



A STUDY OF AWARENESS ABOUT THE GLOBAL WARMING AMONG THE HIGHER SECONDARY SCHOOL STUDENTS IN PUDUKKOTTAI DISTRICT

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Abstract

The purpose of this research is to find out the level of Awareness about the global warming among the higher secondary school students of Pudukkottai district of Tamil Nadu state. Descriptive survey design was employed to find out the awareness of students. The sample consists of 250 students including both boys and girls. Tool was developed by the researcher to collect the data from the sample. Descriptive statistics, t-test, are techniques used to analyze the data. The result shows that the level of awareness about global warming among higher secondary school students is high. There exists a significant difference between boys and girls students in their awareness about the global warming. There was significant difference found with respect to urban and rural higher secondary school students about awareness in global warming. Urban students are better in awareness than rural students. There exists significant difference between government and private school students in awareness about global warming.



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I. INTRODUCTION

Environment means the immediate surroundings of any living beings. The environment furnishes all the essentials for life and so there has been a close link between the environment and human being without a natural and congenial environment human existence is not possible on the earth. Since time immemorial the man had made conscious and determined efforts to make use of the natural resources and to modify his surroundings so that the adverse impact caused by extremes of temperature, rainfall and predators may be reduced. In the quest of making life more comfortable the man has always exploited the nature.

II. GLOBAL WARMING:

Human activities are changing the composition as well as behavior of the atmosphere at an unprecedented manner. 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 Co₂, N₂O, and Ch₄. O₃ 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.

Besides natural and man-made hazards, the earth's surface is polluted by a number of sources. The land is polluted by millions of tones of solid wastes from mines and urban centers while industries and cities discharge enormous quantity of liquid wastes outside their locations. In the same way, burning of fossil fuels and wastes pollutes air. As a consequence of all these disasters and pollution, the environment is over burdened. The level of burden varies between countries and from time to time. Global warming is a phenomenon of increase in the earth's temperature by making the earth a much warmer place to live in which has brought a major climatic changes across the world and in India. Global warming is considered as a major health issue of 21st century. Green house gases such as water vapour, carbon dioxide, methane, etc. which exists in the atmosphere trap the rays of the sun and makes the earth temperature warmer. The concentration of green gases has increased extensively since the industrial revolution.

III. NEED FOR ENVIRONMENTAL EDUCATION:

The term, "Education" is in wider in its connotation. Education merely means the acquisition of knowledge. It is meant for the overall upliftment of the entire mankind. It makes a person suitable for the society. Education is universally accepted fact that educated and enlightened citizens are essential for a successful functioning of a country. Education is the reflecting mirror of the culture of any nation. "Education is a force of social regeneration. It must march hand-in-hand with the living and creative forces of social order" – S.Counts (1976). Education develops the scientific and technological skills, which in turn continue to raise the standard and values of life. Education is the major force which continuously reorganizes and reconstructs the past experiences for the future generation thus making a society grow and develop. According to Vivekananda, "the training by which the current and expression of will are brought under control and became fruitful is called Education". Education is preparation for complete living. It has been subjected to violent shocks from time to time.

IV. OBJECTIVES OF THE STUDY

- To find out the level of awareness about global warming among higher secondary school students in Pudukkottai District.
- To find out the significant difference if any of awareness about global warming among higher secondary school students with respect to
 - a) male and female
 - b) Urban and Rural
 - c) Arts and science subjects
 - d) Government and Private school

V. HYPOTHESES OF THE STUDY

- The level of awareness about global warming among higher secondary school students is not significantly high.
- There is no significant difference in awareness about global warming between male and female higher secondary school students.
- There is no significant difference in awareness about global warming between Urban and Rural higher secondary school students.
- There is no significant difference in awareness about global warming between students in terms of Arts and science subject higher secondary school students.
- There is no significant difference in awareness about global warming between Government and Private higher secondary school students.

VI. TOOLS

The Awareness about the global warming tool was constructed and validate by investigator with the help of research supervisor. Awareness about the global warming tool consists of 60 items with yes or no type. The students are asked to select the correct answer by putting a tick mark (✓). The score ranges from 0-60.

VII. SAMPLE OF THE STUDY

The data for the study was collected from a sample of 250 students 95- Government school students, 75 – Government aided School students. 80 Private School Students of XI standard students of both sex.

VIII. ANALYSIS OF DATA

The following techniques were used for analyzing and interpreting data.

- ❖ Mean
- ❖ Standard Deviation
- ❖ 't' Test

IX. RESEARCH FINDINGS AND DISCUSSIONS

Table 1 showing mean, standard deviation values of Global warming awareness among higher secondary school students

Sample	N	Mean	S.D
Entire Sample	250	53.81	3.1036

In order to find of the awareness about Global warming entire higher secondary school students the mean and S.D have been calculated. They are found to be 53.81 and 3.1036. This vividly shows that all students have high awareness about Global warming.

Table 2 showing mean, standard deviation and 't' values of Global warming awareness among boys and girls students at higher secondary level

Gender	N	Mean	SD	't' values	Level of significance 0.05 level
Boys	125	54.34	3.074	2.4377	significant
Girls	125	53.39	3.100		

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The above table shows that there is a significant difference between boys and girls students in Global warming awareness. The calculated mean value for boys students are 54.34 and that of girls' students 53.39. The calculated 't' value 2.4377 is greater than the table value 1.97. This clearly shows that boys and girls students do differ in their awareness about the global warming. This may be due to that the girls are more interested towards environmental protection and thus they know the consequences of Global warming than boys.

Table 3 Table showing mean, standard deviation and 't' values of Global warming awareness between arts and science subject students at higher secondary level

Group	N	Mean	SD	't' values	Level of significance 0.05 level
Arts	104	54.77	2.982	4.4177	significant
Science	146	53.11	2.897		

The above table shows that there is a significant difference between arts and science subject students in awareness about Global warming. The calculated mean value for arts students are 54.77 and that of science subject students 53.11. The calculated 't' value 4.4177 is greater than the table value 1.97. This clearly shows that arts and science students do differ in their Global warming awareness. This may be due to that today the subject has no specific importance to know the ill effects of global warming.

Table 4.5 showing mean, standard deviation and 't' values of Global warming awareness between rural and urban students at higher secondary level

Locality	N	Mean	SD	't' values	Level of significance 0.05 level
Rural	130	53.73	3.356	0.3053	Not significant
Urban	120	53.85	2.808		

The above table shows that there is no significant difference between Rural and Urban school students in Global warming awareness. The calculated mean value for rural school students are 53.73 and that of urban school students 53.85. The calculated 't' value 0.30 is less than the table value 1.97. This clearly shows that rural and urban students do not differ in their awareness about Global warming. This may be due to that the Global warming awareness has been created by the teachers irrespective of locality of the school.

Table 4.5 showing mean, S. D and 't' values of Global warming awareness between Tamil and English medium students at higher secondary level

Medium	N	Mean	SD	't' values	Level of significance 0.05 level
Tamil	181	52.76	2.976	0.0262	Not significant
English	69	52.77	3.227		

The above table shows that there is no significant difference between Tamil and English medium school students in Global warming awareness. The calculated mean value for Tamil medium students are 52.78 and that of English medium school students 52.74 The calculated 't' value 0.0262 is less than the table value 1.97. This clearly shows that Tamil and English medium students do not differ in their Global warming awareness. This may be due to the Global warming awareness has an equal potential value for both Tamil and English students about their perception and understanding about nature.

Table 4.6 Table showing mean, S.D and ‘t’ values of Global warming awareness between Government and Private school students at higher secondary level

School	N	Means	SD	‘t’ values	Level of significance 0.05 level
Government	95	55.62	2.605	8.124	Significant
Private	75	52.33	2.732		

The above table shows that there is a significant difference between Government and Private school students in Global warming awareness. The calculated mean value for government students are 55.62 and that of private school students 52.33 The calculated ‘t’ value 8.124 is greater than the table value 1.97. This clearly shows that government and aided students do differ in their awareness about the Global warming. This may be due to that the government school students have practical orientation more given by the teachers than the private school students.

X.FINDINGS MAJOR OF STUDY

1. The present study revealed that awareness about global warming among higher secondary school students are adequate and appreciable.
2. The awareness about the global warming among higher secondary school students was high.
3. There is a significant difference was observed between male and female higher secondary school students about awareness in global warming.
4. There is no significant difference between Arts and Science subject higher secondary school students regarding global warming awareness.
5. Tamil and English medium students do not differ in their Global warming awareness.
6. There is no significant difference between urban and rural higher secondary school students regarding awareness in global warming.
7. There was significant difference between government and private higher secondary school students about their awareness in global warming.

XI. CONCLUSION

It is concluded that the awareness about the global warming among the higher secondary level students are high. Further it is noted that there is a significant relationship between Sex and type of management, but there is no significant

difference between studying group, locality of school, medium of instruction awareness about the global warming among the higher secondary level students.

XII. REFERENCES

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