

Traditional Indigenous foodways and retail subsidies: Evidence from the Northwest Territories Community Survey and Nutrition North Canada

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1 READ-ME

1.1 Overview

This replication package is for Georgiev and Li (2024) “Traditional Indigenous foodways and retail subsidies: Evidence from the Northwest Territories Community Survey and Nutrition North Canada.” A single Stata do file is used to generate the dataset for this study and conduct the analysis to produce all Figures and Tables in the published paper and Appendix, except the timeline figure in the Appendix (Figure A3). The replicator should expect the code to run for less than one hour.

Statement about rights

We certify that the author(s) of the manuscript have legitimate access to and permission to use the data used in this manuscript.

We further certify that the author(s) of the manuscript have documented permission to redistribute/publish the data contained within this replication package.

1.2 Data Availability Statement

We use data from three main sources, all of which we make publicly available.

We use NWT Community Surveys and NWT Community Price Surveys compiled by the NWT Bureau of Statistics. Data are available on current and archived versions of the public website. We also received some custom tabulations from the NWT Economic Statistician that are not publicly available anywhere that we have permission to share. We include all of the original tables as downloaded or received by us in the replication package, along with a Stata dataset in which we have compiled these together.

We also use data from Nutrition North Canada on the quantity of subsidized goods shipped to each community, by category and quarter. These data were shared with us by officials at Nutrition North Canada and we have permission to share them. Data on changes in subsidy eligibility and on the price of the RNFB were collected by us from publicly available sources including current and historic/archived Nutrition North Canada websites and press releases. We include the original received and downloaded files in the replication package, along with two Stata datasets where these are compiled together.

Finally, we used a remoteness index constructed by Statistics Canada for 2016 that is publicly available on its website.

Summary of Availability

Below we list the Stata files necessary to replicate all of the tables and figures in the paper and Appendix.

Data file	Source	Provided?
<code>nwtcommunity.dta</code>	NWT Community Surveys [NWT Bureau of Statistics 2024b and 2024c]	Yes
<code>nwtprice_clean.dta</code>	NWT Community Price Surveys [NWT Bureau of Statistics 2024a]	Yes
<code>community_profiles_clean.dta</code>	“Community Profiles” [Nutrition North Canada 2018]	Yes
<code>remoteness.dta</code>	“Index of Remoteness, 2016” Table 17-10-0143-01 [Statscan 2024]	Yes

Data file	Source	Provided?
<code>nn_data.dta</code>	“Revised Northern Food Basket - Highlights of Price Survey Results” [INAC]	Yes
<code>rnfb_clean_merge.dta</code>	“Cost of the Revised Northern Food Basket” [Nutrition North Canada 2024]	Yes
<code>quantiy_clean_cat.dta</code>	NNC Shipping Data [Nutrition North Canada 2022]	Yes

1.3 Variable summaries

Most variables in `nwtcommunity.dta`:

Variable name	Description
<code>nneligible</code>	Treatment indicator equal to 1 if a community received the subsidy during the FM-NNC 2011 transition, and 0 otherwise
<code>rnfb_sub_treat</code>	Treatment indicator equal to 1 if a community received the subsidy during the NNC 2016 transition, and 0 otherwise
<code>hh</code>	Total households
<code>share</code>	Share of households that reported consuming 75% or more of their meat or fish through hunting or fishing
<code>hh_median_income</code>	Census median household income
<code>huntshare</code>	Percentage of the population aged 15 and older
<code>yesrate</code>	Percentage of households worried that there is not enough money for food
<code>indpop15plus</code>	Indigenous persons aged 15 and older
<code>pop15plus</code>	Persons aged 15 and older
<code>obtain_no</code>	Households reporting that none of the meat or fish eaten was obtained through hunting or fishing
<code>obtain_yes</code>	Households reporting that meat or fish eaten was obtained through hunting or fishing
<code>obtain_90</code>	Households where 90% or more of the meat or fish eaten was obtained through hunting or fishing
<code>obtain_75</code>	Households where 75% or more of the meat or fish eaten was obtained through hunting or fishing

Most variables in `nwtcommunity.dta` (continued):

Variable name	Description
<code>obtain_50</code>	Households where 50% or more of the meat or fish eaten was obtained through hunting or fishing
<code>obtain_25</code>	Households where 25% or more of the meat or fish eaten was obtained through hunting or fishing
<code>obtain_10</code>	Households where 10% or more of the meat or fish eaten was obtained through hunting or fishing
<code>hunt_no</code>	Persons aged 15 and older reporting they do not hunt or fish
<code>hunt_yes</code>	Persons aged 15 and older reporting they hunt or fish
<code>hunt_freq</code>	Persons aged 15 and older reporting they hunt or fish frequently throughout the year
<code>hunt_occ</code>	Persons aged 15 and older reporting they hunt or fish occasionally (more than day trips)
<code>hunt_day</code>	Persons aged 15 and older reporting they hunt or fish occasionally (only day trips)
<code>hunt_rare</code>	Persons aged 15 and older reporting they hunt or fish rarely
<code>abshare</code>	Share of Indigenous persons in the population aged 15 and older
<code>trapshare</code>	Share of persons aged 15 and older reporting that they trap
<code>indhuntshare</code>	Share of Indigenous persons aged 15 and older reporting that they hunt or fish
<code>nonindhuntshare</code>	Share of Indigenous persons aged 15 and older reporting that they do not hunt or fish
<code>nonindpop15plus</code>	Non-Indigenous persons in the population aged 15 and older

1.4 Hardware/system requirements

The program was run on a computer with Intel core i9-10900 CPU @ 2.8 GHz using Windows 10 Pro v.22H2 and 128 GB RAM.

1.5 Software/computational requirements

- Stata MP version 16.1 with package `outreg2` Version 2.3.2 (Wada, 2005).
- Stata MP version 16.1 with package `boottest` Version 4.4.14 (Roodman et al., 2019).
- We set the seed using `set seed 123` at the start of each of the three do files to ensure the reproducibility of the bootstrap standard errors.

1.6 Summary

Approximate time needed to reproduce the analyses is **10-60 minutes**.

1.7 Instructions to Replicators

Details:

- All of the above listed Stata .dta files should be in the same directory and the following do files should be run (in any order)
 - `most_tables_figures.do` (all main tables and all appendix tables, except for those listed below)
 - `table5_panelb.do` (Table 5 Panel B)
 - `table6.do` (Table 6)
- We also include a “raw data” folder with data and/or instructions for those who wish to replicate/re-create the Stata .dta files included above from some of the original Excel and PDF tables.
 - We include Stata code with additional instructions to recreate `nwtprice_clean.dta` and `quanti_clean_cat.dta` from the original data (`cleaning.do`)
 - The file `nwtcommunity.dta` was created from the various spreadsheets in the folder “nwt surveys” that were either downloaded from current and archived websites or in two indicated instances, custom tabulations prepared at our request. We include a document that references each variable and its original table, along with a few errors/missing observations we corrected manually and the way we coded subsidy eligibility.

- The files `community_profiles_clean.dta` and `rnfb_clean_merge.dta` were created from the excel file `NNC Fiscal and RNFB 2011-present 02 Feb 2022_community_profiles_cleaned.xlsx` that was created from the NNC website (current version and older version retrieved using the Internet Archive Wayback Machine).
- The file `nn_data.dta` was built from the PDF files “FM RNFB price surveys 2007-2008-2009” and “FM RNFB prices 2006-2007-2008” that were downloaded from the Food Mail website (retrieved using the Internet Archive Wayback Machine).

1.8 List of tables and figures

The provided code reproduces:

Figure/Table #	Files
Table 1	<code>most_tables_figures.do</code>
Table 2	<code>most_tables_figures.do</code>
Table 3	<code>most_tables_figures.do</code>
Table 4	<code>most_tables_figures.do</code>
Table 5	<code>most_tables_figures.do</code> (Panel A) and <code>table5_panelb.do</code> (Panel B)
Table 6	<code>table6.do</code>
Figure 1	<code>most_tables_figures.do</code>
Figure 2	<code>most_tables_figures.do</code>
Figure 3	<code>most_tables_figures.do</code>
Appendix Table 1	<code>most_tables_figures.do</code>
Appendix Table 2	<code>most_tables_figures.do</code>
Appendix Figure 1	<code>most_tables_figures.do</code>
Appendix Figure 2	<code>most_tables_figures.do</code>

1.9 References

- Indigenous and Northern Affairs Canada. 2022. *Revised Northern Food Basket - Highlights of Price Survey Results*. [Dataset]. (Last Accessed: February 10, 2022).
- Northwest Territories Bureau of Statistics. 2024a. *NWT Community Price Survey*. [Dataset]. (Last Accessed: April 10, 2025).
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- Nutrition North Canada. 2022. *NNC Shipping Data*. [Dataset from personal correspondence] (E-mail received Apr.22, 2022).
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- Statistics Canada. 2024. *Table 17-10-0143-01. Index of Remoteness, 2016* [Dataset]. (Last Accessed: Dec 1, 2024).
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