

RECYC-QUEBEC FLW Survey – Fish and Marine

Introduction

RECYC-QUÉBEC and the City of Montreal have commissioned Value Chain Management International to estimate the volume of food loss and waste (FLW) occurring in the province of Quebec from a whole of chain perspective, then extrapolate the findings in terms of greenhouse gas (CO₂E) emissions.

As an expert industry stakeholder, we would greatly appreciate your completing a survey that we have designed to enable us to estimate loss factors in specific sectors and food types. The information that you provide is completely confidential. Only aggregated results at an industry level will be reported. No individuals or organizations will be identified at any stage of the analysis and reporting.

In completing the survey, please respond in terms of a typical year; therefore, prior to the onset of the COVID-19 crisis that began in March 2020.

Please complete the survey by Monday, March 1.

If you have any questions about the survey and overall study, please contact Dr. Martin Gooch (martin@vcm-international.com) or Mariane Maltais Guilbault m.maltais@recyc-quebec.gouv.qc.ca.

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Identifiers

* 1. What is your primary business? **(Choose one only)**

Wild capture

Aquaculture

2. What is your operation?

Saltwater

Freshwater

3. What products do you capture/produce?

Fish

Shellfish (not lobster)

Lobster

Other

4. What is your organization's primary location?

Postcode

Closest city/town

5. How many facilities do you operate in Quebec?

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Scale of Operation

6. In **metric tonnes (live weight)**, what is the total quantity of the type of fish or marine products that you identified above that your operation typically catches or produces annually? **Please enter numbers only.**

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Unavoidable and Unplanned Losses

Each type of loss is described below.

A. Unavoidable losses are inevitable – perhaps due to health or quality issues preventing its sale.

B. Unplanned losses are typically caused by supply, internal operations, or market related factors. This includes the inability to sell products due to having reached your quota limit.

7. In **metric tonnes**, what quantity of **unavoidable** and **unplanned** loss does your operation experience each year? **Please enter numbers only.**

Unavoidable loss

Unplanned loss

8. Indicate whether the quantities that you provided above were measured or are estimated.

Measured / Estimated

Unavoidable loss

Unplanned loss

9. Identify if your organization is actively working to reduce its unavoidable or unplanned losses.

Yes / No

Unavoidable loss

Unplanned loss

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Loss Management

10. Estimate the percentage (%) of **unavoidable** and **unplanned** loss that would be edible, either in its present form or after processing into foods or nutritional supplements. **(Please enter numbers only.)**

Unavoidable loss

Unplanned loss

11. Select from the list below the top three destinations of the **unavoidable** and **unplanned** losses that you identified in Q10, and indicate the percentage that is directed to each of the three destinations.

	Percentage of unavoidable loss	Percentage of unplanned loss
Rescue/redistribution for human consumption	<input type="text"/>	<input type="text"/>
Upcycling into foods, nutritional supplements, etc.	<input type="text"/>	<input type="text"/>
Animal feed	<input type="text"/>	<input type="text"/>
Biomaterial processing/rendering	<input type="text"/>	<input type="text"/>
Biomethanisation (anaerobic digestion)	<input type="text"/>	<input type="text"/>
Compost	<input type="text"/>	<input type="text"/>
Land application	<input type="text"/>	<input type="text"/>
Incineration or controlled combustion	<input type="text"/>	<input type="text"/>
Landfill/burial	<input type="text"/>	<input type="text"/>
Other (e.g. throw back)	<input type="text"/>	<input type="text"/>

12. Does your organization monitor the CO₂ emissions associated with food loss and waste?

Yes

No

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Loss Management (Continued)

13. If yes to the above, what is the quantity of CO₂?

14. Is the figure above a measurement or an estimate?

Measured

Estimated

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Causes of Losses

15. On a scale of 1 to 5, please rate the impact of each factor listed below on the **unavoidable** losses that you experience? (1 = minor impact; 3 = moderate impact; 5 = significant impact). Please ignore any causal factor that is irrelevant.

	1	2	3	4	5
Inaccurate forecasts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changes to customer orders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Customer (over) specifications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diseases	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Equipment malfunction/failure, mechanical damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Storage/inventory losses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Human factors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other - please specify in comment box below	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comment

16. On a scale of 1 to 5, please rate the impact of each factor listed below on the **unplanned** losses that you experience? (1 = minor impact; 3 = moderate impact; 5 = significant impact). Please ignore any causal factor that is irrelevant.

	1	2	3	4	5
Inaccurate forecasts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changes to customer orders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Customer (over) specifications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diseases	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Equipment malfunction/failure, mechanical damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Storage/inventory losses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Human factors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other - please specify in comment box below	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comment

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Conclusion

17. Thank you for participating in this important study. Is there anything further that you would like to add on the topic of food loss and waste in Quebec, and its prevention?

18. Would you be willing to participate in a short follow-up interview?

Yes

No

19. If yes, please provide your contact details:

Name

Company (optional)

Email Address

Phone Number