

PAM DAMOFF'S YOUTH COUNCIL GEN

GREEN PROJECT

DONE BY: KATIE AND SARA

WHO ARE WE?



PART 1: CARPOOLING



INTRODUCTION

DATA

- Hey everyone! So to hopefully best explain this project, I split up our process into two main parts- data and planning.
- The first part we worked on was data, and compiling and calculating information, to really get an as-accurate-as-possible calculation of our GHG emissions.
- I was lucky, as my calculations were fairly simple, but there was a lot of info to collect.

HOW?

DATA

- So to start off, all the committee leads had a Skype meeting with the Gen Green co-ordinators, where we learned about webinars to watch, collecting data, etc.
- I then watched a webinar that HCC provided to learn about the basics, how to use the calculation template, etc.
- We also all set up our google forms, that we agreed to last meeting to collect our data.

Generation Green Webinar #7 - Calculating and Reporting Your Impact

The screenshot displays an Excel spreadsheet titled "Generation Green Webinar #7 - Calculating and Reporting Your Impact". The spreadsheet is organized into several sections:

- Table 1: Fuel Consumption (L/100km)**

Type of Vehicle	Fuel Consumption (L/100km)
Electric Vehicle	0.0
Sedan	9.6
Van	30.7
Luxury Sedan	12.2
SUV	12.3
Pickup Truck	34.0
Sports Car	34.3
Diesel Bus	78.4
- Table 2: Emission Factor (g CO2eq/L)**

Mobile Combustion	Emission Coefficient (g CO2eq/L)
Gasoline Vehicles	2317
Light Duty Diesel Vehicles	2728
Heavy Duty Diesel Vehicles (Buses or trucks)	2748
- Active Transportation**

Mode	Value	Unit
Active Transportation	0	L/100km
Other	0	L/100km

Summary of Emissions:

- Baseline emissions = 1112.36 gCO2eq
- Program emissions = 861.7728 gCO2eq

Impact Summary:

- Impact = 250.5872 gCO2eq per 5 days
- = 50.07344 gCO2eq per day
- = 350.54308 gCO2eq per week
- = 1127.3619 gCO2eq per month
- = 18278.366 gCO2eq per year

COLLECTION

DATA

- So to figure out what questions to ask on my google form, it was crucial to look at the calculation template provided by HCC to understand what data needed to be collected. In addition, we needed to collect information to help with the planning process, which I'll get into later.
- The main info needed from the template was the distance everyone drove to both meetings, and the type of car they drove. We decided to calculate the distance to this meeting, using the distance from our checkpoints (schools) instead of over-complicating everything, and to use the average energy intensity of the cars we drove, instead of using a separate template for each person. (This will make more sense once you see the template.)

The image shows a screenshot of a Google Form titled "Carpooling Information" on the "Responses" tab, which shows 17 responses. The form is displayed in a browser window with the URL "docs.google.com". The first question is "How far did you travel to get to the last meeting? (Google Maps is a great resource) *", which is a "Short answer text" question. The second question is "How did you travel to the last meeting? *", which is a multiple-choice question with radio button options: Electric Vehicle, Sedan, Van, Luxury Sedan, SUV, Pickup Truck, Sports Car, Diesel Bus, Walking/Biking, and Other... The browser tabs show "committee interest - Google Forms" and "Carpooling Information - Google Forms".

THE CALCULATION TEMPLATE

DATA

- Baseline emissions: 44,469.741gCO₂eq
- Program emissions: 4891.6504gCO₂eq
- Difference: 39,578.09gCO₂eq (or 39.588kg)

PART 2: MEATLESS MONDAYS



INFORMATION

- We decided to go meatless (including meat, eggs and chicken)
- This was decided upon 5 weeks ago and on average all of us went meatless 1 day a week!
- We replaced meat with nuts, grains, dairy products, and pasta.

CALCULATION

- Using a google form, I asked everyone to give an account of what they usually ate on a regular day.
- Then on another google form, everyone gave specifics of what they ate on meatless days and how many days they committed to going meatless.

Food Emissions On Non-Vegan Days

- Please be specific and provide quantity and measurements.
- You can do everything in point-form
- To make your lives easier, just record what you eat on one specific day. You track it on your phone by just using a notes app OR you can use apps like "MyFitnessPal" or "Corn-o-meter."

Email address *

Valid email address

This form is collecting email addresses. [Change settings](#)

Please specify what you usually eat for breakfast (Provide the quantity - e.g; 2 white scrambled eggs)

Long-answer text

Please specify what you usually eat for Lunch (Again, be specific and give measurements)

Long-answer text

Meatless Days

Form description

Email address *

Valid email address

This form is collecting email addresses. [Change settings](#)

How many days have you committed to going meatless this month?

Short-answer text

Please specify what you had for breakfast (if possible give weight)

Long-answer text

CALCULATION FOR BASELINE (1 DAY RESULTS ONLY)

- Chicken consumed: 1.278kg
- Beef consumed: 0.518kg
- Eggs consumed: 0.21123kg

CALCULATION AFTER PROGRAM

- Chicken consumed: 0.31kg
- Beef consumed: 0kg
- Eggs consumed: 0.12kg
- Nuts/Grains consumed: 1.063kg
- Dairy consumed: 0.3364kg
- Pasta consumed: 1kg

CARBON EMISSIONS - BASELINE

- Chicken: 8.8182 kgCO₂eq/kg
- Beef: 12.986 kgCO₂eq/kg
- Eggs: 1.013 kgCO₂eq/kg

Baseline Emission: 18210.38359gCO₂eq (or 18.21kg)

Impact for 30 days: 233236.0495gCO₂eq (or 546.3kg)

CARBON EMISSIONS – PROGRAM (1 DAY CALCULATION ONLY)

- Chicken: 2.139kgCO₂eq/kg
- Beef: 0
- Eggs: 0.828kgCO₂eq/kg
- Nuts/Grains: 2.4449kgCO₂eq/kg
- Dairy: 4.5414kgCO₂eq/kg
- Pasta: 0.61kgCO₂eq/kg

Total Emissions: 10563.3gCO₂eq (or 10.563kg)

WHAT WE SAVED

- Baseline (Food): 18.21038359kg
- After (Food): 10.563kg
- Difference (Food): 7.6473835kgCO₂eq **SAVED!!!**

THIS MONTH AS A TEAM WE SAVED
77.8149KGC02EQ ON AVERAGE!!!!

THE END