



Clean Water for the Village of Sumaoy



Sumaoy

A small fishing village on the island of Tara. The population is composed of over 50% children. Limited resources and an underdeveloped economy create a big problem for the island.



Contaminants

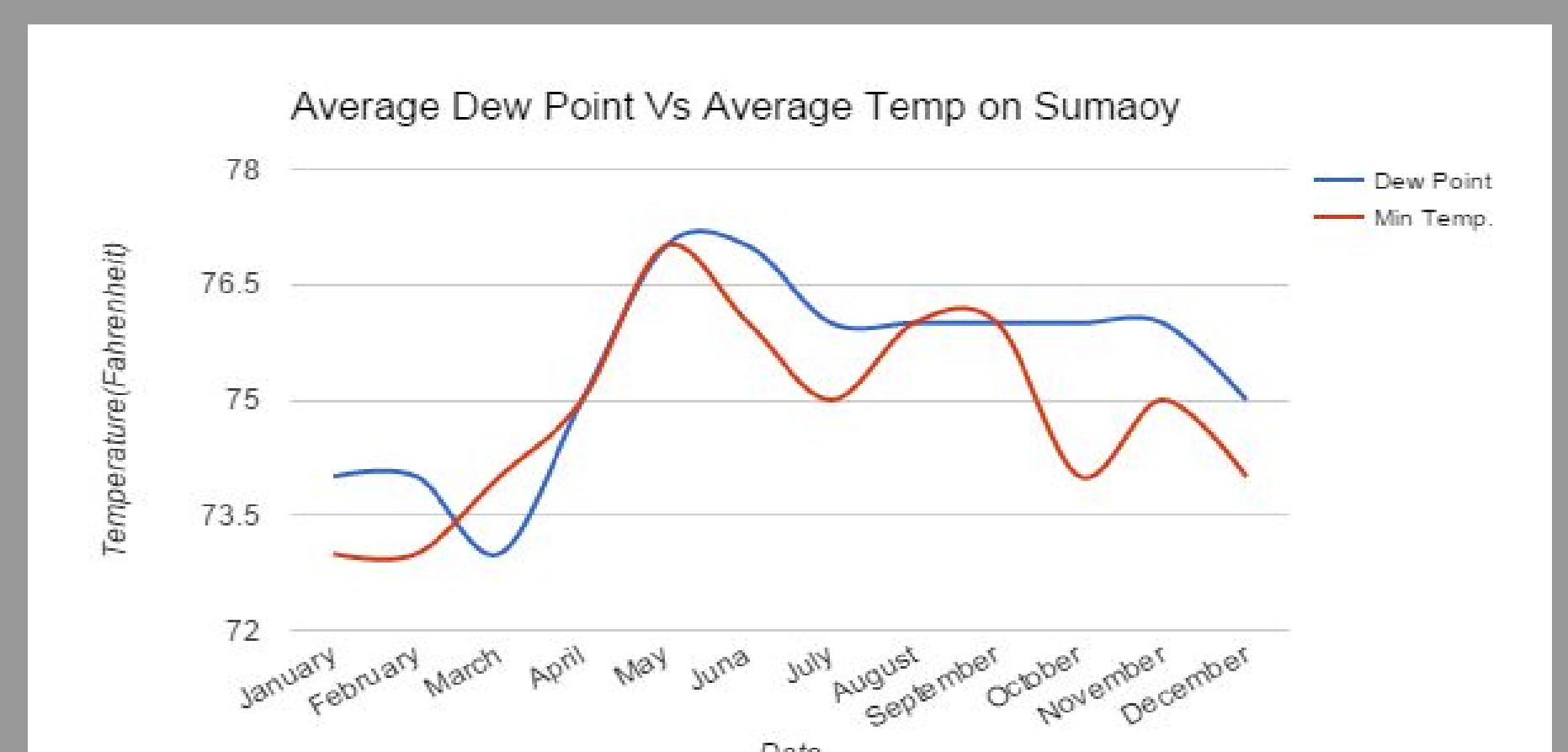
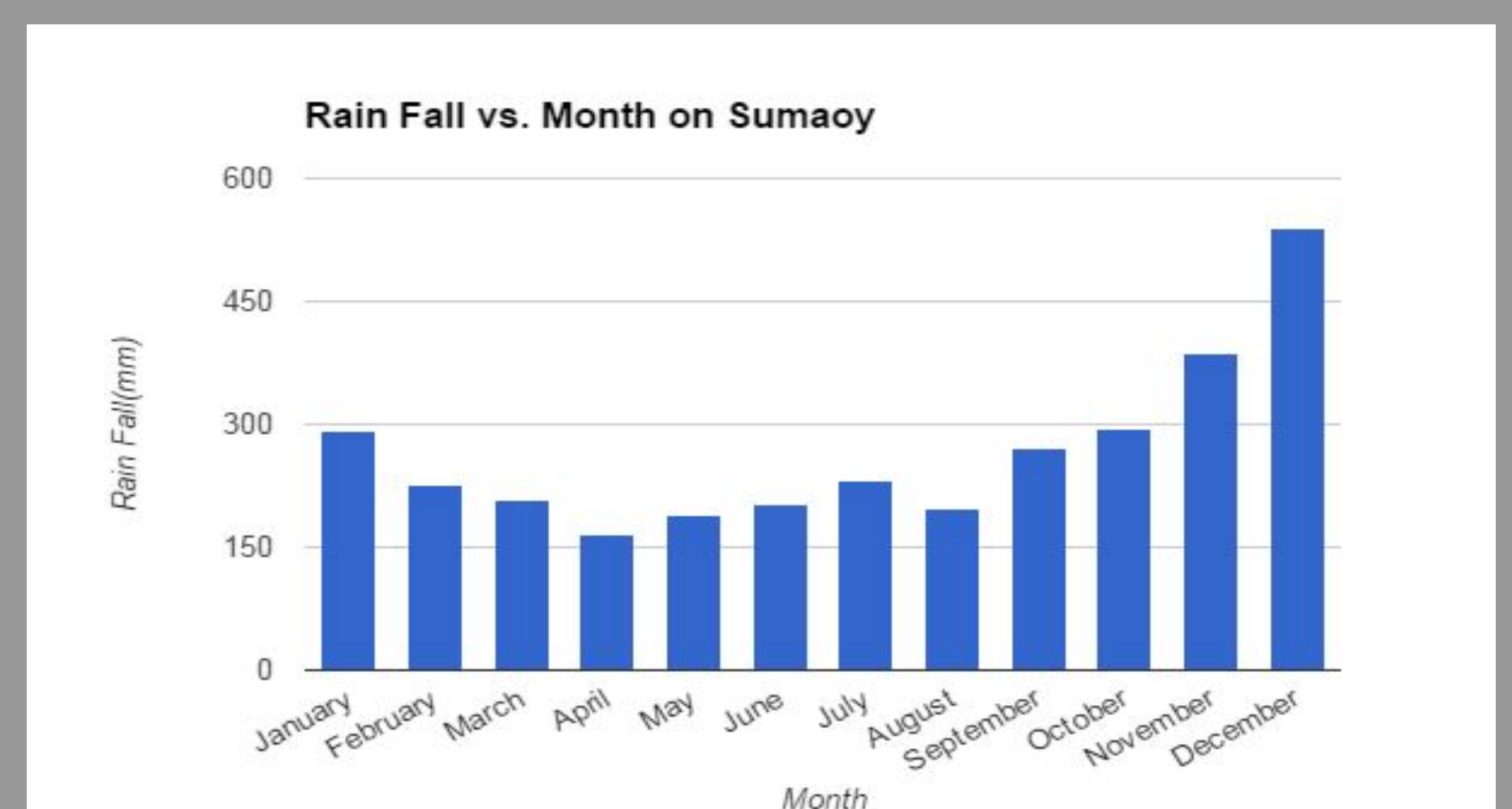
The water currently available in Sumaoy is contaminated by feces, trash, seawater and local pathogens. These toxins are known to cause nausea, vomiting, diarrhea, severe illness and even death.

Materials

- Bamboo (*Local*)
- Tightly Knit Mesh/Netting (*Local*)
- Rope/Twin (*Local*)
- Tarp
- Large Water Container
- Metallic Strips

Tower Production

Our design is composed of three conical regions that can be ***assembled and combined in two hours or less.*** This process can be done without any motorized or gas power tools.



Based on average rainfall through the year the tower should collect 26 gallons of water from the rain and water throughout the evening and night from moisture and fog.