

Gender Differences in Perceptions of Water in Arizona: Insights from the Science of Water Art Project

Introduction

The Science of Water Art project brings together professionals, community members, college students and children to think about the role that water plays in each of our lives. Using a sample of 4th grade classes in Arizona, over 3000 drawings of children's perception of water today and in the future were collected, coded and analyzed for various themes. As part of the larger Global Enthnohydrology study that is looking at the role of water, climate change and health in several communities worldwide, this project allows for a look into how these topics are viewed by younger generations and gives a voice to children so that they may share their outlooks on this vital resource.

Here, we are specifically interested in determining if gender is linked to children's perceptions of how they use water now and in the future.







Girls are overall more likely to draw vegetation, existing technology and domestic use of water than boys are, and are particularly more likely to draw existing technology and domestic uses in their drawings of the future. In comparison, boys are more likely to draw technological innovation, particularly in their drawings of the future. These results show that when it comes to water use, girls are more likely to identify with and depict what they see in everyday life, while boys are more concerned with ideas of future innovation.

These findings could suggest that in the future, girls see themselves more in the domestic sphere doing domestic duties, especially considering that the typical exemplars of existing technology and domestic use include cleaning, cooking, cups, pots, pans, sinks and other household appliances. Boys, on the other hand, are not identifying as much with these themes and are instead depicting more imaginative technologies.

That there is no significant difference between genders when it comes to the codes of pollution, scarcity, commercial sources, natural sources, and recreational sources suggests that boys and girls are equally concerned with these themes.

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Results

A total of 2937 drawings were analyzed, 1403 were identified as being drawn by boys and 1534 were identified as being draw by girls.



Conclusion & Discussion



between gender and presence of each code.

