

FARM TECHNOLOGY PROGRAM FUNDING LIST

The Sustainable Canadian Agricultural Partnership (Sustainable CAP) **Farm Technology Program** has two streams. The Farm Technology Stream supports the adoption of innovative technology that minimizes agricultural waste, optimizes farm efficiency and results in the digitalization of an operation and sensors for the purpose of data collection. The Farm Security Stream encourages the adoption of security devices that help protect farms.

The **2023-2024** program-funding maximum is **\$48,000** for projects in the Farm Technology stream, and **\$2,000** for projects in the Farm Security Stream. The maximum amount is **\$50,000** over the program term. Grant funding cost share is 50% of eligible expenses. The minimum payment an Applicant may receive under the program is \$500.

PLEASE NOTE: Purchases made before **April 1, 2023** are ineligible for reimbursement. All purchases must meet the requirements as stated in the Programs Terms and Conditions. Applications will be assessed based on the criteria in Section 3 (Program Eligibility). All application information and supporting documents must be included to facilitate this assessment (e.g., quotations, spec sheets, or letters of support).

The funding list will be updated periodically over the course of the program. Please subscribe to the Farm Technology website to be notified of any Funding List changes www.alberta.ca/farm-technology-program.aspx.

FARM TECHNOLOGY FUNDING LIST

Eligible Criteria

Many components of 'Smart systems features' are eligible such as;

- *Digital sensors*
- *Data collection*
- *Connectivity*
- *Automated data analysis*
- *Efficiency improvement*

Digital Sensors are electrical input instruments for measuring or monitoring conditions with the ability to transmit data to data logs or to other applications. They differ from analog sensors (i.e. non-electrical measurement devices that use physical components like dials).

Data Collection refers to the logging and storage of measurements and conditions. Once collected, datasets can be analyzed to assist in decision making, often in real time.

Connectivity allows various components within the smart system to communicate with each other. Connections may be hard-wired, or wirelessly, through Bluetooth, Wi-Fi, radio frequency, or cellular service. When systems utilize the internet for connectivity, they increase the potential for automation and digital intelligence capacity.

Automated Data Analysis is what allows smart systems to make real time decisions and adjustments. Data collected by sensors is analyzed by a computer and new outputs are generated. Outputs could be recommendations, information for decision making, or automated action.

- *Agriculture-specific drones (e.g. Multispectral imaging drones; Thermal imaging drones)*
- *Farm/Barn/Herd management software or apps - first year of subscription eligible (on-going subscription costs are ineligible)*
- *Digitally connected weather stations (and first year subscription costs of weather station analysis software or apps)*
- *ISOBUS Universal Terminals – for connecting to any ISOBUS-equipped implement, as an interface*

- *ISOBUS Task Controllers – goes on the implement, stores settings, and sends info to the Universal Terminal*

Ineligible Expenses

- Equipment eligible under the Efficient Grain Handling Program & the Water Program
- Any system, item, or equipment that is considered to be business as usual for a given farm type is ineligible under the Program
- Agronomy services and consultation services
- Equipment that is business-as-usual for the specific farm category (e.g., auto steer, sectional control, GPS systems i.e. GPS for auto steer, autotractor, etc.)
- Subscriptions for Farm/Barn/Herd management software or apps after the first year
- Purchases made before **April 1, 2023**
- Items that are commonly used for recreational or non-agricultural purposes (e.g., iPads, TVs, and recreational drones)
- Labour, training, installation, travel, and accommodation costs
- Leasing costs
- Maintenance and repair costs

Category	Eligible Expenses	Ineligible Expenses
1	Electronic soil sensors <ul style="list-style-type: none"> • Electromagnetic <ul style="list-style-type: none"> ◦ <i>Salinity, organic matter, moisture data</i> • Electrochemical <ul style="list-style-type: none"> ◦ <i>Nitrate, potassium, hydrogen ion (pH) data</i> • Soil compaction sensors • Solar powered soil sensors 	<ul style="list-style-type: none"> • Analog soil sensors <p>Example: sensors with dial read-outs; sensors without a digital signal that stores data.</p>
2	Farm equipment-mounted sensors and cables <ul style="list-style-type: none"> ◦ <i>Vegetative index data</i> ◦ <i>Grain protein, oil, starch content data</i> • Drone-mounted agriculture specific sensors & lenses (e.g., <i>thermal imaging; multispectral imaging</i>) • Sensor based fertilizer spreader components that optimize granule distribution • Yield sensors retrofitted onto equipment to gather real-time data for yield maps. <ul style="list-style-type: none"> ◦ <i>Including hay bale</i> • Weed detection and elimination systems (e.g., <i>precision weed sprayers</i>) 	<ul style="list-style-type: none"> • iPads, TV's • Recreational drones • Spray drones
3	Farm equipment-mounted data collection and data storage units for: <ul style="list-style-type: none"> • Accelerometers • Gyroscopes • Magnetometers • Altimeters • Remote monitoring cameras (<i>i.e. remote monitoring for existing water sites</i>) 	<ul style="list-style-type: none"> • Recreational mobile cameras (e.g., <i>GoPros</i>)
4	Electronic livestock ID readers that allow data collection for individuals animals <ul style="list-style-type: none"> • E.g. ID reader wands that are linked to weigh scales • E.g. Herd management handheld devices 	<ul style="list-style-type: none"> • Mandatory RFID tags • Structural parts of weigh scales
5	Other sensors	

	<ul style="list-style-type: none"> • Leaf wetness sensors • Bee hive temperature, humidity, audio and movement sensors • Livestock body movement and body temperature sensors 	
6	<p>OPEN Equipment that is not explicitly ineligible and it can be shown to meet or exceed the program goals. <i>NOTE: Any items listed in any ineligible row column in the Funding List are not eligible under this category.</i></p>	<ul style="list-style-type: none"> • Drones for general or recreational use, not specifically for agriculture
7	Internet Boosters – MAXIMUM \$2,000 GRANT	

FARM SECURITY FUNDING LIST	
Eligible Expenses	Ineligible Expenses
<ul style="list-style-type: none"> ➤ GPS Equipment Tags and Trackers ➤ Remote Monitoring for Fixed Cameras ➤ Remote Fuel Tank Monitors ➤ Wireless Base Stations (Gateways) ➤ Motion Detectors/Driveway Alert Systems ➤ Door Sensors 	<ul style="list-style-type: none"> ➤ Bluetooth Trackers ➤ Regular Fuel Tank Monitors ➤ Installation Costs ➤ Lighting Systems ➤ Alarms