Assessing Environmental Justice in Minnesota: Do Native Americans Face Disproportionate Risks?



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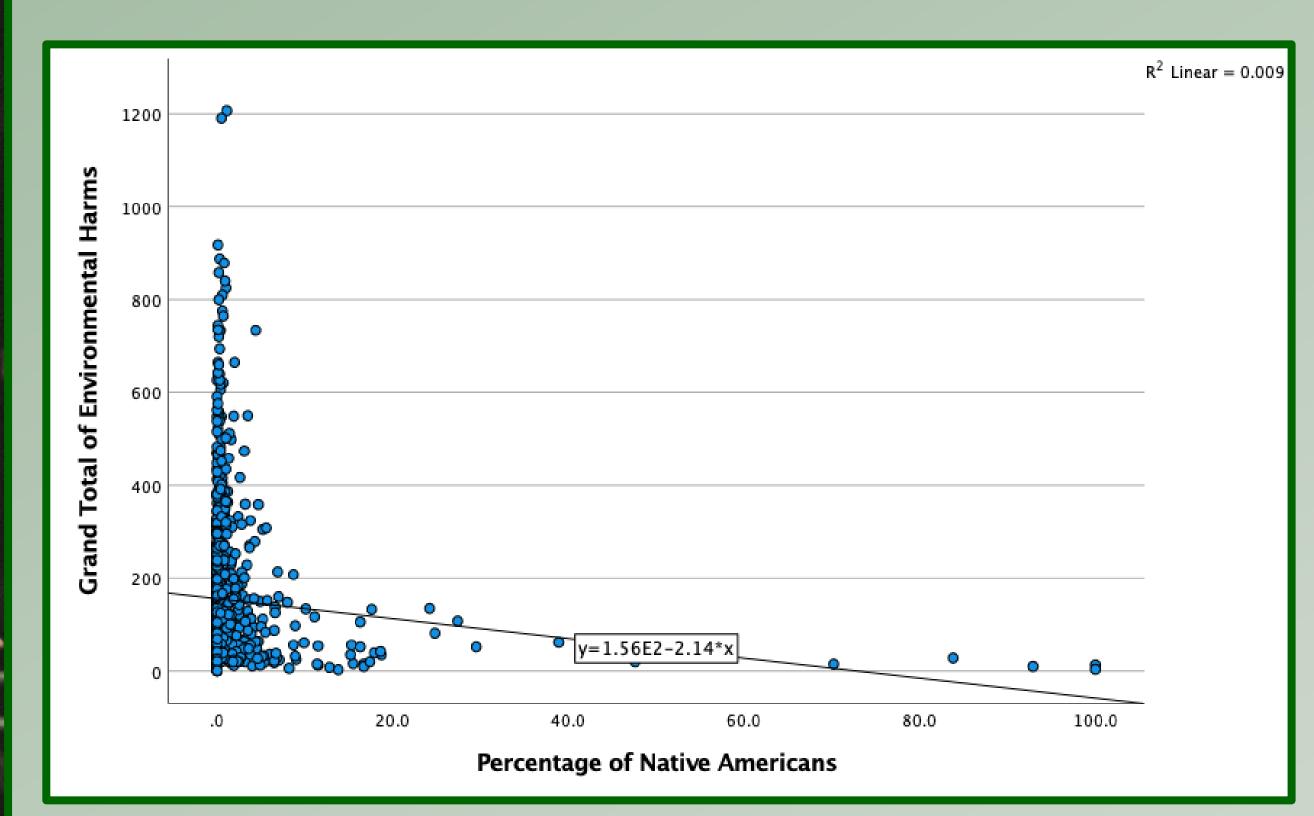
Introduction

Environmental justice is an area that has gained traction in recent years. Environmental justice focuses on any group that experiences an imbalance of environmental harms. These groups are commonly distinguished by factors such as race and income. Are there any groups in Minnesota that face disproportionate risks? Data analyzed from the Minnesota Pollution Agency and U.S. Census Data analyses these questions.

Literature

- Walker & Bradley, (2002) A Closer Look at Environmental Injustice in Indian Country
- Vickery & Hunter (2015) Native Americans: Where in environmental justice research?
- Been, V. (1993) What's Fairness Got to Do with It? Environmental Justice and the Siting of Locally Undesirable Land Uses

Hypothesis 1: In a comparison of Minnesota zip codes, those with a higher population of Native American individuals will be more likely to have a higher grand total of environmental harms



Pearson's Correlation= -.096**

**= Significance at the .001 level

Hypothesis and Analysis

Hypothesis 2: In a comparison of Minnesota zip codes, when controlling for percent Black, percent Hispanic, percent Native American, percent high school graduates, percent White, count of population over 25 by 100, and median income per \$1000, those with a higher population of Native Americans will be more likely to have a higher grand total and higher total of wastewater harms

Independent Variables	Grand Total	Wastewater
Percent Black	-1.456	010
	(1.108)	(.016)
Percent Native American	962	.011
	(1.119)	(.025)
Percent Hispanic	1.721	006
	(.684)	(.011)
Percent White	.675	003
	(.716)	(800.)
Precent High School	529	.134
Graduates	(.371)	(.006)
Percentage of Population	6.460*	.012*
Over 25 by 100	(.233)	(.003)
Median Income by	-1.863*	012
1000	(.381)	(.006)
Constant	97.136	.931
	(71.478)	(.931)

Results and Implications

The data from my results show that there are disproportionate risks depending on different demographics in Minnesota. The focus of this research was to analyze specifically if Native Americans face disproportionate harms in Minnesota. While this particular analysis may not show that, literature still suggests that this is still an issue, and other approaches may show that. Possible implications may be the difficulty in measuring the harms and the sample size of the data used.