

## **A STUDY ON GLOBAL WARMING AWARENESS AMONG STUDENT TEACHERS**

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### **Abstract**

*The objective of the study was to find out the level of global warming awareness among student teachers. Survey Method was utilized to collect the data from the respondents through planned questionnaire designed on the basis of the objectives of the study. The population of the present study was comprised of student teachers who are studying in colleges of Education of Virudhunagr District. A sample size of 300 student teachers from randomly selected 10 colleges of education from Virudhunagr District was selected using simple random sampling method. The global warming awareness Scale (2020) was developed and standardized by the investigators was used for getting the level of global warming of the sample. In this study, various statistical measures such as Mean, Standard Deviation, t-test and were used. The investigator found that the level of awareness of global warming among student teachers is average.*

### **Introduction**

Human activities are changing the composition as well as behaviour of the atmosphere at an unprecedented rate. The pollutants from a wide range of human activities are increasing the global atmospheric concentration of certain heat trapping gases, which act like a blanket trapping heat close to surface that would otherwise escape through atmosphere to outer space. So the gases such as CO<sub>2</sub>, N<sub>2</sub>O, CH<sub>4</sub>, O<sub>3</sub> present in atmosphere are also capable of absorbing long wave radiation and radiate energy back to earth. When these gases and CFC's increase in the atmosphere as result of air pollution or human activities, more energy is radiated back and consequently temperature of earth increases. This is known as global warming.

### **Significance of the Study**

Global warming is a global warning. It is an Environmental challenge. Rampant deforestation along with population growth, inappropriate technology, intensive agriculture, polluting industry and unplanned urbanization have led to the emission of green house gases like CO<sub>2</sub>, NO<sub>2</sub>, CH<sub>4</sub>, and CFC which in turn raise the temperature of earth at an alarming rate contribute to global warming, there by endangering the whole universe. There is a crying need to prevent global warming because if the nature has power to give life, it has also power to cease life on earth. It is a right time to prevent the world from global warming. It can be done through the education. The effects of global warming are very dangerous for our existence and survival. The sun's scorching heat comes to earth in a direct way. therefore, the earth's surface becomes seriously heated. Agriculture, forestry and fishery are seriously big

damaged. This can catastrophically reduce mankind's ability to grow foods, destroy wildlife. Global warming also causes sea –water to swell up. awareness of global warming can be increased by educating students and decision makers. Global warming is not just an environmental concern. It affects the future of all countries, particularly through water-related issues. Teacher's education plays a major role in the development of student's attitudes. The need for the awareness of global warming among B.Ed students is most essential to promote knowledge among children and thereby protect the earth from unnatural hazards and keep clean environment so as to service .As we know, that "Today's child is the future citizen of tomorrow", as quoted by Pundit Jawaharlal Nehru. So the students must be aware of the global warming. There is much more need of the study in the present generation which lacks awareness about the global warming. In this context the investigator intends to study on global warming awareness among student teachers.

### Objectives of the Study

1. To find out the level of global warming awareness among student teachers
2. To find out the level of global warming awareness among student teachers with respect to gender.
3. To find out whether there is any significant difference in global warming awareness among student teachers with respect to gender.

### Methodology

Survey Method was utilized to collect the data from the respondents through planned questionnaire designed on the basis of the objectives of the study. The population for the present study comprises all the student teachers who are studying in the colleges of education located in Virudhunagar district. In the present study, the investigator used simple random sampling technique for selecting the sample. The investigator has randomly selected seven colleges of education from Virudhunagar district affiliated to Tamilnadu Teacher's Education University. From these colleges of education, 300 student teachers were selected. Awareness of global warming scale (2019) was prepared and validated by the investigators was used for getting the level of awareness of global warming of the sample. In this study, various statistical measures such as percentage Mean, Standard Deviation and t-test were used.

### Analysis of the Study

1. To find out the level of global warming awareness among student teachers.

**Table 1 Level of Global Warming Awareness Among Student Teachers**

Low		Moderate		High	
Count	%	Count	%	No.	%
68	22.7	200	66.7	32	10.7

It is inferred from the above table that, 22.7% of have low, 66. 7% of them have moderate and 10. 7% of them have level of global warming awareness among student teachers.

2. To find out the level of global warming awareness among student teachers with respect to gender.

**Table 2 Level of Global Warming Awareness Among Student Teachers with Respect to Gender**

Gender	Low		Moderate		High	
	No.	%	No.	%	No.	%
Male	24	63.2	12	31.6	2	5.3
Female	44	16.8	188	71.8	30	11.5

It is inferred from the above table that, 63.2% of the male student teachers have low, 31.6% of them have average and 5.3% of them have high level of global warming awareness . 16.8% of the female teachers have low, 71.8% of them have average and 11.5% of them have high level of high level of global warming awareness.

3. There is no significant difference in global warming awareness among student teachers with respect to gender.

**Table 3 Difference in Global Warming Awareness Among Student Teachers with Respect to Gender**

Gender	N	Mean	SD	Calculated 't' value	Remarks at 5% level
Male	38	93.7105	9.80046	5.490	S
Female	262	1.01942	8.45132		

It is inferred from the above table that calculated 't' value (5.490) is greater than the table value (1.96) for df 298 at 5% level of significance. Hence the null hypothesis is rejected. It shows that there is significant difference in global warming awareness among student teachers with respect to gender.

### Findings

1. 22.7% of have low, 66. 7% of them have moderate and 10. 7% of them have level of global warming awareness among student teachers.
2. 63.2% of the male student teachers have low, 31.6% of them have average and 5.3% of them have high level of global warming awareness. 16.8% of the female teachers have low, 71.8% of them have average and 11.5% of them have high level of high level of global warming awareness.
3. There is significant difference in global warming awareness among student teachers with respect to gender

## Interpretations

There is significant difference between male and female student teachers in their awareness of global warming. The male student teachers are better than female student teachers in their awareness of global warming. It may be due to the fact that male student teachers are better exposed to environmental degradation through social media comparing to female student teachers.

## Recommendation of the Study

The investigator makes the following suggestions in order to disseminate information and knowledge of global warming among student teachers.

1. The colleges may conduct seminars, group discussions, debates and essay competitions on global warming.
2. Eco club and Nature club should be established in colleges.
3. Various magazines and news papers which may carry interesting and useful articles, stories, poems, advertisement and cartoons related to global warming should be made available to the students.
4. Student teachers should be encouraged to take part in activities which help in the prevention of global warming.
5. The study of environmental education and its practical aspects should be part of the syllabus.
6. Co-Curricular and extracurricular activities should be encouraged to promote awareness of global warming.
7. Topics like global warming, ozone depletion natural hazards and environmental pollution should be included in arts group subjects.
8. The mass media available may be properly utilized to create awareness towards global warming.
9. Teacher educators should provide opportunities for their student teachers to become aware of using natural resources and natural gases.

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