Results of the Sustainability Literacy Survey 2015
The Office of Campus Sustainability - University of Ottawa

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Abstract

This report will outline the results of the Sustainability Literacy Survey administered in 2015. It will identify key findings, including strong and weak areas of sustainability knowledge within the University of Ottawa community, and possible factors that could be responsible for these strengths or weaknesses.

Results of the Sustainability Literacy Survey 2015

Assessing sustainability literacy is important for an institution to gain a better understanding of its community's knowledge about sustainability and sustainability efforts. Results from sustainable literacy surveys can be used to improve uOttawa's experiential and academic programming. Furthermore, it can provide insights on how operational groups can better communicate concepts and ideas to the community in a colloquial fashion to improve participation in related programming. Ultimately, greater time and funding can be dedicated towards campaigns identifying gaps sustainability knowledge

Method

Survey Composition

This survey is composed of two parts. The first part consists of Questions 1 through 4, which aim to gauge the demographic characteristics and identity of the participants. The second part consists of questions 5 through 19, for which there is an answer key and a previously agreed upon correct answer for each. These questions focus on several different aspects of sustainability, from waste to climate change and energy. They also focus on either Canada or North America for questions related to environmental law, economics, and geography-specific questions.
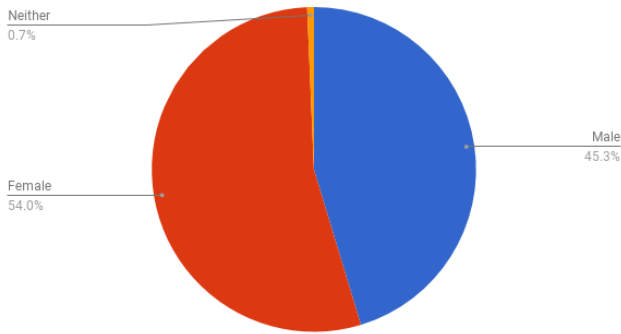
Participants

The participants in this survey were chosen based on a snowball sampling method. The survey was presented to approximately 170 students who were taking course ENV1101, and they were instructed to administer the survey to at least ten people who should represent different aspects of the university (i.e., not just students).

1,196 people responded to the survey. Of these 1,196 people, 646 (54.0%) identify as female, 542 (45.3%) identify as male, and 8 (less than 1%) identify as neither female nor male, according to their responses to Question 1. In response to Question 2 regarding age group, 948 people are under the age of 25 (79.3%), 147 are between 25 and 40 years (12.3%), and 101 are over 40 years (8.4%). In terms of their identity or role within the university community (Question 3), 33 identified as community members (2.8%), 81 identified as graduate students (6.8%), 9 identified as other (0.8%), 83 identified as professors (6.9%), 87 identified as support staff (7.27%), and 903 identified as undergraduate students (75.5%).

In response to Question 4, 197 participants responded that they spend less than 15 hours on campus per week (16.5%), 399 responded that they spend 16-24 hours per week (33.4%), 372 responded that they spent 25-40 hours per week (31.1%), and 228 responded that they spend more than 40 hours per week on campus (19.1%).
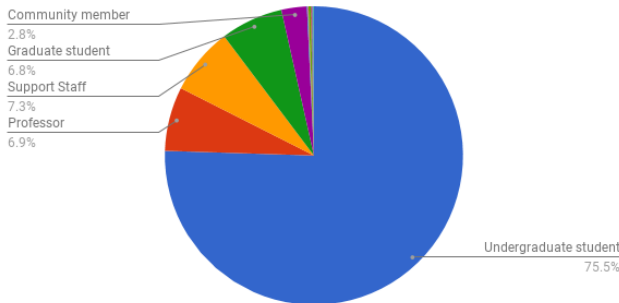
Question 1: What gender do you most identify with?

Neither 0.7%
Female 54.0%
Male 45.3%

Question 2: What is your age group?

Over 40 8.4%
25 to 40 12.3%
Under 25 79.3%
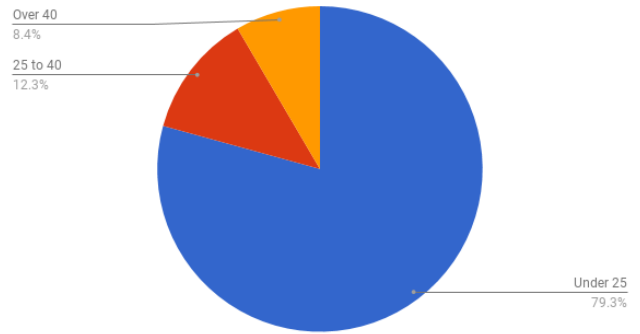
Assessments and Measures

The survey was administered on double-sided paper for participants to fill out their responses. Results were added to a Microsoft Excel document to be analyzed and interpreted. Some results had to be dismissed because there were multiple answers to a single question and other response errors.

Question 3: How do you identify yourself within the university community?

Community member 2.8%
Graduate student 6.8%
Support Staff 7.3%
Professor 6.9%
Undergraduate student 75.5%

Question 4: Approximately how many hours on average do you spend on campus over the course of a typical week?

More than 40 hours 19.1%
Less than 15 hours 16.5%
16 to 24 hours 33.4%
25 to 40 hours 31.1%
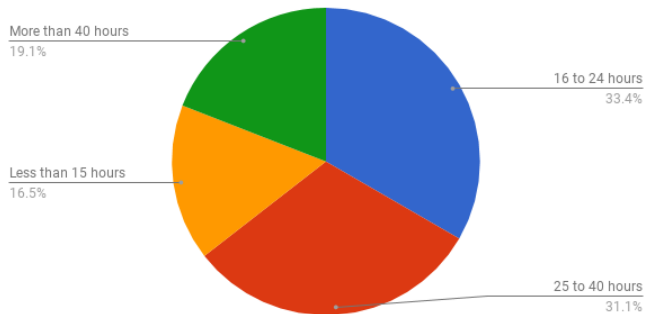
Results

Q6 - Ozone forms a protective layer in the earth's upper atmosphere. What does ozone protect us from?

Correct Answer: UV rays

Correct Responses: 80%

More people answered Question 6 correctly than any other question. An understanding of the importance of the ozone layer is likely due to the increasing education about climate change. The growing size of holes in the ozone layer coupled with increased risk of UV radiation was one of the first major themes of discussion when climate change starting becoming better known. Refer to Q12 for additional results about respondent knowledge regarding climate change.

Q7 - Which country do you believe produces the most waste per capita in the world?

Correct Answer: Canada

Correct Responses: 9%

Question 7 asked respondents to decide which country they believed had the worst waste habits in the world. Less than 10 percent of people answered Question 7 correctly, revealing Canadians perceive their country's waste habits to be better than they actually are in reality.

Which country do you believe produces the most waste per capita in the world?

Country	Number of Responses
The United States	~560
South Africa	~20
Germany	~20
China	~490
Canada	~110
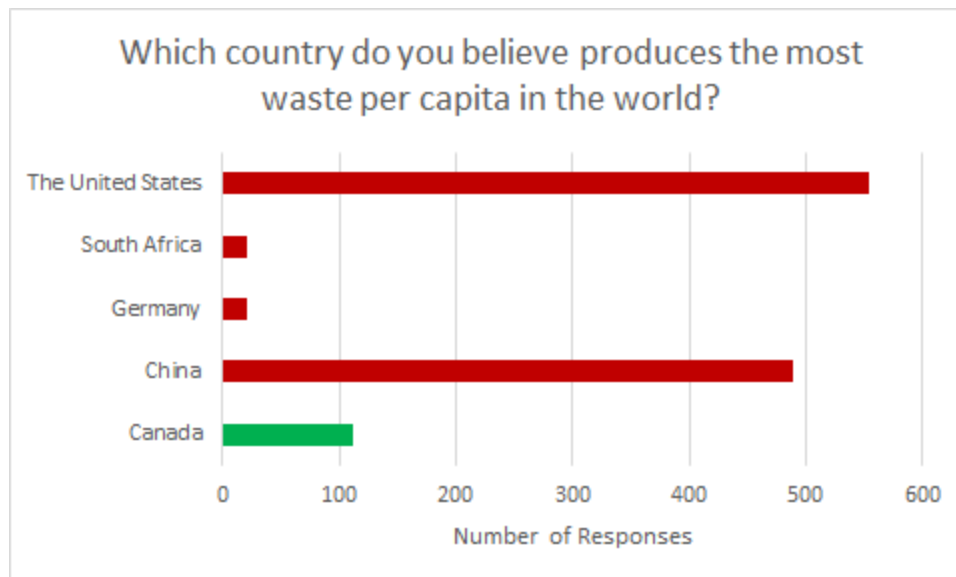
Q8 - Which of the following is an example of sustainable forest management?
> Correct Answer: Never harvesting more than what the forest produces in new growth
> Correct Responses: 69%

Q9 - Many economists argue that electricity prices in North America are too low because…
> Correct Answer: They do not reflect the costs of pollution from generating the electricity
> Correct Responses: 50%

Q10 - Which of the following is considered a leading cause of the depletion of fish stocks in the Atlantic Ocean?
> Correct Answer: Fishermen seeking to maximize their catch
> Correct Responses: 41%
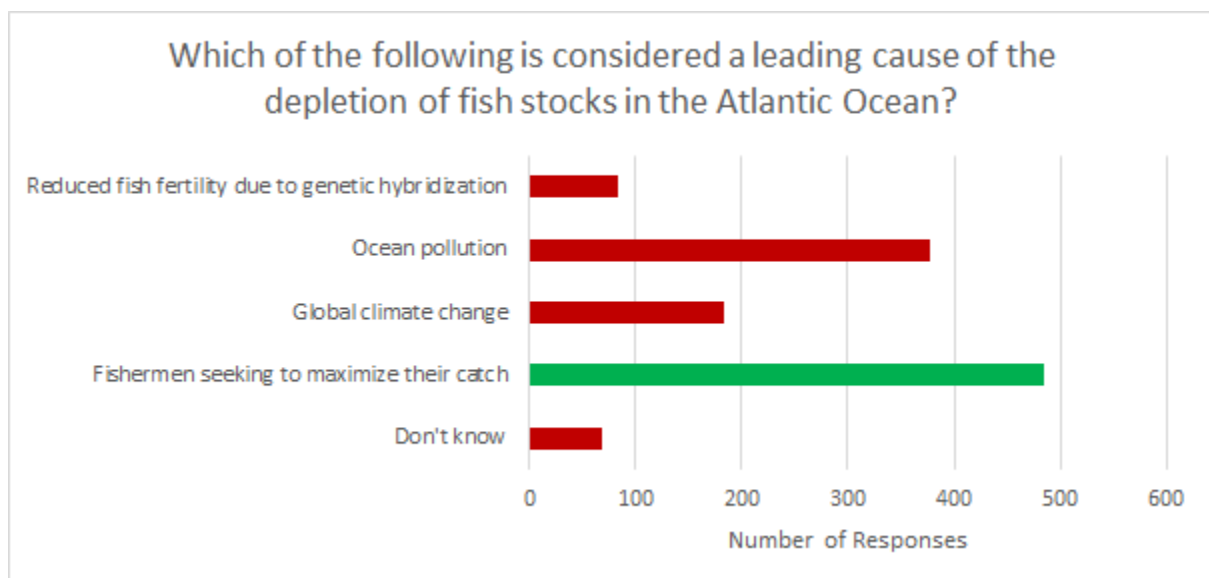
Which of the following is considered a leading cause of the depletion of fish stocks in the Atlantic Ocean?

Response	Number of Responses
Reduced fish fertility due to genetic hybridization	~85
Ocean pollution	~375
Global climate change	~180
Fishermen seeking to maximize their catch	~485
Don't know	~65

Q11 - Which of the following do you believe is the primary reason that gasoline prices have risen over the last several decades in Canada?
> Correct Answer: Increasing global demand for oil

Correct Responses: 57%

Q12 - Which of the following has been identified as a potential effect of global climate change?
Correct Answer: Loss of habitat
Correct Responses: 37%

The poor response to Q12 was likely due to the wording of the question combined with the possible answers. 'Loss of the ozone layer' was the most frequently selected response as a potential effect of climate change, followed by 'loss of habitats' which was the correct answer. In reality, climate change is *caused*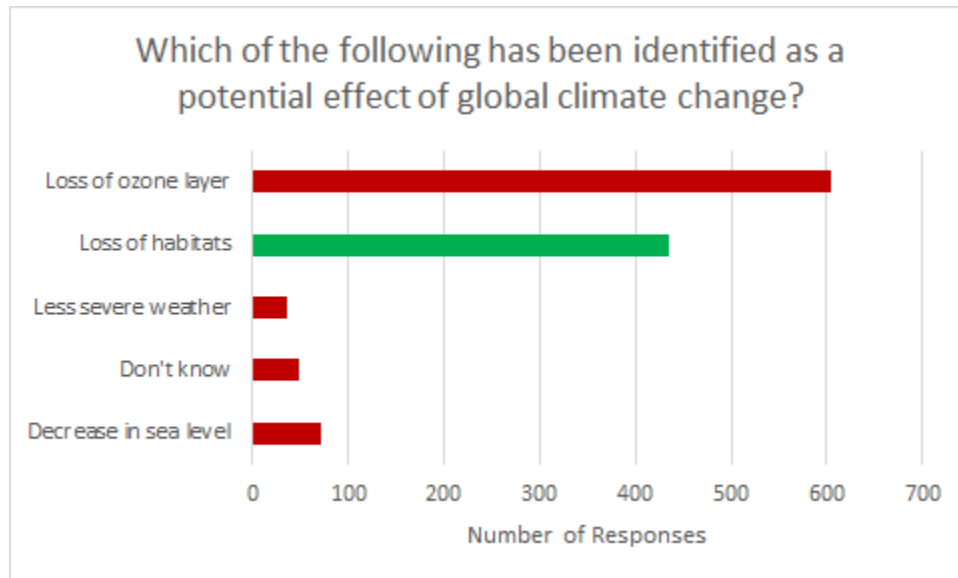 by a loss in the ozone layer. The *effects* of climate change include loss of habitat, more severe weather, and an increase in sea level. The high incidence of the 'loss of ozone layer' and 'loss of habitat' responses indicate the sample population may have confused the causes and effects of climate change when answering Q12.

Q13 - The most significant driver in the loss of species and ecosystems around the world is…
Correct Answer: Conversion of natural spaces into human developments
Correct Responses: 65%

Q14 - What is the name of the primary federal agency that oversees environmental regulation?
Correct Answer: Environment Canada
Correct Responses: 68%

Q15 - What is the most commonly recognized definition of sustainable development?
Correct Answer: Environment Canada
Correct Responses: 67%

Q16 - What percentage of Canada's marine territories is considered protected areas?
Correct Answer: Less than 1%
Correct Responses: 36%

What percentage of Canada's marine territories is considered protected areas?
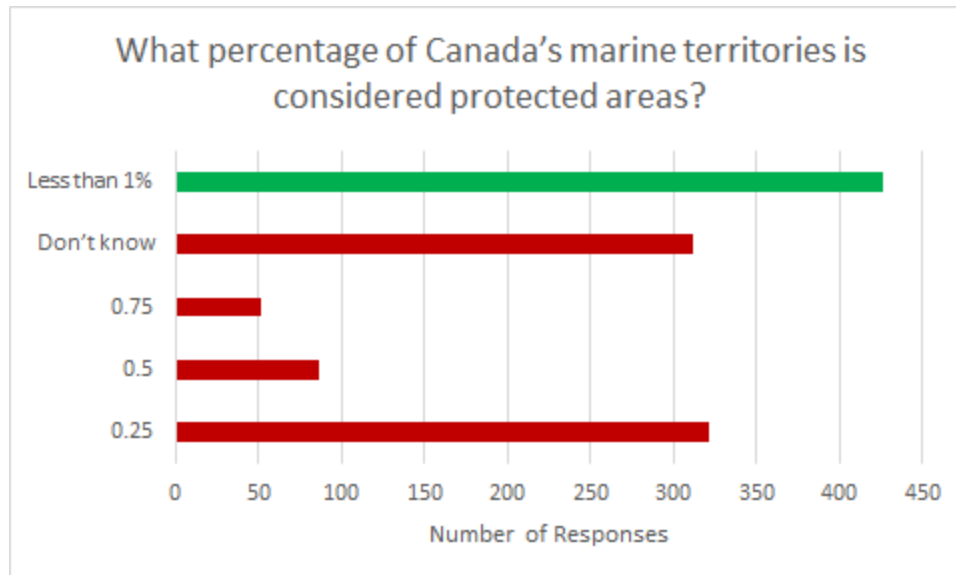
More people answered 'I don't know' for Q16 than any other question on the survey. Many respondents also believed the Canadian government was protecting 25% or more of the country's marine territories, when in reality less than 1% of territories are considered protected.

While the correct answer for Q16 was chosen more than any other option, there is an obvious gap in knowledge surrounding legislative protection of natural resources in Canada.

Q17 - In Canada, what level of income is considered to be at the poverty line?
      Correct Answer: $20,000
      Correct Responses: 35%

Q18 - The Oil Sands in Alberta represent what percentage of Canada's Gross Domestic Product (GDP)?
      Correct Answer: $20,000
      Correct Responses: 26%

The Oil Sands in Alberta represent what percentage of Canada's Gross Domestic Product (GDP)?
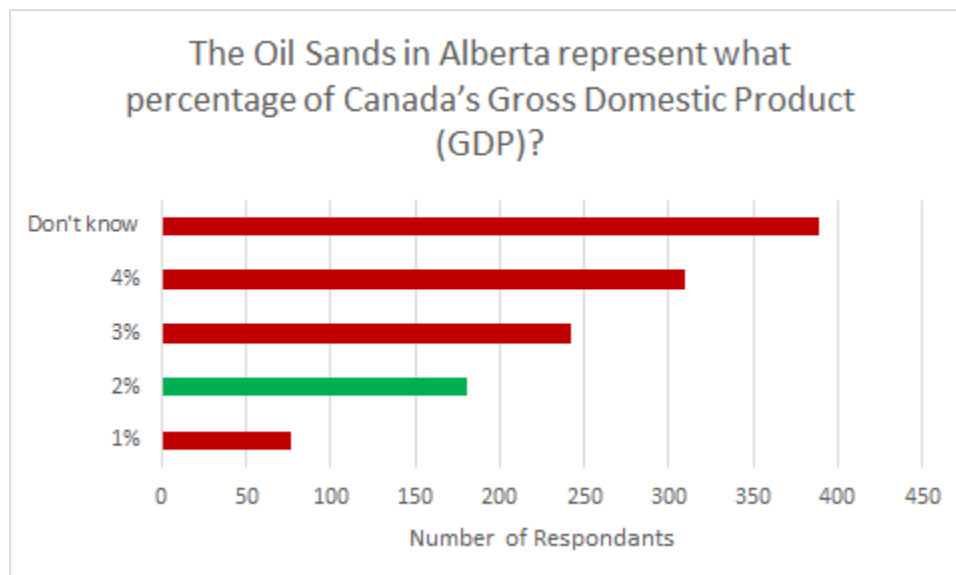
The marginally small differences between answer options likely contributed to the poor performance on Q18. This question did not reveal much about student's understanding of the fossil fuel's significance in Canada's economy.

Q19 - The most common item found in household recycling bins is…
Correct Answer: Paper
Correct Responses: 36%
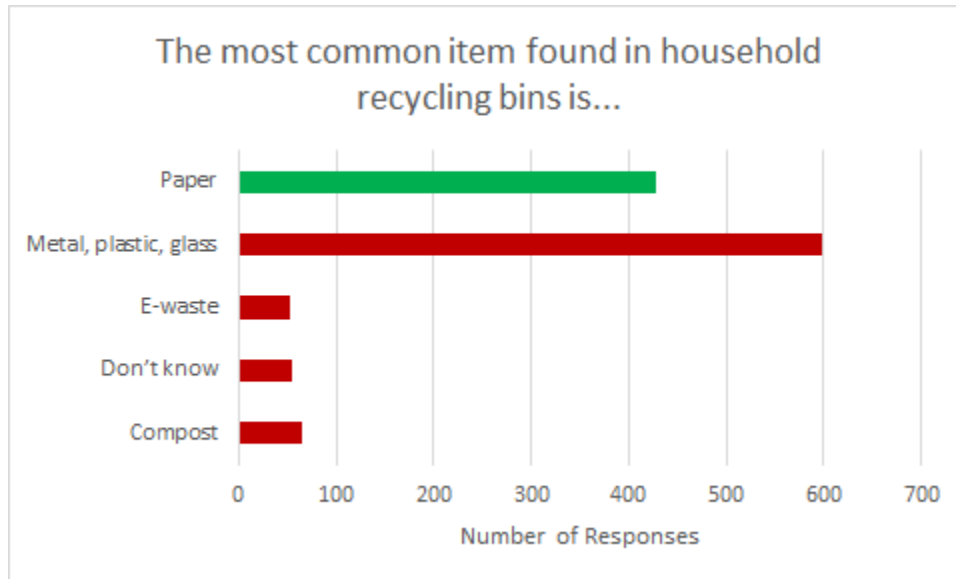
The following four sections show the results of the survey and how they are affected by the responses to the four demographic questions that the survey begins with. The correct answer is shown in grey.

Outcome 1
Responses to Questions 5 through 19, cross referenced with responses to Question 1: Which gender do you most identify with?

Q5: What would you think is the most common cause of pollution of stream and rivers in Canada?					
Gender	Don't know	Dumping of garbage by cities	Litter near streams and rivers	Surface water running off yards, city streets, paved lots and farm fields	Waste dumped by factories	Grand Total
Female	5.88%	23.99%	10.37%	27.09%	32.66%	100.00%
Male	6.64%	24.91%	8.12%	27.12%	33.21%	100.00%
Neither	12.50%	0.00%	25.00%	37.50%	25.00%	100.00%
Grand Total	6.27%	24.25%	9.45%	27.17%	32.86%	100.00%

Q6: Ozone forms a protective layer in the earth's upper atmosphere. What does ozone protect us from?					
Gender	Acid rain	Climate change	Don't know	Sudden changes in temperature	UV rays	Grand Total
Female	3.10%	9.29%	4.49%	4.33%	78.79%	100.00%

Male	3.51%	7.38%	2.40%	5.17%	81.55%	100.00%
Neither	0.00%	0.00%	12.50%	0.00%	87.50%	100.00%
Grand Total	3.26%	8.36%	3.60%	4.68%	80.10%	100.00%

Q7: Which country do you believe produces the most waste per capita in the world?

Gender	Canada	China	Germany	South Africa	The United States	Grand Total
Female	7.43%	42.11%	1.70%	2.17%	46.59%	100.00%
Male	11.25%	39.67%	1.85%	1.11%	46.13%	100.00%
Neither	25.00%	25.00%	0.00%	0.00%	50.00%	100.00%
Grand Total	9.28%	40.89%	1.76%	1.67%	46.40%	100.00%

Q8: Which of the following is an example of sustainable forest management?

Gender	Don't know	Never harvesting more than what the forest produces in new growth	Producing lumber for communities to build affordable housing	Putting the local communities in charge of forest resources	Setting aside forests to be off limits to the public	Grand Total
Female	6.81%	67.34%	2.94%	4.02%	18.89%	100.00%
Male	5.90%	71.59%	3.51%	4.80%	14.21%	100.00%
Neither	25.00%	62.50%	0.00%	12.50%	0.00%	100.00%
Grand Total	6.52%	69.23%	3.18%	4.43%	16.64%	100.00%

Q9: Many economists argue that electricity prices in North America are too low because...

Gender	Consumers spend only a small part of their income on energy	Don't know	Electric companies have a monopoly in their service area	They do not reflect the cost of pollution from generating electricity	Too many suppliers go out of business	Grand Total
Female	7.28%	18.58%	17.96%	52.01%	4.18%	100%
Male	9.04%	15.50%	21.77%	47.79%	5.90%	100%
Neither	0.00%	37.50%	12.50%	50.00%	0.00%	100%
Grand Total	8.03%	17.31%	19.65%	50.08%	4.93%	100%

Q10: Which of the following is considered a leading cause of the depletion of fish stocks in the Atlantic Ocean?

Gender	Don't know	Fishermen seeking to maximize their catch	Global climate change	Ocean pollution	Reduced fish fertility due to genetic hybridization	Grand Total
Female	6.04%	38.24%	16.56%	33.44%	5.73%	100.00%
Male	4.80%	43.73%	13.84%	29.15%	8.49%	100.00%

Neither	37.50%	12.50%	12.50%	37.50%	0.00%	100.00%
Grand Total	5.69%	40.55%	15.30%	31.52%	6.94%	100.00%

Q11: Which of the following do you believe is the primary reason that gasoline prices have risen over the last several decades in Canada?

Gender	Don't know	Growing percentage of gas stations owned by large corporations	Higher rates of state and federal gasoline tax	Increasing global demand for oil	Increasing oil discoveries overseas	Grand Total
Female	7.12%	11.46%	13.31%	56.04%	12.07%	100.00%
Male	6.83%	11.07%	14.21%	57.75%	10.15%	100.00%
Neither	37.50%	0.00%	12.50%	37.50%	12.50%	100.00%
Grand Total	7.19%	11.20%	13.71%	56.69%	11.20%	100.00%

Q12 Which of the following has been identified as a potential effect of global climate change?

Gender	Decrease in sea level	Don't know	Less severe weather	Loss of habitats	Loss of ozone layer	Grand Total
Female	6.81%	3.56%	3.72%	32.97%	52.94%	100.00%
Male	4.80%	4.61%	2.03%	40.77%	47.79%	100.00%
Neither	12.50%	12.50%	0.00%	25.00%	50.00%	100.00%
Grand Total	5.94%	4.10%	2.93%	36.45%	50.59%	100.00%

Q13: The most significant driver in the loss of species and ecosystems around the world is...

Gender	Acid rain	Breeding of animals in zoos	Conversion of natural spaces into human developments (farmland, cities, etc.)	Don't know	Overhunting/ overharvesting	Grand Total
Female	3.10%	2.01%	65.79%	5.26%	23.84%	100.00%
Male	2.95%	2.03%	64.21%	4.06%	26.75%	100.00%
Neither	0.00%	0.00%	62.50%	12.50%	25.00%	100.00%
Grand Total	3.01%	2.01%	65.05%	4.77%	25.17%	100.00%

Q14: What is the name of the primary federal agency that oversees environmental regulation?

Gender	Don't know	Environment Canada	Natural Resources Canada	The Canadian Environmental Network	The National Roundtable on the Economy and the Environment	Grand Total
Female	13.00%	66.72%	12.54%	4.80%	2.94%	100.00%
Male	13.28%	70.30%	11.25%	2.58%	2.58%	100.00%
Neither	25.00%	62.50%	12.50%	0.00%	0.00%	100.00%

Grand Total	13.21%	68.31%	11.96%	3.76%	2.76%	100.00%

Q15: What is the most commonly recognized definition of sustainable development?

Gender	Developing space without destroying biodiversity	Development that respects race, religion, and gender	Don't know	Having enough money to build something without requiring a loan	Having enough money to build something without requiring a loan	Meeting the needs of today without compromising the needs of future generations	Grand Total
Female	18.58%	2.48%	6.19%	0.77%	2.94%	69.04%	100.00%
Male	21.59%	3.32%	6.46%	0.55%	2.77%	65.31%	100.00%
Neither	0.00%	0.00%	25.00%	0.00%	0.00%	75.00%	100.00%
Grand Total	19.82%	2.84%	6.44%	0.67%	2.84%	67.39%	100.00%

Q16: What percentage of Canada's marine territories is considered protected areas?

Gender	0.25	0.5	0.75	Don't know	Less than 1%	Grand Total
Female	27.86%	5.57%	4.80%	26.78%	34.98%	100.00%
Male	25.83%	9.04%	3.69%	24.72%	36.72%	100.00%
Neither	12.50%	12.50%	0.00%	62.50%	12.50%	100.00%
Grand Total	26.84%	7.19%	4.26%	26.09%	35.62%	100.00%

Q17: In Canada, what annual level of income is considered to be at the poverty line?

Gender	$5,000	$10,000	$15,000	$20,000	Don't know	Grand Total
Female	10.22%	18.89%	23.22%	32.82%	14.86%	100.00%
Male	6.64%	18.45%	24.17%	38.75%	11.99%	100.00%
Neither	0.00%	12.50%	0.00%	25.00%	62.50%	100.00%
Grand Total	8.53%	18.65%	23.49%	35.45%	13.88%	100.00%

Q18: The Oil Sands in Alberta represent what percentage of Canada's Gross Domestic Product (GDP)?

Gender	1%	2%	3%	4%	Don't know	Grand Total
Female	5.88%	13.62%	21.21%	24.77%	34.52%	100.00%
Male	7.01%	16.97%	19.19%	27.31%	29.52%	100.00%
Neither	0.00%	0.00%	12.50%	12.50%	75.00%	100.00%
Grand Total	6.35%	15.05%	20.23%	25.84%	32.53%	100.00%

Q19: The most common item found in household recycling bins is....

Gender	Compost	Don't know	E-waste	Metal, plastic, glass	Paper	Grand Total
Female	5.11%	4.33%	4.18%	50.62%	35.76%	100.00%
Male	5.72%	4.61%	4.61%	49.26%	35.79%	100.00%
Neither	0.00%	12.50%	0.00%	50.00%	37.50%	100.00%
Grand Total	5.35%	4.52%	4.35%	50.00%	35.79%	100.00%

Outcome 2

Responses to Questions 5 through 19, cross referenced with responses to Question 2: What is your age group?

Q5: What would you think is the most common cause of pollution of stream and rivers in Canada?

Age	Don't know	Dumping of garbage by cities	Litter near streams and rivers	Surface water running off yards, city streets, paved lots and farm fields	Waste dumped by factories	Grand Total
25 to 40	3.40%	21.09%	8.84%	27.21%	39.46%	100.00%
Over 40	2.97%	18.81%	3.96%	37.62%	36.63%	100.00%
Under 25	7.07%	25.32%	10.13%	26.05%	31.43%	100.00%
Grand Total	6.27%	24.25%	9.45%	27.17%	32.86%	100.00%

Q6: Ozone forms a protective layer in the earth's upper atmosphere. What does ozone protect us from?

Age	Acid rain	Climate change	Don't know	Sudden changes in temperature	UV rays	Grand Total
25 to 40	4.76%	7.48%	2.04%	4.76%	80.95%	100.00%
Over 40	1.98%	7.92%	2.97%	1.98%	85.15%	100.00%
Under 25	3.16%	8.54%	3.90%	4.96%	79.43%	100.00%
Grand Total	3.26%	8.36%	3.60%	4.68%	80.10%	100.00%

Q7: Which country do you believe produces the most waste per capita in the world?

Row Labels	Canada	China	Germany	South Africa	The United States	Grand Total
25 to 40	11.56%	39.46%	2.72%	1.36%	44.90%	100.00%
Over 40	9.90%	37.62%	0.00%	0.00%	52.48%	100.00%
Under 25	8.86%	41.46%	1.79%	1.90%	45.99%	100.00%

Grand Total	9.28%	40.89%	1.76%	1.67%	46.40%	100.00%

Q8: Which of the following is an example of sustainable forest management?

Age	Don't know	Never harvesting more than what the forest produces in new growth	Producing lumber for communities to build affordable housing	Putting the local communities in charge of forest resources	Setting aside forests to be off limits to the public	Grand Total
25 to 40	4.76%	66.67%	3.40%	6.12%	19.05%	100.00%
Over 40	2.97%	78.22%	1.98%	1.98%	14.85%	100.00%
Under 25	7.17%	68.67%	3.27%	4.43%	16.46%	100.00%
Grand Total	6.52%	69.23%	3.18%	4.43%	16.64%	100.00%

Q9: Many economists argue that electricity prices in North America are too low because...

Age	Consumers spend only a small part of their income on energy	Don't know	Electric companies have a monopoly in their service area	They do not reflect the cost of pollution from generating electricity	Too many suppliers go out of business	Grand Total
25 to 40	7.48%	14.29%	27.21%	46.94%	4.08%	100.00%
Over 40	10.89%	11.88%	15.84%	58.42%	2.97%	100.00%
Under 25	7.81%	18.35%	18.88%	49.68%	5.27%	100.00%
Grand Total	8.03%	17.31%	19.65%	50.08%	4.93%	100.00%

Q10: Which of the following is considered a leading cause of the depletion of fish stocks in the Atlantic Ocean?

Age	Don't know	Fishermen seeking to maximize their catch	Global climate change	Ocean pollution	Reduced fish fertility due to genetic hybridization	Grand Total
25 to 40	4.76%	35.37%	14.97%	38.10%	6.80%	100.00%
Over 40	1.98%	50.50%	14.85%	29.70%	2.97%	100.00%
Under 25	6.22%	40.30%	15.40%	30.70%	7.38%	100.00%
Grand Total	5.69%	40.55%	15.30%	31.52%	6.94%	100.00%

Q11: Which of the following do you believe is the primary reason that gasoline prices have risen over the last several decades in Canada?

Age	Don't know	Growing percentage of gas stations owned by large corporations	Higher rates of state and federal gasoline tax	Increasing global demand for oil	Increasing oil discoveries overseas	Grand Total
25 to 40	2.04%	10.20%	12.93%	61.22%	13.61%	100.00%
Over 40	5.94%	13.86%	11.88%	63.37%	4.95%	100.00%
Under 25	8.12%	11.08%	14.03%	55.27%	11.50%	100.00%

Grand Total	7.19%	11.20%	13.71%	56.69%	11.20%	100.00%

Q12: Which of the following has been identified as a potential effect of global climate change?

Age	Decrease in sea level	Don't know	Less severe weather	Loss of habitats	Loss of ozone layer	Grand Total
25 to 40	4.76%	3.40%	4.08%	33.33%	54.42%	100.00%
Over 40	2.97%	0.99%	0.99%	51.49%	43.56%	100.00%
Under 25	6.43%	4.54%	2.95%	35.34%	50.74%	100.00%
Grand Total	5.94%	4.10%	2.93%	36.45%	50.59%	100.00%

Q13: The most significant driver in the loss of species and ecosystems around the world is…

Age	Acid rain	Breeding of animals in zoos	Conversion of natural spaces into human developments (farmland, cities, etc.)	Don't know	Overhunting/ overharvesting	Grand Total
25 to 40	4.76%	3.40%	62.59%	4.08%	25.17%	100.00%
Over 40	2.97%	0.99%	64.36%	3.96%	27.72%	100.00%
Under 25	2.74%	1.90%	65.51%	4.96%	24.89%	100.00%
Grand Total	3.01%	2.01%	65.05%	4.77%	25.17%	100.00%

Q14: What is the name of the primary federal agency that oversees environmental regulation?

Age	Don't know	Environment Canada	Natural Resources Canada	The Canadian Environmental Network	The National Roundtable on the Economy and the Environment	Grand Total
25 to 40	8.16%	72.79%	11.56%	2.72%	4.76%	100.00%
Over 40	6.93%	73.27%	14.85%	1.98%	2.97%	100.00%
Under 25	14.66%	67.09%	11.71%	4.11%	2.43%	100.00%
Grand Total	13.21%	68.31%	11.96%	3.76%	2.76%	100.00%

Q15: What is the most commonly recognized definition of sustainable development?

Age	Developing space without destroying biodiversity	Development that respects race, religion, and gender	Don't know	Having enough money to build something without requiring a loan	Having enough money to build something without requiring a loan	Meeting the needs of today without compromising the needs of future generations	Grand Total
25 to 40	19.05%	4.76%	2.72%	1.36%	2.72%	69.39%	100.00%
Over 40	20.79%	0.00%	1.98%	0.00%	0.00%	77.23%	100.00%
Under 25	19.83%	2.85%	7.49%	0.63%	3.16%	66.03%	100.00%

Grand Total	19.82%	2.84%	6.44%	0.67%	2.84%	67.39%	100.00%

Q16: What percentage of Canada's marine territories is considered protected areas?

Age	0.25	0.5	0.75	Don't know	Less than 1%	Grand Total
25 to 40	23.13%	10.20%	4.76%	19.05%	42.86%	100.00%
Over 40	22.77%	6.93%	2.97%	15.84%	51.49%	100.00%
Under 25	27.85%	6.75%	4.32%	28.27%	32.81%	100.00%
Grand Total	26.84%	7.19%	4.26%	26.09%	35.62%	100.00%

Q17: In Canada, what level of income is considered to be at the poverty line?

Age	$5,000	$10,000	$15,000	$20,000	Don't know	Grand Total
25 to 40	10.20%	17.01%	30.61%	38.78%	3.40%	100.00%
Over 40	3.96%	17.82%	21.78%	49.50%	6.93%	100.00%
Under 25	8.76%	18.99%	22.57%	33.44%	16.24%	100.00%
Grand Total	8.53%	18.65%	23.49%	35.45%	13.88%	100.00%

Q18: The Oil Sands in Alberta represent what percentage of Canada's Gross Domestic Product (GDP)?

Age	1%	2%	3%	4%	Don't know	Grand Total
25 to 40	5.44%	14.29%	22.45%	31.29%	26.53%	100.00%
Over 40	5.94%	17.82%	17.82%	35.64%	22.77%	100.00%
Under 25	6.54%	14.87%	20.15%	23.95%	34.49%	100.00%
Grand Total	6.35%	15.05%	20.23%	25.84%	32.53%	100.00%

Q19: The most common item found in household recycling bins is...

Row Labels	Compost	Don't know	E-waste	Metal, plastic, glass	Paper	Grand Total
25 to 40	4.08%	2.72%	5.44%	54.42%	33.33%	100.00%
Over 40	4.95%	0.99%	3.96%	54.46%	35.64%	100.00%
Under 25	5.59%	5.17%	4.22%	48.84%	36.18%	100.00%
Grand Total	5.35%	4.52%	4.35%	50.00%	35.79%	100.00%

Outcome 3

Responses to Questions 5 through 19, cross referenced with responses to Question 3: How do you identify yourself within the university community?

Q5: What would you think is the most common cause of pollution of streams and rivers in Canada?

Role	Don't know	Dumping of garbage by cities	Litter near streams and rivers	Surface water running off yards, city streets, paved lots and farm fields	Waste dumped by factories	Grand Total
Community member	3.03%	21.21%	0.00%	36.36%	39.39%	100.00%
Graduate student	7.41%	18.52%	13.58%	25.93%	34.57%	100.00%
Other	33.33%	0.00%	33.33%	0.00%	33.33%	100.00%
Other - Parent	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other - Relative	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other (Alumni)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Women's Volleyball coach)	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other- Teaching Assistant	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Professor	2.41%	13.25%	4.82%	39.76%	39.76%	100.00%
Support Staff	4.60%	28.74%	1.15%	25.29%	40.23%	100.00%
Undergraduate student	6.76%	25.36%	10.63%	25.91%	31.34%	100.00%
Grand Total	6.27%	24.25%	9.45%	27.17%	32.86%	100.00%

Q6: Ozone forms a protective layer in the earth's upper atmosphere. What does ozone protect us from?

Role	Acid rain	Climate change	Don't know	Sudden changes in temperature	UV rays	Grand Total
Community member	6.06%	12.12%	9.09%	6.06%	66.67%	100.00%
Graduate student	2.47%	11.11%	0.00%	4.94%	81.48%	100.00%
Other	0.00%	0.00%	33.33%	0.00%	66.67%	100.00%
Other - Relative	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other (Alumni)	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other (Women's Volleyball coach)	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other- Teaching Assistant	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Professor	1.20%	3.61%	0.00%	1.20%	93.98%	100.00%
Support Staff	4.60%	3.45%	3.45%	2.30%	86.21%	100.00%

Undergraduate student	3.32%	8.86%	3.99%	5.09%	78.74%	100.00%
Grand Total	3.26%	8.36%	3.60%	4.68%	80.10%	100.00%

Q7: Which country do you believe produces the most waste per capita in the world?

Role	Canada	China	Germany	South Africa	The United States	Grand Total
Community member	12.12%	36.36%	3.03%	0.00%	48.48%	100.00%
Graduate student	11.11%	29.63%	2.47%	0.00%	56.79%	100.00%
Other	33.33%	66.67%	0.00%	0.00%	0.00%	100.00%
Other - Relative	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other (Alumni)	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other (Women's Volleyball coach)	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other- Teaching Assistant	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Professor	12.05%	37.35%	0.00%	0.00%	50.60%	100.00%
Support Staff	5.75%	47.13%	1.15%	2.30%	43.68%	100.00%
Undergraduate student	8.97%	41.75%	1.88%	1.99%	45.40%	100.00%
Grand Total	9.28%	40.89%	1.76%	1.67%	46.40%	100.00%

Q8: Which of the following is an example of sustainable forest management?

Role	Don't know	Never harvesting more than what the forest produces in new growth	Producing lumber for communities to build affordable housing	Putting the local communities in charge of forest resources	Setting aside forests to be off limits to the public	Grand Total
Community member	3.03%	69.70%	6.06%	9.09%	12.12%	100.00%
Graduate student	8.64%	67.90%	3.70%	7.41%	12.35%	100.00%
Other	33.33%	33.33%	0.00%	33.33%	0.00%	100.00%
Other - Relative	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other (Alumni)	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other (Women's	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%

Volleyball coach)					
Other- Teaching Assistant	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Professor	0.00%	83.13%	1.20%	1.20%	14.46%	100.00%
Support Staff	5.75%	67.82%	2.30%	2.30%	21.84%	100.00%
Undergraduate student	7.09%	68.11%	3.32%	4.43%	17.05%	100.00%
Grand Total	6.52%	69.23%	3.18%	4.43%	16.64%	100.00%

Q9: Many economists argue that electricity prices in North America are too low because...

Role	Consumers spend only a small part of their income on energy	Don't know	Electric companies have a monopoly in their service area	They do not reflect the cost of pollution from generating electricity	Too many suppliers go out of business	Grand Total
Community member	15.15%	18.18%	18.18%	42.42%	6.06%	100.00%
Graduate student	6.17%	11.11%	22.22%	54.32%	6.17%	100.00%
Other	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other - Relative	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Alumni)	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Women's Volleyball coach)	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Other- Teaching Assistant	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Professor	7.23%	7.23%	15.66%	67.47%	2.41%	100.00%
Support Staff	13.79%	13.79%	24.14%	44.83%	3.45%	100.00%
Undergraduate student	7.42%	18.83%	19.38%	49.17%	5.20%	100.00%
Grand Total	8.03%	17.31%	19.65%	50.08%	4.93%	100.00%

Q10: Which of the following is considered a leading cause of the depletion of fish stock in the Atlantic Ocean?

Row Labels	Don't know	Fishermen seeking to maximize their catch	Global climate change	Ocean pollution	Reduced fish fertility due to genetic hybridization	Grand Total
Community member	3.03%	33.33%	15.15%	36.36%	12.12%	100.00%

Role						Grand Total
Graduate student	6.17%	34.57%	18.52%	34.57%	6.17%	100.00%
Other	33.33%	33.33%	33.33%	0.00%	0.00%	100.00%
Other - Relative	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other (Alumni)	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Other (Women's Volleyball coach)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other- Teaching Assistant	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Professor	1.20%	54.22%	9.64%	31.33%	3.61%	100.00%
Support Staff	4.60%	33.33%	24.14%	33.33%	4.60%	100.00%
Undergraduate student	6.20%	40.86%	14.62%	30.90%	7.42%	100.00%
Grand Total	5.69%	40.55%	15.30%	31.52%	6.94%	100.00%

Q11: Which of the following do you believe is the primary reason that gasoline prices have risen over the last several decades in Canada?

Role	Don't know	Growing percentage of gas stations owned by large corporations	Higher rates of state and federal gasoline tax	Increasing global demand for oil	Increasing oil discoveries overseas	Grand Total
Community member	3.03%	15.15%	21.21%	51.52%	9.09%	100.00%
Graduate student	1.23%	9.88%	9.88%	59.26%	19.75%	100.00%
Other	33.33%	0.00%	0.00%	66.67%	0.00%	100.00%
Other - Relative	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Alumni)	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Women's Volleyball coach)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other- Teaching Assistant	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Professor	2.41%	14.46%	13.25%	63.86%	6.02%	100.00%
Support Staff	4.60%	12.64%	13.79%	62.07%	6.90%	100.00%
Undergraduate student	8.53%	10.85%	13.84%	55.26%	11.52%	100.00%
Grand Total	7.19%	11.20%	13.71%	56.69%	11.20%	100.00%

Q12: Which of the following has been identified as a potential effect of global climate change?

Role	Decrease in sea level	Don't know	Less severe weather	Loss of habitats	Loss of ozone layer	Grand Total
Community member	9.09%	12.12%	9.09%	36.36%	33.33%	100.00%
Graduate student	2.47%	3.70%	4.94%	30.86%	58.02%	100.00%
Other	33.33%	33.33%	0.00%	0.00%	33.33%	100.00%
Other - Relative	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Alumni)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Women's Volleyball coach)	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other- Teaching Assistant	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Professor	2.41%	0.00%	0.00%	50.60%	46.99%	100.00%
Support Staff	1.15%	2.30%	4.60%	34.48%	57.47%	100.00%
Undergraduate student	6.87%	4.32%	2.66%	35.66%	50.50%	100.00%
Grand Total	5.94%	4.10%	2.93%	36.45%	50.59%	100.00%

Q13: The most significant driver in the loss of species and ecosystems around the world is...

Role	Acid rain	Breeding of animals in zoos	Conversion of natural spaces into human developments (farmland, cities, etc.)	Don't know	Overhunting/overharvesting	Grand Total
Community member	6.06%	9.09%	54.55%	3.03%	27.27%	100.00%
Graduate student	4.94%	1.23%	64.20%	4.94%	24.69%	100.00%
Other	0.00%	0.00%	0.00%	33.33%	66.67%	100.00%
Other - Relative	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other (Alumni)	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Other (Women's Volleyball coach)	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Other- Teaching Assistant	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Professor	2.41%	1.20%	72.29%	1.20%	22.89%	100.00%
Support Staff	2.30%	4.60%	66.67%	3.45%	22.99%	100.00%
Undergraduate student	2.88%	1.66%	64.78%	5.20%	25.47%	100.00%

Grand Total	3.01%	2.01%	65.05%	4.77%	25.17%	100.00%

Q14: What is the name of the primary federal agency that oversees environmental regulation?

Role	Don't know	Environment Canada	Natural Resources Canada	The Canadian Environmental Network	The National Roundtable on the Economy and the Environment	Grand Total
Community member	6.06%	78.79%	3.03%	9.09%	3.03%	100.00%
Graduate student	12.35%	65.43%	17.28%	1.23%	3.70%	100.00%
Other	66.67%	33.33%	0.00%	0.00%	0.00%	100.00%
Other - Relative	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other (Alumni)	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other (Women's Volleyball coach)	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
Other- Teaching Assistant	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Professor	3.61%	79.52%	9.64%	1.20%	6.02%	100.00%
Support Staff	5.75%	74.71%	14.94%	1.15%	3.45%	100.00%
Undergraduate student	14.84%	66.67%	11.85%	4.32%	2.33%	100.00%
Grand Total	13.21%	68.31%	11.96%	3.76%	2.76%	100.00%

Q15: What is the most commonly recognized definition of sustainable development?

Role	Developing space without destroying biodiversity	Development that respects race, religion, and gender	Don't know	Having enough money to build something without requiring a loan	Having enough money to build something without requiring a loan	Meeting the needs of today without compromising the needs of future generations	Grand Total
Community member	21.21%	3.03%	12.12%	0.00%	12.12%	51.52%	100.00%
Graduate student	29.63%	2.47%	4.94%	2.47%	0.00%	60.49%	100.00%
Other	0.00%	0.00%	66.67%	0.00%	33.33%	0.00%	100.00%
Other - Relative	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other (Alumni)	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%

Other (Women's Volleyball coach)	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other- Teaching Assistant	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Professor	18.07%	0.00%	0.00%	0.00%	2.41%	79.52%	100.00%
Support Staff	16.09%	2.30%	4.60%	2.30%	1.15%	73.56%	100.00%
Undergraduate student	19.38%	3.21%	6.98%	0.44%	2.88%	67.11%	100.00%
Grand Total	19.82%	2.84%	6.44%	0.67%	2.84%	67.39%	100.00%

Q16: What percentage of Canada's marine territories is considered protected areas?

Role	25%	50%	75%	Don't know	Less than 1%	Grand Total
Community member	27.27%	15.15%	9.09%	9.09%	39.39%	100.00%
Graduate student	19.75%	9.88%	3.70%	24.69%	41.98%	100.00%
Other	33.33%	0.00%	0.00%	66.67%	0.00%	100.00%
Other - Relative	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other (Alumni)	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other (Women's Volleyball coach)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other- Teaching Assistant	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Professor	25.30%	4.82%	1.20%	10.84%	57.83%	100.00%
Support Staff	22.99%	6.90%	2.30%	22.99%	44.83%	100.00%
Undergraduate student	28.02%	6.87%	4.65%	28.35%	32.12%	100.00%
Grand Total	26.84%	7.19%	4.26%	26.09%	35.62%	100.00%

Q17: In Canada, what level of income is considered to be at the poverty line?

Role	$5,000	$10,000	$15,000	$20,000	Don't know	Grand Total
Community member	9.09%	21.21%	21.21%	42.42%	6.06%	100.00%
Graduate student	8.64%	14.81%	28.40%	41.98%	6.17%	100.00%
Other	0.00%	0.00%	0.00%	66.67%	33.33%	100.00%

Other - Relative	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Alumni)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Women's Volleyball coach)	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Other- Teaching Assistant	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Professor	4.82%	18.07%	24.10%	46.99%	6.02%	100.00%
Support Staff	5.75%	14.94%	31.03%	40.23%	8.05%	100.00%
Undergraduate student	9.19%	19.38%	22.48%	32.78%	16.17%	100.00%
Grand Total	8.53%	18.65%	23.49%	35.45%	13.88%	100.00%

Q18: The Oil Sands in Alberta represent what percentage of Canada's Gross Domestic Product (GDP)?

Role	1%	2%	3%	4%	Don't know	Grand Total
Community member	12.12%	15.15%	30.30%	27.27%	15.15%	100.00%
Graduate student	11.11%	13.58%	18.52%	27.16%	29.63%	100.00%
Other	0.00%	0.00%	0.00%	33.33%	66.67%	100.00%
Other - Relative	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Alumni)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Women's Volleyball coach)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other- Teaching Assistant	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Professor	2.41%	22.89%	20.48%	31.33%	22.89%	100.00%
Support Staff	2.30%	17.24%	18.39%	31.03%	31.03%	100.00%
Undergraduate student	6.53%	14.40%	20.38%	24.36%	34.33%	100.00%
Grand Total	6.35%	15.05%	20.23%	25.84%	32.53%	100.00%

Q19: The most common item found in household recycling bins is…

Row Labels	Compost	Don't know	E-waste	Metal, plastic, glass	Paper	Grand Total
Community member	6.06%	3.03%	6.06%	54.55%	30.30%	100.00%

Graduate student	3.70%	3.70%	7.41%	51.85%	33.33%	100.00%
Other	0.00%	33.33%	0.00%	33.33%	33.33%	100.00%
Other - Relative	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Alumni)	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Other (Senior Fellow)	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Other (Women's Volleyball coach)	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Other- Teaching Assistant	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
Professor	4.82%	0.00%	2.41%	55.42%	37.35%	100.00%
Support Staff	4.60%	1.15%	2.30%	47.13%	44.83%	100.00%
Undergraduate student	5.54%	5.32%	4.43%	49.39%	35.33%	100.00%
Grand Total	5.35%	4.52%	4.35%	50.00%	35.79%	100.00%

Outcome 4

Responses to Questions 5 through 19, cross referenced with responses to Question 4: Approximately how many hours on average do you spend on campus over the course of a typical week?

Q5: What would you think is the most common cause of pollution of streams and rivers in Canada?						
Time	Don't know	Dumping of garbage by cities	Litter near streams and rivers	Surface water running off yards, city streets, paved lots and farm fields	Waste dumped by factories	Grand Total
16 to 24 hours	4.26%	28.32%	9.27%	28.57%	29.57%	100.00%
25 to 40 hours	4.84%	22.31%	10.48%	26.88%	35.48%	100.00%
Less than 15 hours	7.61%	22.34%	12.69%	24.87%	32.49%	100.00%
More than 40 hours	10.96%	21.93%	5.26%	27.19%	34.65%	100.00%
Grand Total	6.27%	24.25%	9.45%	27.17%	32.86%	100.00%

Q6: Ozone forms a protective layer in the earth's upper atmosphere. What does ozone protect us from?						
Time	Acid rain	Climate change	Don't know	Sudden changes in temperature	UV rays	Grand Total
16 to 24 hours	3.01%	9.52%	2.26%	5.51%	79.70%	100.00%
25 to 40 hours	2.42%	5.65%	2.96%	3.76%	85.22%	100.00%
Less than 15 hours	4.57%	14.72%	6.09%	7.11%	67.51%	100.00%
More than 40	3.95%	5.26%	4.82%	2.63%	83.33%	100.00%

hours						
Grand Total	3.26%	8.36%	3.60%	4.68%	80.10%	100.00%

Q7: Which country do you believe produces the most waste per capita in the world?

Time	Canada	China	Germany	South Africa	The United States	Grand Total
16 to 24 hours	8.77%	44.36%	1.75%	1.00%	44.11%	100.00%
25 to 40 hours	10.75%	36.83%	1.88%	0.54%	50.00%	100.00%
Less than 15 hours	11.68%	38.07%	2.54%	3.05%	44.67%	100.00%
More than 40 hours	5.70%	43.86%	0.88%	3.51%	46.05%	100.00%
Grand Total	9.28%	40.89%	1.76%	1.67%	46.40%	100.00%

Q8: Which of the following is an example of sustainable forest management?

Time	Don't know	Never harvesting more than what the forest produces in new growth	Producing lumber for communities to build affordable housing	Putting the local communities in charge of forest resources	Setting aside forests to be off limits to the public	Grand Total
16 to 24 hours	6.52%	69.92%	4.01%	4.51%	15.04%	100.00%
25 to 40 hours	5.38%	71.51%	1.61%	3.49%	18.01%	100.00%
Less than 15 hours	7.61%	61.42%	5.08%	8.12%	17.77%	100.00%
More than 40 hours	7.46%	71.05%	2.63%	2.63%	16.23%	100.00%
Grand Total	6.52%	69.23%	3.18%	4.43%	16.64%	100.00%

Q9: Many economists argue that electricity prices in North America are too low because...

Time	Consumers spend only a small part of their income on energy	Don't know	Electric companies have a monopoly in their service area	They do not reflect the cost of pollution from generating electricity	Too many suppliers go out of business	Grand Total
16 to 24 hours	8.02%	18.30%	21.30%	46.87%	5.51%	100.00%
25 to 40 hours	8.33%	15.59%	18.01%	54.30%	3.76%	100.00%
Less than 15 hours	8.63%	21.32%	18.27%	45.69%	6.09%	100.00%
More than 40 hours	7.02%	14.91%	20.61%	52.63%	4.82%	100.00%
Grand Total	8.03%	17.31%	19.65%	50.08%	4.93%	100.00%

Q10: Which of the following is considered a leading cause of the depletion of fish stocks in the Atlantic Ocean?

Row Labels	Don't know	Fishermen seeking to maximize their	Global climate change	Ocean pollution	Reduced fish fertility due to	Grand Total

		catch			genetic hybridization	
16 to 24 hours	6.02%	41.10%	14.79%	31.83%	6.27%	100.00%
25 to 40 hours	4.03%	40.32%	13.98%	35.48%	6.18%	100.00%
Less than 15 hours	6.60%	34.52%	19.80%	31.47%	7.61%	100.00%
More than 40 hours	7.02%	45.18%	14.47%	24.56%	8.77%	100.00%
Grand Total	5.69%	40.55%	15.30%	31.52%	6.94%	100.00%

Q11: Which of the following do you believe is the primary reason that gasoline prices have risen over the last several decades?

Time	Don't know	Growing percentage of gas stations owned by large corporations	Higher rates of state and federal gasoline tax	Increasing global demand for oil	Increasing oil discoveries overseas	Grand Total
16 to 24 hours	9.02%	9.02%	15.29%	56.89%	9.77%	100.00%
25 to 40 hours	5.38%	12.10%	12.37%	61.02%	9.14%	100.00%
Less than 15 hours	9.64%	15.23%	15.74%	43.15%	16.24%	100.00%
More than 40 hours	4.82%	10.09%	11.40%	60.96%	12.72%	100.00%
Grand Total	7.19%	11.20%	13.71%	56.69%	11.20%	100.00%

Q12: Which of the following has been identified as a potential effect of global climate change?

Time	Decrease in sea level	Don't know	Less severe weather	Loss of habitats	Loss of ozone layer	Grand Total
16 to 24 hours	5.76%	4.01%	3.51%	36.34%	50.38%	100.00%
25 to 40 hours	4.84%	3.76%	1.88%	36.29%	53.23%	100.00%
Less than 15 hours	8.63%	5.58%	4.57%	35.53%	45.69%	100.00%
More than 40 hours	5.70%	3.51%	2.19%	37.72%	50.88%	100.00%
Grand Total	5.94%	4.10%	2.93%	36.45%	50.59%	100.00%

Q13: The most significant driver in the loss of species and ecosystems around the world is...

Time	Acid rain	Breeding of animals in zoos	Conversion of natural spaces into human developments (farmland, cities, etc.)	Don't know	Overhunting/ overharvesting	Grand Total
16 to 24 hours	2.51%	2.01%	66.42%	4.76%	24.31%	100.00%
25 to 40 hours	1.61%	2.42%	68.01%	4.84%	23.12%	100.00%
Less than 15 hours	4.06%	2.03%	59.39%	5.58%	28.93%	100.00%

More than 40 hours	5.26%	1.32%	62.72%		3.95%	26.75%	100.00%
Grand Total	3.01%	2.01%	65.05%		4.77%	25.17%	100.00%

Q14: What is the name of the primary federal agency that oversees environmental regulation?

Time	Don't know	Environment Canada	Natural Resources Canada	The Canadian Environmental Network	The National Roundtable on the Economy and the Environment	Grand Total
16 to 24 hours	12.78%	70.18%	10.78%	3.26%	3.01%	100.00%
25 to 40 hours	11.29%	69.62%	12.90%	4.57%	1.61%	100.00%
Less than 15 hours	20.30%	56.85%	14.21%	4.06%	4.57%	100.00%
More than 40 hours	10.96%	72.81%	10.53%	3.07%	2.63%	100.00%
Grand Total	13.21%	68.31%	11.96%	3.76%	2.76%	100.00%

Q15: What is the most commonly recognized definition of sustainable development?

Time	Developing space without destroying biodiversity	Development that respects race, religion, and gender	Don't know	Having enough money to build something without requiring a loan	Having enough money to build something without requiring a loan	Meeting the needs of today without compromising the needs of future generations	Grand Total
16 to 24 hours	20.05%	2.01%	8.52%	0.75%	2.01%	66.67%	100.00%
25 to 40 hours	20.16%	2.69%	4.30%	0.27%	2.42%	70.16%	100.00%
Less than 15 hours	20.30%	4.06%	6.60%	2.03%	3.55%	63.45%	100.00%
More than 40 hours	18.42%	3.51%	6.14%	0.00%	4.39%	67.54%	100.00%
Grand Total	19.82%	2.84%	6.44%	0.67%	2.84%	67.39%	100.00%

Q16: What percentage of Canada's marine territories is considered protected areas?

Time	25%	50%	75%	Don't know	Less than 1%	Grand Total
16 to 24 hours	28.32%	7.77%	3.26%	24.31%	36.34%	100.00%
25 to 40 hours	25.00%	5.65%	2.69%	28.49%	38.17%	100.00%
Less than 15 hours	27.41%	8.12%	6.60%	26.40%	31.47%	100.00%
More than 40 hours	26.75%	7.89%	6.58%	25.00%	33.77%	100.00%
Grand Total	26.84%	7.19%	4.26%	26.09%	35.62%	100.00%

Q17: In Canada, what level of income is considered to be at the poverty line?

Row Labels	$5,000	$10,000	$15,000	$20,000	Don't know	Grand Total
16 to 24 hours	9.77%	19.80%	24.56%	31.83%	14.04%	0.00%
25 to 40 hours	6.45%	16.94%	27.15%	36.56%	12.90%	0.00%
Less than 15 hours	12.18%	17.77%	15.74%	42.13%	12.18%	0.00%
More than 40 hours	6.58%	20.18%	22.37%	34.21%	16.67%	0.00%
Grand Total	8.53%	18.65%	23.49%	35.45%	13.88%	0.00%

Q18: The Oil Sands in Alberta represent what percentage of Canada's Gross Domestic Product (GDP)?

Time	1%	2%	3%	4%	Don't know	Grand Total
16 to 24 hours	6.02%	15.04%	20.80%	25.06%	33.08%	100.00%
25 to 40 hours	5.11%	15.32%	20.97%	25.81%	32.80%	100.00%
Less than 15 hours	11.68%	14.72%	17.26%	24.37%	31.98%	100.00%
More than 40 hours	4.39%	14.91%	20.61%	28.51%	31.58%	100.00%
Grand Total	6.35%	15.05%	20.23%	25.84%	32.53%	100.00%

Q19: The most common item found in household recycling bins is…

Time	Compost	Don't know	E-waste	Metal, plastic, glass	Paper	Grand Total
16 to 24 hours	6.02%	4.76%	5.51%	49.62%	34.09%	100.00%
25 to 40 hours	4.30%	3.49%	4.30%	48.39%	39.52%	100.00%
Less than 15 hours	8.12%	5.58%	4.06%	53.30%	28.93%	100.00%
More than 40 hours	3.51%	4.82%	2.63%	50.44%	38.60%	100.00%
Grand Total	5.35%	4.52%	4.35%	50.00%	35.79%	100.00%

Discussion

Cross referencing the results of questions 5 through 19 with the first four demographic questions revealed that certain factors play a role in a respondent's sustainability literacy.

It was found that participants who identified as male answered more questions correctly than those who identified as either female or neither, and were less likely to answer incorrectly. Of the 15 questions, males responded more correctly that the other gender groups on average for 8 of the questions, and they responded least correctly on average for 2 of the questions. The female gender group were most often neither most or least correct, with 2 instances of being the most correct group, and 4 instances of being the least correct group.

The group who identified as neither female nor male were on average the most correct group for 5 questions, and on average least correct for 9 questions. It should be noted that this group only consisted of 8 participants, therefore the final percentages of correct answers for this group vary more, since one of these participants makes up 12.5 percent of this group, but only 0.67 percent of the total participants of the survey. This could explain why this group fell were either most or least correct of the groups in their responses to 14 out of 15 questions.

Participants who responded that they were 40 years of age or older were on average more correct than the other age groups identified. They were most correct for 12 of the 15 questions, and were never the least correct age group. There was no significant difference between the other two age groups (under 25 and 25-40 years of age) in terms of their overall average of correct answers.

In regards to participant's identity within the university community (Question 3), there was a significant percentage of participants who identify as undergraduate students. This group made up 75.5 percent of participants, while the next largest group, support staff, only makes up 7.3 percent. This trend correlates with a trend towards younger participants, as 874 out of 903 undergraduate students are under the age of 25, and 874 out of 948 respondents who were under the age of 25 are also undergraduate students. This means that 73 percent of participants are both under the age of 25, and undergraduate students.

Of all of the different options for Question 4, the group with the highest percentage of correct answers was professors, who were the most correct out of any of these groups for 11 out of 15 questions.

Going forward, it would be pertinent to align with another university to provide a comparison between the University of Ottawa and other universities in terms of sustainability literacy.