

Calculate Your Carbon Footprint Worksheet

Data Tables

Residential Emissions Data Table

	Daily Usage	Daily CO ₂ Emissions (metric tons)	Annual CO ₂ Emissions (metric tons)
Electricity	kWh		
Natural Gas	CCF		
Heating Oil	gallons		
Propane	gallons		

Travel Emissions Data Table

	Average Annual Distance Traveled (miles)	Volume of Fuel Consumed (gallons)	Annual CO ₂ Emissions (metric tons)
Car Travel			
Airplane Travel			
Train Travel			
Bus Travel			

Hospitality Emissions Data Table

	Annual CO ₂ Emissions (metric tons)
Newspapers	
Magazines	
Glass	
Plastics	

Post-Lab Calculations and Questions

- Based on the information provided in Table 1 of the *Background* section, as well as the information entered in the Residential Emissions Data Table, calculate your daily CO₂ emissions as well as your annual CO₂ emissions for electricity, natural gas, heating oil and propane. Record the results in the Residential Emissions Data Table.
- Explain how you calculated the annual distance traveled for each mode of transportation listed in the Transportation Data Table.
- Based on the information provided in Table 2 of the *Background* section, as well as the information entered in the Transportation Data Table, calculate the volume of fuel consumed by car travel (based on the mpg). Calculate the annual CO₂ emissions for each mode of travel. Record in the Transportation Emission Data Table.
- Add your annual CO₂ emissions from each category of the Residential, Transportation, and Hospitality Data Tables. This is your annual carbon footprint. Record above.
- Calculate the percentage each component contributes to your overall carbon footprint. Prepare a pie chart to show the amount (percent) contributed by each aspect of your daily life.
- Compare your carbon footprint with those of three of your classmates. How do your carbon footprints differ?
- What activities could be modified to have the greatest impact on reducing your carbon footprint?
- What other activities, not included on this worksheet, may also contribute to your carbon footprint?