1. Proposed research project

- Fertilizer, pesticide, and manure application in Canada: Evidence from the Farm Management Survey and Agriculture Taxation Data Program

2. Background/objective

- The Farm Management Survey (FMS) is an initiative by Statistics Canada and Agriculture and Agri-Food Canada. The FMS contributes to Agriculture and Agri-Food Canada's work on measuring selected management practices in the agricultural sector. The information generated from this survey informs federal and provincial policy decisions in the sector.
- The Agriculture Taxation Data Program (ATDP) is an annual census of unincorporated and incorporated tax filer records used to estimate a range of financial agricultural variables. The financial variables disseminated by the ATDP include detailed farm revenues and expenses as well as farm and off-farm income of farm families.
- The purpose of this study is to analyse the use of agricultural inputs in Canada by using FMS, ATDP, and other relevant data sources. The study will cover topics such as:
  - Frequency of manure application;
  - Expenditures on pesticides and fertilizer;
  - Types of pesticides used on farms; and
  - Use of fertilizer and pesticides on crops and other uses (lawns and gardens).

3. Benefits from doing this research

The student will get experience in conducting:
- Literature review
- Data analysis
- Policy research

The analysis results of this project will lead to a paper on fertilizer, manure, and pesticides, for an internal and/or external release.

4. Deliverables

- A research paper

5. General requests

- 1 student
- Knowledge of agricultural economics as an asset

6. Tentative schedules with meetings (specific schedule/location to be discussed)
• Every 2 weeks via Microsoft Teams

7. Other relevance

• Email communications for questions or discussions are highly encouraged.

8. Contact information

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