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## **Evaluation of Environmental Attitudes: Pre-Service Teachars**

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The aim of this study was to evaluate pre-service teachers' environmental attitudes. Sampling of research is pre-service teachers from, firsth and fifth graduate students (N=148), faculty of Education Department of Biology, Physics and Chemistry at Ataturk University in Erzurum, in Turkey. This study is made with the survey research model. The data collected with 5-point likert-type scale. It was development by Manzanal, Barreiro and Carrasquer (2007). The Environmental Attitude Scale (EAU) have four factors. Factors were named by researchers, C1 (i1, i8, i9, i17 and i18), C2 (i2, i7, i12, i15 and i20), C3 (i4, i6, i10, i14 and i19) and C4 (i3, i5, i11, i13 and i16). The EAU Scale totally consisted of 20 items. The EAU has five choices: "Strongly agree", "Agree", "Indifferent", "Disagree" and "Strongly disagree". Cronbach alpha for the whole scale was found .71. Research findings were analyzed according to department (Biology, Physics and Chemistry), gander (male and female), grade (freshman and senior) and information source (neither electronic nor pressed sources, electronic sources, pressed sources and either electronic or pressed sources). Research findings showed that a statistically significant difference was not founded according to gender. But, the mean scores of males were founded higher than females in all of the subscales, C1 [t(146) =0.815; p>.05], C2 [t(146) =0.475; p>.05], C3 [t(146) =0.157; p>.05], C4 [t(146) =0.370; p>.05]. With this, a statistically significant difference was not founded according to grade and the mean scores of senior were founded higher than freshman in all of the subscales, C1 [t (146) =0.423; p>.05], C2 [t (146) =0.265; p>.05], C3 [t (146) =1.667; p>.05], C4 [t (146) =0.561; p>.05]. Pressed sources were used mostly by pre-service students. Furthermore, biology pre- service teachers have higher scores than other departments in all of the subscales.

## References

Manzanal, F. R., Barreiro, R. L. and Carrasquer, J. (2007). Evaluation of Environmental Attitudes: Analysis and Results of a Scale Applied to University Student, *Science Education*, 989-1009,DOI 10.1002/sce.20218