

Manitoba Agriculture and Resource Development
Agriculture et du Développement des Ressources Manitoba

Annual Report
2019-2020

Rapport Annuel
2019-2020



Manitoba Agriculture and Resource Development
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MINISTER OF AGRICULTURE AND RESOURCE DEVELOPMENT

Room 165
Legislative Building
Winnipeg, Manitoba CANADA
R3COV8

Her Honour the Honourable Janice Filmon, C. M., O. M.
Lieutenant Governor of Manitoba
Room 235, Legislative Building
Winnipeg MB R3C OV8

May it Please Your Honour:

It is my privilege to present for the information of Your Honour, the Annual Report of Manitoba Agriculture and Resource Development for the fiscal year ending March 31, 2020.

Respectfully submitted,

Original signed by

Honourable Blaine Pedersen
Minister of Agriculture and Resource Development





MINISTER OF AGRICULTURE AND RESOURCE DEVELOPMENT

Room 165
Legislative Building
Winnipeg, Manitoba CANADA
R3COV8

Son Honneur l'honorable Janice Filmon, C. M., O. M.
Lieutenant-gouverneure du Manitoba
Palais législatif, bureau 235
Winnipeg (Manitoba) R3C OV8

Madame la Lieutenant-Gouverneure,

J'ai le privilège de présenter à Votre Honneur le rapport annuel du ministère de l'Agriculture et du Développement des ressources pour l'exercice terminé le 31 mars 2020.

Je vous prie d'agréer, Madame la Lieutenant-gouverneure, l'expression de mon profond respect.

Original signé par

Blaine Pedersen
Ministre de l'Agriculture et du Développement des ressources





Agriculture and Resource Development
Deputy Minister's Office
Room 159, Legislative Building
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Honourable Blaine Pedersen
Minister of Agriculture and Resource Development
Province of Manitoba

Sir,

I am pleased to present the 2019/20 Annual Report of the Department of Agriculture and Resource Development for the fiscal year ending March 31, 2020.

We introduced Manitoba Agriculture and Resource Development in 2019/20 to provide an integrated approach to developing agriculture and natural resources in a sustainable manner and building a vibrant economy. Our department remains science and evidence-based in the work we do and decisions we make to build and sustain the public's trust in the practice of agriculture, agriprocessing and natural resource management.

We work diligently to ensure that the new department is aligned with the Manitoba Transformation Strategy to further improve service delivery, while providing an environment that accelerates job creation, investment, and economic development across Manitoba. We continued our efforts to position Manitoba as the protein supplier of choice and leading Canada in sustainable protein industry growth.

The Canadian Agricultural Partnership — Ag Action Manitoba program continued to provide initiatives to advance profitability, competitiveness and innovation for our agriculture and agriprocessing sector. In the 2019/20 fiscal year, Manitoba invested \$22.3 million to activities for farmers, agriprocessors, industry organizations, researchers and industry service providers.

We will continue to work strategically to enhance the resilience of our industry through challenging times, and provide programs and services that strengthen our position to serve our stakeholders for the benefit of all Manitobans.

Respectfully submitted,

Original signed by

Dori Gingera-Beauchemin
Deputy Minister of Agriculture and Resource Development



Manitoba



Agriculture et Développement des ressources

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Monsieur Blaine Pedersen
Ministre de l'Agriculture et du Développement des ressources
Gouvernement du Manitoba

Monsieur le Ministre,

J'ai l'honneur de vous présenter le rapport annuel 2019-2020 du ministère de l'Agriculture et du Développement des ressources pour l'exercice terminé le 31 mars 2020.

En 2019-2020, nous avons créé le ministère de l'Agriculture et du Développement des ressources du Manitoba pour procurer une approche intégrée en matière de développement durable de l'agriculture et des ressources naturelles et pour bâtir une économie dynamique. Notre ministère continue de se fonder sur des faits probants et des connaissances scientifiques pour nos activités et les décisions que nous prenons en vue d'alimenter la confiance du public dans la pratique de l'agriculture et de la transformation agroalimentaire et la gestion des ressources naturelles.

Nous travaillons diligemment pour veiller à ce que le nouveau ministère soit en phase avec la Stratégie de transformation du Manitoba de manière à améliorer encore la prestation de services tout en établissant un environnement qui stimule la création d'emplois, l'investissement et le développement économique dans tout le Manitoba. Nous poursuivons nos efforts pour positionner le Manitoba comme principal fournisseur de protéines et comme chef de file au Canada en matière de croissance durable de l'industrie des protéines.

Le programme Ag Action Manitoba exécuté dans le cadre du Partenariat canadien pour l'agriculture a poursuivi la mise en œuvre d'initiatives visant à accroître la rentabilité, la compétitivité et l'innovation dans notre secteur de l'agriculture et de la transformation agroalimentaire. En 2019-2020, le Manitoba a investi 22,3 millions de dollars dans des activités destinées aux agriculteurs, aux transformateurs agroalimentaires, aux organisations sectorielles, aux chercheurs et aux fournisseurs de services de l'industrie.

Nous poursuivrons notre travail stratégique afin de renforcer la résilience de notre industrie dans des périodes difficiles et de proposer des programmes et services qui renforcent notre position nous permettant de servir nos intervenants au profit de toute la population du Manitoba.

Je vous prie d'agréer, Monsieur le Ministre, l'expression de mon profond respect.
La sous-ministre de l'Agriculture et du Développement des ressources,

Original signé par

Dori Gingera-Beauchemin



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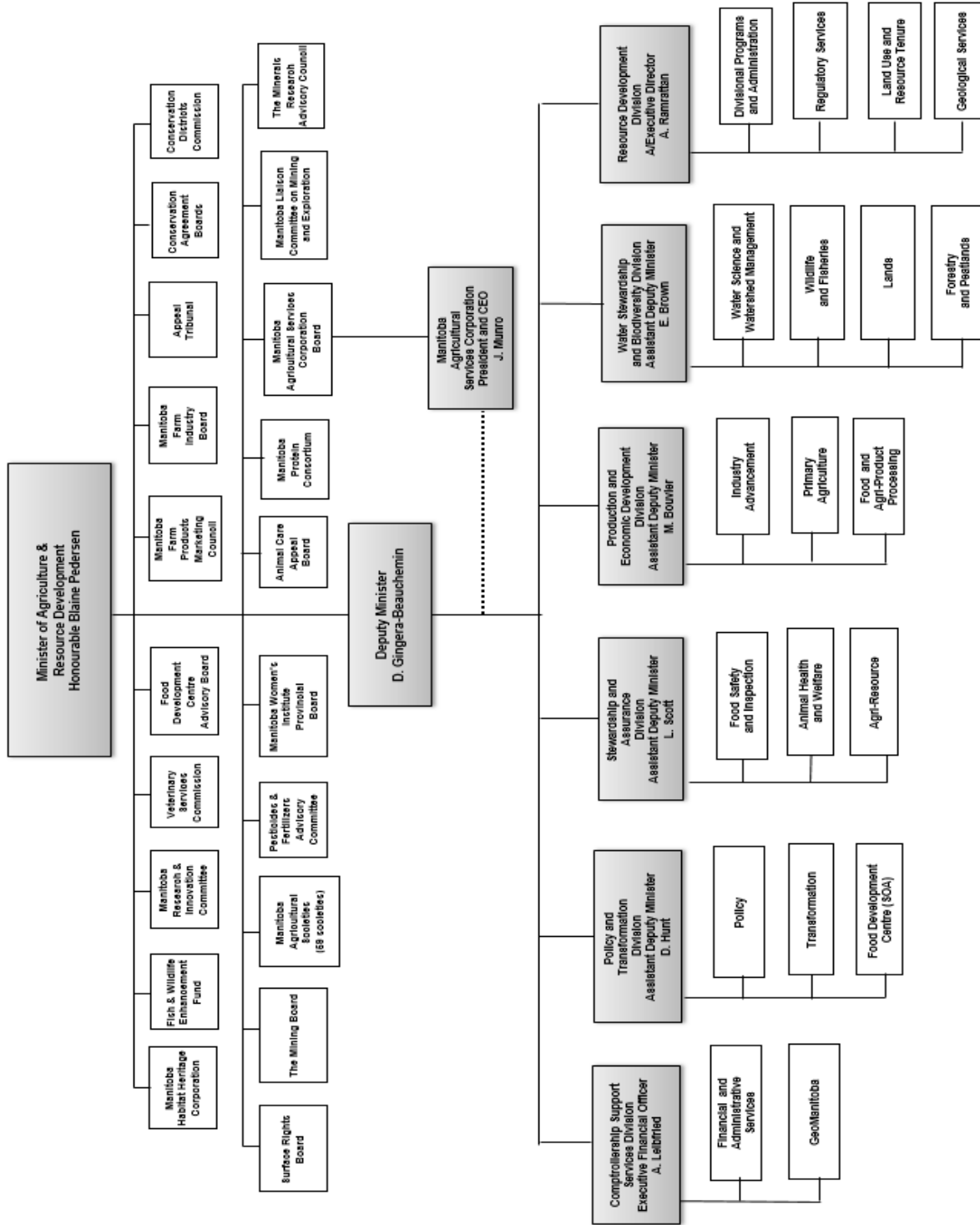
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Manitoba Agriculture and Resource Development

(This organization chart depicts the structure of the department as of March 31, 2020)

ORGANIZATION CHART



PREFACE

Report Structure

This Annual Report provides information on the department's objectives, results achieved, financial performance and variances for the 2019/20 fiscal year and provides a five-year historical table giving the departmental expenditures and staffing. The report contains two major sections:

- **Section One** includes Part A – Program and Financial Information and Part B – Capital Investment for the former Department of Agriculture, and Program and Financial Information for additional appropriations resulted from the 2019/20 department integration. The Program and Financial Information is organized in accordance with the departmental appropriation structure.
- **Section Two** contains all appendices, including summary financial tables, expenditures and revenue variance explanations, performance indicators, and activities related to the Public Interest Disclosure (Whistleblower Protection) Act and Regulatory Accountability and Red Tape Reduction.

Vision and Mission

Vision

A Manitoba where people and landscapes thrive in a vibrant economy.

Mission

A single ministry providing an integrated approach to developing agriculture and natural resources in a sustainable manner.

Values

Guided by the foundation of our shared public service values:

- We value sustainable and responsible resource management and development.
- We value the public's trust.
- We value the participation of Indigenous peoples in the management and development of resources.
- We value each other's expertise, experience and leadership.
- We value science and evidence-based decision-making.
- We value working together in partnership to find solutions to public policy challenges.
- We value innovation, growth and continuous improvement.
- We value open and transparent communication.
- We value a vibrant economy as an enabler of a healthy quality of life.

Goals

To achieve its mission and vision, the department seeks to focus on the land and the clients in our respective industries. Our goals include, but are not limited to:

- Supporting investment, job creation and economic development in Manitoba;
- Positioning Manitoba as the leading supplier of plant and animal-based protein and other agrifood products;
- Enhancing management of crown lands;
- Managing natural resource sustainably and rehabilitating land affected by resource development;
- Protecting ecosystems, improving local environment health and watershed health coordination;
- Protecting human health, property, plants, animals and landscapes;
- Developing programs and products to manage risks, particularly those resulted from extreme events; and
- Reaching the potential of our provincial resources for the benefit of all Manitobans.

Areas of Focus

Agriculture and agriprocessing

Create the environment that accelerates economic development in the agriculture, agrifood and agriproduct value chain.

Natural resource development

Create the environment that accelerates sustainable economic development in Manitoba's natural resources, including water, lands, wildlife, fishery, forestry, oil, gas, mineral, and aggregate.

Health and wellness of people and landscapes

Create the environment for achieving optimal health for people, animals and the environment through collaborative efforts that advance public and industry interests.

High performance public service

Lead policy, program and service development and delivery that foster an environment for competitiveness, adaptability and sustainability of Manitoba's agriculture and natural resource sectors. Provide assurances that financial and administrative management practices are functioning to support departmental programming and risk management towards an efficient and effective government.

2019/20 Highlights

Manitoba Agriculture and Resource Development continues on the path to grow the agriculture and agriprocessing sector in the province.

The department has attracted over \$205 million in new investment in agrifood and product processing, resulting in 274 new direct jobs in support of the five-point **Moving Manitoba Forward Guarantee**.

The **Manitoba Protein Advantage Strategy** was released at the **Manitoba Protein Summit** on September 19, 2019. The **Manitoba Protein Consortium** was created to provide leadership to deploy the strategy.

A **Hemp and Cannabis Edibles Strategy** was completed. The department has provided assistance to ten cannabis and hemp processing companies, resulting in \$46 million in new investment and 30 new jobs.

Canadian Agriculture Partnership (CAP) - Ag Action Manitoba is a key mechanism for delivering agrifood and agriprocessing programming. This five-year, federal-provincial-territorial agreement will provide \$176 million to Manitoba's agriculture and agrifood sector through a wide variety of activities and strategic investments tailored to build sustainability, profitability, competitiveness and innovation. This program is open to producers, processors, industry organizations, industry service providers and researchers. **CAP-Ag Action Manitoba Research and Innovation** program has increased the number of research and innovation projects with academic/research institutions, with more projects on food and agriproduct production.

To further grow our agriprocessing sector, we have provided \$5.5 million in capital asset and equipment assistance and \$222,000 in market development assistance through CAP-Ag Action Manitoba, resulting in the expansion of over 25 businesses and the immediate addition of over 150 new jobs.

The department has extended the **AgriStability** enrollment deadline to assist more farmers in managing trade market disruptions (e.g., canola) and production challenges. We have also introduced improvements to this program to encourage farmers to seek out additional private insurance top-up coverage, and developed the pre-approval of an AgriStability Targeted Advanced Payment for Manitoba hog producers if there is an outbreak of African Swine Fever (ASF) in Canada.

The **Fish Enhancement Fund** awarded \$606,000 to 18 projects to enhance Manitoba's fish populations. The **Wildlife Enhancement Fund** awarded \$268,000 to five projects to enhance Manitoba's wildlife populations. These projects will not only contribute to conservation of species populations and biodiversity, but also support job creation and local economies.

The department has completed a spatial modeling project to evaluate and assess the economic feasibility of forest industry expansion in the region encompassing the Saskatchewan River, High Rock and Nelson River forest sections of northern Manitoba. This analysis may support future partnerships between the forest sector and northern communities.

Manitoba Mineral Development Fund was established with \$20 million to jump-start mineral and economic development initiatives throughout the province. This program is open to Indigenous groups, businesses, not-for-profits, communities, and municipalities. It provides new mining outreach opportunities to First Nations to collaborate on resource

development. The Manitoba-First Nations Mineral Development Protocol and Action Plan Initiatives was launched, resulting in engaging ten First Nations in protocol development, including a new consultation protocol with Manto Sipi Cree Nation.

The Manitoba Liaison Committee on Mining and Exploration was established to provide advice on mineral exploration and mining priorities, and advance the goals of **Manitoba's Economic Growth Action Plan**, including supporting business and investment attractions to northern Manitoba.

The department will continue to advance regulatory accountability and reduce red tape by modernizing the governance of community pastures and **Agricultural Crown Lands**. Eight ACL lease auctions were hosted across the province, and 90 per cent of available leases were successfully allocated.

The department has developed and launched Growing Outcomes in Watersheds (GROW), a made-in-Manitoba approach to improve water quality and nutrient management, and watershed health and resiliency to a changing climate.

The department has worked with Manitoba Health, Seniors and Active Living (MHSAL) to streamline food safety legislation under the Public Health Amendment Act. We have also developed a plan to engage key stakeholder groups on the food safety amendments and proposed regulatory changes.

We have completed an independent Animal Welfare Review (AWR), and reviewed recommendations to ensure consistent inspection and enforcement outcomes. We continued to provide regulatory enforcement for animal health and expand our surveillance networks to protect human, animal and plant health.

We have collaborated with the Department of Conservation and Climate to develop a new online system for the issuance of outdoor licenses and permits. This new system is expected to issue 190,000 angling licenses and 55,000 hunting licenses annually. The department has also worked to transition numerous vendors from the paper-based licensing system to the new online system.

The department has improved its responsiveness and commitment to open government by providing market and trade statistics and analysis online, and making interactive mapping applications available (e.g., community screening locations for COVID-19).

Earning the public's trust is important to sustain industry growth. We have continued to develop public trust initiatives to raise public's awareness of agriculture and improve consumer's confidence in Manitoba agrifood supply chain. In honour of Manitoba's pioneering farm families and in conjunction with the 150th anniversary of Manitoba, the department has launched the **Legacy Farm Award** to celebrate farm families achieving 150 consecutive years of ownership.

The department has also updated its **Emergency Management Program** to improve

emergency responsiveness while ensuring compliance with our regulatory obligations. We have coordinated responses to the 2019 and 2020 spring flood events, the October 2019 snowfall event, and provided ongoing support to Manitoba's response to the COVID-19 pandemic.

We continued to look for opportunities to serve Manitobans better. The department coordinated and submitted seven Idea Fund proposals in 2019/20 to modernize service delivery and improve efficiencies.

Préface

Structure du rapport

Le présent rapport annuel fournit de l'information sur les objectifs du ministère, les résultats atteints, les résultats financiers et les écarts pour l'exercice 2019-2020, et fournit un tableau des dépenses et de l'effectif du ministère pour les cinq derniers exercices. Le rapport est divisé en deux sections principales :

- La **section un** comprend la partie A, Programmes et renseignements financiers, et la partie B, Investissements en immobilisations pour l'ancien ministère de l'Agriculture, ainsi qu'une partie Programmes et renseignements financiers concernant d'autres crédits qui découlent de l'intégration du ministère en 2019-2020. La partie Programmes et renseignements financiers est organisée conformément à la structure de crédits du ministère.
- La **section deux** contient toutes les annexes, y compris les tableaux financiers sommaires, les explications relatives aux écarts budgétaires en matière de dépenses et de revenus, les indicateurs de rendement et les activités relatives à la Loi sur les divulgations faites dans l'intérêt public (protection des divulgateurs d'actes répréhensibles), à la responsabilisation en matière de réglementation et à la réduction des formalités administratives.

Vision et mission

Vision

Le Manitoba, un lieu où la population et les paysages s'épanouissent dans une économie florissante.

Mission

Un ministère unique procurant une approche intégrée pour développer durablement l'agriculture et les ressources naturelles.

Valeurs

Guidés par le fondement de nos valeurs communes en matière de service public :

- nous attachons de l'importance à une gestion et un développement durables et responsables des ressources;
- nous attachons de l'importance à la confiance du public;
- nous attachons de l'importance à la participation des Autochtones à la gestion et au développement des ressources;
- nous attachons de l'importance à l'expertise, l'expérience et le leadership de chacun;
- nous attachons de l'importance à une prise de décision fondée sur des faits probants et des connaissances scientifiques;
- nous attachons de l'importance au travail en partenariat pour trouver des solutions aux défis de politique publique;
- nous attachons de l'importance à l'innovation, la croissance et l'amélioration continue;

- nous attachons de l'importance à une communication ouverte et transparente;
- nous attachons de l'importance à une économie florissante ouvrant la voie à une qualité de vie saine.

Objectifs

Pour réaliser sa mission et sa vision, le ministère cherche à se centrer sur les terres et les clients dans nos industries respectives. Nous avons notamment les objectifs suivants :

- soutenir l'investissement, la création d'emplois et le développement économique au Manitoba;
- positionner le Manitoba comme le principal fournisseur de protéines végétales et animales et d'autres produits agroalimentaires;
- renforcer la gestion des terres domaniales;
- gérer les ressources naturelles de manière durable et remettre en état les terres affectées par le développement des ressources;
- protéger les écosystèmes, en améliorant la santé de l'environnement local et la coordination de la santé des bassins hydrographiques;
- protéger la santé humaine, les biens, les plantes, les animaux et les paysages;
- élaborer des programmes et des produits afin de gérer les risques, en particulier ceux liés aux événements extrêmes;
- réaliser le potentiel lié à nos ressources provinciales au profit de toute la population du Manitoba.

Domaines d'intérêt

Agriculture et transformation agroalimentaire

Mettre en œuvre des conditions qui permettent d'accélérer le développement économique dans la chaîne de valeur de l'agriculture, de l'agroalimentaire et des produits agricoles.

Développement des ressources naturelles

Mettre en œuvre des conditions qui permettent d'accélérer le développement économique durable des ressources hydriques, foncières, fauniques, halieutiques, forestières, pétrolières, gazières, minières et en agrégats.

Santé et bien-être de la population et des paysages

Mettre en œuvre des conditions propices à une santé optimale pour les personnes, les animaux et l'environnement grâce à des efforts de collaboration qui font progresser les intérêts du public et de l'industrie.

Service public à haut rendement

Diriger l'élaboration et la mise en œuvre de programmes, de politiques et de services qui contribuent à un environnement propice à la compétitivité, à l'adaptabilité et à la durabilité des secteurs de l'agriculture et des ressources naturelles du Manitoba.

Fournir des assurances de l'efficacité des pratiques de gestion financière et administrative pour soutenir les programmes ministériels et la gestion des risques de

façon à jouir d'un gouvernement efficient et performant.

Points saillants en 2019-2020

Agriculture et Développement des ressources Manitoba continue de s'attacher à faire croître le secteur de l'agriculture et de la transformation agroalimentaire dans la province.

Le ministère est parvenu à attirer plus de 205 millions de dollars en nouveaux investissements dans l'agroalimentaire et la transformation de produits, ce qui s'est traduit par 274 nouveaux emplois directs à l'appui de la **Garantie de faire avancer le Manitoba**, composée de cinq points.

La **Stratégie durable à l'égard des protéines du Manitoba** a été rendue publique au **Sommet sur les protéines du Manitoba**, le 19 septembre 2019. Le **Consortium des protéines du Manitoba** a été formé pour prendre les rênes de la mise en œuvre de la Stratégie.

Une **stratégie à l'égard des produits comestibles au chanvre et au cannabis** a été élaborée. Le ministère a apporté une aide à dix entreprises de transformation du cannabis et du chanvre, qui s'est traduite par 46 millions de dollars en nouveaux investissements et par 30 nouveaux emplois.

Le **programme Ag Action Manitoba exécuté dans le cadre du Partenariat canadien pour l'agriculture (PCA)** est un dispositif essentiel pour l'exécution de programmes dans les secteurs de l'agroalimentaire et de la transformation des produits agricoles. Cette entente fédérale-provinciale-territoriale sur cinq ans prévoit l'affectation de 176 millions de dollars au secteur manitobain de l'agriculture et de l'agroalimentaire dans le cadre d'une vaste série d'activités et d'investissements stratégiques conçues pour bâtir la durabilité, la rentabilité, la compétitivité et l'innovation. Ce programme s'adresse aux producteurs, transformateurs, organisations sectorielles, fournisseurs de services de l'industrie et chercheurs. Le **volet du programme Ag Action Manitoba-CAP axé sur la recherche et l'innovation** a permis d'accroître le nombre de projets de recherche et d'innovation menés avec des établissements universitaires et de recherche, en particulier ceux consacrés à la production de produits agricoles et alimentaires.

Pour stimuler encore davantage la croissance de notre secteur de la transformation agricole, nous avons alloué 5,5 millions de dollars en soutien aux immobilisations et au matériel et 222 millions de dollars en aide au développement de marchés dans le cadre d'Ag Action Manitoba-CAP, ce qui s'est traduit par l'expansion de plus de 25 entreprises et la création immédiate de plus de 150 nouveaux emplois.

Le ministère a reporté la date limite fixée pour l'inscription au programme **Agri-stabilité** afin d'aider plus d'agriculteurs à gérer les perturbations des marchés commerciaux (p. ex., le canola) et les défis liés à la production. Nous avons aussi apporté des améliorations à ce programme pour encourager les agriculteurs à contracter une

protection complémentaire auprès d'assureurs privés et avons mis au point l'autorisation préalable d'un paiement anticipé ciblé dans le cadre du programme Agri-Stabilité pour les producteurs de porcs du Manitoba en cas d'éclosion de peste porcine africaine (PPA) au Canada.

Le **Fonds de mise en valeur du poisson** a versé 606 milliers de dollars à 18 projets pour améliorer les populations de poisson au Manitoba. Le **Fonds de mise en valeur de la faune** a accordé 268 milliers de dollars à cinq projets visant à renforcer des populations fauniques dans la province. Ces projets contribueront à la conservation de populations de certaines espèces et de la biodiversité, mais aussi au soutien de la création d'emplois et des économies locales.

Le ministère a exécuté un projet de modélisation spatiale afin de mesurer et d'évaluer la faisabilité économique d'une expansion de l'industrie forestière dans la région englobant les zones forestières de la rivière Saskatchewan, de High Rock et de la rivière Nelson dans le Nord du Manitoba. Cette analyse pourra soutenir des partenariats futurs entre le secteur forestier et les collectivités du Nord.

Le **Fonds de mise en valeur des ressources minières du Manitoba** a été établi avec une enveloppe de 20 millions de dollars pour lancer des initiatives de développement économique et d'exploitation minière dans toute la province. Ce programme s'adresse aux groupes autochtones, aux entreprises, aux organismes sans but lucratif, aux collectivités et aux municipalités. Elle procure aux Premières Nations de nouvelles possibilités d'établir des liens avec le secteur minier pour collaborer au développement des ressources. Des initiatives ont été lancées dans le cadre du protocole de développement minier et du plan d'action entre le Manitoba et les Premières Nations, se traduisant par la participation de dix Premières Nations à l'élaboration de protocoles, y compris un nouveau protocole de consultation avec la Nation crie de Manto Sipi.

Le Comité de liaison sur l'exploration et l'exploitation minières du Manitoba a été formé pour donner des conseils sur les priorités dans ces domaines et faire progresser les objectifs du **Plan d'action pour la croissance économique du Manitoba**, notamment en soutenant les efforts visant à attirer les entreprises et les investissements dans le Nord du Manitoba.

Le ministère continuera de faire progresser la responsabilisation en matière de réglementation et la réduction des formalités administratives en modernisant la gouvernance des pâturages collectifs et des **terres domaniales agricoles**. Huit ventes aux enchères de baux de terres domaniales agricoles ont été organisées un peu partout dans la province, et 90 % des baux disponibles ont été alloués avec succès.

Le ministère a élaboré et lancé le Programme d'intendance agricole des bassins hydrographiques, une approche conçue au Manitoba pour améliorer la qualité de l'eau et la gestion des nutriments ainsi que la santé des bassins hydrographiques et la résilience face au changement climatique.

Le ministère a travaillé avec Santé, Aînés et Vie active Manitoba pour rationaliser la législation sur la salubrité alimentaire en vertu de la Loi modifiant la Loi sur la santé publique. Nous avons aussi élaboré un plan pour consulter les principaux groupes d'intervenants sur les modifications concernant la salubrité alimentaire et d'autres changements réglementaires proposés.

Nous avons effectué un examen indépendant relatif à la protection des animaux et étudié les recommandations pour faire en sorte d'obtenir des résultats uniformes en matière d'inspection et d'application de la loi. Nous avons continué d'assurer l'application de la réglementation liée à la santé des animaux et d'élargir nos réseaux de surveillance pour protéger la santé humaine, animale et végétale.

Nous avons collaboré avec le ministère de la Conservation et du Climat pour créer un système en ligne de délivrance des licences et des permis pour les activités de plein air. Ce nouveau système devrait délivrer 190 000 permis de pêche et 55 000 permis de chasse chaque année. Le ministère s'est également attaché à soutenir la transition de nombreux fournisseurs du système de délivrance reposant sur des imprimés au nouveau système en ligne.

Le ministère a renforcé sa réactivité et son engagement à l'égard d'un gouvernement ouvert en rendant accessibles en ligne des analyses et des statistiques commerciales et liées aux marchés ainsi que des applications cartographiques interactives (p. ex., les emplacements des lieux de dépistage communautaire dans la lutte contre la COVID-19).

Pour soutenir la croissance de l'industrie, il est important de conserver la confiance du public. Nous avons continué d'élaborer des initiatives axées sur la confiance du public afin de le sensibiliser à l'agriculture et de renforcer la confiance des consommateurs dans la chaîne d'approvisionnement agroalimentaire du Manitoba. En l'honneur des premières familles agricoles à s'établir au Manitoba et en conjonction avec le 150^e anniversaire du Manitoba, le ministère a lancé le **Prix de la ferme d'héritage** pour célébrer les familles agricoles qui atteignent la 150^e année consécutive de propriété.

Le ministère a de plus actualisé son **programme de gestion des situations d'urgence** afin d'améliorer la capacité d'intervention d'urgence tout en veillant à la conformité avec nos obligations réglementaires. Nous avons coordonné les interventions pendant les inondations de 2019 et 2020 et les chutes de neige d'octobre 2019 et avons apporté un soutien continu à la lutte menée par le Manitoba contre la pandémie de COVID-19.

Nous avons continué de chercher des possibilités de mieux servir la population manitobaine. Le ministère a coordonné et présenté sept propositions du Fonds des idées en 2019-2020 en vue de moderniser la prestation de services et de réaliser des gains en efficacité.

Statutory Responsibilities of the Minister of Agriculture and Resource Development

The Agricultural Producers' Organization Funding Act

The Manitoba Agricultural Services Corporation Act

The Agricultural Societies Act

The Department of Agriculture, Food and Rural Development Act (except section 9 insofar as it relates to Rural Opportunities 4 Growth, Infrastructure Grants or Rural Economic Development Initiatives)

The Agrologists Act

The Animal Care Act

The Animal Diseases Act

The Animal Liability Act

The Bee Act

The Cattle Producers Association Act

The Crown Lands Act [section 1, subsection 7.2(2), clause 7.3(2) (c), sections 7.4 to 7.7 and 35; section 4, clauses 5(1)(f), (k) and (l), subsections 5(4), sections 6 and 6.1, clause 7(1)(d), subsections 7(2) to (6), section 7.1, subsections 7.3(1) and (3) to (5), section 10, subsection 13.1(1), sections 14, 16 to 18, 21, 22, subsection 23(3), section 24, subsections 25(1) and (2), and sections 26 to 34.1 insofar as they relate to the administration of Crown lands designated by the Minister of Sustainable Development as agricultural Crown lands, including setting fees and rents and issuing work permits but excluding other dispositions]

As of October 2019:

[section 1, 5 and 5.1, clause 7(1)(c), section 7.1.1, subsections 7.2(1) to (3), clause 7.3(2)(c), sections 7.4 to 7.6, section 8, subsections 12(2), 13(1) and (2), subsection 13.1(1), sections 19, 22, 27 to 29 and 35]

[section 4, clauses 5(1)(f), (k) and (l), subsection 5(4), sections 6 and 6.1, clauses 7(1) (a), (b), (d) and (e), subsections 7(2) to (6), section 7.1, subsections 7.3(1) and (3) to (5), section 10, subsection 13.1(1), sections 14, 16 to 18, 21, 22, subsection 23(3), section 24, subsections 25(1) and (2) and sections 26 to 35, but not including dispositions of Crown lands other than setting fees or rents or issuing work permits]

The Dairy Act

The Endangered Species and Ecosystems Act

The Family Farm Protection Act

The Farm and Food Awareness Act

The Farm Income Assurance Plans Act

The Farm Lands Ownership Act

The Farm Machinery and Equipment Act

The Farm Practices Protection Act

The Farm Products Marketing Act

The Fish and Wildlife Enhancement Fund Act

The Fisheries Act

The Food Safety Act

The Forest Act

The Forest Health Protection Act

The Fruit and Vegetable Sales Act

The Manitoba Habitat Heritage Act

The Land Rehabilitation Act

The Livestock and Livestock Products Act

The Livestock Industry Diversification Act

The Milk Prices Review Act
The Mines and Minerals Act
The Mining and Metallurgy Compensation Act
The Natural Resources Agreement Act, 1938
An Act to Ratify a Certain Agreement between the Government of the Dominion of Canada and the Government of the Province of Manitoba
The Manitoba Natural Resources Transfer Act Amendment Act
The Manitoba Natural Resources Transfer Act Amendment Act, 1963
The Noxious Weeds Act
The Oil and Gas Act
The Oil and Gas Production Tax Act
The Organic Agricultural Products Act
The Peatlands Stewardship Act
The Pesticides and Fertilizers Control Act
The Plant Pests and Diseases Act
The Property Tax and Insulation Assistance Act [Part III.1, and section 1 and Part VI as they relate to subjects covered under Part III.1]
The Surface Rights Act
The Surveys Act [Part II]
The Veterinary Medical Act
The Veterinary Science Scholarship Fund Act
The Veterinary Services Act
The Watershed Districts Act [formerly The Conservation Districts Act]
The Wildlife Act
The Wild Rice Act [except section 2, subsection 8(2), 10 to 13, 15, 16, 18 to 23, and clause 31(e)]
The Women's Institutes Act

SECTION ONE
PART A
PROGRAM AND FINANCIAL INFORMATION

Section One Part A – Program and Financial Information

ADMINISTRATION AND FINANCE - 1

Provide executive planning, management and comptrollership of departmental policies, programs and resources.

MINISTER’S SALARY – 1A

Mandate

Provide for the additional compensation an individual appointed to the Executive Council is entitled to.

1 (a) Minister's Salary

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20 \$(000s)	2019/20 FTEs	2019/20 \$(000s)	Over/(Under) \$(000s)	
Salaries and Employee Benefits	42	1.00	42	-	
Total Sub-Appropriation	42	1.00	42	-	

EXECUTIVE SUPPORT – 1B

Mandate

Provide effective leadership in achieving the department's vision, mission, goals and priorities.

Activities:

- Provide policy and implementation advice to the Minister of Agriculture and Resource Development.
- Lead the development and implementation of the department's policies and programs.
- Provide policy direction for integration into planning and resource allocation.

Actual Results:

- Departmental resources were allocated and utilized in line with the government's policies and priorities, and Minister's Mandate.

1 (b) Executive Support

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20 \$(000s)	2019/20 FTEs	2019/20 \$(000s)	Over/(Under) \$(000s)	
(1) Salaries and Employee Benefits	795	9.00	772	23	
(2) Other Expenditures	53	-	80	(27)	
Total Sub-Appropriation	848	9.00	852	(4)	

COMPTROLLERSHIP SUPPORT SERVICES DIVISION

Division Mandate

Provide assurances that financial and administration management practices are functioning to support departmental programming and risk management towards an efficient and effective government.

FINANCIAL AND ADMINISTRATIVE SERVICES – 1C

Mandate

Lead the department's comptrollership function and advance financial, administrative, resource planning and risk management functions.

Activities:

- Analyze and consolidate departmental reporting to ensure information supports decision-making, monitoring and accountability.
- Design and operate effective processes and systems for financial management, resource planning and monitoring to ensure funds and resources are allocated to departmental/government priorities and are managed responsibly.
- Review SAP roles and monitor risk mitigation on a planned basis.
- Support the Departmental Audit Committee in managing risk as part of its annual internal audit planning.
- Coordinate and maintain the department's Business Continuity Plan.
- Continue to review and update policies and procedures and ensure staff have easy access to tools and resources necessary to perform their jobs.
- Engage staff to build comptrollership capacity across department.
- Lead the department's efforts in achieving a workplace that is respectful, accessible, diverse and inclusive.
- Manage administrative processes such as accommodations, inventory, Freedom of Information and Protection of Privacy (FIPPA) responses, requirements under The Accessibility for Manitobans Act, fleet vehicles, procurement and parking.
- Incorporate ongoing assessment of policies and procedures using lean management principles.
- Manage effective monitoring processes to ensure implementation of audits and reviews recommendations in a timely manner.
- Maximize use of technology to enhance analytical capabilities and reporting capacity to provide accurate and reliable financial and program information for decision-making purposes

Actual Results:

- Completed the department's reporting requirements accurately and with increased efficiency.
- Led an annual integrated review of resources, utilized prioritization tool for consistent support, and managed the review efficiently and effectively.
- Developed an audit plan based on assessed risks. Reviewed branch's responses to various reporting requirements during the year, and at year end to monitor compliance with government requirements and identify improvements.
- Reviewed existing procedures through consultation, identified priority forms and processes to prioritize for digital advancements.
- Continued to promote the completion of the Comptrollership Online courses offered through Organization and Staff Development (OSD).
- Coordinated the Student Temporary Employment Program, with a continued focus on diversity in the workplace, and promoted the Inclusion and Diversity in the Workplace course offered through OSD.
- Completed the department's expenditure and revenue estimates, and in-year and year end reporting requirements accurately while increasing efficiency.
- Completed internal division process improvements to resource tracking and prioritization.
- Supported the completion of audits previously identified on the departments audit plan.
- Continued to evaluate and update policies and procedures to ensure that the resultant processes support government direction; and information is accurate and supports management decision making.

1 (c) Financial and Administrative Services

Expenditures by Sub-Appropriation	Actual	Estimate	Variance	Expl.
	2019/20 \$(000s)	2019/20 FTEs \$(000s)	Over/(Under) \$(000s)	No.
(1) Salaries and Employee Benefits	1,643	30.00	2,121	(478)
(2) Other Expenditures	247	-	475	(228)
Total Sub-Appropriation	1,890	30.00	2,596	(706)

1. The variance is primarily due to expenditure management measures and lower costs due to vacancies.

GEOMANITOBA – 1D

Mandate

Responsible for the stewardship and evolution of Manitoba's shared geospatial technology and information assets.

Activities:

- Carry out legal descriptions, geodetic and other surveys, geo-referenced retracement surveys and control surveys for government departments and agencies on a cost recovery basis, including examining and approving plans of survey of Crown land for sale, lease or easement.
- Re-survey the Manitoba Spatial Reference Network (MSRN) on a five year cycle to ensure stable documentation and current positional data is available to support land management, resource development, engineering studies, and public works with the province.
- Operate a remote sensing service for government and external agencies, including flood mapping, land use land cover mapping in the agricultural zone, mapping Woodland Caribou habitat in the boreal forest of Manitoba, and satellite image processing requirements for the Canadian Crop Assessment program and the Canadian Global Change program.
- Coordinate with government departments and external stakeholders to determine annual priorities for LiDAR acquisition initiatives and partnerships.
- Provide geospatial information about the landmass of Manitoba and Canada through the distribution and sale of map products, including topographic and geographic maps, and hydrographic and aeronautical charts. Maintain the provincial air photo library and Manitoba Land Initiative (MLI) website.
- Provide Geographical Information Systems (GIS) support, guidance, analysis and project services.

Actual Results:

- Actioned 45 legal land survey services including Right of Way and retracement surveys, water control work plans, public road openings and closings, and survey monument restoration. Recovered \$1 million from government departments (Manitoba Infrastructure, Manitoba Agriculture and Resource Development and Manitoba Indigenous and Northern Relations).
- Generated two administrative boundary plans (Firearm Discharge Restricted Area and Deer Management Zone), 33 legal (land) descriptions for disposition of Crown Land, and three district registrar correction of plan for Crown Lands, Teranet Manitoba, Mines and Petroleum branches.
- Provided 200 marker posts to Manitoba land surveyors for protection of Dominion

Government Survey monuments.

- Completed the electronic conversion of GeoManitoba's microfiche database, to include historic land survey information, surveyor field notes, historical correspondence, original township plans. Established a public access computer workstation to enhance internal/public access to information.
- Issued 40 survey instructions, completed plan examinations/ approvals for the disposition of Manitoba Crown Lands including Treaty Land Entitlement (TLE) selection sites and Hydro transmission lines.
- Developed and released seven online interactive mapping applications to the public on Manitoba's website. Completed internal mapping applications for Manitoba Sustainable Development (SD) (building inventory), Apprenticeship dashboard (phase 1), 2019 flood map and October storm update. Supported data processing workflows, boundary areas, LiDAR acquisition through GIS project teams. Supported government GIS staff through Hackathons, GIS toolkit on MBGPS and packaging, deployment and troubleshooting for GIS software.
- Highlighted outdoor recreational activities through Backroad Mapbook Topographic Maps, and added to the product lines carried by the map sales unit.
- Digitalized 450 negatives (rolls) of historic aerial imagery to Manitoba's Air Photo digital library.
- Created daily and weekly composites using National Oceanic and Atmospheric Administration Advanced Very High Resolution Radiometer satellite data for the Canadian Crop Assessment Program.
- Mapped Woodland Caribou Habitat in Manitoba in conjunction with the Manitoba Model Forest and Wildlife and Fisheries branch.

1 (d) GeoManitoba

Expenditures by Sub-Appropriation	Actual	Estimate	Variance	Expl. No.
	2019/20 \$(000s)	2019/20 FTEs \$(000s)	Over/(Under) \$(000s)	
(1) Salaries and Employee Benefits	2,373	33.00	2,527 (154)	
(2) Other Expenditures	696	-	850 (154)	
(3) Less: Recoverable from other appropriations	(895)	-	(1,601) 706	1
Total Sub-Appropriation	2,174	33.00	1,776 398	

1. The variance is primarily due to vacancies and fewer surveys completed.

POLICY AND TRANSFORMATION DIVISION - 2

Division Mandate

Lead policy and program development and delivery that foster an environment for competitiveness, adaptability and sustainability of Manitoba's agriculture, agrifood and agriproduct sector.

POLICY – 2A

Mandate

Foster science-based policy analysis and development, effective program development and delivery relative to government priorities, and appropriate legislative and regulatory reform.

Activities:

- Review CAP-Ag Action Manitoba programs and services for producers.
- Conduct post variety registration testing to provide unbiased data to producers to enable them to make informed crop variety decisions.
- Provide funding opportunities to research projects through CAP-Ag Action Manitoba to achieve products and practices that may be adopted or transferred to the agriculture value chain.
- Provide analysis for the sector and government on grain transportation and infrastructure issues and review and monitor railway performance.
- Engage academic/research institutions, commodity groups and applied research centres in collaborative research projects related to the mitigation of climate change.
- Provide funding and technical support to research projects and initiatives that increase the ability of crops to mitigate and adapt climate change.
- Monitor policy related issues and advocate for the province at Federal, Provincial and Territorial (FPT) table.
- Communicate Manitoba's interests and concerns to the Business Risk Management (BRM) Working Group and the National Programs Advisory Committee (NPAC).
- Review the Manitoba Farm Industry Board's Acts focusing on farmlands and farm machinery.
- Support the legislative changes necessary to modernize the governance of community pastures and Agricultural Crown Lands (ACL).
- Develop and implement agricultural trade advocacy messaging with respect to the United States in areas of concern or interest to Manitoba.
- Continue to assess opportunities for collaboration with public and private stakeholders.

- Increase collaboration of academic/research institutions and the department in the areas of grain innovation, crop production, livestock production, agri-resources, agriproduct processing, and/or economic and market analysis.
- Consult with agricultural industry partners to understand the current and future research priorities and capacity requirements in Manitoba.
- Launch and implement Call for Letter of Intent process for year three of the regional CAP-Ag Action Manitoba for the Research and Innovation activity.
- Develop and enhance boards and commission governance, improve transparency and increase board member skills.
- Ensure CAP-Ag Action Manitoba programming addresses components that build capacity (equipment and/ or personnel) in Manitoba.
- Work with Manitoba Agriculture Research and Innovation Committee (MARIC) and consult with commodity groups, industry representatives and Indigenous groups to identify and address research programming needs and collectively develop deliverables.
- Support and educate agriculture undergraduate and graduate students in project development and grant applications.
- Provide support to research and innovation activities aimed at enhancing plant and animal protein production and processing.
- Facilitate research collaborations in the area of food and agriproduct processing to improve co-stream utilization and waste management.

Actual Results:

- Accepted one CAP-Ag Action Manitoba Assurance - Environment (BMP) intake, offered 15 BMPs to producers and four BMPs targeting industry service providers. Livestock producers submitted 503 applications for a special BMP to develop alternate water sources addressing drought conditions. Rescheduled application deadline for more timely approvals, which were not realized due to operational and administrative pressures of COVID-19.
- Evaluated 11 crop types by MCVET in 15 locations totalling 5,100 plots. Yield and protein data from plots published in provincial seed guide 2020 Seed Manitoba. Printed and distributed 8,200 copies of 2020 Seed Manitoba to seed growers, farmers, seed companies and provincial agriculture offices.
- Collaborated with Manitoba Seed Growers Association, Glacier FarmMedia and MCVET to develop an online variety identification tool in the near future. This will include images of newly registered wheat, barley and oat varieties during three growth stages.
- Received and reviewed 64 Research & Innovation proposals in one intake. Approved 29 applications totalling \$5.2 million for projects related to Agri-Resource Management, Grain Innovation and Crop Production, Economics and Market Analysis, Livestock Production and Processing and Value-Added.
- Participated on the Crop Logistics Working Group discussing issues in grain

handling and transportation systems. Communicated Manitoba's priorities for infrastructure needs and rail service requirements to shippers. Analyzed rail service performance data, crop production and supply chain conditions facing Manitoba farmers and shippers. Evaluated impacts of rail disruptions (e.g., weather, labour disputes, and protest blockades) on grain shippers, and presented Manitoba's interest to federal regulators regarding resolutions.

- Developed research themes from feedback of the MARIC industry, including Climate Change Adaptation, Environmental Sustainability, Food, Diet and Health, and Sustainable Feed Grains Supply and Utilization, which are also in alignment with the Manitoba Protein Advantage Strategy. These themes were announced during MARIC's Research and Innovation workshop.
- Funded 11 CAP-Ag Action Manitoba Research and Innovation proposals (38 per cent of approved applications) totalling \$2.18 million relating to climate change mitigation. Applications include increasing resilience through comprehensive on-farm water management, new crop development and crop rotation impacts on disease and soil health.
- Organized and delivered ministerial engagement events to collect information ensuring Manitoba's position is communicated at the Federal Provincial Territorial (FPT) level.
- Updated the policies and procedures for the operations of the Manitoba Farm Industry Board.
- Modernized and regulated amendments made to the governance of ACL. Work is under development for the regulatory framework for the governance of community pastures.
- Co-hosted the 2019 Legislative Agriculture Chairs Summit in Calgary, Alberta, bringing over 200 state elected representatives to Canada. Discussions included benefits of North American agricultural trade, investment attraction in Manitoba and continued advocacy on rural and agricultural initiatives. November 2019, Manitoba co-hosted the Tri-National Agricultural Accord 28th annual meeting. Strengthened collaborations with state and provincial delegates from Canada, Mexico and US. Discussed support of the ratification of the Canada US Mexico Agreement (CUSMA), ongoing regulatory harmonization, the value of international trade in job creation and the need for joint action on animal disease preparedness.
- Participated in a mission to Indiana building closer relationships between the jurisdictions highlighted with a visit from the Future Farmers of America (FFA) delegation. Formalized a Letter of Intent between Purdue University's College of Agriculture and the University of Manitoba's Faculty of Agricultural and Food Sciences.
- Funded 20 collaborative CAP-Ag Action Manitoba Research and Innovation proposals (69 per cent of approved applications) totalling \$3.91 million to University of Manitoba (UofM), Brandon University (BU), University of Winnipeg (UofW), Food Development Centre (FDC), St. Boniface Hospital Albrechtsen

Research Centre, Agriculture and Agri-Food Canada (AAFC) Lethbridge Research and Development Centre, Brandon Research and Development Centre and Morden Research and Development Centre.

- Held eight consultations on research priorities and alignment of CAP-Ag Action Manitoba Research and Innovation activity with MARIC, industry and academic institutions UofM, BU, Assiniboine Community College (ACC), and UofW.
- Supported the department and applicants in refinement of the Enterprise Machine Intelligence & Learning Initiative (EMILI) project and the proposed Enns Brothers project, cross jurisdictional projects funded by the CAP-Ag Action Manitoba Regional Collaboration Program First Nation Agriculture Engagement project, and the ASF project. The EMILI project will help build sector responsiveness in adoption of emerging technologies to grow sector and increase competitiveness.
- Increased engagement with staff and board members with ongoing training, and attending 18 stakeholder meetings.
- Provided ongoing research intelligence advice/guidance on projects to industry, and facilitated MCVET tours. Involved with advisory committees/task groups including Manitoba Beef and Forage Initiatives (MBFI), Western Grains Research Foundation (WGRF), and Cereals Canada.
- Identified research programming gaps through MARIC industry consultation. Categories identified: Agri-Resource Management, Grain and Crop Production, Livestock Production, and Processing and Value-Added.
- Approved CAP-Ag Action Manitoba Research and Innovation applicants to train 42 Highly Qualified Personnel (HQP). Training workshops for graduate students are planned for future activity.
- Approved 52 per cent of (15 out of the 29 projects) applications under the Research and Innovation activity of the CAP-Ag Action Manitoba Program related to plant or animal protein totalling \$1.7 million.
- Funded eight CAP-Ag Action Manitoba Research and Innovation proposals (28 per cent of approved applications) totalling \$1.33 million related to food and agriproduct production. Topics include smart vertical farm for health improvement in Northern communities, functional food containing Manitoba grown beans, and economic impact of farmers markets.
- Validated program administration data and updated current systems for data tracking including service standards.
- Compiled an inventory of staff research skills and provided staff training to strengthen statistical analysis skills.
- Updated proposal assessment forms. Developed ROI calculation in proposal assessment. Continued development for a research and innovation interim report and searchable database to provide updated information. Established four leadership teams to collaborate with the UofM focussing on sustainable protein, animal disease risk management, public trust and communication and soil and

water quality to increase knowledge transfer of research results.

- Hosted training events to building relationships with Indigenous communities and Peoples. Held tours and speaker events for MARIC board and research and innovation staff to grow Indigenous sector participation. Realized modifications will support Indigenous applicants to ensure equal access to programs as other sector participants.
- Improved ongoing regulatory framework with focus on the legislation relating to food safety and animal disease response.
- Developed a client-centric web landing page for CAP-Ag Action Manitoba providing consistent information including detailed descriptions for eligible applicants, eligible activities, application instructions, and application deadlines. Participation in grants administration project underway.
- Participated in FPT BRM Working Group discussions and contributed to the development of policy materials. Ongoing work to establish cost neutral changes to Business Risk Management programs.
- Participated in FPT BRM Working Group meetings including a meeting with NPAC to discuss how BRM programming will respond to current and emerging issues including international trade restrictions, COVID-19 and the risk of disease outbreaks in the pork sector.

2 (a) Policy

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20 \$(000s)	2019/20 FTEs	2019/20 \$(000s)	Over/(Under) \$(000s)	
(1) Salaries and Employee Benefits	2,958	36.00	3,224	(266)	
(2) Other Expenditures	409	-	750	(341)	1
(3) Grant Assistance	1,118	-	1,119	(1)	
Total Sub-Appropriation	4,485	36.00	5,093	(608)	

1. The variance is primarily due to expenditure management measures and lower costs due to vacancies.

TRANSFORMATION – 2B

Mandate

Create the environment that enables the department to achieve its strategic direction, and ensure industry-leading knowledge and technology solutions are available to effectively inform government policies, deliver client programs and engage the public.

Activities:

- Collect and assess data relevant to the agriculture industry including market reports, sector highlights and profiles, production statistics, historic trends and farm economics. Keep stakeholders abreast of commodity pricing and market trends using multiple communication channels including internet, social media and newsletters.
- Provide data and intelligence on industry variables and emerging market opportunities to entice new development and increase competitiveness.
- Conduct economic and market development projects to assess existing and emerging market opportunities, competitiveness and sustainability in the area of livestock and forage production.
- Consult with commodity groups, industry representatives and Indigenous groups to identify and address their data and economic analysis needs and collectively develop tools and products.
- Gather and publish import, export and trade balance data for markets of interest. Provide customized sector analysis and market research including market trends, opportunities and other factors that influence business and investment decisions. Assist in economic impact analyses of major investments.
- Provide ongoing data and intelligence support to sectoral strategy development, including the Manitoba Protein Advantage Strategy, Livestock Growth, Feed Grain, and Cannabis Edibles strategies.
- Develop and advance a methodology for the department to understand, determine and analyze policy and program benefits.
- Lead the development and execution of a public trust strategy that includes risk analysis, consultation, and initiatives that identify and address issues in agriculture and agriprocessing.
- Enable the department's adoption and integration of the 2018-22 draft Strategic Direction through enhanced planning, management and reporting systems.
- Coordinate department planning to support the Strategic Direction.
- Support for departmental reporting for tabling in the Legislature and other purposes.
- Provide leadership in the development and delivery of a comprehensive emergency management program for government, the agriculture sector, and

public good overall.

- Increase organizational awareness and development of departmental Balanced Scorecards.
- Act as a point of contact for industry intelligence and market research and analysis.
- Provide leadership in the communication, execution and measurement of the department's Employee Engagement Strategy.
- Support the department's progression of the Transformation Strategy.
- Continue to develop management capacity for continuous advancement of organizational goals.
- Develop and/or facilitate resources and systems for effective human resource management.
- Resource continuous improvement and innovation projects as prioritized by the department.
- Increase the capacity and confidence of producers to communicate about public trust topics in agriculture, such as animal welfare, sustainability, environment, technology and food safety.
- Collaborate with industry organizations to build capacity to deliver agriculture awareness initiatives.
- Initiate a strategic planning process to develop a three-year Information Technology (IT) plan that aligns business and IT resources and guides IT related decision making for the department.
- Develop and maintain IT solutions that support operational needs of the department.
- Assess approaches to and provide data collection, economic analysis and knowledge transfer services that add value to internal and external stakeholders. Coordinate and conduct economic analysis, and develop performance indicators to support provincial economic outlook, government and sector planning, policy development, and industry retention and expansion.
- Educate internal and external clients on research programming and promote knowledge transfer of project results.
- Provide leadership in the development and implementation of improved internal and external communication systems.
- Provide communication support for ministerial and executive correspondence, speech preparation, and briefing materials.
- Develop and evolve innovation systems and processes within the department to support transformation.
- Develop and implement a department framework for engaging stakeholders to support a government coordinated approach to citizen engagement.
- Implement the Agriculture French Language Service Plan 2018-2023 initiatives.

Actual Results:

- Continued to support the implementation of sector strategies (e.g., protein, feed, cannabis) with data, information, and research that helped identify industry strengths and market opportunities. Participated in FTP roundtables to address key industry/market issues (e.g., canola and pork access to China, impacts of COVID-19 on agrifood supply chains).
- Responded to 730 requests related to agriculture and agrifood industry, market and trade statistics and analysis in 2019/20, including industry/sector analyses to help set strategic targets.
- Completed 350 production, market and economic analysis reports, including three international market research reports (e.g., lamb and sheep in Japan, Malaysia, and Vietnam).
- Completed an exploratory project with 50 stakeholders to examine big data opportunities with the agriculture industry and identify data analytics opportunities within the department. Provided technical assessments to two big data funding applications (e.g., digital agriculture). Completed a cannabis market research in response to growing production and processing interest as a result of the regulatory change.
- Provided trade statistics and analysis to assess potential impacts resulting from local and/or global production situations, market conditions and/or trade actions. Responded to 18 economic analysis requests, prepared four publications on economic impacts, and coordinated four economic research projects (e.g., Potato Deep Dive) with partners (e.g., Research Manitoba and UofM).
- Continued to expand data sharing partnership with Statistics Canada. Acquired two additional databases (e.g., GlobalData) for international market intelligence through an FPT partnership. Expanded data collection/procurement for the resource sector.
- Initiated a project to form an inter-departmental Return on Investment (ROI) working group, and partnered with Statistics Canada and others to utilize the input/output model in assessing economic impact multipliers.
- Developed a public trust sector strategy for agriculture and agriprocessing, and provided input into national initiatives through the Canadian Centre for Food Integrity and FPT Working Group on Public Trust. Developed a public engagement process. Initiated a public engagement team to improve internal capacity, with all members trained and certified in IAP2 standards and methodologies.
- Integrated the department strategic direction and Minister's mandate through branch planning.
- Continued to facilitate the learning and adoption of balanced scorecard as a strategy management tool. Organized the Best Practices Network on Performance Management for Balanced Scorecards which included 24 staff/managers. Led department Balanced Scorecard training for 28 management staff. Supported the rollout of the Balanced Scorecard initiative led by the central

government, including providing assistance in training.

- Deployed multiple channels and platforms to promote/improve open and transparent communication internally within the department and externally with our clients, including the departmental internet and intranet websites, Growing MB Ag e-newsletter, Twitter, YouTube, and staff e-bulletin. Coordinated and held four Deputy Minister Townhall webinars. Released 24 issues of the internal staff e-bulletin "The Lay of the Land" with the average open rate of 70-80 per cent. Prepared ministerial correspondence, speech engagements and briefing materials. Managed the department's Twitter channel that was updated daily and reached 4,821 subscribers. Released nine issues of the Growing MB Ag e-newsletter, serving over 3,300 external clients.
- Updated the department's emergency management program to ensure compliance with the regulatory obligations under the Emergency Measures Act. Identified 48 staff for emergency training (e.g., WebEOC, ICS100 and EM100). Coordinated responses to the 2019 and 2020 spring flood events, October snowfall event, and COVID-19 ongoing response through the departmental and provincial Emergency Operations Centre (EOC) activation. Participated in preparation and coordination of responses to potential African swine fever.
- Contributed to the coordination of compiling the SILR and Annual Report to improve communication and decision making. Contributed to the Transformation Champions committee on departmental activities. Shared successful recommendations provided to advance innovative solutions.
- Continued collaborations with UofM, including an internship program and farmland ownership study. Mentored four university students on economic analysis projects, including a scan of food development activities in United States (US) and Canada. Organized staff training on the use of data analytics tools for 85 participants.
- Ensured participation of senior management and Executive in the Employee Engagement team activities, including providing feedback and/or responses to team recommendations.
- Promoted the Transformation Strategy in staff orientations, branch planning, and Balanced Scorecard training. Continued to encourage staff participation in the department's Bright Ideas program and to share Continuous Improvement tips through staff e-bulletin and Intranet. Bright Ideas were featured in the central government Transformation Report.
- Participated in inter-departmental initiatives to learn about best practices in performance evaluation, including a performance evaluation/development pilot program led by the central government. Advanced KPI knowledge across the department through self-learning and formal Balanced Scorecard sessions.
- Developed three new agriculture awareness displays, including Build a Burger, Legacy Farm Display, and Manitoba 150 Backdrop. Coordinated agricultural awareness events, including Farm and Food Awareness Week, Manitoba Protein Summit, and annual Agriculture Awareness Day. Supported project management of major agricultural awareness initiatives, including Manitoba's 2019 Open Farm

Day (9,460 visitors and 56 host sites), Great Tastes of Manitoba (15 episodes aired twice, with average 26,000 viewers per week in Manitoba) and Ag in the Classroom-Manitoba (reached 405 schools, 946 teachers and 37,698 students, distributed 1,272 resources directly to teachers, and 5,501 online resources downloaded). Assisted in 80 public/industry engagement sessions. Coordinated input from over 500 stakeholders in support of the Manitoba Protein Advantage Strategy.

- Participated on industry-led committees, including Discover Agriculture in the City, Farm to School Partners Committee, Careers Day Planning Committee, and Manitoba Association of Agricultural Societies Open Farm Day Stakeholder Meeting. Partnered with industry organizations to plan and deliver agriculture awareness initiatives, including Agriculture in the Classroom-Manitoba, AAFC, Manitoba Egg Farmers, Dairy Farmers of Manitoba (DFM), Manitoba Pork, Manitoba Beef Producers (MBP), Manitoba Canola Growers, Manitoba Turkey Producers, Keystone Agricultural Producers (KAP), and Manitoba Association of Agricultural Societies.
- Developed and implemented a three-year IT strategic plan in coordination with the IT Investment and Demand Planning Process.
- Responded to and addressed 100 per cent of the requests for IT Services in 2019/20. Processed over 2,000 eSOR requests, renewed 225 computers and 15 multi-function devices. Serviced 3,300 internet web pages, supported 33 SharePoint collaboration sites, implemented two e-forms, and implemented 15 web AGOL mapping applications and five Survey123 applications. Managed the scoping and implementation phases of two projects. Evaluated 17 quick estimate requests for new solutions. Developed and implemented three application upgrades. Managed scoping and implementation phases of eight projects. Evaluated and submitted seven projects to the IT investment and demand planning process.
- Improved government-wide recognition of the Foresight and Analysis unit as the single-window source for all statistics and economic indicators related to Manitoba's agriculture and agrifood sector. Published and updated statistics data on the intranet, and distributed over 800 copies of annual agricultural statistics factsheet at events (e.g., Ag Days, public consultations) to ensure consistent and transparent communication. Continued collaborative projects with research institutions, producer groups, and other stakeholders to provide training and knowledge transfer opportunities (e.g., Internship, Ag Statistics 101 webinars) in order to advance overall market and economic analysis capacity for Manitoba's agriculture and agrifood sector.
- Completed Year Two activities of the Multi-Year Strategic French Language Plan, including programs and services review with a Francophone lens to advance alignment with French Language Service Policy. Continued to support the implementation of internal and external communication plans. Explored options to integrate department communication capacities.
- Developed a project plan for integrating the department website to bring all content into one site and transition to the use of one web publishing system. The

department internet website as a major system for external communications reported over three million visits in 2019/20, with 49 per cent direct traffic.

- Improved the department service innovation capacity to encourage new service delivery models. 14 staff completed the Innovation Engineering training, and two completed the Human Centred Design training. Coordinated the submissions of seven Idea Fund proposals in 2019/20.
- Recruited new co-chairs and committee members for the department Employee Engagement Team to pursue new engagement activities. Successfully reoccurring activities included the coffee chat and regularly team communications on the internal staff e-bulletin.
- Utilized a phased approach for a mirrored website in French, with 70 per cent of the department website pages translated to date. Mandated Active offer training requirement for all staff. Circulated French language training opportunities to the department to advance bilingual positions in the department.

2 (b) Transformation

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20	2019/20	2019/20	Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,252	28.00	2,373	(121)	
(2) Other Expenditures	469	-	616	(147)	
Total Sub-Appropriation	2,721	28.00	2,989	(268)	

FOOD DEVELOPMENT CENTRE – 2C

Special Operating Agency Mandate

Provide research and commercialization infrastructure and expertise to accelerate industry-level strategies (e.g., protein, livestock, functional food and nutraceuticals) to increase value-add of Manitoba produced commodities.

Activities:

- Partner with department staff and industry to assess opportunities to evaluate commodities for food/processing value.
- Identify and pursue emerging opportunities focused on areas such as protein and cannabis/hemp industry. Collaborate with industry and technical partners to leverage the spectrum of expertise to extract, formulate and produce products containing various components from cannabis and industrial hemp.
- Explore opportunities to partner with Food and Beverage Manitoba (FABMB), and improve coordination with other stakeholders for more effective service.
- Identify opportunities to promote collaborative initiatives by FABMB to assist clients in obtaining market access and coordinate Food Development Centre (FDC) resources to support clients in taking advantage of the initiatives.
- Market FDC services, identify opportunities to increase agriprocessors' production capacity and to attract world-class enterprises for processing animal and plant protein.
- Collaborate with department staff to perform needs assessments for agrifood processors to increase their value-added activities.
- Collaborate with agrifood processors in the development of food ingredients including protein, fibres, and starch (inclusive of applications for the ingredients).
- Conduct traceability, Hazardous Analysis and Critical Control Points consulting, shelf life evaluation/testing, and process validation.
- Assist food processors to manage waste streams to capture value through decreasing effluent volumes or finding alternative uses and economic value from co-products.
- Identify, qualify and quantify performance targets and indicators that align FDC's core activities to link with department strategic objectives and Manitoba's Balanced Scorecard.
- Implement the mapped project management process to achieve increased efficiency and consistency.

Actual Results:

- FDC is home to six companies' production lines producing 12 products for retail and food service markets across Canada. Increased processing and utilization of Manitoba commodities through ongoing protein ingredient and co-product ingredient trials. Created 28 food prototypes for 18 companies.

- Obtained a Research License for Cannabis products, and renewed the Industrial Hemp License to support the ongoing industry development.
- Tested the scalability and economic viability of ingredients from all corners of the globe including Alberta, US and Africa and from all aspects of the plant and animal value chain.
- Hosted clients and members of the public during open houses and Open Farm Day, and presented at a variety of events to educate clients and partner agencies on FDC protein services, facilities and regulatory consulting. These events included; What facility is right for you, Bridge2Food Protein Summit, Manitoba Agriculture and Resource Development Beef Livestock Tour, Manitoba Farm Women's Conference, and Canadian Institute of Food Science and Technology (CIFST) Supplier Expo.
- Focused marketing and communications activities on generating new client leads at a variety of events in Canada and the US, and improved FDC website to reflect protein services available.
- Conducted client-centric needs assessment to identify the technical support and expertise required to achieve business growth goals. Survey results reported a 90 per cent positive experience of working with FDC to achieve product development goals, ingredient development and food safety implementation.
- Increased processing and utilization of food ingredients through ongoing protein and co-product trials with 15 companies, and created 422 labels for 171 food companies for products destined to retail markets across Canada.
- Advanced industry development and food safety practices for the production of safe food for 14 Manitoba companies. Services were oriented on a one-to-one basis, or one-to-many basis. Workshops and webinars were provided to small companies to access technical expertise. At the onset of COVID-19, FDC communicated with industry partners and assisted with procurement of Personal Protective Equipment (PPE) where minimum orders, or availability of supply, are barriers for companies to access PPE required to maintain ongoing operations in food processing facilities.
- Identified, tested and valorised waste or co-streams from seven commodity sources, turning these into potential revenue.
- Enabled entrepreneurs and food companies to incorporate the best available science and industrial best practices in developing, testing and manufacturing food products. Projects at FDC achieved 86 per cent of fee-for-service revenue targets meeting strategic objectives regarding protein extraction, applications and specification development for growth-oriented clients.
- Continued monitoring and reporting project outcomes, tracking progress towards strategic objectives including fee-for-service revenue targets, and promoting the facility for the benefit of food processors and food ingredient companies. Prioritized projects to align with the Minister's mandate in growing the agrifood sector, and enhance Manitoba's position as a leader on protein.

2 (c) Food Development Centre

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl.
	2019/20	2019/20		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
Grants and Transfer Payments	4,259	-	2,020	2,239	1
Total Sub-Appropriation	4,259	-	2,020	2,239	

1. *The variance is due to funding related to Agri-Food Research and Development Initiative and Manitoba Model programs along with a correcting accounting entry for a loan issued to the Food Development Centre.*

GRAIN INNOVATION HUB – 2D

Mandate

Develop and commercialize innovations in the strategically important grains (including cereals, oilseeds and pulses) sector that enhance grain production, processing and consumption.

Activities:

- Provide funding opportunities to research projects to achieve products and practices that may be adopted or transferred to the grain value chain (producers and industry).
- Engage academic/research institutions and applied research centres in collaborative research projects related to the mitigation of climate change.
- Provide funding and technical support to research projects and initiatives that enhance regional collaboration in the areas of grain (cereals, oilseeds, pulses and special crops).
- Increase collaboration of research in the area of food and agriproduct processing to improve co-stream utilization and reduce waste management.

Actual Results:

- Assessed 29 proposals and approved 15 projects for Grain Innovation & Crop production focus area for approximately \$2.77 million to achieve products and practices that may be adopted or transferred to the grain and crop production.
- Held two industry consultations on April 18, 2019 and March 2, 2020 to identify stakeholders' research priorities, and capacity requirements. Breakout sessions related to crop and livestock production and Agri-Resources/climate change determined research gaps, key priorities and existing barriers to drive innovation, resulting in the development of a new Climate Change theme for the 2020 intake.
- Approved \$234,000 to AAFC to develop genomics tools to help control rust disease in wheat, which is part of the Genome Canada project "4DWheat: Diversity, Domestication, Discovery and Delivery". Approved \$48,400 to Manitoba Pulse & Soybean Growers Association to continue surveillance and monitoring of the status of Herbicide-Resistant (HR) weeds across the Canadian Prairies. This will consist of a series of Prairie HR weed surveys and a strategy for bio vigilance of HR weeds in the Prairie Region of Canada. This will promote an awareness of HR weeds, guiding priorities of agricultural industry, and help growers understand how to mitigate and manage HR weeds on farms.
- Approved two projects related to co-stream utilization and decrease waste management totalling \$154,400.
- Approved \$77,900 to UofM to evaluate the agronomic and physiological response of crops with differing phosphorus acquisition mechanisms to struvite application in Manitoba soils with differing properties, in the context of crop rotation.

- Approved \$76,590 to New Era Ag Technologies Inc. to assess the effects of wood ash as a soil amendment to control clubroot on wheat, canola, soybeans and field peas in North West Manitoba soils.

2 (d) Grain Innovation Hub

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20	2019/20		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
Grants and Transfer Payments	1,542	-	3,000	(1,458)	1
Total Sub-Appropriation	1,542	-	3,000	(1,458)	

1. The variance is primarily due to various projects being delayed to 2020/21.

RISK MANAGEMENT, CREDIT AND INCOME SUPPORT PROGRAMS -3

MANITOBA AGRICULTURAL SERVICES CORPORATION – 3A

Mandate

Support the sustainability of agriculture in Manitoba by providing risk management solutions, targeted lending products and other land-based programs.

Activities:

- Administer the AgrilInsurance Program.
- Offer unsubsidized Hail Insurance for crops.
- Administer the Wildlife Damage Compensation Program.
- Administer the Young Farmer Crop Plan Credit Program.
- Administer the Western Livestock Price Insurance Program (WLPPI).
- Administer government emergency assistance (ad hoc) programs.
- Make direct loans for land purchases and other farming activity, including the purchase/retention of calves and feeder cattle.
- Guarantee agricultural loans made by the private sector.
- Increase interest reductions to young farmers.
- Provide emergency and other financing at the direction of the Manitoba Government.

Actual Results:

- Insured \$2.9 billion of AgrilInsurance liability, covering 9.6 million acres and 7,886 farm operations.
- Provided \$985.7 million of Hail Insurance liability, covering 4.2 million acres and 3,583 farm operations.
- Paid \$8.3 million in wildlife damage compensation.
- Provided 35 young farmers credit totalling \$10,396 under the Young Farmer Crop Plan Credit.
- Approved 1,583 loans totalling \$250.1 million.
- Facilitated 109 guarantees on loans totalling \$94.9 million.
- Insured \$55.5 million of liability under the WLPPI, covering 42,026 animals for \$761,200 in premium.
- Provided \$1.2 million in rebates under the Young Farmer Rebate program.

3 (a) Manitoba Agricultural Services Corporation

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20 \$(000s)	FTEs	2019/20 \$(000s)	Over/(Under) \$(000s)	
(1) Administration and Lending Costs	(3,778)	-	2,673	(6,451)	1
(2) AgriInsurance	48,851	-	50,027	(1,176)	
(3) Wildlife Damage Compensation	4,328	-	2,817	1,511	2
Total Sub-Appropriation	49,401	-	55,517	(6,116)	

1. *The variance is primarily due to an increase in net interest income caused by higher projected loan volumes and higher net interest margins and a forecast for the sale of land acquired through the Land Lease Option Program or through foreclosure and voluntary transfer of title in settlement of loans.*
2. *The variance is primarily due to an increase in average compensation amounts and number of claims for crop damage caused by big game and waterfowl resulting from a delayed harvest and above average unharvested acres due to a wet fall and the October 2019 storm.*

AGRICULTURAL INCOME STABILIZATION – 3B AGRISTABILITY AND AGRINVEST

Mandate

Provide producers with assistance to manage financial difficulty arising from risks related to market disruption, natural disasters and production problems, thereby assisting the agriculture industry to be resilient and competitive.

Activities:

- Perform forecasting review for AgriStability and AgriInvest programming.

Actual Results:

- Identified solutions with Comptrollership Support Services Division to improve budget accuracy and reduce variability. Work is ongoing to improve forecasting methodology, including engagement with AAFC.

3 (b) Agricultural Income Stabilization

Expenditures by Sub-Appropriation	Actual	Estimate	Variance		Expl. No.
	2019/20	2019/20	Over/(Under)		
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) AgriStability	34,712	-	19,142	15,570	1
(2) AgriInvest	12,290	-	13,178	(888)	
Total Sub-Appropriation	47,002	-	32,320	14,682	

1. The variance is primarily due to an increase in the federal forecast for expected payments related to the 2019 program, partially offset by an adjustment to prior years.

FARMLAND SCHOOL TAX REBATE – 3C

Mandate

Provide rebates of the school taxes on farmland.

Activities:

- Administer payment of school tax rebates of \$45.3 million to 26,500 Manitoba farmland owners.

Actual Results:

- Administered \$40.6 million in school tax rebates to 24,629 Manitoba farmland owners as of March 31, 2020. There is \$3.7 million in expected rebates to be paid after March 31, 2020, bringing the total to \$44.3 million.

3 (c) Farmland School Tax Rebate

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20 \$(000s)	2019/20 FTEs	2019/20 \$(000s)	Over/(Under) \$(000s)	
Grants and Transfer Payments	44,417	-	45,698	(1,281)	
Total Sub-Appropriation	44,417	-	45,698	(1,281)	

STEWARDSHIP AND ASSURANCE DIVISION - 4

Division Mandate

Create the environment for achieving optimal health for people, animals and the environment through One Health collaborative efforts that advance public and industry interests.

FOOD SAFETY AND INSPECTION – 4A

Mandate

Contribute to the security of the Manitoba food supply to safeguard the health of Manitobans and to ensure confidence in Manitoba's food system for the protection of trade and competitiveness of Manitoba's agrifood processing industry.

Activities:

- Provide support for new business development including regulation advice, guidelines, fact sheets and best practice recommendations.
- Modernize food safety regulations with Manitoba Health, Seniors and Active Living (MHSAL).
- Develop and implement an audit system for inspection programs.
- Increase consumer confidence and build public trust.
- Conduct and enhance food safety surveillance.
- Provide animal welfare oversight in provincial abattoirs.
- Provide oversight of on-farm dairy inspection program.
- Deliver provincial meat inspection and food processing establishment inspection program.
- Enforce food safety regulation in provincially permitted food processing and distribution establishments and abattoirs.
- Investigate potential food safety issues.
- Administer the elk game farm program.
- Implement revised risk assessment.
- Assure scientific evaluation of processes and ingredients to ensure safe food production.
- Improve interdepartmental communication.
- Review inspection delivery models.

Actual Results:

- Provided inspections covering 468 permitted facilities. Completed 45 building assessments, and issued permits to 38 new facilities.
- Collaborated with MHSAL to streamline food safety legislation under one act - Bill 45- The Public Health Amendment Act (Food Safety and other Amendments). Developed a consultation plan for briefing key stakeholder groups on amendments and proposed changes to the Food and Food Handling Establishment Regulations (FFHER).
- Conducted audits of animal welfare and harvesting practices at 24 provincially permitted abattoirs. Conducted audits of carcass dressing, meat hygiene and the cleanliness of the equipment and facility at 24 provincially permitted abattoirs.
- Development and implementation of a protocol for processing inspection audits was delayed due to prioritization of regulatory work related to Bill-45.
- Identified 1,300 non-compliances during inspections. An average of 1.5 infractions were documented per inspection.
- Prioritized follow-up on non-compliances based on risk, with approximately 85 per cent of required follow-up complete at any given time. Issued six warning letters, four offence notices and four seizures of product.
- Continued water testing at processing facilities using well water, and at water bottling establishments according to bacterial water monitoring protocols for food handling establishments. This protocol was developed in 2016, following a review of results from 2014/2015, which revealed that majority of unacceptable results originated from wells. Bottled water and pre-packaged ice were also a priority for testing as bottled water and ice are in demand during boil water advisories.
- Conducted 35 antibiotic residue tests in provincial abattoirs. The surveillance target of 120 was not achieved due to inspector turn over, and training new inspectors on testing requirements and procedures. This activity will be a priority for the 2020-2021.
- Enforced animal welfare standards in provincial abattoirs. Reported 26 animal welfare cases to the Animal Welfare Branch.
- Completed 844 inspections, including 537 routine inspections and 257 re-inspections at approximately 470 provincially inspected processing/distribution establishments. Regularly met required inspection frequencies for high and medium risk category one facilities (i.e., facilities with a risk based routine inspection frequency of two to three times annually). Provided approximately 2,200 meat inspection days to 25 provincially permitted abattoirs.
- Maintained licensing program for elk game production farms with 11 farms licensed and provided antler tags.
- Implementation is near completion on an improved risk assessment model to better assess facility risk, which considers the inherent risk of the product/process, compliance history and facility condition. The work will be completed in 2020-21.

- Assessed food safety processes and risks observed during routine inspections with food safety specialists, who research and determine an appropriate regulatory approach.
- Prepared ten documents outlining Food Safety and Inspection's approach to regulating various food products, processes and commodity types.
- Created two technical documents targeted to provincially inspected dairies describing the department's approach to cheese testing (finished product testing).
- Created a protocol on raw milk sampling and testing procedure for Manitoba Dairy Farms (applicable to Health Officers and dairy specialists).
- Continued to work with MHSAL to inspect permitted food establishments, investigate illegal food establishments, and follow up on foodborne disease outbreaks.
- Worked nationally with the federal and provincial departments of health and agriculture on common food safety initiatives. Represented the department on food safety related FPT committees and working groups. Participated in bilateral operations meetings with the CFIA.
- Completed the review of meat inspection delivery models in other jurisdictions in 2018.
- Started a pilot in January 2019 to look at an alternative approach to traditional meat inspection (cold carcass inspection). The development of the pilot was paused in March 2020 due to COVID-19.

4 (a) Food Safety and Inspection

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20	2019/20		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,639	33.00	2,702	(63)	
(2) Other Expenditures	550	-	675	(125)	
Total Sub-Appropriation	3,189	33.00	3,377	(188)	

ANIMAL HEALTH AND WELFARE – 4B

Mandate

Provide leadership, technical expertise and an appropriate regulatory and enforcement framework to protect human, animal and plant health and industry competitiveness.

Activities:

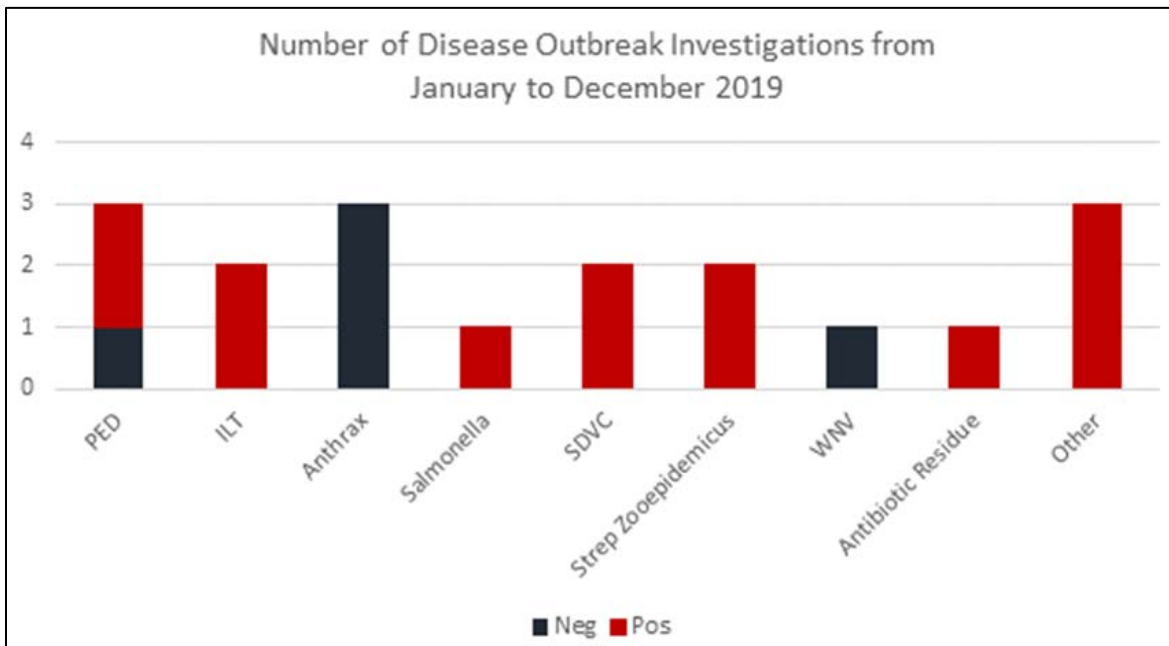
- Provide regulatory oversight of The Animal Diseases Act, including conducting animal disease investigations and animal disease response.
- Conduct surveillance, detection and responses to threats to public and animal health that have agricultural/veterinary involvement.
- Provide regulatory oversight under The Animal Care Act, including conducting animal welfare inspections, and enforcement.
- Monitor the Animal Care Line for animal welfare complaints and respond appropriately.
- Review Animal Welfare program and delivery models.
- Develop auction market inspection program.
- Utilize a One World, One Health Approach.
- Continue enhanced communication of the Premises Identification Program.
- Develop and implement emergency response framework for critical animal health and welfare incidents.
- Continue dialogue with industry to develop joint resolution to issues and develop industry capacity for management of health and welfare.
- Provide veterinary diagnostics services to protect and advance animal health and human health.
- Work with the Canadian Animal Health Surveillance Network and other stakeholders to improve and standardize animal health surveillance for emerging disease threats.
- Collaborate in a One World, One Health approach to protect and advance human and animal health to optimize provincial efforts in cross jurisdictional disease issues such as rabies, anaplasmosis, anthrax and chronic wasting disease.
- Develop animal disease management and prevention programs and strategies.
- Create business requirements for a Laboratory Information Management System.
- Implement tests for honey bee diseases at Veterinary Diagnostic Services (VDS), in consultation with other laboratories.
- Review and revise Veterinary Diagnostic Services' Quality Management program to identify any potential gaps.
- Review, update and implement diagnostic test methods.

- Partner with Cadham Provincial Laboratory in a One Health approach as opportunities arise.
- Conduct training sessions for veterinarians and other animal health workers.
- Create and implement communication strategy to improve communication and promotion of activities and services.
- Conduct client and stakeholder consultations to create a strategy to enhance engagement and collaboration.

Actual Results:

- Initiated 18 disease investigations, including a second large scale Porcine epidemic diarrhea (PEDv) outbreak. Other outbreaks included Infectious laryngotracheitis (ILT), Anthrax, and Salmonella Enteritidis (Figure 1). Investigated two canine diseases with potential public health impacts, *Brucella canis* and *E. multilocularis*.

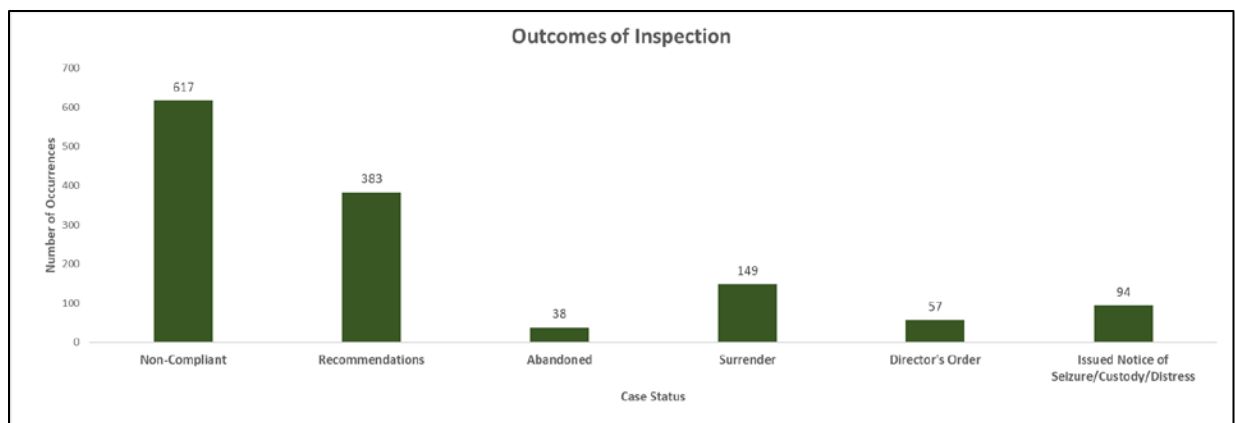
Figure 1



- Conducted further statistical analysis on the spread of PEDv in Manitoba from 2017-2019, including area spread risk factors for PEDv. Identified improvements to manure application, weather patterns, transport and premises level contacts.
- Conducted animal health surveillance using abattoir inspection and laboratory diagnostics data. Analysed and interpreted to inform regional and national surveillance networks. A disease specific surveillance report for Salmonella species from poultry submissions to VDS was provided to Manitoba Chicken Producers to mitigate risk.
- Assisted in expansion of Canada West Swine Health Intelligence Network surveys and professional input in detecting, and reporting emerging diseases and Foreign Animal Diseases in Manitoba.

- Provided technical oversight to high risk, high traffic PEDv surveillance project led by Manitoba Pork Council (MPC), initiating trace back investigations to premises connections.
- Received 1,104 animal welfare concerns reported through the Animal Care Line resulting in inspections by Animal Protection Officers (APO) under The Animal Care Act.
- Conducted 1,104 case inspections resulting in 617 non-compliant cases under the Animal Care Act. APO provided recommendations to owners which led all cases into compliance. Of these cases 62 per cent (383) of animals were voluntarily surrendered, a director's order was issued in 24 per cent (149) of cases, animals seized in nine per cent (57) of cases, and a Notice of Seizure/Custody due to animals being deemed in distress or abandoned in 15 per cent (94) of cases (Figure 2).

Figure 2



- Actioned enforcement in 12 cases proceeding to an appeal hearing of the Animal Care Appeal Board. Six cases involved the execution of a warrant to collect evidence and/or relieve animal distress, 37 resulted in the issuing of provincial offence notices, eight resulted in the application for a Justice's Order and two resulted in the issuing of a Prohibition Order.
- Received 20 abattoir-related animal welfare concerns reported to the Animal Care Line that resulted in inspections under the act by APOs.
- Identified diagnostic tracking for disease investigations as a business needs assessment for the replacements of both the laboratory information management system (LIMS) and the Decision Support System for Animal Emergencies (DSSAE). Both of these components of IT infrastructure are in critical need of replacement.
- Implemented the province's updated PEDv response plan during the 2019 PEDv outbreak to address seasonal variation and key high risk geographic regions, based on analysis of 2016, 2017 and 2018 outbreaks.
- Worked with SD and national partners to update the existing Chronic Wasting Disease (CWD) provincial and national response plans in accordance with the

changes to the CFIA's response.

- Expanded ASF planning at the provincial, regional and national level. Led the development of response priorities of financial support and recovery, depopulation and disposal, training and communication. The provincial response is intended to fully integrate with the sector approach outlined by MPC. Also provided technical input into the development of a joint federal and provincial government ASF surveillance pilot.
- Provided leadership in the Western Canadian regional approach to ASF, the western pork councils and provincial Chief Veterinary Officers (CVOs). Technical input is provided to the western Canadian planning and ASF executive board to address depopulation, disposal, surveillance and movement control.
- Completed detailed analysis in premises infected in the 2017, 2018 and 2019 PEDv outbreaks. Disease outbreak modeling project analysis is being led by MPC and one led by the CFIA.
- Collaborated with various research institutions on projects such as: a new methodology for Johne's disease testing at VDS in collaboration with Cornell University Animal Health Diagnostic Center; contributed bacterial cultures from the AHL to the Veterinary Laboratory Investigation and Response Network (Vet-LIRN) Antimicrobial Resistance Surveillance Program; assisted the Atlantic Veterinary College, Regional Diagnostic Virology Services in their development of tests for swine enteric viruses; worked with Prairie Diagnostic Services, University of Guelph Animal Health Laboratory (AHL) and the University of Illinois in developing multiple tests and reference intervals in the VDS Clinical Pathology Section; assisted Indigenous communities in Nunavut by investigating mortality in fish populations with Fisheries and Oceans Canada; partnered with the Crops Diagnostic Centre (CDC), the National Bee Diagnostic Centre (Grande Prairie College), the UofM Department of Entomology and the AHL; and worked with the Wildlife and Fisheries Branch to update CWD detection and response plans and national colleagues to develop and operationalize a *Brucella canis* response plan.
- Passed compliance audit for Human Pathogens and Toxins Act and Regulations with the Public Health Agency of Canada, certifying VDS as a licensed facility and recertified VDS Microbiology Section in brucellosis testing for export of cattle and swine through CFIA.
- Completed independent Animal Welfare Review (AWR) with improvements for Animal Protection Officers (APOs) in inspection and enforcement consistency, to improve process efficiency to ensure protection across animal species.
- Implemented a Kennel Training Certificate Program for companion animal breeding premises, boarding kennels, animal rescues, shelters, companion animal retail stores, and municipal pounds to build public trust and improve accountability and credibility.
- Provided technical input in regulatory amendments. Development in zoning regulations will continue to explore legislative change of The Animal Care

Regulation, to remove the kennel licensing provisions and update the Codes of Practice for amendments.

- Participated in Hatchery Supply Flock program supplying 51 hatchery, including 35 broiler breeder flocks in three hatcheries, nine layer breeder flocks in two hatcheries and seven turkey breeder flocks in one hatchery.
- Identified 287 new premises in the 2019/20 fiscal year. All commercial livestock species have at least 75 per cent of all premises identified.
- Modernized the PID application form for mobile devices to reduce administrative burden to stakeholders.
- Activated EOC as a result of COVID-19 to address impacts to the agrifood industry and veterinary public health issues.
- Improved disease response capacities through collaborative efforts with industry.
- Delivered the Manitoba Rabies program under the One Health approach and continued to improve program response time for sample testing.
- Promoted animal health and welfare in northern communities including Thompson and RCMP officers. Attended and presented during Ag Safety Day at the Long Plains First Nations School.
- Strengthened relationships with First Nation communities for veterinary public health programming including rabies by recruiting sample collectors from the community. Public health orders have resulted in delays.
- Received 10 per cent increase in client lab submissions totalling 19,710. Conducted 157,673 diagnostic tests (Table 1).

Table 1: Laboratory tests performed at VDS from April 1, 2019 to March 31, 2020

Animal Type	Number of Tests	Percentage
Swine	100,196	64%
Chickens and Turkeys	34,331	22%
Cattle, Sheep and Goats	9,203	6%
Dogs and Cats	10,184	6%
Other	3,759	2%
Total	157, 673	100%

- Provided expertise to the Canadian Animal Health Surveillance System (CAHSS) group into a joint industry / government oversight under the national Farmed Animal Health and Welfare Council (NFAHWC).
- Provided technical expertise to the Canada West Swine Health Intelligence Network expanding surveillance capacity for swine diseases in western Canada.
- Completed the first phase of a project to develop a consistent approach to disease case definition framework with the Veterinary Surveillance and Epidemiology Network (VSEN) and CAHSS.

- Developed a network to improve reporting of emerging disease through the Community of Emerging and Zoonotic Disease. Provided expertise to surveillance efforts for rabies and bioterrorism. Initiated the Western Canadian Animal Health Network.
- Continued participation in the Canadian Animal Health Surveillance Network (CAHSN). Worked with the National Centre for Foreign Animal Disease (NCFAD) to increase the number of VDS technologists certified in foreign animal disease (FAD) testing from three to eight. CASHN FAD tests include ASF, Classical Swine Fever, Foot-and-Mouth Disease, Avian Influenza and Newcastle Disease.

4 (b) Animal Health and Welfare

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20	2019/20		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	4,893	53.00	5,255	(362)	
(2) Other Expenditures	3,328	-	2,820	508	1
(3) Grant Assistance	11	-	11	-	
Total Sub-Appropriation	8,232	53.00	8,086	146	

1. *The variance is primarily due to increased testing due to the Porcine Epidemic Diarrhea virus outbreak in 2019 and increased fees from the Winnipeg Humane Society to perform companion animal inspections/investigations.*

AGRI-RESOURCE BRANCH – 4C

Mandate

Facilitate climate change adaptation and the sustainable development, use and protection of Manitoba's agro-ecosystem including air, land and water.

Activities:

- Increase the number of crop development models in support of risk management for producers.
- Increase usage of AgriMaps and viewers on ArcGIS online (AGOL). Review soil interpretations for engineering standards.
- Investigate farm safety module for online Environmental Farm Plan (EFP) delivery.
- Add soil information for the RM of Cornwallis to AgriMaps.
- Maintain weather stations and validate potato late blight model.
- Support the Made in Manitoba Climate and Green Plan.
- Provide crop and livestock predictive risk models in historical context. Models focus on disease, environmental pressures and provide decision support tools for producers.
- Increase utilization and productivity of ACL for livestock production in an environmentally sustainable manner.
- Update land base calculator for poultry and dairy and develop Benefits of Livestock factsheet.
- Develop an EFP digital delivery model with Keystone Agricultural Producers (KAP) to include sector specific modules.
- Streamline the Technical Review (TR) process.
- Deliver Crop Residue Burning Program.
- Support climate change adaptation through development of GHG module for online EFP.
- Monitor carbon pricing impacts on primary agriculture and agriprocessing sectors, investigate carbon offset markets and sequestration metrics.
- Modernize the EFP through online delivery.
- Protect agricultural land through planning and policy.
- Conduct research and extension in tile and surface drainage systems on agricultural lands.
- Support Crown and community pasture land resource management planning.
- Provide leadership in extension and incentive programming as well as regulatory and research support regarding aspects of water management.

- Complete development and implementation of the Environment BMP program and Watershed Environmental Goods and Services (EG&S) in support of provincial Growing Outcomes in Watersheds (GROW) initiatives.
- Modernize ACL program via updated regulations and policies.

Actual Results:

- Integrated an evapotranspiration model into the agriculture weather data stream. Produced 11 weekly maps for precipitation, growing degree days, corn heat units, potato days and fusarium head blight using models utilizing weather station data.
- Provided ten technical land use reviews of applications for exemption involving foreign ownership of lands under the Farm Land Ownership Act, including soil agricultural capability information and development plan policy interpretation.
- Selected one potential emergency mass mortalities site for further study and development based on soil data, engineering reports and siting criteria. Installed three piezometers at the site to collect groundwater data. Initiated approval process for emergency use under The Environment Act.
- Delivered the soil and engineering sections of the Manure Management Planner course ensuring understanding of The Environment Act and The Water Protection Act.
- Delivered 20 presentations promoting practices to improve soil health for enhanced productivity. These practices support regenerative agriculture and sustainable production of protein in Manitoba.
- Embarked on four year project to mitigate risks with extremes of moisture and crop diseases, including nitrogen management, real time soil moisture modeling and forecasting model, fusarium head blight and potato late blight.
- Evaluated soils in the Rural Municipalities (RMs) of Souris-Glenwood, Whitehead, Killarney-Turtle Mountain, Cartwright-Robin, and Riverdale completing 650 soil pits of soil correlations.
- Prepared RM of Whitehead soils report assigning 1,670 soil series names and map units, 354 sets of agriculture capability, soil suitability for irrigation and potato production, classifying soil for including soil erosion, stoniness, topography, salinity, drainage, texture and other soil chemical properties.
- Produced soil erosion map with new definitions for the RM's of Cartwright-Roblin, Argyle, and Prairies Lake
- Completed online EFP and sector specific modules.
- Published soil information for the RM of Cornwallis on the Manitoba Land Inventory (MLI) website, for Google Earth written format on the Government of Manitoba website. Not currently available on AgriMaps. Uploaded the RM of De Salaberry to soil survey web site.
- Maintained network of 108 weather stations providing data for models including potato late blight. Our online weather page had the highest number of unique

visits (37,739).

- Worked with AAFC to plan delivery of the On Farm Climate Change Assessment Module.
- Developed six new Beneficial Management Practices (BMP) for delivery of expanded Sustainable Agriculture Incentives Program (SAIP) funding expected under the Low Carbon Economy Fund.
- Worked with UofM Department of Animal Science to quantify impact of beef-related BMPs.
- Implemented ACL leases auction process. Allocated 62 forage leases and 18 cropping leases at eight live auctions hosted across the province.
- Monitored range management productivity on Crown lands over the long term. Productivity fluctuates on agricultural land under long-term lease or permit, annual growing conditions, and casual permitting process.
- Administered 1,621 forage leases (1,316,227 acres and 542,960 Animal Unit Months (AUMs)), 45 cropping leases (5,665 acres), 38 renewable grazing permits (8,345 acres and 2,444 AUMs), and 222 renewable haying permits (61,622 acres and 19,964 AUMs).
- Updated poultry and dairy data in the Manitoba Land Calculator ensuring sustainable land requirements for new and expanding livestock operations.
- Published Farm Practices Guideline for Livestock Producers on odour nuisance.
- Received approval in March 2020 to enter into an agreement with KAP to develop online EFP (eEFP) for up to \$990,000 over four years (2019-2020 to 2022-2023).
- Streamlined Technical Review Committee (TRC) site assessment form.
- Processed approximately 20 TRC applications for new and expanding livestock operations of 300 animal units that required Conditional Use (CU) approval. Attended associated CU hearings by RM councils.
- Provided daily authorizations for the Crop Residue and Non Crop Herbage Regulation from August 1 to November 15, and issued 23 permits.
- Completed online EFP and sector specific modules.
- Contributed to the Climate and Green Plan Implementation Office report on carbon offset system options for Manitoba.
- Confirmed the strong carbon sequestration potential of planned grazing and cover cropping.
- Delivered online EFP program in partnership with KAP to 309 producers, through 33 in-person workshops. Issued 143 Statements of Completion to producers covering 319,004 acres.
- Developing a GIS based land use tracking system, with assistance from Transformation Branch, to monitor agricultural land use designations on an area basis and the agricultural capabilities.

- Reviewed 139 By-laws, including ten Development Plans (DP), 43 DP Amendments, 13 Zoning By-laws (ZB), 68 ZB Amendments and five Secondary Plans. Municipal by-laws are reviewed to ensure policy support for the agricultural sector, deter unplanned rural residential development on agricultural land, and maintain pasture and cultivated land for agricultural use.
- Reviewed 306 subdivision applications affecting 4,600 acres in rural areas.
- Updated soil suitability for tile drainage of Manitoba.
- Attended six Bloc Planning Committee meetings representing agriculture, encouraging expanded agricultural use.
- Delivered the Emergency Hay and Grazing program, making an additional 185 parcels (out of 251 requested) of Crown land available to farmers, including 149 parcels (18,766 acres and 4337 AUMs) of non-agricultural coded Crown land.
- Made three technical presentations to municipal audiences to explain tile drainage.
- Delivered two courses for tile network designers to comply with regulatory requirements.
- Conducted three tile drainage extension events for farmers and agronomists.
- Approved 20 projects totalling \$1.06 million under Ag Action Manitoba's Assurance: Watershed Ecological Goods and Services activity.
- Developed Provincial GROW program framework, with first two local GROW programs announced by the province in October.
- Amended the ACL Leases and Permits Regulation (October 2019) alongside amendments to The Crown Lands Act, enabling allocation of leases via auction, revised rent calculations, and updated eligibility.
- Implemented policies related to term length, eligibility, allocation, rent, and transfers.
- Assessed impact on regulatory requirements on further amendments.
- Reduced ACL appeals to zero by implementing public auction for allocation of long-term agricultural leases. Historic appeals average 18 associated with lease allocations, one associated with unit transfers, and one associated with cancellations.
- Provided engineering support from the Engineering Services Team (EST), including Prairie Agricultural Machinery Institute (PAMI) and Agri-Resource Engineer. A summary table of 2019/20 EST projects is provided.

Summary of 2019/20 EST Projects	
Project	Funding Amount
Grain Handling Engineering Support for Farmers	\$26,758
Odour Impact Assessment Model (OIAM) for Pig Operations in Manitoba Version 3.0	\$32,969
ASF Emergency Burial Site Initiative - De Salaberry Site Assessment/Verification	\$70,974
Conceptual Plan of a Stationary N2 Gas Euthanasia Unit	\$47,722
Manitoba Agriculture and Resource Development Engineering Support	\$2,417
TOTAL	\$180,840

- Concluded a 5-year project supporting the Canadian Foodgrains Bank (CFGB) "Scaling up Conservation Agriculture in East Africa", including developing a soil health assessment process and training CFGB staff in Kenya, Tanzania and Ethiopia. Preliminary data were presented at the United Nations Food and Agriculture Organization (UN FAO) Symposium on Soil Erosion in May 2019.

4 (c) Agri-Resource

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20	2019/20		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	3,272	39.00	3,563	(291)	
(2) Other Expenditures	755	-	1,492	(737)	1
Total Sub-Appropriation	4,027	39.00	5,055	(1,028)	

- The variance is primarily due to delays in establishing contracts with third parties for soil survey field work and livestock engineering services and lower administrative expenses for the Agricultural Crown Lands program.

SUSTAINABLE AGRICULTURE INCENTIVES PROGRAM – 4D

Mandate

Improve land, air and water resource management through cost shared investment in BMP on farm.

Activities:

- Provide financial assistance to agriculture producers for adoption of targeted BMPs that improve the environmental sustainability of their operations and enhance public trust in agricultural operations.

Actual Results:

- Approved 87 Beneficial Management Practice (BMP) projects for \$537,604 in 2019/20. Paid out \$760,611 for 133 BMP projects in 2019/20 (includes carried over projects from 2018/19).
- Developed six new BMPs for delivery under an expanded Sustainable Agriculture Incentives Program (SAIP) with expected funding under the Low Carbon Economy Fund.
- Drafted tracking mechanism for the Climate and Green Plan indicators relating to BMPs.

4 (d) Sustainable Agriculture Incentives Program

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20	2019/20		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
Grants and Transfer Payments	762	-	1,500	(738)	1
Total Sub-Appropriation	762	-	1,500	(738)	

1. The variance is due to fewer applications approved and timing of project completions.

RECOVERABLE FROM OTHER APPROPRIATIONS – 4E

Mandate

This sub-appropriation provides for the recovery of Sustainable Agriculture Incentives Program (SAIP) related expenditures incurred by the Stewardship and Assurance Division of Manitoba Agriculture and Resource Development.

4 (e) Less: Recoverable from other appropriations

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20	2019/20		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
Recovery	(762)	-	(1,500)	738	1
Total Sub-Appropriation	(762)	-	(1,500)	738	

1. The variance is due to lower Sustainable Agriculture Incentives Program costs to recover from the Made in Manitoba Climate and Green fund.

PRODUCTION AND ECONOMIC DEVELOPMENT DIVISION - 5

Division Mandate

Create the environment that accelerates economic development in the agriculture, agrifood and agriproduct value chain.

INDUSTRY ADVANCEMENT – 5A

Mandate

Provide and gather information, deliver or path find programs and services, and transfer knowledge direct to sector stakeholders in a manner that advances the capacity of the agriculture, agriprocessing industry to adopt best management practices, manage risk, capitalize on opportunities, adapt to challenges and strengthen industry organizations.

Activities:

- Develop new, enhance existing and maintain farm business management decision tools/resources.
- Build farm business management capacity in establishing farmers.
- Interact with establishing farmers at the University of Manitoba, Assiniboine Community College, Farm Women’s Conference and through the 4-H program.
- Strengthen establishing farmer organizations and their organizational capacity.
- Provide financial analysis and recommendations to the Manitoba Farm Industry Board to support mediation for producers in financial difficulty.
- Provide farm management analysis in the areas of protein, potatoes and Crown lands modernization.
- Finalize and confirm an “establishing farmer” departmental strategy to be used as a discussion document for industry consultations.
- Provide producers with decision making tools and educational resources to manage market, financial and cost related risks, delivered through the website, presentations and tradeshow.
- Organization assessments, strategic planning, leadership and governance training; develop and promote industry leadership development tools and resources for agriculture and food industry.
- Provide comprehensive support and training to agricultural organizations in identifying and assessing risks within an organization.
- Provide funding support to Manitoba 4-H Council to build leadership, organization development skills and agricultural industry knowledge in rural youth. Provide leadership and technical assistance for 4-H resource development.
- Support leadership programming to rural women through the Manitoba Women’s

Institute.

- Deliver the Century Farm and Heritage Farm programs to recognize continuous history of family farm operations.
- Administer The Agricultural Societies Act, providing support in the transition to the Manitoba Association of Agricultural Societies (MAAS) to manage and administer grant funding for infrastructure and educational activities to support Ag Societies to increase public awareness of agriculture.
- Partner with post-secondary educational institutions to build capacity and knowledge in the agriculture industry.
- Conduct organization assessments and provide technical advice to applicants of Industry Organization Programming through CAP-Ag Action Manitoba.
- Increase awareness of the impact of the agriculture and food industry and career/opportunities.
- Continue to lead the department website advancement to increase client experience and usage, including the use of online videos and web live chat.
- Enhancement of department Twitter channel for one-to-many extension of departmental programs, services and tools/resources.
- Create on-line calculators, videos and interactive tools for the departmental website.
- Provide first point of contact for clients for departmental programming.
- Provide awareness and information (general and specific) to primary agriculture clients at industry events.

Actual Results:

- Developed three new decision tools and maintained 115 resources.
- Engaged with 20 establishing farmers on business management capacity through the CAP-Ag Action Manitoba program.
- Increased leadership and business capacity of establishing farmers through 337 interactions at the UofM, Manitoba Farm Women's Conference and the 4-H program.
- Facilitated eight interactions with young farmer organizations including KAP Young Farmers Committee & the Outstanding Young Farmers of Manitoba.
- Completed 52 interactions on financial analysis and recommendations in support of mediation files under The Family Farm Protection Act.
- Supported protein, livestock, potato and Crown lands modernization departmental strategies through web page development and direct client survey.
- Developed an "Establishing farmer" discussion document for further industry consultations.
- Updated tools and resources provided to support WLPI and manage market risk.

- Completed 10 strategic planning/facilitated/industry consultation sessions, with 37 web-based resources developed, and 99 organizations impacted.
- Engaged seven new organizations reaching 28 individuals to assess organizational risks.
- Supported leadership and related skills of 1,800 youth members and 625 adult volunteers. Increased capacity of Manitoba 4-H Council to manage delivery of the 4-H program through mentorship and liaison activities with the board of directors.
- Engaged 330 women in leadership and rural advocacy through funding Manitoba Women's Institute activities.
- Recognized 36 Century Farms (100 years) and nine Heritage Farms (125 years). Launched the Legacy Farm recognition category (150 years) to celebrate Manitoba 150.
- Continued to deliver Agricultural Society grant programming.
- Built the leadership capacity of 50 establishing farmers in post secondary institutions through two presentations.
- Provided organizational assessments and technical advice to nine applicants within the CAP-Ag Action Manitoba Organization Development activity stream. Managed 45 applicants within four activity streams of Industry Organization funding.
- Developed a program concept to raise awareness of the agriculture and food industry, impact and career opportunities for implementation in 2020-21.
- Modernized three interactive components on Calf Price Slide, Crop Reseed Decision Tool, and Grain Drying Cost Calculator for clients to access using smart phones.
- Enhanced accessibility for mobile device users by developing 12 additional online tools and three videos.
- Delivered client service to 18,559 client contacts.
- Distributed general and specific agronomic/economic/organizational information to clients through 17 industry events and tradeshow, reaching more than 37,000 clients.

5 (a) Industry Advancement

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20	2019/20		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,823	46.00	3,611	(788)	1
(2) Other Expenditures	714	-	1,129	(415)	2
(3) Grant Assistance	664	-	671	(7)	
Total Sub-Appropriation	4,201	46.00	5,411	(1,210)	

1. The variance is primarily due to vacancies and voluntary reduced workweek savings.
2. The variance is primarily due to expenditure management measures, lower costs due to vacancies, and delays in proceeding with planned projects.

PRIMARY AGRICULTURE BRANCH – 5B

Mandate

Advance the competitive position of Manitoba's primary agriculture production industry in the domestic and global marketplace in a manner that is sustainable and adaptable to evolving public, climatic, resource and economic conditions.

Activities:

- Provide plant disease diagnostic services and pest monitoring with timely analysis and information to industry on risks and recommended actions.
- Work with MASC on risk management approaches to support organic industry growth.
- Evaluate and promote cost-effective on-farm methods of mitigating the risk of bovine Tuberculosis (bTB) in the Riding Mountain Eradication Area.
- Work with the Livestock Predation Protection Working Group to develop targeted approaches to reduce livestock losses due to wildlife interactions.
- Initiate consultation on a crop and livestock climate change adaptation and mitigation approach with intra-departmental, industry and academic input.
- Assist implementation of industry assurance programs for animal health and welfare, food safety, emergency preparedness and environmental sustainability
- Consult with livestock and crop stakeholders regarding The Manitoba Protein Advantage Strategy.
- Support beef industry research, innovation and knowledge transfer through CAP-Ag Action Manitoba investment in Manitoba Beef and Forage Initiatives (MBFI).
- Work with the turkey industry in Manitoba to develop a growth strategy.
- Support direct, collaborative and value-added marketing opportunities for livestock production through CAP-Ag Action Manitoba.
- Develop web resources to promote the province's capacity and opportunities for animal and plant protein production and extraction.
- Facilitate development of animal and plant industry strategic plans to support growth and protein industry development.
- Develop and deliver policies and initiatives that increase the productivity and utilization of private and public grazing and forage acres for livestock protein growth.
- Develop tools, resources, and technical expertise to assist the approval and construction of new and expanded livestock operations.
- Develop and deliver extension programs, training and web resources relevant to crop and livestock industry, producers and agronomists.
- Collaboration of CDC to conduct trials to support crop industry development, risk management and value-added processing (e.g., plant source protein, processing,

new crops/varieties, sustainability, climate resilience), emphasizing varieties and production system characteristics.

- Monitor pesticide residue levels in water in conjunction with Manitoba Sustainable Development.
- Develop and deliver CAP-Ag Action Manitoba industry and strategic initiatives that advance productivity, sustainability, profitability and innovation, and support processing opportunities.
- Promote 4R's (right source, right rate, right time, right place) of crop and pasture fertility through extension and demonstration.
- Support a large animal veterinary presence through Veterinary Services Districts (VSD) program and veterinary student scholarships.
- Support surveillance, emergency preparedness and outbreak management for bee, crop and livestock diseases at the farm, provincial and national level.
- Provide licensing and services to support the commercial trade of livestock, pesticide application and sales licenses.
- Enhance web based client services for farmers/industry.
- Work with CDCs to increase online sharing of trial results.
- Develop new approaches for livestock producers to access expertise in balancing rations and formulating feeding strategies.

Actual Results:

- Produced in-season weekly reports including 28 Crop Reports, 13 Crop Pest Update reports, 30 Fusarium Head Blight Risk maps, 22 Potato Pest Risk reports. The Crop Diagnostic Lab processed 1,122 test results from 520 physical samples submitted.
- Updated the Organic Cost of Production Guide. Supported the learning of 120 participants through a workshop held to coach organic and conventional farmers on getting the most out of every acre. Hosted an organic conference to share pest management and production risks with 300 attendees. Provided support to the organic industry through the Manitoba Organic Alliance. Hosted two organic producer consultation meetings to gauge the level of support for an organic checkoff.
- Promoted enhanced surveillance to cattle and bison in the Riding Mountain Eradication Area (RMEA) to demonstrate freedom from bTB. An additional 18 producers were provided an incentive to link their farm's Premises Identification location in the RMEA to the national animal movement database. Producer participation in enhanced surveillance has increased 55 per cent since the grant was introduced in 2017.
- Announced a three year pilot project to reduce wildlife predation, with implementation beginning in 2020-21. Partners include MBP, Manitoba Sheep Association (MSA) and Manitoba Trappers Association.

- Analysed crop performance and yield conducted through the Manitoba Crop Variety Evaluation Trials (MCVET) including a larger dataset comparison from MASC. Established sub-committees on the departmental Climate Change Working Group (CCWG) to improve productivity and carbon sequestration on ACL, encourage farm innovation and greenhouse gas (GHG) reduction, and support agriculture's contribution to ecological goods and services.
- Trained and audited poultry agents conducting breeder flock inspections and disease surveillance activities for the Poultry Export Enhancement program that supports market opportunities for chicks, poultry and hatching eggs in several US states. Administered the Turkey Growers Export Enhancement Program that assists Manitoba turkey producers to ship live turkeys for processing in Minnesota.
- Worked closely with Dairy Farmers of Manitoba (DFM) to troubleshoot milk quality, taste and antibiotic issues. Assisted producers in financial penalty due to milk quality infractions by providing technical advice. Supported MBP to deliver the Verified Beef Production Plus (VBP+) on-farm assurance program. Partnered with the UofM to conduct webinars on antibiotic alternatives in livestock and participated on the university poultry stakeholder committee investigating, a new laying hen research and public engagement facility.
- Conducted in-person meetings with 19 livestock and forage associations and 36 animal protein processing and production businesses (95 participants) to support development of the Manitoba Protein Advantage Strategy. Engaged with four educational institutions to assist aligning 14 industry associations on research and educational priorities with the UofM.
- Conducted two demonstration and applied research projects at Manitoba Beef and Forage Initiatives (MBFI), including Marginal Pasture through Planned Rotational compared to High Density Grazing, and Soil Carbon Monitoring to Detect Changes due to Grazing Management. Worked with BU to look at the effect of grazing and forage systems on soil health, carbon sequestration and farm profitability. MBFI is one of the six co-operator sites in the province for this university study. Provided MBFI with research and operational funding under CAP-Ag Action Manitoba.
- Supported MBP for the delivery of the Verified Beef Plus (VBP+) with seven new participants. As of March 31, 2020, 309 Manitoba producers were enrolled in VBP+ and these operations represent 10 per cent of the provincial herd. Supported the Fresh Farm Food Hub for the creation of a distribution network for small and local farmers. Participated in DFM's new entrant program, which approved two young farmers to assess dairy quote.
- Created protein web pages on production, processing and markets for beef, bison, chicken, dairy, eggs, lamb, pork and turkey.
- Developed a beef options paper and a turkey strategy to identify challenges and opportunities in advancing the respective sectors.
- Initiated a sheep value chain assessment with the MSA for a federal processing

plant and expanded lamb feedlot, and distribution capacity in Manitoba. The total marketing of sheep and lambs increased to 66,500 head in 2019, an increase of 6 per cent over the previous year. The total head of cattle decreased from 982,000 head at the beginning to 954,000 head at the end of 2019 due to dry conditions and decreased forage yields.

- Participated in three open houses for local residents on proposed hog operations supporting the approval of six applications creating 7,950 new sow spaces, 24,700 new nursery spaces, and 6,168 new finisher spaces. The approved operations have the capacity to produce 18,504 market hogs annually. Worked with Ridgeland Aqua Farms to commission its \$2.5 million fish expansion, to become the largest Arctic Char producer in North America, obtaining \$360,000 in federal funding for innovative, clean technology at the expand fish operation.
- Organized and delivered extension sessions and events on crop production, pest management and soil fertility/plant health throughout the year attracting over 6,000 participants. Examples include Crop Diagnostic School (494 participants), Horticulture School (100 participants) and Manitoba Agronomist Conference (450 attendees); low stress sheep handling clinic; MSA's six regional meetings; advanced aquaculture workshop (40 participants) in conjunction with the University of Prince Edward Island and the Canadian Aquaculture Institute; Manitoba Swine Seminar (583 participants); ten feed shortfall meetings covering nutrition, economic, and marketing options (over 300 livestock producers); Beef and Forage Week at five locations across Manitoba (250 livestock producers); provincial hay and silage day and a provincial pasture tour; Austin Beef Days, and the Benchland beef seminar.
- Supported Manitoba CDCs with funding and in-kind staff contribution to conduct 149 projects with 7,250 trials. Some of the areas of focus were hemp, oat and pea trials to support economic development opportunities; intercropping and regenerative agriculture to support protein sustainability; and disease reduction/management research to support growing protein extraction industry.
- Consulted with Pesticide Management Regulatory Agency (PMRA) on pesticide re-evaluation. Alternative chemistries investigated to perform same function as phased-out products. Attended six meetings with PMRA to support decisions on pesticide re-evaluation and user support.
- Supported risk management and profitability of farms through production of Seed Manitoba produced with the Manitoba Seed Growers Association and The Manitoba Co-Operator, based on trials collected throughout Manitoba. Delivered information at Manitoba Agronomist Conference, Ag Days and Crop Diagnostic School to producers, agronomists and industry.
- Provided information on the 4Rs for Fertilizer use and stewardship and communicated through the Soil Fertility Refresher courses in Carman, Brandon and Roblin (79 participants).
- Supported large animal rural veterinary clinics in rural Manitoba by providing \$479,000 to 27 Veterinary Services Districts (VSD). Reduced red tape for VSDs

through changes to reporting requirements. Supported veterinary student education and training through six Veterinary Sciences Scholarships and 21 students to gain rural veterinary clinic experience through the Veterinary STEP program.

- Performed in-field disease surveillance in 95 soybean, 180 canola, 165 spring wheat fields; weekly insect monitoring in 94 fields for Bertha armyworm (June-July), 90 fields for Diamondback moth (May-June) and in 106 locations (August) to monitor grasshoppers. Shared information with industry and producers through the internet and social media. Supported the department's ASF internal working group in development of an emergency response plan. Investigated outbreaks of Infectious Laryngotracheitis (ILT) and Fowl Cholera in small poultry flocks.
- Issued licenses to 1,560 pesticide applicators, 356 pesticide dealers and 54 manure applicators, 66 livestock dealers and 81 dealers' agents licenses. Resolved one livestock license complaint. Maintained the brand registry (2,300 unique brands). Participated in Regulatory Implementation Committee (RIC), Industry-Government Advisory Committee (IGAC) and Traceability Task Team (TTT) meetings. Co-ordinated and led national discussions on the Province-Territory Animal Traceability Multilateral-Information Sharing Agreement (MLISA).
- Provided timely crop information (e.g. Crop Report, Seasonal Reports and other information) to stakeholders through the department's website. Increased views on average by 21 per cent in the 2019-2020 fiscal year over the previous year. Created videos and posted to department YouTube channel. Created 105 tweets on crop and livestock issues and reports.
- Transferred trial result knowledge to the industry by sharing results through the CDC website. The website reported 14,500 views of all CDC annual reports, individual trial results and extension materials such as presentations and videos. Tweeted various agronomic & research trial messages 60 times, reaching 29,000 people on Twitter.
- Developed and delivered a train-the-trainer Beef Nutrition Seminar which was attended by veterinarians, veterinary technicians, and feed representatives. The Manitoba Veterinary Medical Association and Manitoba Veterinary Technologists Association promoted the event and recognized participants for eligibility as a continuing education credit.

5 (b) Primary Agriculture

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl.
	2019/20	2019/20		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	5,933	66.00	5,991	(58)	
(2) Other Expenditures	865	-	1,022	(157)	
(3) Grant Assistance	903	-	965	(62)	
Total Sub-Appropriation	7,701	66.00	7,978	(277)	

FOOD AND AGRIPRODUCT PROCESSING – 5C

Mandate

Strengthen the competitive position of Manitoba's agrifood and agriproducts processing industries in the domestic and global marketplace and to advance the growth of Manitoba's agrifood and agriproduct industry.

Activities:

- Develop an agriculture and food labour strategy in partnership with industry stakeholders, Manitoba Education and Training, and Growth, Enterprise and Trade.
- Facilitate solutions in the agriculture and food industry to access labour and skill needs.
- Work with the organic industry to identify opportunities for production and processing development. Support planning for the 2020 Prairie Organic Conference in Manitoba.
- Attract food and agriproduct processing investment through collaboration with targeted businesses, municipal partners, economic development agencies and government departments.
- Support business growth through:
 - Capital and market development contributions from CAP-Ag Action Manitoba programming;
 - Building the capacity of businesses to identify and develop new domestic and export markets; and,
 - Development of resources and tools to manage business risk.
- Enhance entrepreneur capacity through the various stages of product and business development, enabling growth by using direct marketing and/or Business to Business techniques to enter retail and export markets.
- Support growth of micro and small food processors through financial assistance to permitted community commercial kitchens to purchase commercial food processing equipment.
- Increase industry awareness of new opportunities that can be derived from their co-products and of waste reduction technologies/processes.
- Work with industry stakeholders to host an event to promote the development of the bioproducts industry and showcase business/product opportunities.
- Build the market development capacity of small and medium enterprises through trade show participation.
- Support the Manitoba Protein Advantage Strategy to attract investment and enable the growth of animal and plant protein processing industries through:
 - Industry consultations on the strategy framework;

- Protein Summit to coordinate industry and government efforts;
 - Protein website to share information, intelligence and tools for protein Development; and,
 - Exploring protein innovation collaboration (e.g., protein chair with the University of Manitoba)
- Develop a strategy to seize economic benefits from cannabis edibles and cannabinoids from hemp and cannabis.
 - Review and make recommendations to reduce red tape and unnecessary regulation for food industry development.
 - Support the growth of the organic product industry by analyzing the organic ingredient gap and communicating opportunities and markets to producers and processors; building online organic business resources; and supporting training opportunities for organic producers and processors.
 - Develop and update resources to increase growth in local food and ingredient industries.
 - Develop online versions of workshops.
 - Expand technical web-based resources to support a one-to-many delivery approach.
 - Implement a project management approach to planning and prioritization.
 - Review branch operations for opportunities to reduce waste and increase efficiencies.

Actual Results:

- Completed a labour market profile of the agriculture and food industry to share with stakeholders. Continued collaboration with strategic partners to develop a Pathway to Success model for a staged-growth approach to business development. Collaborated with Team Manitoba strategic economic development to align services, tools and resources to advance growth in the food and agriproduct sector.
- Connected 25 employers with resources to hire and recruit staff, including working with partner agencies. Introduced 100 youth to careers related to agriculture and food processing. Supported 50 employers of the Agricultural Temporary Foreign Worker Programs, including collaborating on protocols of COVID-19 for incoming workers.
- Created on-line and print resources for organic businesses including a 2019 Cost of Production of Organic Grains, and a comprehensive report on Organic Food Processing in Canada: State of the Industry Report 2018.
- Attracted over \$205 million in new agrifood and product processing investment to Manitoba, resulting in 274 new direct jobs.
- Provided \$5.5 million in capital asset and equipment support and \$222,000 in market support, resulting in the expansion of over 25 businesses and the addition

of over 150 new Full Time Equivalent (FTE) jobs. Developed eight resources to assist business development and manage business risk.

- Increased the business and market development capacity to over 250 Manitoba food processors through workshops, training events and client consultations.
- Five commercial community kitchens collectively received \$77,000 in funding through the Commercial Community Kitchen-Food Enterprise Program to purchase new equipment to support small/local food entrepreneurs.
- Researched four value added opportunities for food processing co-products.
- Provided 15 bioproduct businesses and entrepreneurs with business development assistance. Supported four bioproduct companies with \$254,000 to support capital expansion and marketing activities, resulting in the creation of 24 new jobs.
- Assisted 12 businesses to increase markets and sales outside of Manitoba through nine trade shows, resulting in estimated new sales of \$2.7 million.
- Released The Manitoba Protein Advantage Strategy at the Manitoba Protein Summit on September 19, 2019 (210 attendees). Developed The Manitoba Protein Consortium to provide leadership to lead implementation of the strategy creating. Created a protein website site to highlight Manitoba's capacity for protein support, production and research. Facilitated development of leadership team in partnership with the UofM to communicate ongoing protein research to stakeholders.
- Developed a Hemp and Cannabis Edibles Strategy. Provided assistance to ten cannabis and hemp processing companies, resulting in \$46 million in new investment and 30 jobs. Hosted a value added agriculture event profiling market opportunities in the hemp and CBD agriproduct sector with over 50 participants.
- Hosted three training events for organic crop producers, including a workshop on hemp grain and CBD production at Ag Days (50 attendees), a workshop on cover cropping (125 attendees) and the Prairie Organic Conference (300 attendees). Organic markets contracted in 2019. Acreage was down by 2 per cent relative to 2018, but the number of organic operations rose by 5 per cent. Organic farm numbers increased by 2 per cent while the number of processors certified as organic rose by 9 per cent. Hosted two consultations for organic producers on a potential regulated checkoff for organic grain production. A producer referendum was held in the spring 2020. Producers voted in favour of the ballot question.
- Developed an online Food Ingredient & Product Directory, Bioproduct Directory, and Warehouse and Distribution Directory to assist in promoting Manitoba companies.
- Conducted a review of branch workshops and training and moved to an on demand format. A playlist was created on the department's YouTube Channel to host these webcasts, with five webcasts on the Food Talk YouTube playlist.
- Downloads of resources increased 112 per cent from 8,855 (2018/19) to 18,778 in 2019/20. Created six new resources, updated four existing resources, and added four links to partner resources. Initiated a website content review plan to

- keep website content up to date.
- Supported the red tape reduction by streamlining the CAP-Ag Action Manitoba application form for the capital assets and equipment, and market development activity areas.
- Project management methodologies were applied to project selections and considered in the implementation of the Balanced Scorecard. Developed a staff branch portal to communicate, aggregate and align strategy information to facilitate coordination of industry events.

5 (c) Food and Agri-Product Processing

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20	2019/20		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	1,954	24.00	2,364	(410)	
(2) Other Expenditures	252	-	454	(202)	1
(3) Grant Assistance	77	-	225	(148)	2
Total Sub-Appropriation	2,283	24.00	3,043	(760)	

1. The variance is primarily due to expenditure management measures and lower costs due to vacancies.
2. The variance is primarily due to delays in the development of the Agri-food Processor Accelerator program.

COSTS RELATED TO CAPITAL ASSETS - 6

AMORTIZATION AND INTEREST EXPENSE

Mandate

Comply with Public Sector Accounting Board (PSAB) standards and government policies and guidelines respecting the treatment of tangible capital assets (TCAs). Amortization and interest is incurred on capital assets under the direct management of and employed in the delivery of programming by the department.

Activities:

- Amortize tangible capital assets (TCA). TCAs are non-financial physical assets acquired, constructed or developed for the use in the production or supply of goods or services. TCAs have a useful life beyond an accounting period, are not intended for sale and are for use on a continuing basis.
- Provide for interest costs on borrowings related to investments in tangible capital assets.

Actual Results:

- Recorded amortization costs consistent with government and PSAB guidelines.
- Accounted for charges for amortization consistent with the period of service and useful life of the asset.
- Reflected interest costs accurately in all financial statements and consistent with the period of service and useful life of the department's tangible capital assets.

6 (a) Costs Related to Capital Assets - General Assets

Expenditures by Sub-Appropriation	Actual	Estimate	Variance	Expl. No.
	2019/20 \$(000s)	2019/20 FTEs \$(000s)	Over/(Under) \$(000s)	
(1) Amortization Expense	629	-	809	(180)
(2) Interest Expense	231	-	284	(53)
Total Appropriation	860	-	1,093	(233)

PART B - CAPITAL INVESTMENT

PART B – CAPITAL INVESTMENT - 7

Mandate

Provide for the acquisition of tangible capital assets needed within the department.

Activities:

- Acquire new Veterinary Diagnostic Services laboratory equipment and/or replace existing, aging equipment required to perform diagnostic testing of food and companion animals.
- Support veterinary practitioners in Manitoba with diagnostic services and provide surveillance to protect the health of the public from zoonotic diseases. Veterinary Diagnostic Services monitors and diagnoses diseases of economic, public health and international trade significance.

Actual Results:

- Invested \$383,000 in new laboratory equipment.
- Ensured capital asset purchases of VDS continued to provide non-interrupted service delivery to provincial animal welfare investigations, animal disease response, and surveillance activities. Required animal health testing was available to livestock and companion animal veterinary clients.

Part B - Capital Investment

Expenditures by Sub-Appropriation	Actual 2019/20 \$(000s)	Estimate 2019/20 FTEs	Estimate 2019/20 \$(000s)	Variance Over/(Under) \$(000s)	Expl. No.
(a) General Assets	383	-	500	(117)	
TOTAL	383	-	500	(117)	

WATER STEWARDSHIP AND BIODIVERSITY – 8

DIVISIONAL ADMINISTRATION – 8A

Division Mandate

Provide for the executive management function of the Water Stewardship and Biodiversity Division, including administration and oversight of the financial management of the various branches, and provide divisional support through the Fish and Wildlife Enhancement Fund (FWEF) and Agencies, Boards, and Commissions (ABC) Secretariat.

Activities:

- Implement policies, procedures and program activities in the branches of the division in a manner consistent with the department's mandate, vision and mission statement. Promote collaboration across branches and departments and the inclusion of diverse perspectives, knowledge, and ideas to come together to develop innovative solutions.
- Ensure coordination and communication among senior executive, partner departments, other organizations and stakeholders to ensure they are apprised of all relevant issues and information respecting the management and protection of Manitoba's biodiverse land, water, wildlife, fisheries and forest natural resources, and interconnected ecosystems.
- Implement policies, procedures, and activities for up to 19 related to a variety of government and non-government boards, councils, committees, task forces, and working groups, including, but not limited to the Fish and Wildlife Enhancement Fund Committee, the Canada-Manitoba Lake Winnipeg Committee, the Manitoba Water Council, the Conservation Agreements Board, and the Beverly and Qamanirjuaq Caribou Management Board.

Actual Results:

- All significant issues respecting the division's management of provincial land, water, wildlife, fisheries and forest resources and interconnected ecosystems are brought to the attention of the Deputy Minister and Minister.
- The implementation of all program activities are coordinated in respect to the mandate and with other organizations.
- The implementation of all board governance activities are within the mandate and the legislation that governs the boards, councils and committees, including board membership appointments, financial reporting, and governance support.

8 (a) Divisional Administration

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20 \$(000s)	2019/20 FTEs	2019/20 \$(000s)	Over/(Under) \$(000s)	
(1) Salaries and Employee Benefits	543	9.00	589	(46)	
(2) Other Expenditures	260	-	239	21	
(3) Grant Assistance	7,500	-	7,500	-	
Total Sub-Appropriation	8,303	9.00	8,328	(25)	

THE FISH AND WILDLIFE ENHANCEMENT FUND

Mandate

The Fish and Wildlife Enhancement Fund (FWEF) is established under the authority of The Fish and Wildlife Enhancement Fund Act, to support fish and wildlife initiatives, including projects, programs, and studies designed to protect and increase fish and wildlife habitats and populations in Manitoba, and government fish hatcheries. FWEF derives its revenue from imposts on angling, hunting and trapping licences.

Activities:

- Provides overall management and administrative support to the each of the funding programs.
- Review proposals and make funding recommendations on fish enhancement initiatives, and wildlife enhancement initiatives through two subcommittees comprised of representatives from angling, hunting and trapping organizations.

Actual Results:

- Reviewed 39 fish enhancement applications, and approved 18 projects totalling \$606,285 including:

Fish Enhancement Subcommittee (FES) Review	Number of Applications Received	Total Requested	Number of Applications Approved	Total Approved
April 15, 2019	26	\$1,200	10	\$365,434
October 22, 2019	13	\$473,420	8	\$241,851

- Fisheries Biological Support for \$36,000 to enhance fish population dynamics collecting biological data to manage recreational and commercial fisheries.
- Oak Lake Basin Invasive Aquatic Species Awareness Signage and Protocol to establish permanent aquatic invasive species awareness signs on Oak Lake.
- Summer Student Local Initiatives for \$7,060 to hire a student for walleye fry and trout stocking activities, maintain local trout ponds and boat launches, fish population and habitat projects, youth camp activities, and the Dauphin Lake index assessment project.
- Small Waterbody Fisheries Assessment for Angling Opportunities for \$39,500 to hire student to assess small waterbodies for habitat and seasonal suitability near Winnipeg, Brandon, Portage la Prairie and Selkirk to determine fish species support.
- Sauger Conservation Biology for \$69,391 to assess Sauger on large lakes and the Red River to develop Sauger recovery plan.
- Determining Annual Channel Catfish Movements in the Red River–Lake Winnipeg System for \$131,471 to complete analysis of channel catfish movement to determine how to best manage resources.

- Community-based Lake and Stream Stewardship Program in the RMBR for \$3,623 for community-based water quality-monitoring project to protect fish habitat within the Riding Mountain Biosphere Reserve.
- Lake of the Prairies Walleye Movement Study for \$27,623 to conduct a study walleye spawning behaviours on Lake of the Prairies and its tributaries.
- Condition Survey of Pool and Riffles Constructed in Dauphin Lake Tributaries during 1990's for \$18,300 to conduct an evaluation of pool and riffle structures along the tributaries of Dauphin Lake.
- Saskatchewan River Creel Survey for \$32,180 to establish a sustainable fishery management plan with local First Nations and Grand Rapids.
- Envirothon (Environmental Club) to purchase aquarium, thermometers, and water testing kit as educational resources.
- Burns-McCoy Dam Walleye Rearing and Transfer of Fingerlings for \$21,995 to enhance walleye angling opportunities by relocating walleye from the Burns-McCoy reservoir.
- Summer Student Local Initiatives – \$7,060 hire a student for walleye fry and trout stocking activities, maintain local trout ponds and boat launches, fish population and habitat projects, youth camp activities, and the Dauphin Lake index assessment project.
- Annual Dauphin Lake Index Netting Fish Population Assessment for \$1,466 to evaluate sport fisheries on the North Eastern portions of Dauphin Lake.
- 4th Youth Fly Fishing Educational Camp in the Parkland Region/Rosburn for \$9,681 to host 24 youth at the Ketelsen Ranch for the 4th annual fly fishing camp.
- Recreational Fisheries Enhancement and Youth Angling Opportunities in the Northern Parkland for \$162,790 to provide diverse angling opportunities, increase local education and awareness and enhance local fisheries for recreational angling.
- Small Lakes Development Program for Trout (SMDPT) for \$27,700 for aeration system to prevent fish winterkill in stocked trout fishery at Lake 400 Sandy Lake Manitoba.
- New Aeration to Support the Unique Fishery at the Mary Jane Reservoir for \$10,000 to purchase micro-bubble aeration system for the Mary Jane Reservoir to supply reliable and consistent oxygen to overwinter fish stocks.
- Held the annual Fisheries Enhancement Stamp Artwork Competition in September 2019. The winning artwork entitled "Lake-Bottom Drummer", painted by Tom Jones, was unveiled at the Manitoba Legislative Building and became the stamp image on the 2020 recreational angling licence.

WATER SCIENCE AND WATERSHED MANAGEMENT – 8B

Mandate

Ensure protection and sustainable management of Manitoba's surface and groundwater resources, assure the protection of people, aquatic ecosystems, and minimize impacts from droughts. Develop and implement planning initiatives and programs to manage Manitoba's water and environment through a coordinated, watershed-based approach built upon effective relations with other governments, non-government organizations, producer organizations, and Indigenous communities and groups to support a coordinated approach to watershed management. Provide leadership and coordinate input into transboundary water management issues.

Activities:

- Provide leadership and technical support to the development and implementation of nutrient management strategies, innovative water management and protection measures, and alternative land use services programs.
- Operate the provincial groundwater monitoring network, evaluate and monitor ambient groundwater quality and water levels, and also maintain and manage groundwater data including water well drillers' reports, groundwater levels, aquifer characteristics, and groundwater chemistry data.
- Investigate issues and provide groundwater and water well educational information to private water well owners for maintaining their well, sampling groundwater, understanding water quality and sealing unused wells to protect drinking water quality and human health.
- Carry out specialized hydrologic investigations for sustainable long-term planning; designing discharges; guiding water use and allocation; sustainable water control works licensing decisions; and assessment of the impact of water development proposals.
- Implement the Manitoba Drought Management Strategy with various partners, including assessing drought preparedness, maintaining the Manitoba Drought Monitor Website, and providing routine updates on water availability and drought conditions.
- Provide technical and scientific support toward and coordinate information on inter-jurisdictional, interprovincial, and international water issues between jurisdictions including participation on various committees, such as through the International Joint Commission, the Prairie Provinces Water Board, and multi-jurisdictional task forces.
- Operate a water quality monitoring network on major recreational beaches across Manitoba including Lake Winnipeg and provide timely access to beach water quality data and information to the general public on the department's website.
- Operate and maintain the provincial long-term surface water quality monitoring network on streams and lakes throughout Manitoba, and monitor and evaluate the health of Lake Winnipeg through research and monitoring partnerships and through periodic State of the Lake and Indicator reporting on the physical,

- chemical, and biological data collected as a part of the provincial Lake Winnipeg monitoring program.
- Undertake issue-based, site-specific water quality studies to assess and identify point and non-point source impacts arising from agriculture, mining, forestry, municipal discharges and others, and respond to immediate water quality issues and emergencies in a timely manner to assess the impact of water quality incidents on aquatic life and other water uses.
- Develop and recommend water quality standards, objectives, and guidelines to protect water quality in Manitoba including the development and refinement of nutrient objectives for the Lake Winnipeg basin.
- Lead the development and implementation of nutrient management initiatives including the administration of the Nutrient Management Regulation under The Water Protection Act.
- Provide leadership, training and coordination of integrated watershed-based land, water, and resource planning and implementation.
- Manage and administer the Conservation Districts Program within the guidelines established through The Conservation Districts Act and regulations.

Actual Results:

- Represented Manitoba on various transboundary water management organisations' boards and technical sub-committees including four International Joint Commission boards, the Prairie Provinces Water Board, Red River Basin Commission, Assiniboine River Basin initiative, and others. Collaborated with upstream jurisdictions to develop and implement nutrient management strategies to reduce nutrient loading to the one million square kilometer Lake Winnipeg watershed. Implemented the Canada-Manitoba Memorandum of Understanding respecting Lake Winnipeg and its basin to protect water quality and ecological health of Lake Winnipeg and its basin. Federal and provincial counterparts and partners continued work on the State of Lake Winnipeg report, and the Lake Winnipeg Indicator series. Implemented the Saskatchewan-Manitoba Memorandum of Understanding Respecting Water Management through the Saskatchewan-Manitoba Drainage and Watershed Management Planning Committee. Organized regular presentations and workshops between staff in Manitoba and Saskatchewan.
- Licensed 31 companies under The Ground Water and Water Well Act to drill water wells, closed loop systems, environmental and geotechnical wells in Manitoba. Approximately 1,060 newly drilled wells and 395 well sealing reports were added to the GWDrill database. Over 3,000 additional well reports were reviewed, updated or revised. Manitoba Well Aware education material was distributed to well owners, water well drillers and the public on expected groundwater conditions and construction. Provided expertise including collaborating with Environmental Compliance and Enforcement Branch, ensuring permitted wells were drilled under the Rockwood Sensitive Area Regulation. Conducted investigations following flowing wells complaints.

- Continued implementing action items in the Manitoba Drought Management Strategy. Alleviated downstream impacts to water users, residents and the environment during hydrological drought (or low flow) with participation from government, other departments and stakeholders. Led and coordinated the activities of the Manitoba Drought Assessment Committee and the Interdepartmental Working Group for Water Supply Management.
- Continued implementing water quality standards with wastewater treatment facility owners for nutrients in wastewater under the Manitoba Water Quality Standards, Objectives and Guidelines Regulation. Completed an annual audit of total phosphorus concentrations in wastewater discharge from 103 facilities across Manitoba. Worked with golf courses, municipalities and the agricultural sector to implement the Nutrient Management Regulation under The Water Protection Act, and reviewed 79 nutrient management plans. Provided nutrient management zone information for 33 onsite wastewater management systems, reviewed 16 additional site-specific soil survey reports, and one detailed survey requesting re-zoning of locations mapped as nutrient management zone N4. Manitoba's water quality standards, objectives, and guidelines were used as input to Environment Act licence condition, and used to assess water quality with tools like the Water Quality Index.
- Responded to over 100 water-related data and information requests from the public, consultants, industry, academia, non-governmental organizations, watershed districts, stewardship groups, students and educators, and other provincial and federal agencies. Received requests for 48 large water requests for level datasets of 460 monitoring wells and provided over various areas and time-periods. Maintained databases of historical streamflow and water level, groundwater, water well reports, and water quality information. Continued monitoring of physical, chemical and biological conditions on Lake Winnipeg from the MV Namao with the Lake Winnipeg Research Consortium. Completed three scientific cruises on Lake Winnipeg in 2019.
- Collaborated with Environment and Climate Change Canada on winter water quality monitoring. Assessed water chemistry and benthic invertebrates from streams, rivers, and lakes on status and health of waterbodies; including 65 long term water quality stations on 51 waterbodies. Managed a network consisting of approximately 850 groundwater monitoring sites. 588 sites were equipped with daily water level recorders, sampling 45 select monitoring wells. Provided high quality laboratory analytical services to the department, Conservation and Climate, and MHSAL, and ensured continued collaboration with contracted laboratories. Published the first annual Lake Winnipeg: Nutrient and Loads Status Report summarizing nutrient conditions in Lake Winnipeg and nutrients for tributary rivers to 2016. Maintained and enhanced the Manitoba Drought Monitor website providing timely drought information to residents, stakeholders and government including precipitation, surface and groundwater conditions. Water Availability and Drought Conditions reports were produced monthly (April – October) through analysis of drought indicators, including a summary of agricultural, wildland fire and community water supply impacts. Completed a surface water retention strategy for the Boyne-Morris Watershed, retention sites

- analyzed, and prioritized for implementation. Provided technical, professional assistance, GIS analysis, and information to watershed districts, including 21 engineering design services, engineering advice for 40 requests to water control licenses, and 13 site assessments under The Planning Act.
- Monitored recreational water quality at beaches providing timely results to the public using the department website, advisory signs, and weekly tweets. Monitored bathing water at approximately 57 Manitoba beaches for densities of the fecal indicator bacteria, *Escherichia coli*. Monitored algal blooms for the number of blue green algae cells and the concentration of algal toxins. Actioned incidents of swimmer's itch with coordination of beach postings.
- Proclaimed The Watershed Districts Act and registered a new Watershed Districts Regulation, effective January 1, 2020. Under the Act 18 conservation districts were transitioned to 14 new districts based on watershed boundaries. Supported the development of the amended Water Rights Act including the development of a new regulation regarding no-net-loss wetland benefits.
- Formally established watershed districts as water planning authorities in a new Watershed Management Regulation under The Water Protection Act. Continued work developing four integrated watershed plans considering land and water management, conservation, drinking water quality, and aquatic ecosystem protection.
- Developed GROW, a made-in-Manitoba approach based on the Alternative Land Use Services (ALUS) model to improve health, resiliency to climate, and nutrient management. Through collaboration with a cross department steering team, developed policy, program criteria and launched the first intake for GROW program proposals.
- Provided professional planning support and leadership to 18 conservation district (now 14 watershed district) including assistance with program delivery, watershed and aquifer management planning, provincial grant administration, policy development, and board governance. Prepared the 2018/19 annual report for the Conservation Districts (now Watershed Districts) Program.

8 (b) Water Science and Watershed Management

Expenditures by Sub-Appropriation	Actual	Estimate	Variance	Expl. No.	
	2019/20 \$(000s)	2019/20 FTEs \$(000s)	Over/(Under) \$(000s)		
(1) Salaries and Employee Benefits	3,247	39.00	3,375	(128)	
(2) Other Expenditures	919	-	909	10	
(3) Grant Assistance	550	-	-	550	1
Total Sub-Appropriation	4,716	39.00	4,284	432	

1. The variance is due to the Lake Winnipeg Ecological Research Capital Environmental Initiative.

WILDLIFE AND FISHERIES – 8C

Mandate

Ensure that wildlife and fisheries resources (biodiversity) are managed sustainably for the benefit of present and future generations of Manitobans. Sustainable management means ensuring biodiversity is conserved to maintain ecological, social, traditional and economic returns for all. Increase scientific, citizen-based and traditional knowledge of Manitoba's wildlife and fisheries to build support and guide decision-making, planning and management of these resources. Ensure the effective engagement of Indigenous communities to build relationships through transparency, trust and fairness. Oversee the prevention, detection, control and mitigation of aquatic and terrestrial invasive species through provincial programming as well as through national and international cooperation. Develop and integrate the implementation of management programs with other agencies to mitigate the impacts of negative human-wildlife interactions. Manage the harvesting of game animals and the trapping of furbearers to ensure sustainable and humane harvests, public safety and protection of property. Manage provincial fish stocks sustainably to maximize opportunities for all resource users through the implementation of programs that maintain, diversify and enhance the fisheries resource.

Activities:

- Administer and ensure that all wildlife and fisheries activities conform to the Wildlife Act, the Fisheries Act, the Endangered Species and Ecosystems Protection Act, the Fish and Wildlife Enhancement Fund Act, the Fishermen's Assistance and Polluter's Liability Act, the Polar Bear Protection Act, the Water Protection Act, the Environment Act and related acts, regulations, policies, and guidelines, and that all activities in relation to departmental priorities are reported consistently and accurately.
- Lead or participate in delivering department priorities related to safe and sustainable hunting and fishing, shared-management of these resources, effective and innovative surveys and monitoring.
- Develop and maintain policy and procedures regarding wildlife and fisheries science and knowledge activities, including the assessment of biodiversity, overall populations and related development of management, conservation, protection and recovery programs such as those for species at risk.
- Coordinate or participate in biological investigations of selected species and ecosystems to identify distribution, limiting factors, critical habitat, conservation status, and to implement mitigation and conservation measures as appropriate in cooperation with other agencies.
- Support on-going science and research into wildlife and fish health.
- Develop and implement aquatic invasive species control, containment and monitoring activities including enhancements to aquatic invasive species law, regulation, enforcement and public awareness.
- Carry out programs to mitigate the impacts of human-wildlife conflicts.

- Administer licence and quota allocations and pursue collaborative measures with hunters, fishers and trappers to ensure sustainable and humane harvests, public safety and protection of property.
- Operate fish hatcheries and spawn camps at White shell, Swan Creek and Clearwater, with the financial support of the Fish and Wildlife Enhancement Fund, to sustain stock walleye fry in certain bodies of water for recreational, commercial, and Indigenous fishing purposes; trout species for recreational angling; and other species for conservation and/or scientific purposes.
- Provide fishers with financial assistance for transportation costs on selected northern and remote lakes and for selected fish species.

Actual Results:

- Managed 85 Wildlife Management Areas (WMA) working with local and non-governmental on habitat management research including Delta Marsh Wildlife Management Area, the Delta Marsh Common Carp Exclusion Project, and the Lake Francis WMA Advisory Group. Worked closely with the Association of Manitoba Community Pastures, to ensure best management practices for wildlife habitat while maximizing cattle grazing potential.
- Facilitated research on the biology and ecology of wild species. Led the boreal woodland caribou recovery strategy unit range plans. This included conservation agreement with Environment and Climate Change Canada (\$475,000 over two years), in partnership with the Manitoba Habitat Heritage Cooperation. Issued 13 wildlife scientific research permits and ten Species at Risk research permits.
- Maintained the Manitoba Conservation Data Centre Biotics database on 17,327 wild plant and animal species, including 2,808 endangered or conservation concern species. Used Biotics datasets to review 106 Environment Act license documents, and 294 license/permit/lease/land sale requests. Implemented five data licensing agreements responding to 281 requests for information from rare species database. Received 36,000 observations in its species at risk database, with 34,000 of these reviewed and processed. Contribution data included Bird Studies Canada, Manitoba Herp Atlas (reptiles and amphibians), the Tall Grass Prairie Preserve, Parks Canada Agency and Fisheries and Oceans Canada.
- Delivered the Prairie Stewardship for Species at Risk in Manitoba Project, mowed 41 hectares (101 acres) of shrub encroachment in the Spy Hill Community Pasture to enhance it for native grassland species. Advanced the Mixed-grass Prairie Habitat Stewardship Project to an additional 3,431 hectares (8,480 acres) bringing the total to 207,170 hectares (511,930 acres). Collaborated with Manitoba Habitat Heritage Corporation and Environment and Climate Change Canada purchasing 60 hectares (147 acres) of native grassland through the Mixed-grass Prairie Securement Project for inclusion in the Ellice-Archie Community Pasture.
- Conducted species at risk surveys at the Manitoba Tall Grass Prairie Preserve on 54 properties, totaling 3,510 hectares (8,640 acres) and continued monitoring for seven provincially listed species, and 14 provincially rare species. Hosted the

- annual Tall Grass Prairie Day event at the Tall Grass Prairie Preserve on August 10, 2019, with 50 people attending as part of the Tall Grass Prairie Communities and Species at Risk Project. Two editions of “Prairie Ponders” were produced and distributed to local communities.
- Participated in the implementation of the new e-licensing system for Manitoba's various licences. Issued 62,109 hunting and trapping licenses (\$3.1 million), 7,006 licenses and permits to trappers (\$1.54 million in raw fur), and 4,399 allocated big game licenses (2,300 used by 229 licenced Resource Tourism Operators).
- Managed sustainability of fisheries employing over 2,000 commercial net fishers and draw anglers. Issued 2,221 commercial net fishing licenses (\$40,604), 70 Commercial Bait Fishing Licences (\$19,000), 60 commercial Live Bait Dealer Licences (\$750,000), 20 fish farm operators, 190,000 recreational angling licenses (\$3.7 million). Issued 21,000 free senior conservation licenses.
- Managed hunting activities with 305,755 Big Game hunter days and 100,699 Game Bird hunter days, at estimated average of 7.2 days per hunter. Consulted with the Manitoba Wildlife Federation, the Manitoba Lodges and Outfitters Association, and Archery Manitoba on hunting regulation changes, and collaborated with organizations (e.g., Manitoba Habitat Heritage Corporation, Mentored Hunt Partnership, Nature Conservancy Canada, Wild Turkey Relocation Program, and NatureServe Canada) to deliver wildlife related programs. Operated 25 Drop-Off Depots for big game hunters to submit biological samples.
- Collaborated with local moose hunter communities, the Canadian Wildlife Health Cooperative, the Assiniboine Park Zoo, the University of Saskatchewan (UofS), Memorial University of Newfoundland, and the Natural Sciences and Engineering Research Council of Canada on the Moose Health Initiative for the declining moose populations. Collaborated with the UofS and the UofM on distribution of parasites including the brain worm parasite (*Parelaphostrongylus tenuis*).
- Coordinated Winnipeg's Urban Angling Partnership, offering structured recreational angling opportunities to residents and visitors (Winnipeg Fish Festival - 500 participants; Fish Winnipeg Free Van Program – 450 participants; Learn to Fish Clinic – 50 groups; Youth Angling Camps – 100 participants; Keeping it Reel – 50 participants, Fall Fishing Derby – 300 participants).
- Supported aerial surveillance for illegal cervid feeding and baiting sites within the bTB Eradication and Chronic Wasting Disease (CWD) Surveillance Zones. Identified seven locations and took enforcement actions. Implemented the bTB and CWD program with the Chief Veterinary Office, the Winnipeg Veterinary Diagnostic Laboratory, the CFIA, Parks Canada, the Manitoba Wildlife Federation, and the Canadian Wildlife Health Cooperative through the UofS.
- Analyzed 770 white-tailed deer, 85 elk, ten mule deer, 15 moose, and one wild boar carcasses for bTB CWD and other diseases. Continued the winter severity index program for effects of winter conditions on deer. This includes 22
- monitoring stations mainly operated by volunteers.

- Partnered with the Canadian Wildlife Service and U.S. governments within the Mississippi Flyway on migratory game bird population and harvest management
- programs. Led and participated in banding and surveys on a variety of migratory bird species. Collaborated with Ducks Unlimited Canada on waterfowl surveys at Delta Marsh related to the Common Carp Exclusion Project. Partnered with volunteers from Wild Gobblers Unlimited and the Manitoba Wildlife Federation in wild turkey population. Six sites received 137 wild turkeys. Delivered the Waterfowl Crop Damage Prevention Program. Deployed 216 scare cannons and 313 scare effigies, and issued seven scare permits to support scaring efforts in agro Manitoba and protect 3,350 hectares of agricultural crops with an estimated value of \$460,000.
- Delivered ten trapper education courses, graduating over 200 new trappers in with the Manitoba Trappers Association (MTA). Worked with the MTA to identify new trapper education materials. Worked to harmonize approved trapping devices to ensure fur markets remain open to Manitoba.
- Reviewed fur bearing animal harvests to ensure sustainability. Assisted the Manitoba Trappers Association during Thompson Fur Table. Delivered the Problem Predator Removal program with the Manitoba Trappers Association and responded to 14 service requests. Provided trapper and fur bearer harvest data for research, trapper notifications, and environmental impact assessments.
- Promoted the Wildlife Smart program promoting coexistence of people and wildlife through public education, and conflict mitigation efforts. Delivered/ displayed public education materials through tradeshow, festivals, public presentations, and website. Partnered with the Manitoba Wildlife Federation on Manitoba's Hunter Education Program, with 3,167 students graduated.
- Delivered wildlife encounter safety training workshops (240 participants) to reduce dangerous wildlife encounters for people in recreation and remote areas. Continued to monitor interaction reports between people and wildlife, including 1,300 reports of black bears. 93 scaring device were deployed; 142 bears relocated, 75 bears euthanized, and 29 bears killed by the public defending property.
- Implemented 40 field programs to collect fisheries data, including data collection, entry, analysis, and assessment reports to inform decision-making on fisheries management. Implemented 19 fisheries field programs under the Coordinated Aquatic Monitoring Program (CAMP) in partnership with Manitoba Hydro.
- Partnered with Indigenous Services Canada and eight Indigenous communities to implement the Collaborative Stock Monitoring Program (CSMP), promoting citizen science approach to data collection. Conducted ageing analysis on 8,000-10,000 fish structures, providing critical biological information for fish stock assessments and management decision-makings.
- Recertified Waterhen Lake fishers producing 70,000 kilograms of certified Walleye and Northern Pike annually. Continued work with Waterhen, Cedar and Moose lakes to eco-certify additional lakes, which produce 15 per cent of Manitoba's catch.

- Issued 61 Scientific Collection Permits, 55 Live Fish Handling Permits (including Introductions and Transfers permits), 39 Aquatic Invasive Species Permits, 7
- Aquatic Invasive Species Exemptions and two Aquatic Invasive Species Transportation Authorizations, to support Manitoba Hydro, Manitoba Infrastructure, and the Oil, Gas and Mining sectors, for the orderly use of Manitoba's fisheries resources for business function.
- Continued work on Instream Flow Needs (IFN) for the Assiniboine and Little Saskatchewan Rivers. Continued the hatchery-reared Lake Sturgeon multi-year study assessing their movement and behavior in the Assiniboine River.
- Participated in the ongoing shared management of actions to protect Carmine Shiner and Bigmouth Buffalo, which are federally-listed fish species in Manitoba. Continued Lake Sturgeon conservation agreement between Canada, Manitoba and Manitoba Hydro.
- Participated in the ongoing Canadian Council of Fisheries and Aquaculture (CCFAM) Task Group to review and/or amend the federal Fisheries Act.
- Worked with Canadian Food Inspection Agency (CFIA) Aquatic Animal Health Program to implement a national fish health surveillance plan for Spring Viraemia of Carp and Whirling disease.
- Continued to operate the Whiteshell Hatchery producing trout fingerlings and yearlings to maintain high-value put-and-take fisheries. Operated the Swan Creek Hatchery producing walleye fry to re-stock fish after flood events.
- Installed ultraviolet (UV) lights in the Swan Creek Hatchery and Whiteshell Hatchery to support animal husbandry and mitigate pathogens.
- Whiteshell Hatchery produced 8.8 million walleye fry and Swan Creek Hatchery produced 22 million walleye fry. Whiteshell Hatchery produced and stocked 518,000 trout fingerlings and yearlings, including 196,150 rainbow trout, 170,441 brown trout, 112,750 brook trout, 33,500 tiger trout, and 5,000 arctic char.
- Implemented eight programs through the Aquatic Invasive Species (AIS) strategic plan. Initiated a process to review AIS legislation. Conducted 18,349 inspections, performed 2,885 decontaminations, issued 59 decontamination orders, and intercepted 3 zebra mussel-fouled watercraft under the Watercraft Inspection program. Supported Conservation Officers who issued 112 warnings and issued 15 tickets for AIS offences. Produced and distributed over 60,000 AIS checklists to surface water users, procured large boat launch and control zone signs, attended trade shows to engage the public about AIS, and presented at stakeholder meetings. Held preliminary discussions about the Certified Service Provider program. Continued collaboration and development of partnerships with local groups who are working to build local AIS prevention capacity. Monitored 108 waterbodies collecting 679 veliger samples and 288 eDNA samples and setting 61 substrate samplers in partnership with eight agencies and organizations. Lifted the Zebra Mussel Control Plan for Singush Lake, and continued working with the Department of Fisheries and Oceans Canada and
- Prairie Province partners to develop a rapid response framework and plans.

- Provided “how to adapt to Zebra Mussels” information to communities on the North Basin of Lake Winnipeg and the Nelson River.
- Participated in intergovernmental AIS initiatives, including Canadian Council of Fisheries and Aquaculture (CCFAM) National Aquatic Invasive Species Committee and eDNA subcommittee chair; Inter-Provincial and Territorial Agreement for the Coordinated Defense against Invasive Species Directors, subcommittee and working Groups; Environment Canada & Climate Change Canada’s Invasive Aliens Species Committee; Rainy Lake of the Woods Aquatic Invasive Species Subcommittee; and the Prairie federal provincial AIS committee.

NORTHERN FISHERMAN'S FREIGHT ASSISTANCE - 8C

Mandate

The Northern Fisherman's Freight Assistance Program assists fishers working in remote communities with the cost of shipping their fish to market in an effort to maintain the economic benefits of these fisheries to fishers and local communities. The freight subsidy applies to lower value species such as Lake Whitefish, Northern Pike, Cisco, Lake Trout, and Gold eye. Walleye, currently the most valuable species, is not eligible for the program. Fishers pay the first \$0.20/kg of their shipping costs and the program pays up to the next \$0.45/kg of shipping costs. Fishers are required to pay any costs exceeding \$0.65/kg. Over 500 lakes are eligible for this program.

Activities:

- Freshwater Fish Marketing Corporation administers the Northern Fisherman's Freight Assistance Program. The program is capped at \$400,000 annually, of which \$10,000 is paid annually to the Freshwater Fish Marketing Corporation to cover administration costs of the program.

Actual Results:

- Dispersed \$400,000 through the Northern Fisherman's Freight Assistance Program to fishers working in remote communities in 2019-2020.

8 (c) Wildlife and Fisheries

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20 \$(000s)	2019/20 FTEs	2019/20 \$(000s)	Over/(Under) \$(000s)	
(1) Salaries and Employee Benefits	6,607	82.35	6,782	(175)	
(2) Other Expenditures	2,302	-	2,339	(37)	
(3) Grant Assistance	49,565	-	15,357	34,208	1
(4) Northern Fisherman's Freight Assistance	410	-	410	-	
Total Sub-Appropriation	58,884	82.35	24,888	33,996	

1. *The variance is mainly the result of contributions for Environmental Initiatives to: Fish and Wildlife Enhancement Fund, Oak Hammock Marsh Interpretive Centre Endowment and Capital Renewal, Forte Whyte Endowment, Lake Manitoba Fisheries License Buyback and Shared Fish and Wildlife Management.*

LANDS – 8D

Mandate

Ensure compliance with Crown land and resource laws, policies and procedures, in order to assure long-term sustainability of the natural environment for present and future generations. Ensure potential impacts on treaty and Indigenous rights are considered in the review of Crown land applications and project proposals. Ensure the advancement of mutually respectful relationships between Indigenous and non-Indigenous peoples, in accordance with The Path to Reconciliation Act, is considered in the administration of Crown land programs. Strengthen public confidence in the administration of provincial Crown land programs while reducing the impact of regulatory requirements, effectively modernizing the Crown land sale process, improving the management of Crown land as a public asset and supporting sustainable economic development. Provide a provincial geographical name authority, as a member of the Geographical Names Board of Canada, on new and established place names.

Activities:

- Develop, review and continually improve Crown land policies and procedures to guide land tenure decisions and program operations, including a new process to identify Crown land and property available for sale.
- Collaborate with other divisions and departments in the development, management, planning and delivery of related provincial Crown land programs in all regions across Manitoba.
- Promote compliance with Crown land and resource-based legislation by industry, public users and occupiers of Crown land through information, education, inspection and enforcement.
- Review Crown land applications, in accordance with relevant policies and procedures, and provide direction to the Real Estate Services Division.
- Resolve complex and non-compliance Crown land issues through research, site investigations and client interviews, and respond to inquiries and requests from the public and government.
- Work with departmental committees to establish and implement processes to assess the potential impact of Crown land dispositions on treaty and Indigenous rights and, when necessary, engage in Crown consultation activities with Indigenous communities.
- Build and maintain working relationships with Indigenous communities, municipalities and stakeholders through the evaluation and discussion of proposals for the potential development and allocation of Crown land parcels suitable for recreational, residential and other uses.
- Expedite the transfer of 1.14 million acres of Crown lands and 280,000 acres of other land to be acquired by Entitlement First Nations in accordance with their respective Treaty Land Entitlement Agreements.
- Undertake land transfer activities and provide technical assistance to First

- Nations, Canada, the Treaty Land Entitlement Committee, and provincial government departments required in land settlement agreements.
- Explore and pursue recreational, residential and other revenue opportunities on Crown land.
- Develop and implement policies and procedures for Manitoba's authoritative Geographical Names database to increase the awareness and application of Manitoba place names, as well as implementing unique projects, such as, the World War 1 Commemorative Naming and Indigenous Naming Program to enhance awareness of Manitoba's unique culture and history.
- Facilitate and participate in departmental and inter-departmental reviews of Crown land proposals for the creation or expansion of wildlife management areas, provincial parks, provincial forests, ecological reserves, ecological protection zones, protected areas, and municipal development plans, zoning by-laws, subdivisions, and grant in lieu.

Actual Results:

- Reviewed alternative methods for Crown land sale to ensure fairness, transparency and efficiency in processing, consideration being given for a broader public interest or opportunity. The Bloc Planning Committees reviewed 423 operational land use code changes for continued long-term resource use.
- Modernized Crown land management to improve decision making, tracking and compliance allocations, including engaging the Canadian Land Directors Association (CLDA), to seek solutions to cross-jurisdictional Crown land enforcement, policy, administration and management issues.
- Advanced Manitoba's Commemorative Names and Indigenous naming priorities through the Manitoba's First World War Commemorative Names Project, an EngageMB project to seek local feedback on 20,000 unnamed geographical features, and ongoing engagement with Indigenous communities to document and approve traditional toponyms.
- Continued reconciliation work through staff education on Indigenous culture and history, engaging Indigenous knowledge holders and elders.
- Advanced revenue through proactive sales of 180 vacation home clients on surveyed lots resulting in 16 sales totalling \$200,000. Completed recreational lot sales for ten lots through the Cottage Lot Program, with two from the first-come-first-serve inventory and eight from draws.
- Reported on acreages and issues for Indigenous communities, and the Treaty Land Entitlement Committee to implement the Treaty Land Entitlement Agreement. Responded to requests related to non-Treaty Land Entitlement settlement agreements.

Table 4**Amount of Crown Land Selected under Treaty Land Entitlement and Reserve Land Set Apart**

Entitlement Acres	Total Selected	Reserve Land Set Apart	Per cent Complete	Acres Required to Complete
1,144,331	1,008,705	651,519	57	493,812

Amount of Other Land Acquired under Treaty Land Entitlement and Reserve Land Set Apart

Entitlement Acres	Total Acquired	Reserve Land Set Apart	Per cent Complete	Acres Required to Complete
282,123	31,451	14,624	5	267,499

- Continued to provide recommendations for highway circulars (three), environmental applications/ licences (65), quarry leases (98), oil battery referrals (two), development plans and zoning reviews/amendments (176).
- Reviewed 219 Crown Lands Act applications (see Table 5) and followed guidelines on Crown-Indigenous consultations.

Table 5

Application Type	Thompson (North East)	The Pas (North West)	Gimli (Central)	Brandon (Western)	Lac du Bonnet (Eastern)	Total Applications
Sale*	3	3	0	0	2	8
Easement	1	1	1	3	1	7
Permit	5	7	10	9	19	50
Lease	10	5	4	5	5	29
Wild Rice	0	4	0	0	1	5
Licence of Occupation	1	0	0	2	1	4
Reservation	0	0	0	0	0	0
Assignments	20	26	3	1	26	76
Renewals	2	11	2	0	7	22
Development Time Frame Extensions	3	5	2	0	8	18
Totals	45	62	22	20	70	219

* Does not include proactive sale offers to 205 existing vacation home clients on surveyed lots

8 (d) Lands

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20 \$(000s)	2019/20 FTEs	2019/20 \$(000s)	Over/(Under) \$(000s)	
(1) Salaries and Employee Benefits	1,748	23.00	1,924	(176)	
(2) Other Expenditures	2,745	-	2,581	164	
(3) Grant Assistance	51,500	-	134	51,366	1
Total Sub-Appropriation	55,993	23.00	4,639	51,354	

1. The variance is primarily due to contributions for Environmental Initiatives to the Growing Outcomes in Watersheds (GROW) Trust and Highway One West Shelterbelt.

CONSERVATION DISTRICT AND WATERSHED ASSISTANCE – 8E

Mandate

Support Conservation Districts in their ongoing development and implementation of sustainable land and water planning, programs, and projects.

Activities:

- Provide grants to Conservation Districts and ensure appropriate financial management.
- Provide guidance on provincial priorities for Conservation District program funding.
- Provide requirements for annual reporting for all Conservation Districts.

Actual Results:

- Implemented The Conservation Districts Program (now Watershed District Program) as a voluntary, incentive-based program to promote the sustainable use and management of land, water and related resources on a watershed basis. This is a partnership that addresses risks to water resources and aquatic ecosystems to ensure integrity and watershed protection.
- Provided annual grants to support operations and programming in water quality, surface water management, drinking water protection, water storage, soil conservation, wildlife habitat and public education programs promoting healthy and resilient watersheds. Established 1,028 cubic decameters of water storage capacity, installed 5,000 kilometers of riparian area fencing limiting more than 3,400 head of cattle from waterways, sealed 182 abandoned wells, and hosted over 100 demonstration and project tours with over 800 participants.
- Provided \$5 million in grants to 18 Conservation Districts, including Alonsa \$293,000, Assiniboine Hills \$316,000, Cooks Creek \$310,000, East Interlake \$300,000, Intermountain \$268,000, Kelsey \$155,000, Lake of the Prairies \$200,000, La Salle Redboine \$200,000, Little Saskatchewan River \$200,000, Pembina Valley \$359,500, Seine-Rat River \$378,000, Swan Lake Watershed \$225,000, Turtle Mountain \$303,000, Turtle River Watershed \$431,000, Upper Assiniboine River \$270,000, West Interlake Watershed \$200,000, West Souris River \$203,500, and Whitemud Watershed \$700,000.
- Proclaimed The Watershed Districts Act, and registered a new Watershed Districts Regulation. Under the new Act 18 Conservation Districts were transitioned to 14 new watershed districts based on boundaries.
- Provided direction and oversight for annual budgets and activities of each Conservation District.

8 (e) Conservation District and Watershed Assistance

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20 \$(000s)	2019/20 FTEs	2019/20 \$(000s)	Over/(Under) \$(000s)	
Grants and Transfer Payments	5,312	-	5,312	-	
Total Sub-Appropriation	5,312	-	5,312	-	

WATER STEWARDSHIP INITIATIVES – 8F

Mandate

Build capacity for managing Manitoba’s water resources and implement practices that will maintain, protect, or improve water including fisheries, water quality, aquatic habitat, drinking water, and climate change adaptation.

Activities:

- Support activities, programs and projects including the following:
 - Innovative water management projects including projects that help industry, municipalities and other governments adapt to a changing climate;
 - Water-related scientific research that enhances and improves decision making;
 - Building capacity of Manitoba’s citizens to participate in water management and planning activities and decision-making and engaging stakeholders in such processes, including transboundary water management;
 - Maintaining, protecting, and improving water quality and quantity;
 - Promoting the sustainable management and use of water and fisheries resources; and
 - Protecting drinking water for Manitobans.

Actual Results:

- Supported the Lake Winnipeg Research Consortium’s ship the MV Namao, and fisheries co-management initiatives.
- Provided support to protect Manitoba transboundary water issues between the US and Canada through boards and initiatives including engaging stakeholders in water governance. Provided funds to the Prairie Provinces Water Board, the Red River Basin Commission, the Assiniboine River Basin Initiative, and Partners for the Saskatchewan River Basin.

8 (f) Water Stewardship Initiatives

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl.
	2019/20	2019/20		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Other Expenditures	13	-	(16)	29	
(2) Grant Assistance	511	-	579	(68)	
Total Sub-Appropriation	524	-	563	(39)	

FORESTRY AND PEATLANDS – 8G

Mandate

Ensure the sustainable resource management of forests and peatlands, while providing environmental, economic, and social opportunities for the benefit of present and future generations of Manitoba. Provide an understanding of forests and peatlands, through science, analysis, education, and reporting on the ecological and economic values of resources in Manitoba. Assist with planning, managing, and allocating Manitoba's Crown resources. Support the forest and peat industries with advice, research, and collaboration on planning and development initiatives. Engage Manitoba's Indigenous communities in balancing environmental protection with the use of the forest and peatland resource for economic, recreational, and social benefit through land use planning and development. Enhance urban and community stewardship for forests and peatlands through cooperative partnerships and public participation. Ensure the health of forests and peatlands through monitoring, harvesting, renewal, restoration and insect and disease control. Support climate change mitigation by increasing the number of young, healthy trees in Manitoba, protecting provincially significant peatlands, promoting mitigation and adaptation research initiatives that ensure Manitoba's managed urban and natural forests are resilient given the changing climate.

Activities:

- Ensure all forestry and peat activities conform to the Forest Act, the Forest Health Protection Act, the Peatlands Stewardship and Related Amendments Act and government policies, and that all forestry and peatland activities are reported consistently and accurately.
- Determine sustainable levels of harvest that incorporate ecosystem values, such as ecological processes, non-timber resources, and critical wildlife habitat.
- Create and maintain a current, comprehensive, accurate, and ecological-based forest inventory Geographic Information System (GIS) database for Manitoba.
- Integrate new principles of forest ecology, landscape design, natural disturbance regime, forest succession, and wildlife habitat forecasting into forest ecosystem modelling.
- Use innovative technologies that improve data collection efficiency, reduce safety concerns, and provide linkages to current digital and spatial databases.
- Explore new approaches to report and visualize forest and peatland information, such as drone imagery, web applications, story maps, and dashboards.
- Design and implement field-sampling programs, manage associated forest productivity databases, and develop statistical models to predict the growth and yield of Manitoba's forests, which help determine sustainable levels of harvest for Crown forested lands.
- Collect associated dues, royalties, charges, and fees by implementing and refining timber and peat administration and pricing systems. Review timber dues, ensuring that rates provide a fair return for Manitobans and that the opportunity for the forest industry remains competitive.

- Promote Indigenous participation in the forest and peat sectors, and encourage the development of value-added forest products and opportunities for Indigenous communities.
- Ensure that the Crown fulfills its duty to consult by conducting Crown consultations when forestry or peatlands activities may affect Indigenous Rights.
- Facilitate solutions to forestry and peat related issues with Forest Management Licence holders, Timber Quota holders, Peat Harvest Licence holders, Indigenous peoples, municipalities, stakeholders and the public.
- Participate and provide direction in sustainable forest management planning and practices, timber administration, wood measurement, forest health, climate change initiatives, and related legislation, including the Canada-US Softwood Lumber Agreement.
- Develop forest practice guidelines, procedures, policies, and legislation, and provide direction for forest planning, which includes reviewing forestry operations and long-term forest management plans.
- Ensure all harvested areas are tracked and satisfactorily renewed, and assess the overall success of industry and provincial reforestation and silviculture activities. This includes seed collections, tree planting, tree improvement, vegetation management, silviculture surveys, and renewal standards.
- Administer the Emerald Ash Borer and Budworm management programs, Dutch Elm Disease and urban forest management program, other pest-specific control programs, forest health diagnostics, assessments, impact modeling, and research projects.
- Promote public education and engagement in forestry and provide information about Manitoba's forests. Participate in public events to provide forestry and forest health information to Manitobans.

Actual Results:

- Acquired aerial imagery to update forest and peatlands inventories, and track land base changes throughout Manitoba's Crown forests and peatlands.
- Acquired 3.1 million hectares of high-resolution imagery for the development of a new Saskatchewan River Forest Section Inventory.
- Re-measured 61 existing permanent sample plots (PSP), established six new PSPs and seven micro-plots. Re-measured 11 National Forest Inventory (NFI) ground plots to collect data for the long-term monitoring of growth and succession of Manitoba's forests. Acquired and delivered 191 NFI photo plots within this re-measurement cycle.
- Collected data from the Nelson River Forest Section to validate a new growth and yield modeling system, and update the inventory data for this forest section.
- Validated and finalized a statistical model (Random Forest) developed to update forest inventory attributes.
- Enhanced and updated GIS web applications to support data collection.

- Implemented regular updates to timber pricing systems, which ensure a fair return rate for Manitobans and a competitive business environment for industry.
- Developed eco-site data collection manual detailing methodology for the Interlake pilot project area, which will enhance future analyses such as habitat modelling.
- Completed a spatial modeling project with a third-party to evaluate and assess the economic feasibility of forest industry expansion in northern Manitoba. This includes examining sustainable harvest levels, transport and production in the Saskatchewan River region, High Rock, and Nelson River forest sections.
- Updated forest land-base layer for a sustainable harvest level in the Pineland Forest Section. Data included blowdown, insect infestations and changes in land use.
- Collaborated with the UofW on the existing climate change research project adjacent to the former Pineland Nursery.
- Authorized the harvest of 1.36 million cubic meters of Crown timber by 115 timber quotas, Forest Management Licence holders and other timber-cutting rights holders.
- Monitored the jack pine budworm outbreak in the North Interlake region affecting over one million hectares of pine forests. Aerial and ground surveys are underway to determine the severity and extent of the outbreak, and implement salvage harvest operations.
- Approved the Nisokapawino Forestry Management Corporation 2019/2021 Operating Plan for Forest Management Licence #2. Accepted the 2017-2018 Annual Report submitted by LP Canada Ltd. for Forest Management Licence #3.
- Led government participation on a 20-Year Forest Management Plan (FMP) developed in coordination with LP Canada Ltd. Completed a preliminary review of 20-Year FMP components including forest sustainability modelling.
- Implemented preparedness/management strategies for damaging invasive forest pests emerald ash borer and mountain pine beetle.
- Increased awareness through public education activities and events, of forest health, seedling distribution, tree planting initiatives and invasive species.
- Provided technical assistance to the public, municipalities, and arboriculture industry related to tree health, planting, and care.
- Administered Community Forest Grant Agreements, and completed Dutch elm disease surveys in 38 communities throughout Manitoba.
- Worked with Manitoba communities to improve their urban tree inventories and urban forest planning.
- Planted approximately 2 million seedlings in the spring of 2019 as a component of the provincial forest renewal program.
- Tendered the delivery of approximately 1.5 million seedlings for the 2021 forest renewal season.
- Achieve Sustainable Forest Management objectives of Crown lands.

FOREST REGENERATION STOCK – 8G

Mandate

Renew Manitoba's public forests and contribute to sustainable forest management.

Activities:

- Process cones (extract seed) collected in support of our provincial renewal program.
- Inventory and properly store the provincial seed supply.
- Coordinate delivery of the seedlings in preparation for planting.
- Develop and advertise a tender package to secure the services of a qualified nursery to grow seedlings for Manitoba's forest renewal program.

Actual Results:

- Sufficient stocked provincial seed bank.
- Delivered approximately 2 million seedlings for the 2019 spring planting season.
- Tendered a contract to acquire approximately 1.5 million seedlings for the 2021 forest renewal season.

8 (g) Forestry and Peatlands

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20 \$(000s)	FTEs	2019/20 \$(000s)	Over/(Under) \$(000s)	
(1) Salaries and Employee Benefits	4,791	48.00	5,062	(271)	
(2) Other Expenditures	3,505	-	3,604	(99)	
(3) Grant Assistance	23	-	23	-	
(4) Forest Regeneration Stock	346	-	345	1	
Total Sub-Appropriation	8,665	48.00	9,034	(369)	

RESOURCE DEVELOPMENT - 9

Division Mandate

Provide efficient regulation of mineral, oil and gas and quarry tenure in Manitoba and support the sustainable development of these resources for economic growth.

REGULATORY SERVICES – 9A

Mandate

Facilitate the safe and efficient development of Manitoba's mineral, oil and gas resources in accordance with the principles of sustainable development. Promote the maximum recovery of oil from Manitoba oil fields, minerals from mines, and aggregate from quarries, through technical assistance and enabling policies and regulations. Provide engineering and inspection services for mines, quarries and petroleum extraction, storage and closure.

Activities:

- Administer The Mines and Minerals Act and The Oil and Gas Act and associated regulations governing the safe and efficient exploration, development, production, transportation and storage of resources in Manitoba.
- Administer the petroleum fiscal regime under the authority of The Crown Royalty and Incentives Regulation and The Oil and Gas Production Tax Act, including the collection of petroleum revenues and freehold production taxes.
- Conduct regular and targeted inspections of oil field and quarry operations to ensure compliance with regulations related to geophysical, drilling, production, extraction, and pipeline operations. Conduct inspections to ensure proper rehabilitation of abandoned and depleted sites.
- Ensure industry compliance with site management and closure plans.
- Review engineering proposals for new development of mines.
- Provide assistance in the research and assessment of new technologies.
- Collaborate with other provincial departments and the federal government on matters related to the sustainable development of oil and gas resources, as well as opportunities to harmonize systems and processes with other jurisdictions in order to reduce red tape or other barriers to economic growth.

Actual Results:

- Produced over 15.7 million barrels of oil (or 44,055 barrels per day) with a value of \$1,034 million, an increase of \$64 million from the previous year. Despite the economic uncertainty, the petroleum industry spent \$352.9 million in Manitoba for oil and gas exploration and development in 2019/20, drilling 222 new wells and operating 5,407 producing and support wells.
- Held four sales of Crown Oil and Gas Rights, and sold 36 Crown Leases covering 2,299 hectares for \$514,023.

Petroleum Industry Overview

	2019	2018	2017
New wells drilled	222	276	240
Oil Production	2,500,000 m3 (15.7 Million bbls.)	2,200,000 m3 (13.8 million bbls.)	2,241,525 m3 (14.1 million bbls.)
Value of oil sales (\$ million)	\$1,034	\$970	\$876
Average selling price	\$413.67/m3 (\$65.73/bbl.)	\$441.27/m3 (\$70.15/bbl.)	\$390.77/m3 (\$62.13/bbl.)
Wells producing - December	5,407	3706	3814
Estimated Industry Expenditures (\$ million)	\$353	\$442	\$373

Land Accomplishments 2019/20

Crown Lease Renewals	155
Surrenders	104
Transfers	15
Lease Extensions	14
Discharge/Registration of Liens	0
Ministerial Orders	4
Directors Orders	23
Land Sale Registrations	58
Private Sale Registration	6
Missing Royalty Owner Orders	4

- Under the authority of the Oil and Gas Production Tax Act 2(2) and the Crown Royalty and Incentives Regulation, the Manitoba Drilling Incentive Program (MDIP) was designed to encourage sustainable development in Manitoba's petroleum resources. The program offers a tax holiday on produced oil, or holiday oil, to qualifying wells and projects.
- In 2019/20, 271 wells earned an average holiday oil volume of 8,000 cubic metres, bringing the total number of wells that earned a holiday oil volume in the program to 5,925 as of Mar 31 2020.

Engineering and Inspection activities 2019/2020

Oil and Gas Facilities Inspected	90
Service Rigs Inspected	12
Drilling Rigs Inspected	4
Non-compliance Orders Issued	126
Flow Line Applications Issued	514
Abandoned Well Sites Inspected	93
Certificate of Abandonments Issued	86
Spill Sites Inspected	36
Spill Sites Released from Rehab	12

- Collaborated with Workplace Health and Safety for eight mine inspections resulting in 0 non-compliance issues.

Technical Well Applications

Abandonments:	179
Suspensions:	18
Conversions:	45
Recompletions:	10
Add Leg(s):	2
Unitization:	8
Enhanced Oil Recovery Project	6
Oil Battery:	2
Saltwater Disposal Wells:	3
Pipeline:	0

- The Abandonment Fund Reserve Account is established under The Oil and Gas Act to support operation or abandonment of a well or facility that is in non-compliance with the Act, and support rehabilitation of an abandoned well or facility or to address any adverse effect on property caused by a well or facility.

Opening Balance (April 1, 2019)	\$2,821,300
Deposits	
Levies and Penalties	\$64,900
Interest	\$12,191
Inactive Well Levy	\$395,725
Total Deposits	\$472,816
Expenditures and Refunds	0
Closing Balance (March 31, 2020)	\$3,294,116

- Received five Mine Closure Plans for review, and provided support reviewing the Environmental Act license for a proposed new mine.
- Collected \$22.3 million in taxes and royalties from the petroleum industry, including \$12.2 million in Crown oil royalties, \$9.1 million in freehold oil taxes, and \$0.96 million from administration of Crown Oil and Gas Rights, fees for well licences, battery operating permits, geophysical licences and oil and gas lease agent registration and publication sales.

9 (a) Regulatory Services

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl.
	2019/20	2019/20		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,716	35.40	2,603	113	
(2) Other Expenditures	980	-	716	264	1
Total Sub-Appropriation	3,696	35.40	3,319	377	

1. The variance is mainly due to costs related to the negotiations of a new mineral tenure regime partially offset set by operational savings resulting from vacant positions.

LAND USE AND RESOURCE TENURE – 9B

Mandate

Support the orderly disposition of mineral rights and oil and gas rights that allows for exploration, development and production of the provinces resources.

Activities:

- Administer The Mines and Minerals Act and associated regulations governing the tenure requirements for exploration, development and production of Crown minerals, and the rehabilitation of mine and quarry sites. This includes the orderly disposition of Crown mineral rights and the collection of mineral royalties and fees through the office of the Mining Recorder.
- Administer The Oil and Gas Act and associated regulations governing the tenure requirements for exploration, development and production of Crown oil and gas. This includes the orderly disposition of Crown oil & gas rights and the collection of Crown royalties and fees through the Office of the Petroleum Registrar.
- Manage ongoing inventory compilation of the province's aggregate resources and administration of mineral resource conservation-related provincial land use policies.
- Manage the Abandonment Fund and wells and oil and gas facilities seized under The Oil and Gas Act.
- Manage the Quarry Rehabilitation Fund through the collection of provincial levy and direction of rehabilitation projects.
- Manage the Orphaned and Abandoned Mine Site Remediation Program through the management of site remediation projects.
- Support the Indigenous consultation for the issuance of mineral dispositions and work permits.
- Support land use planning to ensure Manitoba's mineral and oil & gas potential are reflected in decision making by the Crown as it relates to infrastructure planning, municipal development plans, parks and protected areas, forestry, and other land use activities.

Actual Results:

- Transferred The Orphaned and Abandoned Mine Site Rehabilitation program to Climate Change and Conservation. All future work will be carried out under the contaminated sites program.
- Concluded review of the Quarry Rehabilitation Program with the Office of the Auditor General (OAG) published May 20, 2020.
- Released process guide on Crown-Indigenous consultations following engagement with First Nations leadership to ensure First Nations are actively involved. Allocated \$500,000 to support First Nations in developing and implementing protocol agreements.
- Established a shared mineral management boards, for traditional land-use

- planning in areas demonstrated mineral potential. Enhanced First Nations' knowledge of the mining cycle and economic growth opportunities ensuring participating in project-specific regulatory processes. Signed a protocol agreement with Manto Sipi Cree nation, and discussed protocol development with ten First Nations.
- Collected \$3.5 million total revenue.
- Recorded 384 mining claims and 28 mineral exploration licenses.
- Ensured 970 Quarry leases are in good standing.
- Issued 788 casual quarry permits and 756 registration certificates for private pits and quarries.

9 (b) Land Use and Resource Tenure

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20	2019/20		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	866	16.00	1,027	(161)	
(2) Other Expenditures	759	-	665	94	
Total Sub-Appropriation	1,625	16.00	1,692	(67)	

GEOLOGICAL SERVICES – 9C

Mandate

Provide the geoscience data required to make informed decisions related to mineral, oil and gas exploration, extraction, production and land use planning to maximize the economic potential while reducing risk (including infrastructure plans and investment risks), and for the protection and improvement of public safety. Understanding Manitoba's geoscience is critical to the sustainment of long-term economic development, including development of mineral and petroleum resources and strategic sourcing of raw materials for infrastructure and technological innovation.

Activities:

- Conduct geological investigations in Manitoba's Precambrian Shield, Western Canada Sedimentary Basin, and Hudson Bay Basin.
- Partner with private industry and other levels of government for maximum delivery of the programs and services.
- Contribute the geoscience to support minerals, oil and gas policy development.
- Maintain the provincial aggregate inventory.
- Coordinate the petroleum geophysical program.
- Coordinate the work assessment geological review of industry reports for credit towards work on mineral claims.
- Support Crown-Indigenous Consultation process by providing geological perspective of the areas proposed for exploration and development of minerals, oil and gas.

Actual Results:

- Conducted 37 geoscience projects including eight new projects distributed throughout Manitoba to include gold, nickel, base metals, diamonds, graphite, vanadium, silica sand, potash, lithium, helium, and oil and gas. Released 122 geoscientific publication including data repository items, preliminary maps, open file reports, geoscientific papers, geoscientific reports, and digital re-releases.
- Facilitated development of oil and gas wells with geoscientists and technical staff to enhance oil recovery units, assessment, mineral tenure, and review the sale of oil and gas leases. Improved the solicitation, storage and dissemination of technical knowledge and samples to create a competitive business climate.
- Completed the initial phases of comprehensive digital geoscience projects including a unified 1:250k scale bedrock geology legend for digital map compilations, a modernized aggregate database, upgrades to Map Gallery, and implemented Petrinex to report petroleum sector related activities. Conducted geological projects in mining camps including the Thompson nickel belt, Flin-Flon - Snow Lake belt, Lynn Lake belt, and in frontier areas of Hudson Bay Lowland, Bigstone Lake, and the Russell-McCallum.
- Continued participation with the Geological Survey of Canada (GSC) in phase 5

- of the federal, collaborative Targeted Geoscience Initiative (TGI), as well as a multi-year partnership with the GSC and the Saskatchewan Geological Survey to conduct geoscience studies in support of the Creighton-Flin Flon region. Other collaborative projects include industry partners such as Hudbay Minerals, Alamos Gold, Vanadian Energy, Far Resources, DeBeers, and academia (e.g., the University of Manitoba, Western University, University of Waterloo, University of Calgary).
- Provided geoscience data for land-use decisions related to municipal planning, traditional land use planning, protected areas, and wildlife management areas.
- Presented geoscience results during the Central Canada Mineral Exploration Annual Convention (CCMEC) in Winnipeg, 9th International Symposium on Granite Pegmatites in California, GeoConvention 2019 in Calgary, and Association for Mineral Exploration Roundup 2020 (AME Roundup) in Vancouver, Prospectors and Developers Association of Canada (PDAC) Annual Convention in Toronto.
- Advanced sustainability of oil, gas and mineral resources with SD and Crown lands by updating land sale processes and committee participation (e.g., Block planning committee, Protected Areas committee).
- Resourced six Indigenous community consultations (e.g., Norway House Cree Nation, Manto Sipi Cree Nation, Sagkeeng First Nation and Red Sucker Lake First Nation), with geoscientists to discuss mineral resources.
- Developed outreach activities through in-class presentations, Mineral Society of Manitoba presentations, and Girl Guides rocks pilot project.

9 (c) Geological Services

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20 \$(000s)	FTEs	2019/20 \$(000s)	Over/(Under) \$(000s)	
(1) Salaries and Employee Benefits	2,180	25.00	2,363	(183)	
(2) Other Expenditures	1,555	-	2,158	(603)	1
Total Sub-Appropriation	3,735	25.00	4,521	(786)	

1. The variance is due to the Petrinex System costing less than anticipated partially offset by increased transportation costs related to remote field camps.

BOARDS AND COMMISSIONS – 9D

Mandate

Provide for the resolution of disputes related to activities authorized under The Oil and Gas Act and The Mines and Minerals Act.

Activities:

- The Surface Rights Board provides for the resolution of disputes between surface rights holders and oil and gas rights holders with respect to accessing oil and gas. The board deals with issues relating to right of entry and compensation to owners of surface rights in respect of drilling for oil and gas and geophysical exploration.
- The Mining Board provides for the resolution of disputes between surface rights holders and minerals rights holders with respect to accessing minerals, including but not limited to aggregates, industrial minerals and metallic minerals. They also hear applications for access rights for exploration activities and will determine compensation levels for landowners on request. The Mining Board can also hear and resolve disputes between holders of mineral dispositions and between holders and officers of the department.
- The Mining Board also provides an impartial review of decisions and actions of Mines branch staff to ensure a fair and consistent application of The Mines and Minerals Act.

Actual Results:

- Resolved one application between oil and gas rights and mineral rights holders, without a hearing. Decided one Surface Rights Board order at the Queen's Bench Court of Appeal.
- Independent review of application The Mines and Minerals Act not implemented as no applications required Mining Board involvement.
- Delivered information session to the Surface Rights Board reviewing hearings and board orders to assist in resolution.

9 (d) Boards and Commissions

Expenditures by Sub-Appropriation	Actual	Estimate		Variance	Expl. No.
	2019/20	2019/20		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	19	-	31	(12)	
(2) Other Expenditures	14	-	16	(2)	
Total Sub-Appropriation	33	-	47	(14)	

**SECTION TWO ADDITIONAL FINANCIAL
INFORMATION AND APPENDICES**

REGULATORY ACCOUNTABILITY AND RED TAPE REDUCTION

Manitoba Agriculture and Resource Development is committed to implementing the principles of regulatory accountability as set out in The Regulatory Accountability Act. We work to balance regulatory requirements while identifying options and assessing their impacts. We have incorporated this process in developing department programs, services and regulatory instruments.

A regulatory requirement is a requirement in a regulatory instrument for a person to take an action in order to:

- access a program of service offered by the government or a government agency;
- carry on business; and
- participate in a regulated activity.

Regulator accountability provides a framework to create a transparent, efficient and effective regulatory system. Red tape reduction aims to remove regulatory requirements that are unclear, overly prescriptive, poorly designed, redundant, contradictory or antiquated. Not all regulatory requirements create red tape.

Regulatory Requirements

* AGRICULTURE AND RESOURCE DEVELOPMENT	Baseline (April 1, 2016)	2016/17 (March 31, 2017)	2017/18 (March 31, 2018)	2018/19 (March 31, 2019)	**2019/20 (March 31, 2020)
Total number of regulatory requirements	27,837	27,700	27,413	27,208	96,049
Net change from the baseline		-137	-424	-629	68,841
% net change		-0.50%	-1.50%	-2.30%	***253.02%

Notes

* The new department was created as part of the October 2019 reorganization, which was an amalgamation of the former department of Agriculture and units from Sustainable Development and Growth, Enterprise and Trade.

** The 2019/20 figure includes changes to regulatory requirements that do not reflect the actual change in regulatory requirements brought about by the department in the fiscal year. Specifically, the reorganization resulted in changes to the departmental structure whereby divisions, related programs, regulatory instruments and their corresponding regulatory requirements previously owned by other departments were transferred to Agriculture and Resource Development. These transfers resulted in an increase of 73,810 in the regulatory requirements count for the new department comprising: 107 (from Conservation and Climate), 19,630 (from former Growth, Enterprise and Trade), 867 (from Justice) and 53,206 (from former Sustainable Development). The former Department of Agriculture's count for the period resulting from its own regulatory activity is 22,335.

*** By comparison with the 2018/19 count of 28,895, the count for 2019/20 of 22,335 (resulting from the former Department of Agriculture's regulatory activities) represents a decrease of 6,560.

For additional information, please see the Manitoba Regulatory Accountability Report at www.manitoba.ca/reducedredtape.

Achievements

The department's major achievements in 2019/20 included:

- The department and the Veterinary Services Commission streamlined the reporting requirements for Veterinary Services Districts on their caseloads. A complicated reporting system that required monthly reporting and collected unnecessary information was replaced with focused reporting collected biannually (reducing 4636 regulatory requirements).
- The forms used to process veterinary diagnostic laboratory testing were updated to speed up and improve processing and better serve clients while reducing the number of regulatory requirements.
- The department created a new award, “The Legacy Farm Award”, to recognize farms in Manitoba that have maintained continuous production for 150 years or more, and updated and modernized the applications for the other awards that recognize farms with longstanding production “The Century Farm Award” (100 years) and “The Heritage Farm Award” (125 years).

Appendix A: Financial Information
Manitoba Agriculture and Resource Development
Expenditure Summary

for the fiscal year ended March 31, 2020 with comparative figures for the previous fiscal year (\$000s)

Estimate 2019/20	Appropriation	Actual 2019/20	Actual 2018/19	Increase/ (Decrease)	Expl. No.
PART A - OPERATING					
03-1 ADMINISTRATION AND FINANCE					
42	(a) Minister's Salary	42	41	1	
	(b) Executive Support				
772	(1) Salaries and Employee Benefits	795	730	65	
80	(2) Other Expenditures	53	74	(21)	
	(c) Financial and Administrative Services				
2,121	(1) Salaries and Employee Benefits	1,643	1,737	(94)	
475	(2) Other Expenditures	247	274	(27)	
	(d) GeoManitoba				
2,527	(1) Salaries and Employee Benefits	2,373	2,295	78	
850	(2) Other Expenditures	696	780	(84)	
(1,601)	(2) Less: Recoverable from other appropriations	(895)	(982)	87	
5,266	Subtotal 03-1	4,954	4,949	5	

Appendix A: Financial Information Manitoba Agriculture and Resource Development Expenditure Summary

for the fiscal year ended March 31, 2020 with comparative figures for the previous fiscal year (\$000s)

Estimate 2019/20	Appropriation	Actual 2019/20	Actual 2018/19	Increase/ (Decrease)	Expl. No.
03-2 POLICY AND TRANSFORMATION					
(a) Policy					
3,224	(1) Salaries and Employee Benefits	2,958	2,828	130	
750	(2) Other Expenditures	409	410	(1)	
1,119	(3) Grant Assistance	1,118	1,115	3	
(b) Transformation					
2,373	(1) Salaries and Employee Benefits	2,252	1,992	260	
616	(2) Other Expenditures	469	427	42	
2,020	(c) Food Development Centre	4,259	2,383	1,876	1
3,000	(d) Grain Innovation Hub	1,542	2,667	(1,125)	2
13,102	Subtotal 03-2	13,007	11,822	1,185	
03-3 RISK MANAGEMENT, CREDIT AND INCOME SUPPORT PROGRAMS					
(a) Manitoba Agricultural Services Corporation					
2,673	(1) Administration and Lending Costs	(3,778)	15	(3,793)	3
50,027	(2) AgriInsurance	48,851	50,915	(2,064)	4
2,817	(3) Wildlife Damage Compensation	4,328	4,054	274	
(b) Agricultural Income Stabilization					
19,142	(1) AgriStability	34,712	26,972	7,740	5
13,178	(2) AgriInvest	12,290	13,192	(902)	
45,698	(c) Farmland School Tax Rebate	44,417	45,513	(1,096)	
133,535	Subtotal 03-3	140,820	140,661	159	

Appendix A: Financial Information

Manitoba Agriculture and Resource Development Expenditure Summary

for the fiscal year ended March 31, 2020 with comparative figures for the previous fiscal year (\$000s)

Estimate 2019/20	Appropriation	Actual 2019/20	Actual 2018/19	Increase/ (Decrease)	Expl. No.
03-4 STEWARDSHIP AND ASSURANCE					
(a) Food Safety and Inspection					
2,702	(1) Salaries and Employee Benefits	2,639	2,540	99	
675	(2) Other Expenditures	550	596	(46)	
(b) Animal Health and Welfare					
5,255	(1) Salaries and Employee Benefits	4,893	4,857	36	
2,820	(2) Other Expenditures	3,328	2,927	401	
11	(3) Grant Assistance	11	11	-	
(c) Agri-Resource					
3,563	(1) Salaries and Employee Benefits	3,272	3,527	(255)	
1,492	(2) Other Expenditures	755	889	(134)	
1,500	(d) Sustainable Agriculture Incentives Program	762	517	245	6
(1,500)	(e) Less recoverable from other appropriations	(762)	(517)	(245)	7
16,518	Subtotal 03-4	15,448	15,347	101	

Appendix A: Financial Information

Manitoba Agriculture and Resource Development Expenditure Summary

for the fiscal year ended March 31, 2020 with comparative figures for the previous fiscal year (\$000s)

Estimate 2019/20	Appropriation	Actual 2019/20	Actual 2018/19	Increase/ (Decrease)	Expl. No.
03-5 PRODUCTION AND ECONOMIC DEVELOPMENT					
(a) Industry Advancement					
3,611	(1) Salaries and Employee Benefits	2,823	3,173	(350)	
1,129	(2) Other Expenditures	714	803	(89)	
671	(3) Grant Assistance	664	658	6	
(b) Primary Agriculture					
5,991	(1) Salaries and Employee Benefits	5,933	5,597	336	
1,022	(2) Other Expenditures	865	999	(134)	
965	(3) Grant Assistance	903	831	72	
(c) Food and Agri-Product Processing					
2,364	(1) Salaries and Employee Benefits	1,954	2,309	(355)	
454	(2) Other Expenditures	252	254	(2)	
225	(3) Grant Assistance	77	75	2	
16,432	Subtotal 03-5	14,185	14,699	(514)	
03-6 COSTS RELATED TO CAPITAL ASSETS					
809	(a) Amortization Expense	629	635	(6)	
284	(b) Interest Expense	231	229	2	
1,093	Subtotal 03-6	860	864	(4)	

Appendix A: Financial Information

Manitoba Agriculture and Resource Development Expenditure Summary

for the fiscal year ended March 31, 2020 with comparative figures for the previous fiscal year (\$000s)

Estimate 2019/20	Appropriation	Actual 2019/20	Actual 2018/19	Increase/ (Decrease)	Expl. No.
03-8 WATER STEWARDSHIP AND BIODIVERSITY					
(a) Divisional Administration					
589	(1) Salaries and Employee Benefits	543	733	(190)	
239	(2) Other Expenditures	260	326	(66)	
7,500	(3) Grant Assistance	7,500	-	7,500	8
(b) Water Science and Watershed Management					
3,375	(1) Salaries and Employee Benefits	3,247	3,343	(96)	
909	(2) Other Expenditures	919	899	20	
-	(3) Grant Assistance	550	-	550	9
(c) Wildlife and Fisheries					
6,782	(1) Salaries and Employee Benefits	6,609	6,620	(11)	
2,339	(2) Other Expenditures	2,302	12,521	(10,219)	10
15,357	(3) Grant Assistance	49,565	356	49,209	11
410	(4) Northern Fisherman's Freight Assistance	410	410	-	
(d) Lands					
1,924	(1) Salaries and Employee Benefits	1,748	1,649	99	
2,581	(2) Other Expenditures	2,745	4,489	(1,744)	12
134	(3) Grant Assistance	51,500	52,100	(600)	
5,312	(e) Conservation District and Watershed Assistance	5,312	5,312	-	
(f) Water Stewardship Initiatives					
(16)	(1) Other Expenditures	13	142	(129)	
579	(2) Grant Assistance	511	629	(118)	

Appendix A: Financial Information

Manitoba Agriculture and Resource Development Expenditure Summary

for the fiscal year ended March 31, 2020 with comparative figures for the previous fiscal year (\$000s)

Estimate 2019/20	Appropriation	Actual 2019/20	Actual 2018/19	Increase/ (Decrease)	Expl. No.
	(g) Forestry and Peatlands				
5,062	(1) Salaries and Employee Benefits	4,849	4,537	312	
3,604	(2) Other Expenditures	3,505	3,550	(45)	
23	(3) Grant Assistance	23	43	(20)	
345	(4) Forest Regeneration Stock	346	345	1	
57,048	Subtotal 03-8	142,457	98,004	44,453	
	03-9 RESOURCE DEVELOPMENT				
	(a) Regulatory Services				
2,603	(1) Salaries and Employee Benefits	2,716	2,832	(116)	
716	(2) Other Expenditures	980	1,293	(313)	
	(b) Land Use and Resource Tenure				
1,027	(1) Salaries and Employee Benefits	866	1,171	(305)	13
665	(2) Other Expenditures	759	734	25	
	(c) Geological Services				
2,363	(1) Salaries and Employee Benefits	2,180	1,485	695	14
2,158	(2) Other Expenditures	1,555	641	914	15
	(d) Boards and Commissions				
31	(1) Salaries and Employee Benefits	19	8	11	
16	(2) Other Expenditures	14	8	6	
9,579	Subtotal 03-9	9,089	8,172	917	
252,573	TOTAL (PART A)	340,820	294,518	46,302	

Appendix A: Financial Information

Manitoba Agriculture and Resource Development Expenditure Summary

for the fiscal year ended March 31, 2020 with comparative figures for the previous fiscal year (\$000s)

Estimate 2019/20	Appropriation	Actual 2019/20	Actual 2018/19	Increase/ (Decrease)	Expl. No.
PART B - CAPITAL INVESTMENT					
3. CAPITAL ASSETS					
500	(a) General Assets	383	426	(43)	
500	TOTAL (PART B)	383	426	(43)	

Appendix A: Financial Information

Manitoba Agriculture and Resource Development Expenditure Summary

for the fiscal year ended March 31, 2020 with comparative figures for the previous fiscal year (\$000s)

Explanations:

1. *The variance is primarily due to funds paid to the Food Development Centre (FDC) for the Agri-Food Research and Development Initiative and Manitoba Model programs, a correcting accounting entry in for a loan issued to FDC partially offset by the Transformation Capital Fund Plant-based Protein Extraction Project in 2018/19.*
2. *The variance is primarily due to delays in finalizing agreements and project approvals.*
3. *The variance is primarily due to a decrease in the specific provision for Emergency Assistance loans caused by a significant decrease in this portfolio, an increase in net interest revenue resulting from higher loan volumes and the sale of leased land, partially offset by an increase in the provision for impaired direct loans caused by an increase in the portfolio size, an increase in the regular loan loss provision, an increase in other costs mainly for young farmer incentive programs and administration costs.*
4. *The variance is primarily due to a change in producer crop mix and a general reduction in premium rates.*
5. *The variance is mainly due to a higher federal projection for 2019/20 partially offset by a decrease in the federal projection for prior years.*
6. *The variance is mainly due to an increase in the applications approved and the timing of the completion of projects.*
7. *The Recoverable from Other Appropriations was established in 2018/19 to provide a recovery of the Sustainable Agriculture Incentives Program from the Made in Manitoba Climate and Green Fund.*
8. *The variance is due to the contribution to the International Peace Gardens Foundation for capital improvements.*
9. *The variance is the result of the Lake Winnipeg Ecological Research Capital Environmental Initiative.*
10. *The variance is primarily due to the establishment of Lake Winnipeg Individual Quota Entitlement (IQE) Buyback Program in 2018/19.*
11. *The variance is mainly due to contributions for Environmental Initiatives to Fish and Wildlife Enhancement Fund, Oak Hammock Marsh Interpretive Centre Endowment and Capital Renewal, Forte Whyte Endowment, Lake Manitoba Fisheries License Buyback and Shared Fish and Wildlife Management. The increase is also due to providing a contribution to the Manitoba Habitat Heritage Corporation Conservation Trust to establish an endowment.*
12. *The variance is primarily due to no longer paying fees to the Crown Land Property Agency.*
13. *The variance is primarily due to vacancies in 2019/20.*
14. *The variance is primarily due to separation allowance and severance pay costs, more STEP students and terms and delays in filling vacant positions in 2018/19.*
15. *The variance is primarily due to the Petrinex and Kodak (Vale) project costs along with increase costs for remote field work.*

Appendix B: Financial Information
Manitoba Agriculture and Resource Development
Reconciliation Statements

Part A - Operating

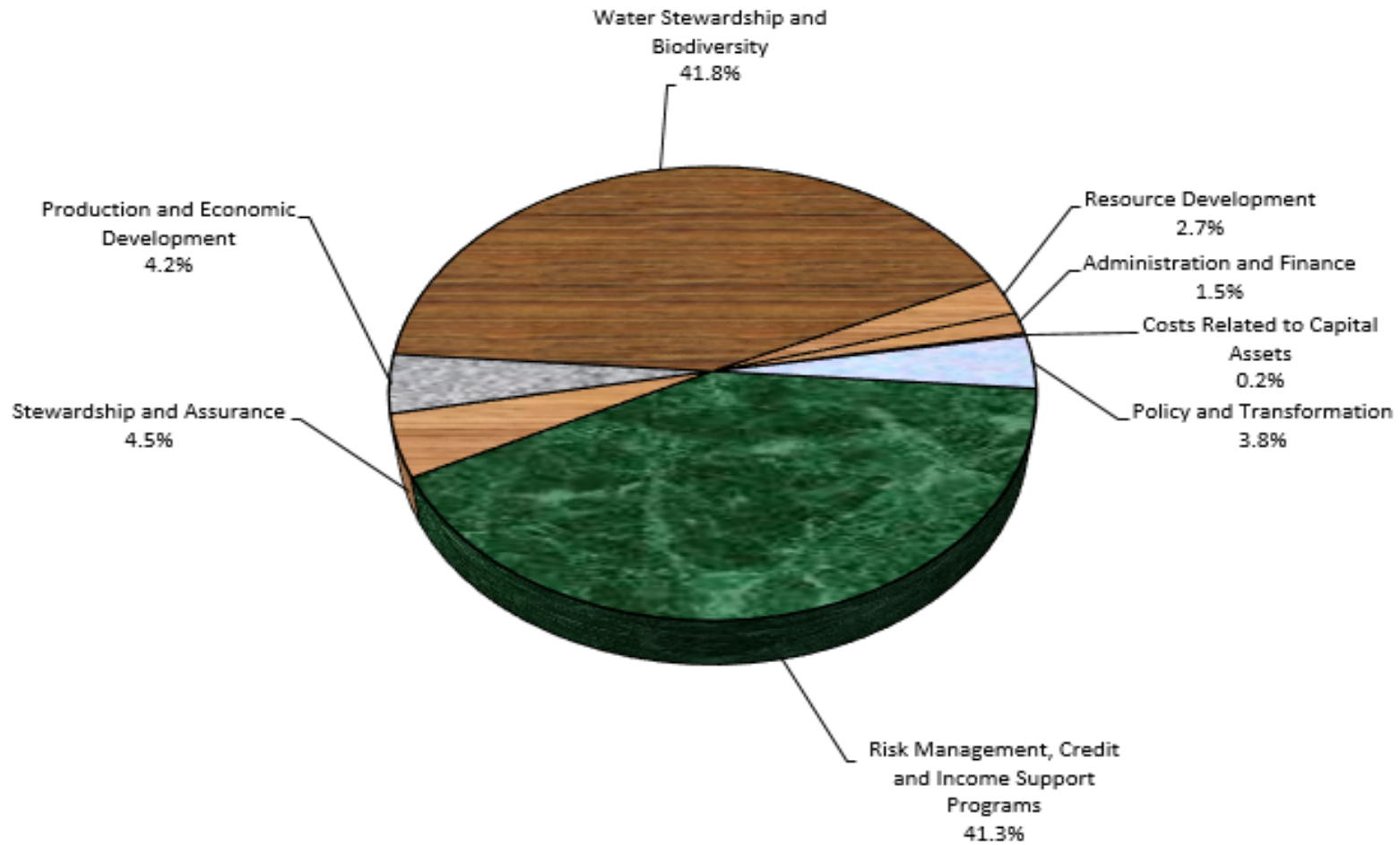
DETAILS	2019/20 ESTIMATES \$(000's)
2019/20 MAIN ESTIMATES - PART A	230,073
Allocation of funds from:	
- Enabling Appropriations	
• Internal Service Adjustments	22,500
2019/20 ESTIMATES	252,573

Part B - Capital Investment

DETAILS	2019/20 ESTIMATES \$(000's)
2019/20 MAIN ESTIMATES - PART B	500
Allocation of funds from:	
- Enabling Appropriations	-
2019/20 ESTIMATES	500

Appendix C: Distribution by Main Appropriation 2019/2020 Actual Expenditures

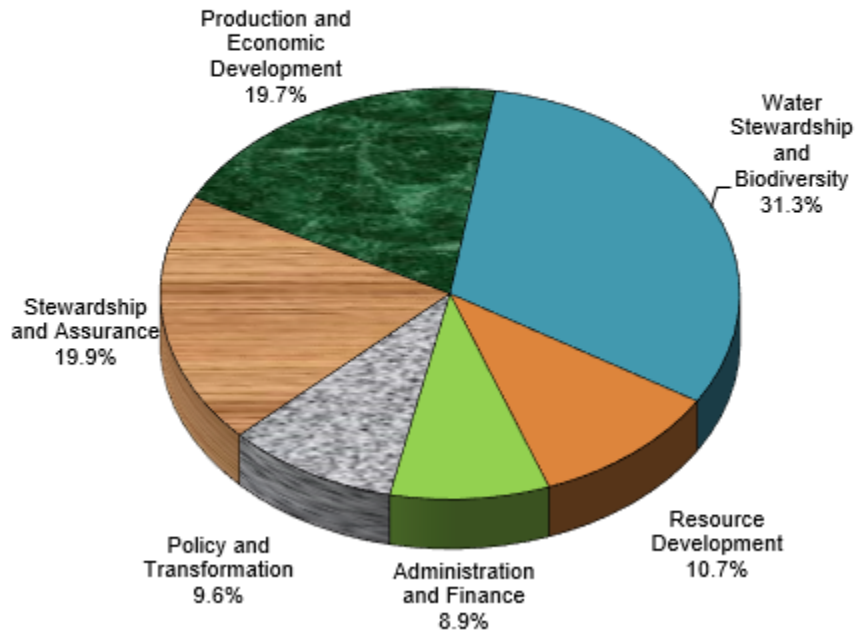
Manitoba Agriculture and Resource Development



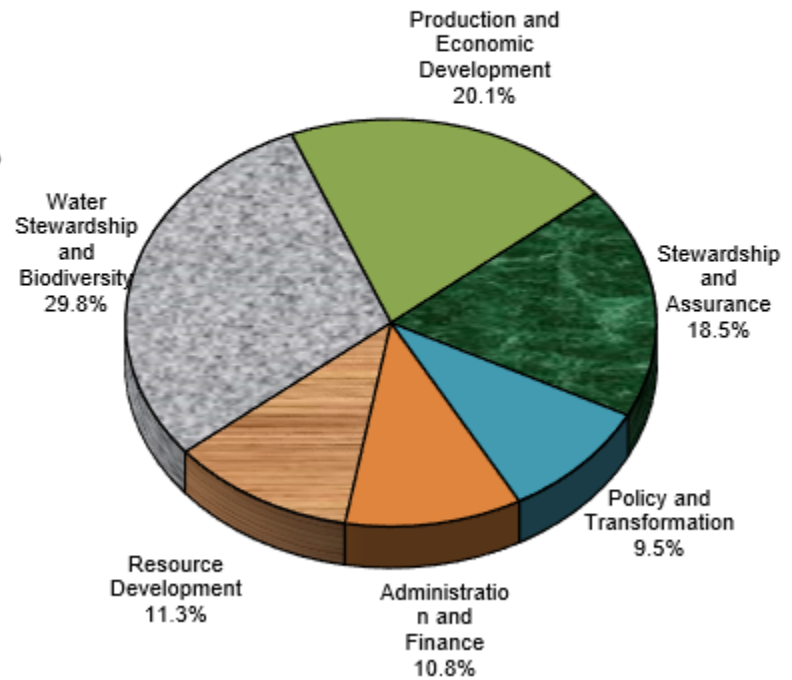
**Appendix D: Percentage Distribution of Salaries & Employee Benefits and Full Time Equivalents
– 2019/2020**

Manitoba Agriculture and Resource Development

Salaries & Benefits



Full Time Equivalents



Appendix E: Revenue Summary

Manitoba Agriculture and Resource Development

Revenue Summary

for the fiscal year ended March 31, 2020 with comparative figures for the previous fiscal year (\$000s)

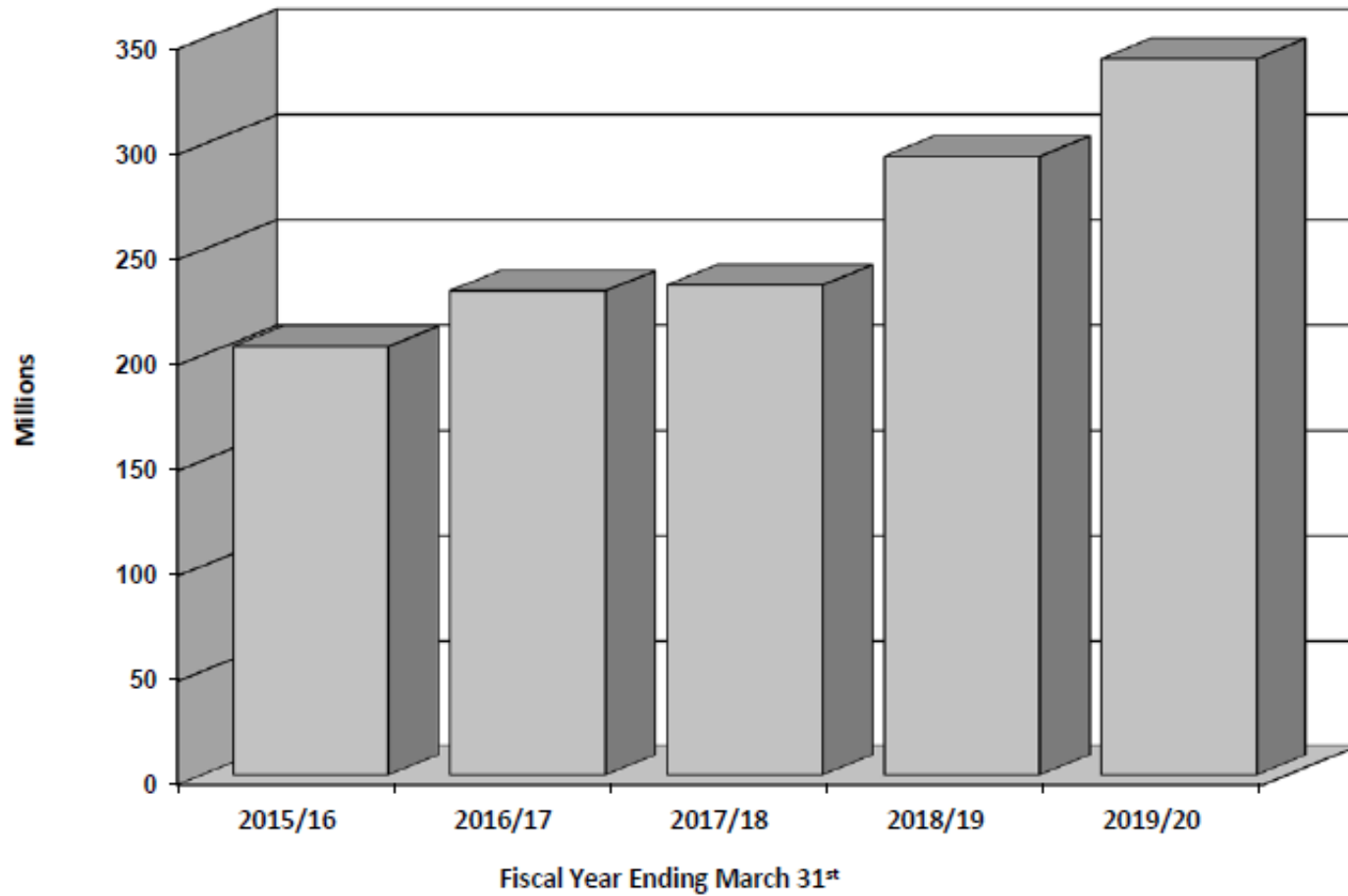
Actual 2019/20	Actual 2018/19	Increase/ (Decrease)	Expl. No.	Source	Actual 2019/20	Estimate 2019/20	Increase/ (Decrease)	Expl. No.
Taxation								
9,104	9,252	(148)		Oil and Natural Gas Tax	9,104	8,035	1,069	5
9,104	9,252	(148)		Sub-Total	9,104	8,035	1,069	
Government of Canada:								
30	30	-		Ecosystem Monitoring Network	30	30	-	
26	27	(1)		Agriculture Income Stabilization Administration Recovery	26	50	(24)	
-	553	(553)	1	CAP - Market and Trade - Org Planning and Workforce Development - Strategic Initiatives (Industry Led)	-	-	-	
-	363	(363)	1	CAP - Value-Added Processing - Capital Investments	-	-	-	
-	20	(20)		Environment and Climate Change Canada Program	-	-	-	
56	993	(937)		Sub-Total	56	80	(24)	
Other Revenue:								
5,590	3,510	2,080	2	(a) Fees	5,590	4,074	1,516	2
3,526	3,403	123		(b) Minerals Royalties and Fees	3,526	4,100	(574)	
13,193	13,315	(122)		(c) Petroleum Royalties and Fees	13,193	10,457	2,736	5
227	288	(61)		(d) Cottageing Initiative	227	732	(505)	6
2,157	2,065	92		(e) Fisheries Fees and Sundry	2,157	2,085	72	
4,191	4,633	(442)		(f) Forestry Fees and Sundry	4,191	4,370	(179)	
293	294	(1)		(g) GeoManitoba Fees and Sundry	293	321	(28)	
2,412	1,435	977	3	(h) Land Information Sales and Fees	2,412	1,962	450	
3,093	3,313	(220)		(i) Wildlife Sundry	3,093	3,414	(321)	
4,348	55	4,293	4	(j) Sundry	4,348	68	4,280	4
39,030	32,311	6,719		Sub-Total	39,030	31,583	7,447	
48,190	42,556	5,634		Total Department Revenue	48,190	39,698	8,492	

Explanations:

1. The decrease is mainly due to a one-time federal support of provincial grants in 2018/19 under the Canadian Agricultural Partnership (CAP) agreement.
2. The increase is primarily due to the implementation of the rental rate review fee change under Agricultural Crown Lands Modernization, increased testing at the Veterinary Diagnostic Lab as a result of the Porcine Epidemic Diarrhea (PED) outbreak in 2019 and increased sale of pesticide and fertilizer licenses.
3. The increase is mainly the result of higher sales of land due to a new initiative in 2019/20 to sell surveyed lots to existing lessees and lower revenue in 2018/19 due to the suspension and review of the Lands Sales program.
4. The increase is primarily due to unused funds being transferred back to the Province in 2019/20 for Agri-Food Research and Development Initiative and Manitoba Model programs from Manitoba Association of Agricultural Societies who administered these programs on our behalf.
5. The increase is due to higher oil prices and production.
6. The decrease is primarily due to less cottage lot availability under the Cottage Program with the less desirable lots remaining resulting in decreased demand.

Appendix F: Five Year Expenditure History for Years Ending March 31, 2016 to March 31, 2020

Manitoba Agriculture and Resource Development



Appendix G: Five Year Expenditure and Staffing Summary by Main Appropriation

Manitoba Agriculture and Resource Development

Five Year Expenditure and Staffing Summary by Main Appropriation

for the fiscal years ending March 31, 2016 to March 31, 2020

Actual / *Adjusted Expenditures										
Main Appropriation	2015/16		2016/17		2017/18		2018/19		2019/20	
	FTEs	\$(000's)	FTEs	\$(000's)	FTEs	\$(000's)	FTEs	\$(000's)	FTEs	\$(000's)
3-1 Administration and Finance	89.00	4,875	88.00	5,120	83.00	4,960	80.00	4,949	73.00	4,954
3-2 Policy and Transformation	67.00	8,491	67.00	10,932	67.00	11,036	66.00	11,822	64.00	13,007
3-3 Risk Management, Credit and Income Support Programs	-	114,010	-	128,876	-	135,252		140,661	-	140,820
3-4 Stewardship and Assurance	132.00	15,190	131.00	14,670	129.00	15,546	129.00	15,347	125.00	15,448
3-5 Production and Economic Development	155.00	15,121	155.00	15,190	150.00	15,015	150.00	14,699	136.00	14,185
3-6 Costs Related to Capital Assets	-	948	-	911	-	862	-	864	-	860
3-8 Water Stewardship and Biodiversity	225.35	35,625	238.35	37,478	212.35	38,494	205.35	98,004	201.35	142,457
3-9 Resource Development	80.10	10,028	80.10	17,464	80.10	12,269	80.10	8,172	76.40	9,089
Total Departmental Appropriations	748.45	204,288	759.45	230,641	721.45	233,434	710.45	294,518	675.75	340,820

* Figures have been adjusted to reflect historical data on a comparable basis during the years under review.

Appendix H: Performance Indicators 2019/20

The following section provides information on key performance measures for the department for the 2019/20 reporting year. All Government of Manitoba departments include performance measures in their Annual Reports to complement the financial results and provide Manitobans with meaningful and useful information about government activities and their impact on the province and its citizens.

The department reports annually on key performance indicators. These measures provide the public with both current snapshots and trends over a set period of time, which would guide the department in providing programs and services.

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
Productivity change in selected crops, cattle and calves and hogs.	Increased productivity over time contributes to competitiveness and profitability of Manitoba agricultural producers as well as increasing food security for Manitobans.	2010-2014 Average Five-year average wheat yield in MB: 44.6 bushels/acre. Five-year average canola yield in MB: 32.4 bushels/acre. Five-year average grain corn yield in MB: 108.9 bushels/acre. Five-year average soybean yield in MB: 32.3 bushels/acre. Five-year average cattle and calves total farm cash receipts (FCR) \$502.2 million.	2015- 2019 Average Five-year average wheat yield in MB: 56.6 bushels/acre. Five-year average canola yield in MB: 41.2 bushels/acre. Five-year average grain corn yield in MB: 121.6 bushels/acre. Five-year average soybean yield in MB: 35.3 bushels/acre. Five-year average cattle and calves FCR \$599.9 million.	The 30-year trends have been toward increased yields for all four grain crops and for livestock. The 30-year trend wheat yield for 2019 is 53.7 bushels/acre. The wheat average yield for 2019 is 59.8 bushels/acre. The 30-year trend canola yield for 2019 is 39.7 bushels/acre. The canola average yield for 2019 is 42.0 bushels/acre. The 30-year trend grain corn yield for	Manitoba has seen record productivity growth for grains over the past three seasons. 2017 set new record yields for many crops, and both canola and wheat had their three highest yields ever in 2017, 2018 and 2019. Soybean and corn yields decreased in 2018 and 2019 after very strong performance in 2015, 2016 and 2017. MB faced challenging harvest conditions in 2019 with record September rainfall

<p>What is being measured and using what indicator? (A)</p>	<p>Why is it important to measure this? (B)</p>	<p>Where are we starting from (baseline measurement)? (C)</p>	<p>What is the 2019/20 result (current year) or most recent available data? (D)</p>	<p>What is the trend over time? (E)</p>	<p>Comments /Recent Actions/Report Links (F)</p>
		<p>Five-year average hogs total FCR \$960.9 million.</p>	<p>Five-year average hogs FCR \$1,033.7 million.</p>	<p>2019 is 123.8 bushels/acre. The grain corn average yield for 2019 is 109.7 bushels/acre.</p> <p>The 20-year trend soybean yield for 2019 is 36.6 bushels/acre. The soybean average yield for 2019 is 29.2 bushels/acre.</p> <p>The 30-year trend for cattle and calves FCR is \$607.5 million for 2018. Cattle and calves FCR for 2019 is \$588.2 million.</p> <p>The 30-year trend for hogs FCR is \$1,162.4 million for 2019. Hogs FCR for 2019 is \$1,086.6 million.</p>	<p>across much of the province coupled with an early October snowstorm.</p> <p>Farm Cash Receipts were a record high for cattle and calves in Manitoba in 2015, followed by the second highest amount in 2014. The 2019 cattle and calves FCRs were below the 30-year trend and the most recent five-year average, but higher than the 2017 level. This increase in cattle and calves FCRs over 2017 was supported by increased marketing, caused by poor pastures and tight feed supplies.</p> <p>Hog FCRs were a record high in 2014 followed by the second highest amount in 2017. Hog FCRs were higher in 2019 than in 2018 due</p>

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
					to both higher prices and marketing.
Producer action to identify and mitigate environmental risks in their farm operation.	Recognizing environmental risks and setting out a plan of action to mitigate risks is an important indicator of the capacity to produce in a sustainable manner.	2005/06 – 3,400 people attended workshops. 2005/06 – 1,317 EMPs completed.	2019/20 - 309 producers attended 33 workshops. 2019/20 - 143 EMP's were completed (69 new and 74 returning with a total of 319,004 acres assessed).	Producers continue to return to the program to renew their EFPs as needed. Historically, BMP cost share funding has been the major driver of producer interest in the EFP and continues to be.	Approximately 7,500 EFPs have been completed, assessing more than 10.2 million acres of MB farmland. EFPs require updating every five years. A shift towards inclusion of sustainable sourcing concepts and national alignment of the EFP has added value and marketing opportunities for producers (Roquette for peas and Simplot/McCain's for potatoes). Other commodities are moving towards this model as well (Dairy). In March 2020, the development of an online EFP was initiated.
The size and impact of the food and	Total value of agrifood processing is an	2010-2014 Average	2015-2019 Average	The food and beverage	Food manufacturing is a highly productive

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
beverage manufacturing sector in Manitoba.	indicator of the additional value extracted from Manitoba-produced commodities. Additional processing in Manitoba (versus shipping raw commodities) creates jobs and additional wealth.	Five-year average sales value: \$4.4 billion.	Five-year average sales value: \$4.7 billion.	<p>manufacturing sales have grown an average of 2 per cent annually over the last ten years.</p> <p>The rate of growth in the Manitoba food processing sector was stable in 2010 and 2011. The industry sales declined from \$4.4 billion in 2011 to \$4.1 billion in 2012. In 2013, the sales started to grow again reaching \$4.6 billion and declined slightly between 2014 and 2015. However, the sales values bounced back since 2016, registering a record level sales value of \$5 billion in 2019.</p>	<p>sector. Manitoba exported \$1.2 billion worth of processed agrifood products in 2019, down 3 per cent from 2018.</p> <p>Over the past three years, there has been \$1.9 billion dollars in investment in Manitoba's agriprocessing sector.</p> <p>The opening of \$100 million Manitoba Dairy Ingredients (MDI) processing plant in Winnipeg, the \$460 million expansion project at Simplot potato processing plant near Portage la Prairie, the \$150 million expansion at the HyLife pork-processing plant in Neepawa, and the opening of a federally inspected Country Meat and Sausage facility in Blumenort will continue to</p>

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
					<p>improve the food manufacturing sector's output. The addition of a new pea processing plant in Portage la Prairie, (Roquette), Merit Functional Food in Winnipeg and new feed processing mills will also significantly contribute to the sector's output growth in the future. Meat processing is expected to keep its lead over the near term.</p> <p>Global demand and popularity of healthy, local, organic and functional foods is an ongoing opportunity for Manitoba food processors. Manitoba has a great potential to become a leader in North America in the growth of a protein-focused industry. Lower-cost foreign suppliers are a threat to Manitoba and</p>

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
					Canadian processors in the world food market.
<p>The size and impact of the bioproducts sector in Manitoba. Value of annual sales of agriproduct processing.</p>	<p>Total value of agriproduct processing is an indicator of the additional value extracted from Manitoba-produced commodities. Additional processing in Manitoba (versus shipping raw commodities) creates jobs and additional wealth.</p>	<p>2014 total revenue for agriproducts: \$275.4 million.</p>	<p>2016 total revenue for agriproducts: \$228 million.</p>	<p>The agriproducts sector, including biofuels and biomaterials, is relatively stable, with potential for growth as result of increasing awareness of environmental challenges for non-renewable products.</p> <p>A 2018 industry survey commissioned by the Bioscience Association of Manitoba (BAM) reported close to \$400 million in revenue for Manitoba's clean tech sector, encompassing agriproducts and environmental services.</p>	<p>The 2014 total revenue for agriproducts was calculated using data from an industry survey conducted by BAM for the life sciences industry in Manitoba (AgriBiotech, Bio Energy and Bio Industrial).</p> <p>The 2016 total revenue was estimated from an industry survey led by the department.</p> <p>No industry survey was done in 2019/20.</p>
<p>Success in turning government support into commercial</p>	<p>Investments in research by government are aimed</p>	<p>In 2014/15 the department continued support for FDC with</p>	<p>Continued support for FDC with funding of more than \$2 million</p>	<p>The centre has expanded capacity in ingredient</p>	<p>The team at FDC enables food entrepreneurs and</p>

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
products and improvements.	at seeing new or improved products developed that contribute to farm profitability, new products, competitiveness and additional economic activity.	funding of more than \$2 million for agrifood innovation, development and commercialization: <ul style="list-style-type: none"> • Eight new products were developed in the pilot plant. • 32 new food product and ingredient prototypes were created. • 330 nutrition labels for food products created. • 18 HACCP plans were developed, two as consultations for external clients. • Total approved GF2 investments in innovation were \$35.79 million in 2014/15 with total GF2 approved funding for all programs being more than \$87.8 million to date for the agreement. 	for agrifood innovation, development and commercialization: <ul style="list-style-type: none"> • FDC created 28 new food product and ingredient prototypes, produced five new products in the pilot plant. • FDC has a variety of ongoing plant and animal protein ingredient trials with 15 companies; of the products being tested for their protein potential, seven are sourced from co-streams or waste streams. • 422 nutrition labels for food products created. • FDC advanced food safety practices for the production of safe food through 17 contracts with 14 Manitoba food companies. In 2019/20, 16 projects were approved under	development with a focus on protein extraction and co-product evaluation, and maintained capacity in food product development, innovation, ingredient applications and food regulatory consulting.	food companies to incorporate the best available science and industrial best practices in developing, testing and manufacturing their food products FDC is a key asset for Manitoba Agriculture and Resource Development and will be instrumental in achieving the Minister's Mandate and Department's strategic goals, including: <ul style="list-style-type: none"> • Growth of small and medium sized agriprocessing businesses; • Retention and attraction of large agriprocessors to increase investment, trade and jobs in Manitoba; • Advancing the development and

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
			R&I amounting to \$2.5 million with total CAP-Ag Action Manitoba approved funding for all programs being \$19.4 million.		deployment of the Manitoba Protein Advantage Strategy
The number of jobs by sector	The number of jobs is an indicator of a sector's ability to drive economic development	<p>2009-2013 Average</p> <p>Five-year average employment in primary agriculture: 25,900 jobs.</p> <p>Five-year average employment in food and beverage processing sector: 13,000 jobs.</p> <p>Five-year average employment in resource production: 4,200 jobs.</p> <p>Five-year average employment in resource processing sector: 7,800 jobs.</p>	<p>2014-2018 Average</p> <p>Five-year average employment in primary agriculture: 24,300 jobs</p> <p>Five-year average employment in food and beverage Processing sector: 12,300 jobs.</p> <p>Five-year average employment in resource production: 4,700 jobs.</p> <p>Five-year average employment in resource processing sector: 7,300 jobs.</p>	<p>The number of jobs in primary production has decreased by 1.0 per cent every year over the last ten years, mainly due to farm consolidations and advancement in agricultural technologies, both of which leading to fewer people in the agricultural sector.</p> <p>The employment in the food and beverage processing sector has increased by 2.2 per cent every year since 2006.</p> <p>The number of jobs in resource production has increased by 3.8 per cent every year</p>	

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
				over the past ten years. Employment in the resource processing sector has decreased by 1.4 per cent every year since 2009.	
Water quality in Manitoba, by assessing water quality data using the CCME Water Quality Index.	It is important to measure water quality because we want to protect drinking water, fish and other aquatic life, recreation, and other important water uses.	Water quality has been tested at many rivers, streams and lakes since the early 1970's. The Water Quality Index has been calculated for 36 stations since 1992.	The latest data available is for 2019. Within the Prairie Eco-zone, the CCME Water Quality Index Value was 76 or of "fair" quality. Within the Boreal Plains, the CCME Water Quality Index Value was 84 or of "good" quality. Within the Boreal Shield Eco-zone, the CCME Water Quality Index Value was 99 or of "excellent" quality.	The Water Quality Index in Manitoba has generally been stable since 1992.	Work is underway to protect, maintain and improve water quality in Manitoba including measures to reduce nutrient loading to waterways. For example, the department is encouraging innovative water and wastewater technologies to improve water quality; implementing nutrient standards for wastewater, and promoting the reduction of nutrient loading via personal and collective action. The department is also working with upstream jurisdictions to protect, maintain

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
					and where necessary, improve, the quality of water flowing into Manitoba.
The status of fish stocks on larger commercial fisheries is being assessed through the implementation and analysis of index-netting programs that support updated fishery management plans.	It is important to measure the status of fish stocks because they are an indicator of both aquatic ecosystem health and economic opportunity for fishers	The baseline used for management purposes will be the lake specific year of implementation of modern index-netting approaches and/or the development of a modern management plan.	<p>Cedar Lake Fish stock status is stable. Collaborative stock monitoring has been implemented.</p> <p>Lake Manitoba Following introduction of 3.75 minimum mesh size Walleye production has increased and Sauger are showing the first signs of population recovery.</p> <p>Lake Winnipeg The Walleye population remains under stress due to low growth rates and late maturities. The Sauger population remains far below potential and is considered to have collapsed.</p>	<p>Cedar Lake Fish production has been stable for the past 10 years.</p> <p>Lake Manitoba Following decades of falling production, Walleye production has increased and Sauger are showing the first signs of population recovery.</p> <p>Lake Winnipeg Walleye landings have decreased following the smelt die off in 2012/2013. Lake Whitefish landings have increased. Sauger landings continue to decline.</p>	<p>Cedar Lake The department is implementing a new fishery management plan for Cedar Lake, in co-operation with Cedar Lake fishers.</p> <p>Lake Manitoba The department is working to develop a new fisheries management plan for this waterbody.</p> <p>Lake Winnipeg The department conducted a limited quota buy-back program in spring 2019 to better align quota with estimated sustainable yield for the fishery.</p> <p>Lake Winnipegosis The department is working to develop</p>

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
					and implement a new fisheries management plan and modern index netting program.
Number of watercraft inspected for aquatic invasive species (AIS).	<p>Demonstrates the number of watercraft that are being strategically intercepted and inspected for AIS.</p> <p>Each inspection is an opportunity to:</p> <ul style="list-style-type: none"> • Educate watercraft owners about AIS; • Inform them about the legal requirements surrounding AIS; • Intercept watercraft that are either carrying, or deemed to be a high risk for carrying, an AIS. These watercraft are then decontaminated stopping the potential to spread AIS to another water body. 	Baseline: Summer 2011 151 watercraft inspections were conducted.	During the 2019 open water season, 18,349 inspections were conducted across the province.	<p>The number of inspections increased significantly since 2011. Prior to the introduction of zebra mussels into Lake Winnipeg, watercraft inspections were limited to a single team of two summer students operating at high traffic border crossings on weekends.</p> <p>Since then, the program expanded and now employs 21 staff operating at 6 stations throughout the province. Operating hours were increased in 2019 which resulted in an increased number of inspections compared to 2017</p>	

<p>What is being measured and using what indicator? (A)</p>	<p>Why is it important to measure this? (B)</p>	<p>Where are we starting from (baseline measurement)? (C)</p>	<p>What is the 2019/20 result (current year) or most recent available data? (D)</p>	<p>What is the trend over time? (E)</p>	<p>Comments /Recent Actions/Report Links (F)</p>
				<p>(9,889) and 2018 (12,865) respectively.</p> <p>The numbers for 2020 are expected to be similar or slightly less than 2019 due to slight staffing delays and decreased boater traffic due to COVID-19.</p> <p>In subsequent years, if the program continues to operate with the same number of stations and staff, the number of inspections is expected to remain similar to 2019.</p>	
<p>Compliance with AIS legislation, specifically with removing drain plugs when transporting watercraft overland and stopping at mandatory watercraft inspection stations.</p>	<p>This metric demonstrates awareness of the aquatic invasive species legislation and shows the percentage of boaters that are following the law and doing their part to prevent the spread of AIS.</p>	<p>The AIS legislation came into force November 2015. Therefore, these metrics were first measured during the 2016 open water season. In 2016, 67 per cent of boaters were compliant with the drain plug</p>	<p>In 2019, drain plug compliance increased to 93 per cent and stopping compliance increased to 88 per cent.</p>	<p>Compliance rates are expected to increase over time as more people become aware of the legal requirements.</p> <p>Additionally, in 2018 set fines were introduced for ticket able offences under</p>	

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
		provision and 66 per cent of boaters were compliant with stopping at the mandatory inspection stations.		the AIS legislation which could be responsible for some of the increase in compliance.	
Number of Wildlife Big Game Health samples tested for disease	Healthy big game populations are important to First Nations, Metis, licensed hunters and the general public for both consumptive and non-consumptive uses. Healthy big game populations are indicators of healthy ecosystems.	Starting in the early 2000s, Manitoba started monitoring cervids (deer, elk, and moose) for specific diseases (initially bTB). The province continues to sample cervids in an effort to monitor the status of diseases currently known to exist and monitor for diseases that are potentially entering the province (e.g., Chronic Wasting Disease).	In 2019-20, the department sampled 85 elk, 770 white-tailed deer, 15 moose and 10 mule deer.	The number of samples vary by Game Hunting Area and Disease Surveillance Zones. The sampling goal is 300+ samples to have statistically confidence in findings.	
Number of problem predators removed through the Problem Predator Removal Program to help reduce losses for livestock producers or ensure human safety	Some individual predators can have a significant negative economic impact for livestock producers.	Historically, there have always been some livestock lost to predators. Manitoba and Canada have provided a level of compensation for these losses. Based on an agreement with	Manitoba Trappers Association actioned 14 livestock producer service requests and removed 43 coyotes, three wolves and three fox.	Service requests vary annually. Financial limitations during 2019-20 resulted in a pause in programming and impacted (reduced) the number of service requests.	Department is exploring improvements to the program.

What is being measured and using what indicator? (A)	Why is it important to measure this? (B)	Where are we starting from (baseline measurement)? (C)	What is the 2019/20 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
		<p>the province, Manitoba Trappers Association provides trapping expertise requested by livestock producers with a confirmed loss from a problem predator.</p>			
<p>Big Game population monitoring efforts conducted to estimate changes in big game population trend.</p>	<p>The department manages wildlife populations for the benefit of all Manitobans. Healthy big game populations are important to First Nations, Metis, licensed hunters and the general public for both consumptive and non-consumptive uses. Healthy big game populations are indicators of healthy ecosystems.</p>	<p>Manitoba's big game populations vary in size over time due to a variety of factors, including hunting pressure, predators, disease, habitat quality and quantity, and climatic factors. The department attempts to monitor changes in big game populations within financial and staffing constraints.</p>	<p>The department was able to conducted aerial moose population surveys in Game Hunting Areas 18, 18A-C (Duck Mountain), 13, 13A (Porcupine Mountain) and 26 (Pinawa/Bissett area) in 2019-20.</p>	<p>Monitoring efforts will continue, but will be constrained by financial and staffing limitations. Trend shows moose populations are being maintained or slightly increasing, but slower than expected.</p>	<p>Monitoring efforts will evolve as new technology and techniques are developed.</p>

Appendix I: The Public Interest Disclosure (Whistleblower Protection) Act

The Public Interest Disclosure (Whistleblower Protection) Act came into effect in April 2007. This law gives employees a clear process for disclosing concerns about significant and serious matters (wrongdoing) in the Manitoba public service, and strengthens protection from reprisal. The act builds on protections already in place under other statutes, as well as collective bargaining rights, policies, practices and processes in the Manitoba public service.

Wrongdoing under the act may be: contravention of federal or provincial legislation; an act or omission that endangers public safety, public health or the environment; gross mismanagement; or knowingly directing or counseling a person to commit a wrongdoing. The act is not intended to deal with routine operational or administrative matters.

A disclosure made by an employee in good faith, in accordance with the act, and with a reasonable belief that wrongdoing has been, or is about to be, committed is considered to be a disclosure under the act, whether or not the subject matter constitutes wrongdoing. All disclosures receive careful and thorough review to determine if action is required under the act, and must be reported in a department's annual report in accordance with Section 18 of the act.

The following is a summary of disclosures received by Manitoba Agriculture and Resource Development and Food Development Centre for fiscal year 2019/2020.

Information Required Annually (per section 18 of The Act)	Fiscal Year 2019/ 2020
The number of disclosures received, and the number acted on and not acted on. Subsection 18(2)(a)	NIL
The number of investigations commenced as a result of a disclosure. Subsection 18 (2)(b)	NIL
In the case of an investigation that results in a finding of wrongdoing, a description of the wrongdoing and any recommendations or corrective actions taken in relation to the wrongdoing, or the reasons why no corrective action was taken. Subsection 18 (2)(c)	NIL

Appendix J: The Farm Machinery and Equipment Act Fund

Section 55(8) of The Farm Machinery and Equipment Act directs that a financial statement of the Farm Machinery and Equipment Fund should be prepared and included in the annual report of the department. Section 11 of the regulations to the Act states the fiscal year of the fund is January 1 to December 31 of each year.

For more information on the Act please visit
<http://web2.gov.mb.ca/laws/statutes/ccsm/f040e.php>

The Farm Machinery and Equipment Act Fund
Statement of Account
(Unaudited)
For the Year Ended December 31, 2019

	2019	2018
Balance, beginning of year	\$560,821.57	\$553,669.75
Interest earned	\$9,726.76	\$7,151.82
Deposits	-	-
Claims and disbursements	-	-
Change during the year	<u>\$9,726.76</u>	<u>\$7,151.82</u>
Balance, end of year	<u><u>\$570,548.33</u></u>	<u><u>\$560,821.57</u></u>

Appendix K: Acronyms Listing

4H	4-H
AAFC	Agriculture and Agri-Food Canada
ABC	Agencies, Boards and Commission
ACAB	Animal Care Appeal Board
ACC	Assiniboine Community College
ACL	Agricultural Crown Lands
AGOL	ArcGISOnline
AI	Avian Influenza
AICC	Aboriginal Issues Committee of Cabinet
AIMIS	Animal Intelligence Market Information Systems
AIS	Aquatic Invasive Species
AITC	Agriculture in the Classroom
ALUS	Alternative Land Use Services
AMLS	Association of Manitoba Land Surveyors
AMM	Association of Manitoba Municipalities
ATR	Addition To Reserve
ASF	African Swine Fever
BMP	Beneficial Management Practices
BRM	Business Risk Management
BSE	Bovine Spongiform Encephalopathy (Mad Cow Disease)
bTB	Bovine Tuberculosis
BU	Brandon University
CAMA	Canadian Agri-Marketing Association
CAMP	Coordinated Aquatic Monitoring Program
CAP	Canadian Agricultural Partnership
CCKFEP	Commercial Community Kitchen-Food Enterprise Program
CCOG	Canadian Council on Geomatics
CCWG	Climate Change Working Group
CDs	Conservation Districts (now renamed Watershed Districts)
CDC	Conservation Data Centre
CETA	Canada-Europe Trade Agreement
CFIA	Canadian Food Inspection Agency
CFS	Canadian Forest Service
CFTA	Canadian Free Trade Agreement
CIRP	Certificate of Indigenous Relations Program
CKPI	Canadian Kraft Paper Industries
CLIP	Crown Lands Improvement Program
CLPA	Crown Lands and Property Agency
CMCDC	Canada Manitoba Crop Diversification Centre
COs	Conservation Officers
COOL	Country of Origin Labelling
COPA	Canadian Oilseed Processors Association
CPC	Canadian Pork Council
CPP	Community Pasture Program

CPTPP	Comprehensive and Progressive Trans-Pacific Partnership
CRB	Crop Residue Burning
CSGA	Canadian Seed Growers Association
CUSMA	Canada-United States-Mexico Agreement
CWD	Chronic Wasting Disease
DED	Dutch Elm Disease
DFA	Disaster Financial Assistance
DFM	Dairy Farmers of Manitoba
DSSAE	Decision Support System for Animal Emergencies
EA	Enterprise Agreement
EAB	Emerald Ash Borer
EDB	Estimates Debate Book
EFP	Environmental Farm Plan
EG&S	Ecological Goods and Services
EMILI	Enterprise Machine Intelligence Learning Initiative
EMO	Emergency Measures Organization
EOC	Emergency Operations Centre
ESS	Expanded Soil Survey Program
FBM	Food and Beverage Manitoba
FDC	Food Development Centre
FFA	Farm and Food Awareness Week
FFMC	Freshwater Fish Marketing Corporation
FHB	Fusarium Head Blight
FIC	Fur Institute of Canada
FML	Forest Management Licence
FMP	Forest Management Plan
FMU	Forest Management Unit
FPT	Federal/Provincial/Territorial
FSTR	Farmland School Tax Rebate
FTG	Free to Grow
FWEF	Fish and Wildlife Enhancement Fund
GEM	Geo-mapping for Energy and Minerals
GF2	Growing Forward 2
GHA	Game Hunting Area
GHG	Greenhouse Gas
GIH	Grain Innovation Hub
GIS	Geographic Information Systems
GMFF	Great Manitoba Food Fight
GPS	Global Positioning System
GROW	Growing Outcomes in Watersheds
GSC	Geological Survey of Canada
GTOM	Great Tastes of Manitoba
HBI	House Book Issues
HCFP	Heritage/Century Farm Program
IICFI	Inland Indigenous Commercial Fisheries Institute
IJC	International Joint Commission

IQE	Individual Quota Entitlement
ISI	Innovation Super cluster Initiative
KAP	Keystone Agricultural Producers
KPPA	Keystone Potato Producers Association
LACS	Legislative Agricultural Chairs Summit
LiDAR	Light Detection and Ranging
LMMMR	Livestock Manure and Mortality Management Regulation
LP	Louisiana-Pacific
LSI	Livestock Sustainability Initiative
LURT	Land Use and Resource Tenure
LWRC	Lake Winnipeg Research Consortium
MAAS	Manitoba Association of Agricultural Societies
MAHF	Manitoba Agriculture Hall of Fame
MARC	Manure Application Rate Calculator
MARIC	Manitoba Agricultural Research and Innovation Council
MASC	Manitoba Agricultural Services Corporation
MAW	Manitoba Association of Watersheds
MBESP	Manitoba Biomass Energy Support Program
MBFI	Manitoba Beef & Forage Initiatives
MBP	Manitoba Beef Producers
MCP	Manitoba Chicken Producers
MCVET	Manitoba Crop Variety Evaluation
MDIP	Manitoba Drilling Incentive Program
MEF	Manitoba Egg Farmers
MFGA	Manitoba Flax Growers Association
MFIB	Manitoba Farm Industry Board
MFPMC	Manitoba Farm Products Marketing Council
MFSA	Manitoba Forage Seed Association
MFWC	Manitoba Farm Women's Conference
MGS	Manitoba Geological Survey
MHHC	Manitoba Habitat Heritage Corporation
MHLS	Manitoba Hay Listing Service
MHRC	Manitoba Horse Racing Commission
MKO	Manitoba Keewatinowi Okimakanak (MKO) Inc
MLC	Midwestern Legislators Conference
MMF	Manitoba Metis Federation
MPAP	Manitoba Prospectors Assistance Program
MPAS	Manitoba Protein Advantage Strategy
MPC	Manitoba Pork Council
MPRC	Milk Prices Review Commission
MSA	Manitoba Sheep Association
MWI	Manitoba Women's Institute
NFI	National Forest Inventory
NHFI	Northern Healthy Foods Initiative
NWA	Noxious Weeds Act
NWPTA	New West Partnership Trade Agreement

OFD	Open Farm Day
OPT	Out of Province Travel
PAMI	Prairie Agricultural Machinery Institute
PEDv	Porcine Epidemic Diarrhea virus
PEM	Provincial Exhibition of Manitoba
PMRA	Pest Management Regulatory Agency
PIC	Protein Industries Canada
PID	Premises Identification
PMP	Peatland Management Plan
PMLP	Pesticides and Manure Licensing Program
PSPs	Permanent Sample Plots
RACC	Regulatory Accountability Committee of Cabinet
RDD	Resource Development Division
RESD	Real Estate Services Division
RMEA	Riding Mountain Eradication Area
RMWF	Royal Manitoba Winter Fair
RRX	Red River Exhibition Association
RTR	Red Tape Reduction
SAR	Species at Risk
SARL	State Agriculture and Rural Leaders
SCO	Southern Chiefs' Organization
SDI	Spatial Data Infrastructure
SILR	Supplementary Information for Legislative Review
SRB	Surface Rights Board
SWL	Softwood Lumber
TGI	Targeted Geoscience Initiative
TLE	Treaty Land Entitlement
TWF	The Winnipeg Foundation
UAVs	Unmanned Aerial Vehicles
UofM	University of Manitoba
UofS	University of Saskatchewan
UofW	University of Winnipeg
VSC	Veterinary Services Commission
VSD	Veterinary Services District
WCDPA	Waterfowl Crop Damage Prevention Agreement
WCI	Water Craft Inspection
WEI	Wildlife Enhancement Initiatives
WFB	Wildlife and Fisheries Branch
WLPIP	Western Livestock Price Insurance Program
WMA	Wildlife Management Area