive. Agricultural
65 science students are relatively young; this category of people ought to be active, inquisitive and willing
66 to learn to add to their knowledge [9]. Both the female and male students should be better informed
67 about climatic changes and how it affects agriculture since they have been learning about it. They
68 should always be willing and ready to personally seek for information on climate change which will
69 give them good level of familiarity with climate change issues. These students upon the acquisition of
70 this knowledge and skills would help in the extension of innovative, climate-change-adaptation
71 strategies and efficient farming methods to their households and communities thereby complimenting
72 government’s effort in the extension of modern and acceptable practices in farming.

73 Therefore, it is important to understanding what affects students’ willingness to engage in climate-
74 friendly farming. According to [10], people’s judgment of their capabilities to organise and execute
75 courses of action required to attain designated types of performances strongly influences the choices
76 people make, the effort they expend, and how long they persevere in the face of challenges.

77 People’s judgement of their capabilities to organise and execute courses of action required to attain
78 designated types of performance is what is referred to in the literature as self-efficacy. Self-efficacy is
79 therefore based on self-perceptions regarding particular behaviours. It can be defined as the belief a
80 person has about his ability to perform a particular task or behaviour [11]. It can also be referred to an
81 individual's confidence in their ability to complete a task or achieve a goal [12]. Self-efficacy is
82 therefore domain or task specific. Self-efficacy is an important psychological construct which requires

83 attention in research as it influences (i) the choice of activities that an individual takes part in; (ii) the
84 amount of effort they will expend in performing a task and (iii) how long they will persevere in the face
85 of stressful situations in completing that task [11].

86 Self-efficacy as explained by [13] determine how people think, feel, motivate themselves and even
87 how they behave. He further explains that people with a strong sense of self efficacy view challenging
88 problems as tasks to be mastered, develop deeper interest in the activities in which they participate,
89 form a stronger sense of commitment to their interest and activities, and recover quickly from
90 setbacks and disappointments. People with a weak sense of self efficacy avoid challenging tasks,
91 believe that difficult tasks and situations are beyond their capabilities, focus on personal failures and
92 negative outcomes and quickly lose confidence in personal abilities. As submitted by [14], high self-
93 efficacy can enhance motivation. He further submits that people with high self-efficacy set themselves
94 higher goals, invest more efforts, show more resilience and persist longer than those with low self-
95 efficacy. Research on self-efficacy theory has powerful effects which are embedded in social cognitive
96 theory, positing that confidence in completing behaviours of interest will lead to achievement of those
97 behaviours [10]. It is believed that self-efficacy will influence climate-friendly agricultural practices
98 among the students in the study area.

99 Another factor that is viewed by the researchers to be capable of influencing students' climate-friendly
100 farming is their attitude. Attitude as a psychological concept is relative. It could be viewed as the way
101 one reacts towards an object or situation. It could be favorable or unfavorable. As asserted by [15],
102 attitude is a desire or tendency to approach or avoid something" He stated further that attitude of an
103 individual can be either positive or negative. When it is positive, the individual approaches the object.
104 When otherwise, the object is avoided.

105 Literatures and opinions of climate scientists suggest that there is much uncertainty as changes in
106 climatic condition unfolds. Though positive and negative scenarios are being speculated, many
107 concerns are paid towards more risk for the farmer with respect to productions. Agricultural students
108 in Akwa Ibom State may not understand the driving force of climate change but it is certain that the
109 direction of climate change will definitely alter the cropping and soil management system and cause
110 many diversification strategies in order to mitigate and adapt to unfolding condition. Definitely, income
111 and other livelihood activities are at risk as majority are already living below the World Bank poverty
112 line of two (2) dollars per day.

113 There is doubt whether young farmers in schools and colleges are prepared for or know what
114 constitutes environmental and climate changes and what could be the best responses to these
115 changes to guarantee environmental and climatic friendly agriculture. Are the students' attitude and
116 self-efficacy favorably disposed towards climate-friendly farming practices, especially in their various
117 homes? This present study was carried out to fill in the gap by focusing on the influence of students'
118 knowledge of climate change, students' attitude towards climate-friendly farming on the students' self-
119 efficacy towards climate-friendly farming in Uyo Local Government Area of Akwa Ibom State.

120 Specifically, the study identified the demographic characteristics of the respondents, examined
121 students' knowledge of climate change, assessed students' attitude towards climate-friendly farming,
122 assessed students' self-efficacy towards climate-friendly farming and examined the influence of
123 gender, age, knowledge of climate change and attitude towards climate-friendly farming on students'
124 self-efficacy towards climate-friendly farming.

125 2. METHODOLOGY

126 The study was conducted in the educational zones of Uyo Local Government Area of Akwa Ibom
127 State. Uyo Local Government lies between latitude 5.04 North and longitude 7.90 East. This is within
128 the equatorial rain forest belt, which is a tropical zone that house vegetation of green foliage of trees
129 shrubs and oil palm trees. The area is endowed with abundant mineral and forest resources, among
130 which are gravel, silica, sand, clay, and timber. Agricultural produce include cassava, yam, vegetables
131 and plantain. The people of Uyo Local Government Area are predominantly farmers and traders.
132 Their area of trade is mostly on food items like palm oil and other palm produce, vegetables, plantain,
133 banana, yam, cassava, live stocks e.g poultry, goat, sheep, cow etc.

134 The study was targeted at all the Senior Secondary School 2 (SS2) Agriculture science students in
135 Uyo Local Government Area of Akwa Ibom State. This study adopted a multi-stage sampling
136 technique in the selection of the respondents. There are four clans in Uyo Local Government Area Vis
137 Ikono Clan, Etoi Clan, Oku Clan and Offot Clan and there are fifteen (15) Public secondary schools
138 spread across the four clans. Secondary schools in Uyo L.G.A were clustered into the four clans. One
139 (1) secondary school was randomly selected from each of the four (4) clans, thereafter, simple
140 random sampling was used to select 50 students from each of the schools. A total of 4 schools and
141 200 students who offer agricultural science as a subject were selected respectively. The unit of
142 measurement for the study was the student.

143 A well designed questionnaire, developed by the researchers, was used for data collection. Kuder
144 Richardson 20 (KR20) and Cronbach alpha formulae were used to establish the reliability and the
145 internal consistency of sections B, C 1&2 of the questionnaire and coefficients of 0.60, 0.58 & 0.71
146 were found respectively suggesting that the scales were quite reliable. Section B was a knowledge
147 test designed to measure the knowledge (awareness) level of the respondents on climate change.
148 The section contained climate change items with response format given as "Yes, No, and Don't
149 know". Section C measured the climate-friendly attitude and self-efficacy of the respondents. It had
150 two (2) sub-sections. Sub-section 1 measured the attitude of the respondents towards climate-friendly
151 farming practices and had items with response format ranging from strongly agree to strongly
152 disagree while Sub-section 2 measured the self-efficacy of the respondents towards climate-friendly
153 farming. It had items with response format ranging from absolutely confident to not at all confident.
154 Correlation analysis, simple percentages and frequency analysis, chi-square as well as composite
155 index technique were deployed to analyze the data collected.

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157 3. RESULTS AND DISCUSSION

158 3.1 Demographic Characteristics of the Respondents

159 With regards to table 1, item 1, the researcher had more access to female respondents than males.
 160 Hundred and nine (54.5%) females and Ninety - one (45.5%) male students were sampled for the
 161 study. Item 2 on table 1 reveals that majority (88.5%) of the respondents were between 13 to 16 years
 162 of age while 11.5% aged between 17-20 years. Majority (77.5%) made a range of between 1 – 5
 163 persons household, 20.5% had 6 – 10 persons household, while 2.0% of the respondents had
 164 household size of 16 persons and above. Thus majority of the students have a household size of 1 –
 165 5 people with its attendance consequence on welfare. Similarly, majority (87.5%) of the respondents
 166 affirmed that farms are available in their houses (families) while 12.5% affirmed unavailability and
 167 80% affirmed their involvements in household farming.

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169 **Table 1: Frequency counts and Percentages of the Demographic Characteristics**
 170 **of the Respondents.**

Item	Variables	Frequency	Percentages (%)
1	Gender		
	Male	91	45.5
	Female	109	54.5
2	Age		
	13 – 16	177	88.5
	17 – 20	23	11.5
3	Family Size		
	1 – 5	155	77.5
	6 – 10	41	20.5
	16 and above	4	2.0
4	Availability of Household Farms		
	Yes	175	87.5
	No	25	12.5
5	Involvement in Household Farming		
	Yes	160	80.0
	No	40	20.0

171 **Source:** Field survey, 2018

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173 3.2 Respondents Level of Knowledge on Climate Change

174 Table 2 indicates that 48.5% of the respondents have low knowledge of climate change issues, 42.0%
 175 have average knowledge while only 9.5% of the respondents have high knowledge of climate change.
 176 Climate change awareness involves creating knowledge, understanding and values, attitude, skills
 177 and abilities among individuals and social groups towards the issues of climate change for attaining a
 178 better quality environment. Climate change specialists have repeatedly pointed out that a solution to
 179 climate change problem will require climate change awareness and its proper understanding. The
 180 research found that a good number of the sampled students still have low knowledge of climate

181 change. Most of the sampled students did not know the difference between climate and weather; they
 182 did not know the atmospheric layer of gas; they did not know what greenhouse gases are, how the
 183 gases act in the atmosphere and the effects of these gases on agricultural production. The students
 184 did not know that deforestation, bush burning, continuous tillage, animal rearing, rice cultivation,
 185 desertification, fertilizer use and fuel intensive farming can cause climate change. Hence, to develop
 186 farming strategies that adapt to climate change might be difficult.

187 However, the study also found that a sizeable number of the sampled students are averagely
 188 knowledgeable about climate change issues, but much effort need to be exerted by the research
 189 institutions and government agencies in encouraging the inclusion of climate-change issues in the
 190 Secondary school curriculum so as to raise the knowledge level of the student-farmers for mitigation
 191 and adaptation. This of course will have implication on the level of knowledge and adaptation of the
 192 farmers who benefit directly from the information.

193 The findings of this study tends to corroborate the findings of [16] who discussed how school age
 194 children were confused about climate change and ozone layer depletion. Result also agrees with the
 195 findings of [17] who emphasized how Swedish students in grades 9 and 12 (15 ± 16 and 18 ± 19
 196 years old respectively) explain the greenhouse effect and how they think the reduction of CO₂
 197 emissions would affect the society. The study strongly supports the work of [18] who examined similar
 198 ideas among students of various age groups and aimed at proposing strategies for education in
 199 climate change.

200 **Table 2: Distribution of Respondents on Level of Knowledge on Climate Change**

Level	Respondents	Percentage (%)
Very low knowledge of climate change	5	2.5
Low knowledge of climate change	92	46.0
Average knowledge of climate change	84	42.0
High knowledge of climate change	19	9.5
Total	200	100.0

201 **Source:** Field survey, 2018

202 **3.3 Respondents' Attitude towards Climate-Friendly Farming**

203 Results in tables 3a & 3b provide insights to attitudinal dispositions of the respondents towards
 204 climate-friendly farming. The frequency distributions, percentages in table 3a show the pattern of
 205 agreement of the respondents with the climate-friendly farming statements. It can be seen from the
 206 table that majority of the respondents either strongly agreed or just agreed to most of the statements.
 207 The mean scores of the responses on attitudinal statements were also calculated. Any statement that
 208 had a mean score of 2.5 and above was regarded as positive or favorable attitudinal disposition of
 209 that particular statement since the maximum response score for each item was 4 and minimum was 1.
 210 The mean score distribution shows that almost all the statements attracted a mean score above 2.5
 211 leading to the revelation, as shown on table 2b, that majority (87.5%) of the respondents had
 212 favorable or positive attitudinal disposition towards climate-friendly farming. They agreed that use of
 213 water channels in the farm as draining system is advisable to all farmers to check flooding, that

214 breeding of drought and heat resistant crop varieties can help lessen the effect of climate change on
 215 crop production and that mulching can conserve soil moisture in the face of rising temperature to
 216 mention but a few.

217 **Table 3a: Distribution of Respondents on Attitude towards Climate-friendly Farming**

S/N	Items	SA	A	D	SD	Mean
1.	I feel climate-friendly farming is an interesting area of discussion	88 (44.0)	73 (36.5)	23 (11.5)	16 (8)	3.16
2	Use of water channels in the farm as draining system is advisable to all farmers to check flooding.	99 (49.5)	57 (28.5)	29 (14.5)	15 (7.5)	3.20
3	Farmers should use organic manure to conserve soil nutrient	78 (39.0)	92 (46.0)	12 (6.0)	18 (9.0)	3.15
4	Planting of cover crops should be recommended to farmers as a means of reducing the harmful effect of climate change	74 (37.0)	74 (37.0)	32 (16.0)	20 (10.0)	3.01
5	Mixed cropping practices are the best approaches to responds to uncertainties in crop yield occasioned by climate change.	45 (22.5)	81 (40.0)	43 (21.5)	31 (15.5)	2.70
6	Every farmer should be told to plant pest and disease resistant crops.	66 (33.0)	67 (33.5)	37 (18.5)	30 (15.0)	2.84
7	Mulching can conserve soil moisture in the face of rising temperature	83 (41.5)	75 (37.5)	21 (10.5)	21 (10.5)	3.10
8	Farmers should ensure regular weeding to avoid breed of some insects pest	100 (50.0)	56 (28.0)	22 (11.0)	22 (11.0)	3.17
9	Breeding of drought and heat resistant crop varieties can help lessen the effect of climate change on crop production.	51 (25.5)	83 (41.5)	43 (21.5)	23 (11.5)	2.81
10	Farmers should know how to conserve soil moisture through appropriate tillage operation.	61 (30.0)	85 (42.5)	28 (14.0)	26 (13.0)	2.90
11	I feel intimidated to talk about climate change	42 (21.0)	47 (23.5)	55 (27.5)	56 (28.0)	2.37
12	Afforestation should be encouraged at all times	75 (37.5)	64 (32.0)	28 (14.0)	33 (16.5)	2.90
13	Proper conservation of seeds should be encouraged at all times	75 (37.5)	65 (32.5)	28 (14.0)	32 (16.0)	2.91
14	Farmers should be encouraged to reduce the use of generators for electrification	51 (25.5)	58 (29.0)	47 (23.5)	44 (22.0)	2.58
15	Regular practice of crop rotation can reduce the harmful effect of climate change on crops	59 (29.5)	69 (34.5)	37 (18.5)	35 (17.5)	2.76

218 **Source:** Field survey, 2018. **Note:** Percentages in parenthesis and values outside
 219 parenthesis are the Frequencies

220 **Key:** SA=Strongly Agree; A=Agree; D=Disagree; SD=Strongly Disagree

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226 **Table 3b: Distribution of Respondents based on Attitudinal Disposition towards**
 227 **Climate-friendly Farming Index (ADCFF)**

Index range of ADCFF	ADCFF Index Interpretation	Respondents	Frequency
0.00 – 0.59	Unfavorable disposition	25	12.5
0.60 – 1.00	Favorable disposition	175	87.5
Total		200	100.0

228 **Source:** Field survey, 2018

229 3.4 Respondents' Self-efficacy towards Climate-friendly Farming

230 Results on tables 4a & 4b provide insights into the self-efficacy of the respondents towards climate-
 231 friendly farming. The frequency distributions values as well as percentages on table 3a show the
 232 pattern of confidence the respondents demonstrated towards the climate-friendly farming statements.
 233 It can be seen from the table that majority of the respondents were absolutely, mostly and slightly
 234 confident that they can practice most of those climate-friendly farming activities. The mean scores of
 235 the responses on self-efficacy statements were also calculated. Any statement that had a mean score
 236 of 1.5 and above was regarded as high self-efficacy of that particular statement since the maximum
 237 response score for each item was 3 and minimum was 0. The mean score distribution shows that
 238 almost all the statements attracted a mean score above 1.5 leading to the revelation, as shown on
 239 table 3b, that majority (52.0%) of the respondents fell into the high self-efficacy towards climate-
 240 friendly farming category. They were confident that they can monitor and provide information on the
 241 effect of climate change on crops, that they can monitor and provide information on the effect of
 242 climate change on livestock, that they can suggest the appropriate seed-bed that can be used for the
 243 planting of various crops and that they can always develop measures of checking/controlling erosion
 244 on farm land, to mention but a few.

245 **Table 4a: Distribution of Respondents on Self-efficacy towards Climate-friendly**
 246 **Farming**

S/N	Items	Mean
1	I can monitor and provide information on the effect of climate change on livestock	1.77
2	I can suggest the appropriate seed-bed that can be used for the planting of various crops.	1.63
3	I can always develop measures of checking/controlling erosion on farm land	1.92
4	I can devote greater part of my time to carrying out climate friendly farming practices	1.58
5	I can educate people on how to check fertility and PH status of the soil before planting	1.67
6	I can educate people on breeding of new crops or livestock that are tolerant to drought	1.55
7	I can spend a whole day learning about conservation farming systems that use minimum or no-tillage	1.57
8	I can spend more time reading about various crop and	1.95

	animal diseases that are climate induced	
9	I can ensure regular weeding and pest control in my farm	2.07
10	I can monitor and provide information on the effect of climate change on crops	1.75

247 **Source:** Field survey, 2018.

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251 **Table 4b: Distribution of Respondents based on Self Efficacy towards Climate-friendly**

252 **Farming Index (SECFI)**

Index range of SECFI	SECFI Index Interpretation	Respondents	Frequency
0.00 – 0.59	Low self efficacy	97	48.0
0.60 – 1.00	High self efficacy	103	52.0
Total		200	100.0

253 **Source:** Field survey, 2018.

254 **3.5 Influence of Gender, Age, Ownership of Household farms, Knowledge of Climate**

255 **Change and Attitude towards Climate-Friendly Farming on Students' Self-Efficacy**

256 **towards Climate-Friendly Farming**

257 **A. Chi-square analysis of the relationship between gender, ownership of household**

258 **farms and students' self-efficacy towards climate-friendly farming.**

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260 Chi-square analysis was done to determine whether gender and ownership of household farms

261 significantly influenced the respondents' self-efficacy towards climate-friendly farming in the study

262 area. Results from the analysis shown in table 5a below reveals that ownership of household farms

263 ($X^2 = 4.35$; $P=0.00$) significantly influenced the respondents' self-efficacy towards climate-friendly

264 farming in the study area while sex ($X^2=0.10$; $P=0.74$) did not significantly contribute to the model.

265

266 **Table 5a: Chi-square Analysis between Gender, Ownership of Household farm and**

267 **Students' Self-Efficacy towards Climate-Friendly Farming**

Variables:	X^2 -value	df	Sign 2-tail	P-value	Remark
i Gender	0.10	1	0.74	0.05	NS
ii Ownership of farm	4.35	1	0.00	0.05	Sig

268 **Source: Field Survey 2018 Note: NS implies Not Significant**

269 **A. Pearson product moment correlation between age, knowledge of climate change,**

270 **attitude towards climate-friendly farming and respondents' self-efficacy towards**

271 **climate-friendly farming.**

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273 The table 5b below reveals that there is a very low and negative relationship between age of the

274 respondents and their self-efficacy towards climate-friendly farming in the study area, $r = -0.046$. This

275 means that the self-efficacy towards climate-friendly farming drops as the age of the respondents

276 increases. However, the relationship is low, the table also reveals that the relationships is not

277 statistically significant at $r = -0.046$, $P=0.516$, $R^2=0.002$, explaining that only 0.2% variation in self-

278 efficacy towards climate-friendly farming can be attributed to the variation in the ages of respondents.

279 Item 2 in table 5b presents the results of analysis on relationship between knowledge of climate

280 change and self-efficacy towards climate-friendly farming. The table reveals that there is a low and

281 positive relationship between the respondents' knowledge of climate change and their self-efficacy

282 towards climate-friendly farming. The table revealed that the respondents will increase their self-
 283 efficacy with increased knowledge therefore, as knowledge of climate change increases, self-efficacy
 284 towards climate-friendly farming increases as well. It may be reasonable to relate that gaining
 285 knowledge of concept can serve as a motivational factor towards the understanding and eventual
 286 practice or willingness to practice the concept. Research findings show that higher levels of perceived
 287 self-efficacy correlate to greater motivational efforts like knowledge and perseverance [19]. According
 288 to [11], computer self-efficacy has proven to be a factor in understanding the frequency and success
 289 with which individuals use computers. Self- efficacy theory, according to [20] has emerged as an
 290 important means of understanding and predicting a person's performance and vice versa. More
 291 should be done to promote the young farmers knowledge on climate change issues as this has
 292 proven effective in promoting the respondents' self-efficacy on climate-friendly farming. The table also
 293 indicated that although there was a low relationship, it was statistically significant $r = 0.136$, $P=0.040$,
 294 $R^2=0.018$ explaining that only 1.8% variation in the self-efficacy towards climate-friendly farming could
 295 be attributed to variations in the knowledge of the respondents on climate change.

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297 **Table 5b: PPMC Analysis between Age, Knowledge of Climate Change, Attitude**
 298 **towards Climate-Friendly Farming and Students' Self-Efficacy towards Climate-**
 299 **Friendly Farming in the Study Area**

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	Variables: EUFSM and	r	r²	Sign 2-tail	P-value	Remark
i	Age	-0.046	0.002	0.516	0.05	NS.
ii	Knowledge	0.136	0.018	0.040	0.05	Sig.
iii	Attitude	0.062	0.0038	0.384	0.05	NS.

301 **Source: Field Survey 2018. Note: NS implies Not Significant**

302 **4. CONCLUSION AND RECOMMENDATION**

303 Degree of knowledge on climate change and ownership or availability of farms in the respondents
 304 homes were found to significantly and statistically influence the climate-friendly farming self-efficacy of
 305 the students. Therefore, the more agricultural students, especially those that own farms in their
 306 homes, know or read about climate change, the more confident they will be in contributing to climate
 307 change adaptation farming practices in their various household farms and in the society at large.
 308 However, it is logical to conclude in this study that knowledge of climate change and ownership of
 309 farms in some ways contributes to self-efficacy towards climate-friendly farming in Uyo, Akwa Ibom
 310 State. These present a need to include climate change issues in the secondary school curriculum so
 311 as to raise the knowledge level of the agricultural students on climate change issues. Also important
 312 is the need for stakeholders to translate the high climate-friendly farming self-efficacy observed
 313 among the respondents into climate smart farming through conscious effort at increasing their
 314 participation in practical farming activities both in school and home farms. Students, upon the
 315 acquisition of this knowledge and skills would help in the extension of innovative and efficient farming
 316 methods to their households and communities thereby complimenting government efforts in the
 317 extension of modern and acceptable practices in farming.

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