

Problem

Animal agriculture is a major contributor to climate change, especially in terms of greenhouse gas emissions. Reducing meat consumption can provide significant health and environmental benefits.

"Livestock and their byproducts account for at least 32,000 million tons of carbon dioxide (CO2) per year, or 51% of all worldwide greenhouse gas emissions" (Hyner, 2015)

Methods

- Research how meat consumption contributes to GHG emissions
- Survey WPI students and collect data on meat consumption on campus
- Research ways to educate students on the environmental impact of a meatbased diet
- Suggest a general solution to be implemented on college campuses

References

Hyner, C. (2015, October 30). A Leading Cause of Everything: One Industry That Is Destroying Our Planet and Our Ability to Thrive on It. Ecology Law Quarterly.

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Project Happy Cow

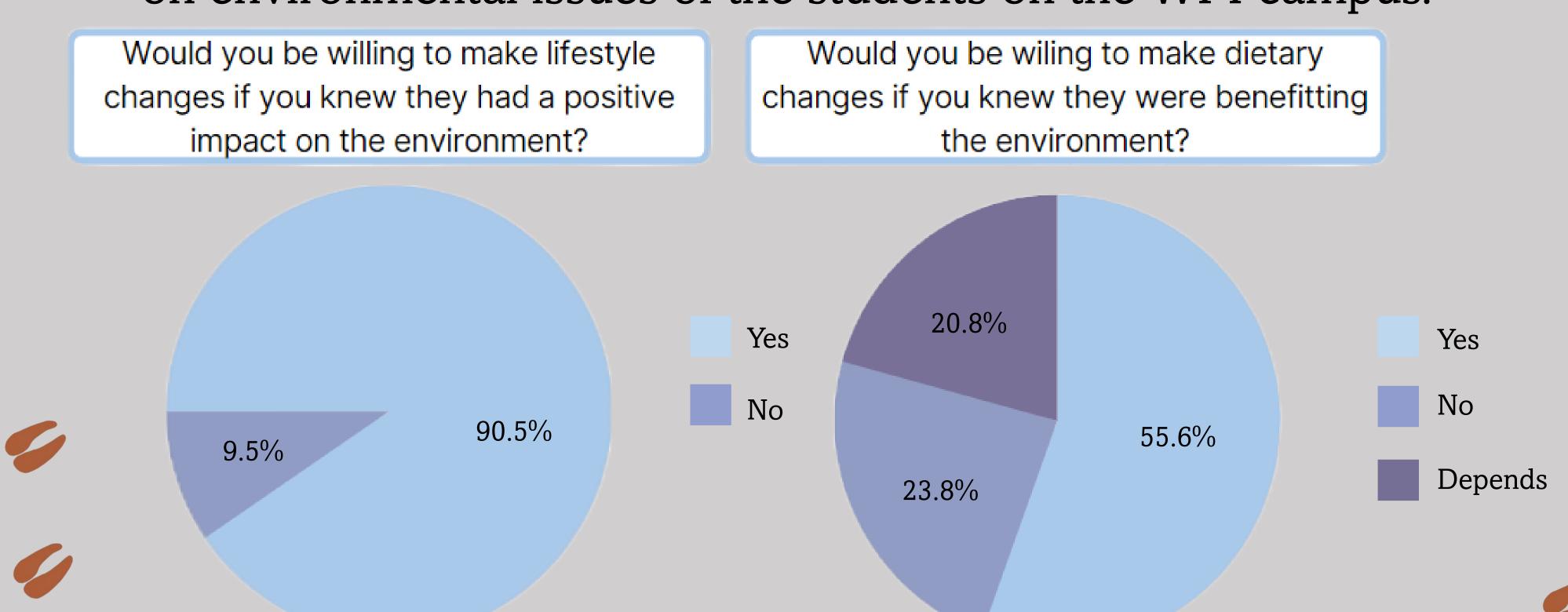
Understanding Meat Consumption on WPI Campus

Devin Roskoph, Kasia Nolan, Samantha Diener, Aishwarya Silam Professors M. Bakermans and G. Pfeifer | PLA Nina Quattromani Special thanks to Shauvan Cloran, Chartwell's dietitian, for providing her insight.

Objective

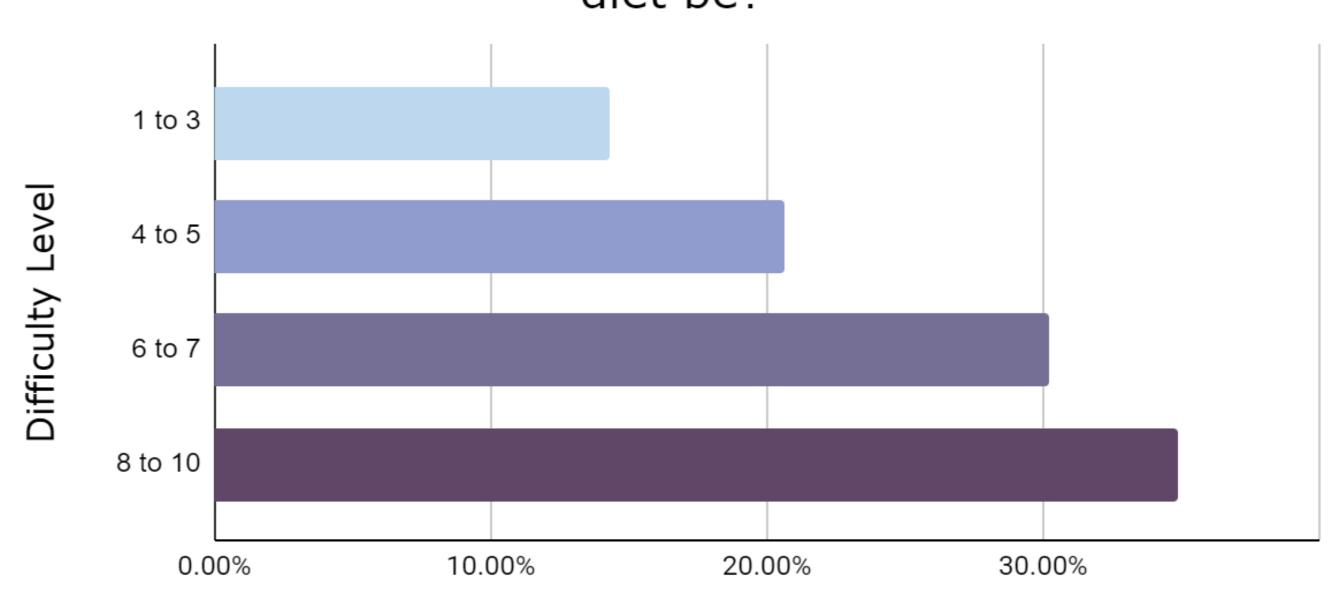
Research and understand the environmental impact of meat production and create an education method for college students to reduce meat consumption, general enough to be implemented on other campuses.

A survey was conducted to understand the dietary patterns and mindset on environmental issues of the students on the WPI campus.



Over 90% of students would be willing to make lifestyle changes because of their environmental impact, but only 55% of students would be willing to make dietary changes to benefit the environment.

On a scale from 1-10, how difficult would altering your diet be?



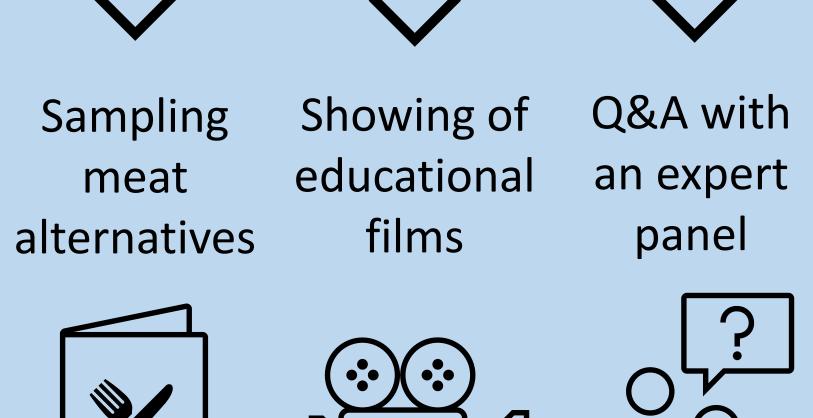
Percentage of People

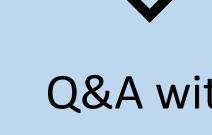
Survey results show that WPI students have an idea of how the meat industry contributes to climate change but are unsure how to alter their diets. Students need better education on plant-based alternatives and how to access them.



Effective Education

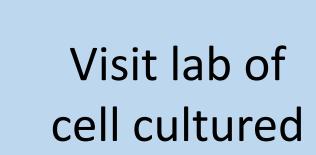
Engaging activities (Monroe et. al 2019) ex. debates, group discussions, handson labs, and field trips

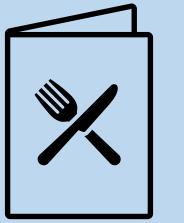






an expert panel





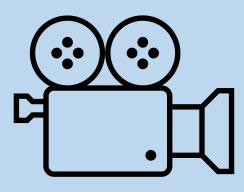
The majority of

WPI students would

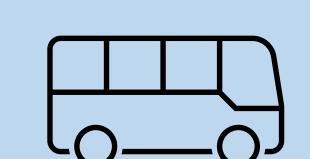
find it difficult or

extremely difficult

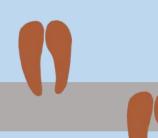
to alter their diet.







meats







The One Meal a Day approach is a great way to reduce consumption of animal products.

- The K-12 environmentally focused Muse School implemented an entirely plant-based lunch program
- 18-month long program to educate parents and students on the importance of eating plant-based Speaker series,

☆Calabasas

☆The Muse School

documentary showings, plant-based food tastings, and discussions about the change (Winfrey 2019)

A shining star example of effective education.