

**Article Title:** \_\_\_\_\_ Ecological complexity, fuzzy logic, and holism in indigenous knowledge \_\_\_\_\_

**Name:** \_\_\_\_\_

What is the purpose/goal of this study?

The study wants to show how indigenous people use their knowledge to understand nature and deal with complicated ecosystems. It explains that they use simple rules, traditions, and close observation, which works kind of like fuzzy logic

Why is this issue significant/why do we care?

This matters because science alone has a hard time predicting and controlling nature. Indigenous knowledge can help us take care of the environment in smarter and more sustainable ways.

What words/vocab do you need to know to make this make sense? Define them here.

Holism: Looking at the whole system, not just one small part.

Fuzzy logic: A way of thinking that allows things to be in-between, not just yes or no.

Indigenous knowledge: What native people have learned over many generations about their land, animals, and plants.

Complex systems: Complicated systems in nature that change over time, like weather or ecosystems.

What approach are they taking in this study (e.g., specific qualitative or quantitative methods)

The authors looked at examples from Inuit, Cree, Dene, and Inuvialuit people. They compared how these groups solve problems in nature with the idea of fuzzy logic.

What are the results of the study? If there are figures – write a sentence summarizing each figure/table.

The study shows that indigenous people use many signs from nature, rules of thumb, and traditions to make decisions. This helps them deal with complex problems without needing exact numbers.

Does the data make sense based on your experiences?

Yes. It makes sense because in real life we often make choices without exact numbers, like saying “it looks too stormy to go outside” instead of measuring the wind speed.

How is this pushing the field forward and helping society?

It helps by showing that science and indigenous knowledge can work together. Indigenous wisdom gives us new ways to understand and care for the environment, which is important for problems like climate change.