



Through the Canadian Agricultural Partnership (CAP), the PEI Department of Agriculture and Agri-Food Canada (AAFC) are working to support agricultural science, research and innovation. In an increasingly competitive global market, agricultural groups must continuously acquire new knowledge and innovate to retain a competitive advantage.¹ CAP Science, Research and Innovation Programs provide assistance for farm-level research, innovation and adoption projects to increase the competitiveness, productivity and profitability of the agriculture sector.^{2,3}

DEPARTMENTAL PRIORITIES FOR THE AGRICULTURE RESEARCH AND INNOVATION PROGRAM INCLUDE:

1. Applied Research

Supports short-term research to develop new production methods, fill information gaps and assist in supporting emerging commodities with high potential.

2. Innovative Technologies

Supports implementation of innovative technologies, which are potentially high-risk and first of their kind to the province or region.

3. Industry Research Coordination

Supports commodity groups and industry organizations in the prioritization, coordination and implementation of research activities.

4. Technology and Science Adoption

Supports adoption, implementation and/or evaluation of best practices, new technologies and processes that improve efficiency and profitability.

OVER
\$296,000

INVESTED IN
TECHNOLOGY AND
SCIENCE ADOPTION
PROJECTS

- Grain Dryer Metering Speed Control Through Moisture Sensing
- Efficiency and Automation Assessment Consulting
- Robotic Milking System
- Butterfly Concepts Feed Tray System
- Corn Planter Monitor

194 NEW KNOWLEDGE TRANSFER PRODUCTS DEVELOPED

OVER \$103,000 INVESTED IN INNOVATIVE TECHNOLOGIES:

- Custom Built Debris and Silt Removal System for Potato Grading Line;
- Variable Rate Seeding for Corn;
- Sweet Potato Slip & Tuber Production;
- Poultry Hawke Trolley System; and
- GreenFeed System for Ruminant Methane Measurement.

OVER 4,177 PARTICIPANTS ATTENDED 196 TRAINING OR KNOWLEDGE TRANSFER EVENTS:

- **Atlantic Poultry Institute** (Presentation of Atlantic Healthy Herds Project at Dairy Focus Conference);
- **Dairy Farmers of PEI** (Presentation of Atlantic Healthy Herds Project at Dairy Focus);
- **PEI Horticultural Association** (Research Reporting Seminar); and
- **Atlantic Grains Council** (Presentation of Research Results at Spring Conference)

SCIENCE, RESEARCH AND INNOVATION IMPACTS.

The projects resulted in **385 activities⁴** that contributed to three outcomes⁵. This included:

- **196** activities that resulted in new knowledge being transferred to the sector;
- **91** activities that resulted in new agriculture and agri-food technologies being generated and/or commercialized; and
- **98** activities that increased the sector capacity to conduct innovative research and development activities.

91 activities contributed to new agricultural and agri-food technologies being generated and/or commercialized in the following sectors:



- **24** Dairy cattle and milk production;
- **19** Vegetable and melon farming;
- **14** Oilseed and grain farming;
- **10** Beef cattle ranching and farming, including feedlots;
- **6** Sheep and goat farming ;
- **5** Fruit and tree nut farming;
- **5** Poultry and egg production;
- **2** Other animal production;
- **2** Support activities for crop production;
- **2** Other crop farming;
- **1** Hog and pig farming;
- **1** Multiple industries⁶

ENDNOTES

1. Papalexandris, A., Ioannou, G., Prastacos, G. & Soderquist, K. (2005). An integrated methodology for putting balanced scorecard into action. *European Management Journal*, 23(2), 214-227. 2. Government of Prince Edward Island (PEI), Department of Agriculture and Fisheries. (2016). Policy Evaluation of the Department of Agriculture and Fisheries' Non-Business Risk Management Growing Forward 2 Programs. Prepared by the Policy Section, Policy and Agriculture Resource Division. 3. Alston, M. (2010). The benefits from agricultural research and development, innovation, and productivity growth. *OECD Food, Agriculture and Fisheries Papers*, 31. OECD Publishing, Paris, France. 27 p. 4. Activities are "operations or work processes... that produces outputs (e.g., training, research, construction, negotiation, investigation)" (Government of Canada. (2010, September). Supporting Effective Evaluations: A Guide to Developing Performance Measurement Strategies. Retrieved October 21, 2020 from <https://tinyurl.com/y43dhlrj> 5. Outcomes can be understood to be short- and medium-term program effects, e.g., changes in what others do, as influenced by project's outputs (Bamberger, M., Rugh, J., & Mabry, L. (2006). *RealWorld evaluation: Working under budget, time, data, and political constraints*. SAGE Publications, Incorporated). 6. This includes projects where there was more than one industry type involved in the project.

Note: Data is based on information submitted to the Department as per the Funding Agreement. Prepared by the Strategic Policy and Evaluation Division at the PEI Department of Agriculture. November 2023/File 2465-15-J5-03