

1 **Supplementary Material For:**

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3 **Public perceptions of legislative action on reducing plastic pollution: A case study of**

4 **Atlantic Canada**

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8 **Atlantic Canada Single-use Plastic Community Survey Questions.**

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10 Demography

Province:

- New Brunswick
- Nova Scotia
- Newfoundland and Labrador
- Prince Edward Island

Age:

- 18-29
- 30-39
- 40-49
- 50-59
- 60-69
- 70+

Gender:

- Female
- Male
- Non-Binary
- Not listed
- Prefer not to say

Highest level of education:

- Some high school
- High school diploma
- Trade school
- College diploma
- Associates degree
- Bachelor's degree
- Master's degree
- Professional degree
- Doctorate degree

Employment:

- Working full-time
- Working part-time
- Self employed
- Student

Retired

Unemployed

New Brunswick

Are you concerned about the impacts of plastic bags on the environment?

Yes

No

Why?

How often do you see plastic bags in the environment?

Every day

A few times a month

A few times a week

Once a month

About once a week

Less than once a month

How often do you use plastic bags?

Always

Rarely (only when I forget my reusable)

Frequently (1-2 times a week)

Sometimes (1-2 times a month)

Never

How do you dispose of plastic bags?

Garbage

Reuse plastic bags at home

Recycle

Other _____

How many reusable bags do you own?

None

3-5

1-3

6+

Would you support or oppose a plastic bag ban?

Support

Oppose

- Unsure
- No preference

Would a plastic bag ban reduce your use of other single use plastics such as straws, plastic to-go containers or take out coffee cups?

- Yes
- No
- Unsure

Would you prefer to pay an additional fee for a plastic bag as opposed to a having plastic bag ban?

- Yes
- No
- Depends on how much the fee was
- No preference

Do you think more legislation to reduce plastic pollution should be implemented in your province?

- Yes
- No
- If so, what would you like to see legislation banning?
- No preference

Has your use of single-use plastics increased because of Covid-19?

- Yes
- No
- Unsure

Do you have any additional comments about reducing plastic pollution in your province?

Newfoundland and Labrador

Are you concerned about the impacts of plastic bags on the environment?

- Yes
- No
- Why?

How often do you see plastic bags in the environment?

- Every day
- A few times a week
- About once a week
- A few times a month
- Once a month
- Less than once a month

How often do you use plastic bags?

- Always
- Frequently (1-2 times a week)
- Sometimes (1-2 times a month)
- Rarely (only when I forget my reusable)
- Never

How do you dispose of plastic bags?

- Garbage
- Recycle
- Reuse plastic bags at home
- Other _____

How many reusable bags do you own?

- None
- 1-3
- 3-5
- 6+

Do you know that a plastic bag ban is coming to force this year?

- Yes
- No

Do you support or oppose the plastic bag ban?

- Support
- Oppose
- Unsure
- No preference

Will the plastic bag ban reduce your use of other single use plastics such as straws, plastic to-go containers or take out coffee cups?

- Yes
- No
- Unsure

Would you prefer to pay an additional fee for a plastic bag as opposed to a having plastic bag ban?

- Yes
- No
- Depends on how much the fee was
- No preference

Do you think more legislation to reduce plastic pollution should be implemented in your province?

- Yes
- If so, what would you like to see legislation banning?
- No
- No preference

Has your use of single-use plastics increased because of Covid-19?

- Yes
- No
- Unsure

Do you have any additional comments about reducing single use plastics or the plastic bag ban in your province?

Nova Scotia

Are you concerned about the impacts of plastic bags on the environment?

- Yes
- No
- Why?

How often do you see plastic bags in the environment?

- Every day
- A few times a week
- About once a week
- A few times a month
- Once a month
- Less than once a month

How often do you use plastic bags?

- Always
- Frequently (1-2 times a week)
- Sometimes (1-2 times a month)
- Rarely (only when I forget my reusable)
- Never

How do you dispose of plastic bags?

- Garbage
- Recycle
- Reuse plastic bags at home
- Other _____

How many reusable bags do you own?

- None
- 1-3
- 3-5
- 6+

Do you know that a plastic bag ban is coming to force this year?

- Yes
- No

Do you support or oppose the plastic bag ban?

- Support
- Oppose
- Unsure
- No preference

Will the plastic bag ban reduce your use of other single use plastics such as straws, plastic to-go containers or take out coffee cups?

- Yes
- No
- Unsure

Would you prefer to pay an additional fee for a plastic bag as opposed to a having plastic bag ban?

- Yes
- No
- Depends on how much the fee was
- No preference

Do you think more legislation to reduce plastic pollution should be implemented in your province?

- Yes
- If so, what would you like to see legislation banning?
- No
- No preference

Has your use of single-use plastics increased because of Covid-19?

- Yes
- No
- Unsure

Do you have any additional comments about reducing single use plastics or the plastic bag ban in your province?

Prince Edward Island

Are you concerned about the impacts of plastic bags on the environment?

- Yes
- No
- Why?

How often do you see plastic bags in the environment?

- Every day
- A few times a week
- About once a week
- A few times a month
- Once a month
- Less than once a month

How do you dispose of old plastic bags?

- Garbage
- Recycle
- Reuse plastic bags at home
- Other _____

How many reusable bags do you own?

- None
- 1-3
- 3-5
- 6+

Do you support or oppose the current plastic bag ban?

- Support
- Oppose
- Unsure
- No preference

Has the plastic bag ban reduced your use of other single use plastics such as straws, plastic to-go containers or take out coffee cups?

- Yes
- No
- Unsure

Would you prefer to pay an additional fee for a plastic bag as opposed to a having plastic bag ban?

- Yes
- No
- Depends on how much the fee was
- No preference

Do you think more legislation to reduce plastic pollution should be implemented in your province?

- Yes
- If so, what would you like to see legislation banning?
- No
- No preference

Has your use of single-use plastics increased because of Covid-19?

- Yes
- No
- Unsure

Do you have any additional comments about reducing single use plastics or the plastic bag ban in your province?

S3. Atlantic Canada Single-use Plastic Semi-structured Interview Questions.

New Brunswick (8 questions)

How does your work relate to single use plastics?

What is your reaction to the recent announcement by the Canadian Federal Government to ban single use plastics as soon as 2021?

Have you noticed a change in the amount of plastic pollution in your province over the last 5 years?

Do you think New Brunswick should implement a plastic bag ban?

Do you think a plastic bag ban would also reduce people's use of other single use plastics such as straws, plastic to-go containers or take out coffee cups?

Do you think more legislation to reduce plastic pollution should be implemented in your province? If so, what would you like to see legislation banning?

What is something you wish people knew about single use plastics?

Do you have any other comments about reducing single use plastics or the plastic bag ban in your province?

Newfoundland and Labrador (8 questions)

How does your work relate to single use plastics?

What is your reaction to the recent announcement by the Canadian Federal Government to ban single use plastics as soon as 2021?

Have you noticed a change in the amount of plastic pollution in your province over the last 5 years?

How do you think the general public will respond to the upcoming plastic bag ban? And do you have any ideas on how to make sure implementation is successful?

Do you think the plastic bag ban will also reduce people's use of other single use plastics such as straws, plastic to-go containers or take out coffee cups?

Do you think more legislation to reduce plastic pollution should be implemented in your province? If so, what would you like to see legislation banning?

What is something you wish more people knew about single use plastics?

Do you have any other comments about reducing single use plastics or the plastic bag ban in your province?

Nova Scotia (8 questions)

How does your work relate to single use plastics?

What is your reaction to the recent announcement by the Canadian Federal Government to ban single use plastics as soon as 2021?

Have you noticed a change in the amount of plastic pollution in your province over the last 5 years?

How do you think the general public will respond to the upcoming plastic bag ban? And do you have any ideas on how to make sure implementation is successful?

Do you think the plastic bag ban will also reduce people's use of other single use plastics such as straws, plastic to-go containers or take out coffee cups?

Do you think more legislation to reduce plastic pollution should be implemented in your province? If so, what would you like to see legislation banning?

What is something you wish people knew about single use plastics?

Do you have any other comments about reducing single use plastics or the plastic bag ban in your province?

Prince Edward Island (8 questions)

How does your work relate to single use plastics?

What is your reaction to the recent announcement by the Canadian Federal Government to ban single use plastics as soon as 2021?

Have you noticed a change in the amount of plastic pollution now that the plastic bag ban has been implemented?

How did the general public responded to the plastic bag ban? And do you have any ideas on how implementation might have been improved?

Has the plastic bag ban helped to reduce people's use of other single use plastics such as straws, plastic to-go containers or take out coffee cups?

Do you think more legislation to reduce plastic pollution should be implemented in your province? If so, what would you like to see legislation banning?

What is something you wish people knew about single use plastics?

Do you have any other comments about reducing single use plastics or the plastic bag ban in your province?

S4. ANOVA Results from the Community Survey.

ATLANTIC CANADA			
	F	Fcrit	p-value
Location	8.25025268	6.59138212	0.03456333
Age	3.64257409	4.38737419	0.07345149
Gender	1.89575499	18.5128205	0.30241797
Education	0.95901713	3.22958261	0.51811784
Employment	2.52591393	4.38737419	0.14517506
Concern	1.04784524	18.5128205	0.4136565
NEW BRUNSWICK			
	F	Fcrit	p-value
Age	0.42141072	4.38737419	0.81931985
Gender	4.06083563	18.5128205	0.18145709
Education	0.79554457	3.22958261	0.62114344
Employment	1.45261757	4.38737419	0.32840982
Concern	0.87082641	18.5128205	0.44924008
NEWFOUNDLAND AND LABRADOR			
	F	Fcrit	p-value
Age	1.00573635	4.38737419	0.48688875
Gender	0.58346482	18.5128205	0.52476758
Education	15.8571429	3.50046386	0.00041745
Employment	0.73352776	4.38737419	0.62442612
Concern	0.83818232	18.5128205	0.45656313

NOVA SCOTIA			
	F	Fcrit	p-value
Age	3.09081811	4.38737419	0.10101752
Gender	0.99430545	18.5128205	0.42374878
Education	0.80816033	3.22958261	0.61271856
Employment	1.3587749	4.38737419	0.35586173
Concern	0.89091959	18.5128205	0.44486163
PRINCE EDWARD ISLAND			
	F	Fcrit	p-value
Age	11.4816327	4.38737419	0.00497962
Gender	0.00469131	18.5128205	0.95162473
Education	0.56533921	3.86596885	0.74785466
Employment	12.2454281	4.38737419	0.00420544
Concern	3.64341394	18.5128205	0.19650477

S5. Tukey-Kramer Post Hoc Test results from statistically significant categories within the community survey.

ATLANTIC CANADA - Location		
Comparison	Absolute Mean Diff	Qcrit
NB vs NS	11.19065859	6.870884196
NL vs NS	10.60163013	6.870884196
PE vs NS	11.54239019	6.870884196
NEWFOUNDLAND AND LABRADOR – Education		
Comparison	Absolute Mean Diff	Qcrit
High school vs trade school	25	10.368249
College vs trade school	33.33333333	10.368249
Bachelor’s degree vs trade school	33.33333333	10.368249
Master’s degree vs trade school	33.33333333	10.368249
Professional degree vs trade school	33.33333333	10.368249
Doctorate degree vs trade school	33.33333333	10.368249
PRINCE EDWARD ISLAND – Age		
Comparison	Absolute Mean Diff	Qcrit
18 – 24 vs 45 – 54	9.523809524	5.776388889
25 – 34 vs 45 – 54	9.523809524	5.776388889
35 – 44 vs 45 – 54	9.523809524	5.776388889
55 – 64 vs 45 – 54	9.523809524	5.776388889
18 – 24 vs 65+	12.5	5.776388889
25 – 34 vs 65+	12.5	5.776388889

35 – 44 vs 65+	12.5	5.776388889
55 – 64 vs 65+	12.5	5.776388889
PRINCE EDWARD ISLAND – Employment		
Comparison	Absolute Mean Diff	Qcrit
Working full-time vs self-employed	10.11904762	5.242247273
Working full time vs retired	6.442577031	5.242247273
Working part time vs self-employed	12.5	5.242247273
Working part time vs retired	8.823529412	5.242247273
Student vs self-employed	12.5	5.242247273
Student vs retired	8.823529412	5.242247273
Retired vs unemployed	8.823529412	5.242247273
Self-employed vs unemployed	12.5	5.242247273