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ANNUAL REPORT
RAPPORT ANNUEL

Manitoba Agriculture and
Resource Development

Agriculture et Développement
des ressources Manitoba

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 0V8

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, 2021.

Respectfully submitted,

Original Signed by

Honourable Ralph Eichler
Minister of Agriculture and Resource Development





MINISTER OF AGRICULTURE AND RESOURCE DEVELOPMENT

Room 165
Legislative Building
Winnipeg, Manitoba CANADA

Son Honneur l'honorable Janice Filmon, C.M., O.M.
Lieutenant-gouverneure du Manitoba
Palais législatif, bureau 235
Winnipeg (Manitoba) R3C 0V8

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 2021.

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

Original signé par

Monsieur Ralph Eichler
Ministre de l'Agriculture et du Développement des ressources



Deputy Minister's Office
Room 159, Legislative Building
Winnipeg, MB R3C 0V8
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Honourable Ralph Eichler
Minister of Agriculture and Resource Development
Province of Manitoba

Sir,

I am pleased to present the 2020/21 Annual Report of the Department of Agriculture and Resource Development for the fiscal year ending March 31, 2021.

Our department has experienced tremendous change over the past year, from introducing a new integrated department and restructured service delivery model to navigating through a global pandemic. We remain focused on the synergies of a single ministry and a unified approach to the management and development of agriculture and natural resources here in Manitoba.

In 2020/21 examples of our support include the Canadian Agricultural Partnership (CAP) – Ag Action Manitoba program approving over \$24M for farmers, agriprocessors, industry organizations, researchers and industry service providers to undertake initiatives that advance profitability, competitiveness and innovation in our agriculture and agriprocessing sector and the Quarry Rehabilitation Program provided \$5M to rehabilitate depleted quarries and pits in support of responsible development.

In support of transforming our work and culture, our department developed a balanced scorecard. This tool will ensure we focus on the most critical measures to help ensure improved economic, environmental and social outcomes for Manitobans. Our department strives to improve service delivery continuously to accelerate job creation, investments, and economic development and growth.

The work we do remains vital in addressing industry adversity and public trust. Over the past year, we have demonstrated innovation, adaptability, and resiliency during challenging times and committed to providing the 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



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Monsieur Ralph Eichler
Ministre de l'Agriculture et du Développement des ressources
Province du Manitoba

Monsieur le Ministre,

J'ai l'honneur de vous présenter le rapport annuel 2020-2021 du ministère de l'Agriculture et du Développement des ressources pour l'exercice terminé le 31 mars 2021.

Le dernier exercice a été marqué par d'énormes changements, dont la création d'un nouveau ministère intégré, la restructuration du modèle de prestation de services et l'adaptation à une pandémie mondiale. Nous gardons le cap sur les synergies offertes par un seul ministère et par une approche unifiée de la gestion et du développement de l'agriculture et des ressources naturelles au Manitoba.

En 2020-2021, notre soutien a pris entre autres la forme du Partenariat canadien pour l'agriculture – Ag Action Manitoba, qui a approuvé l'octroi de plus de 24 M\$ à des agriculteurs, transformateurs, organismes de l'industrie, chercheurs et fournisseurs de services pour l'industrie, afin de leur permettre de prendre des initiatives favorisant la rentabilité, la compétitivité et l'innovation dans notre secteur agricole et agroalimentaire, et du Programme de remise en état des carrières, qui a consacré 5 M\$ pour remettre en état des carrières et des sablières épuisées et soutenir le développement responsable.

Notre ministère a établi un tableau de bord équilibré en appui à la transformation de notre travail et de notre culture. Cet outil nous permettra de nous concentrer sur les mesures les plus importantes afin d'obtenir de meilleurs résultats économiques, environnementaux et sociaux pour les Manitobains. Notre ministère s'efforce d'améliorer constamment la prestation du service afin d'accélérer la création d'emplois, les investissements et le développement et la croissance de l'économie.

Notre travail demeure vital pour surmonter les difficultés qu'éprouve l'industrie et maintenir la confiance du public. Au cours du dernier exercice, nous avons fait preuve d'innovation, d'adaptabilité et de résilience en traversant une période difficile et nous nous sommes engagés à fournir les programmes et les services qui consolident notre position au service des parties prenantes pour le bien de tous les Manitobains.

Je vous prie d'agréer, Monsieur le Ministre, l'expression de mon profond respect.

Original signé par

Dori Gingera-Beauchemin
Sous-ministre de l'Agriculture et du Développement des ressources



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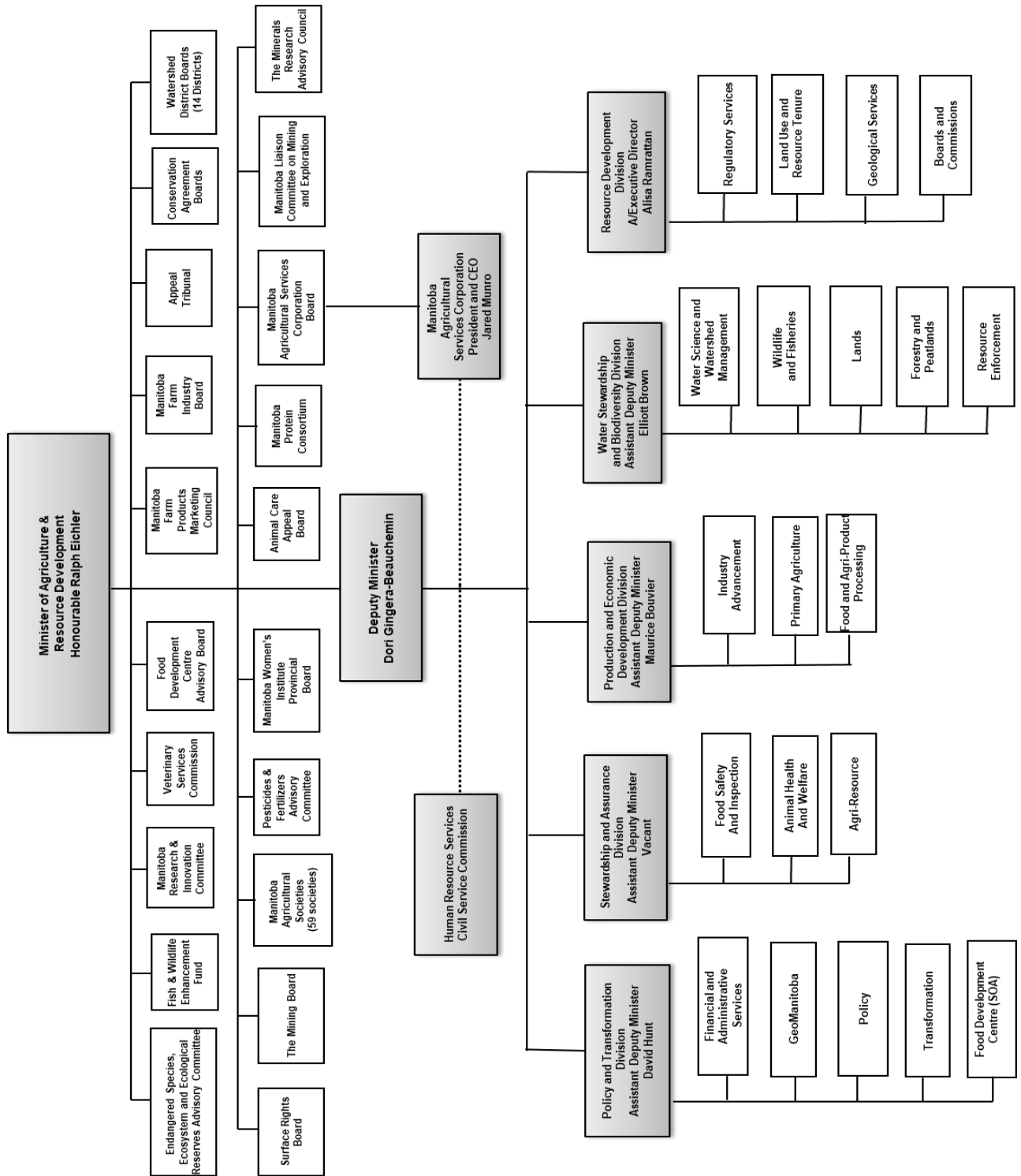
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ORGANIZATION CHART

Manitoba Agriculture and Resource Development
 (This organization chart depicts the structure of the department as of March 31, 2021)



PREFACE

Report Structure

This Annual Report provides information on the department's objectives, results achieved, financial performance and variances for the 2020/21 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. 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:

- Fostering investment, job creation and economic development
- Advancing reconciliation

- Protecting our people, animals, plants, and natural resources
- Enhancing resilience of Manitoba's agriculture and natural resource sectors
- Fostering and advance innovation
- Reducing red tape
- Engaging stakeholders in decision making
- Improving transparency
- Caring for the needs of our clients
- Building our capacity to deliver
- Advancing inclusion
- Strengthening respect in our workplaces
- Providing value for money
- Increasing accountability
- Balancing the budget
- Reducing operation costs

2020/21 Highlights

The department pivoted to provide services essential to Manitobans and the agriculture and natural resource sectors through multiple service channels such as online and curbside services during the **COVID-19 pandemic**. We also provided ongoing support to Manitoba's response to the pandemic. Activities included interacting with stakeholders, providing regular industry updates, coordinating pandemic supplies, compiling lessons learned, developing PPE guidelines and supports, and reallocating resources to support central COVID initiatives. The department conducted 20,940 COVID-19 compliant watercraft inspections, and implemented 10 applications to support Manitoba's COVID-19 efforts, including Vaccine Shot Finder, and Testing and Contact Tracing Dashboard to ensure Manitobans are well informed in fighting the pandemic.

The department worked with public health officials to develop a guide for resource companies and prospectors for health precautions at camps and facilities. Extensions for the Double-Assessment Credits, mining claims and exploration licenses were granted to help mining exploration companies through these challenging economic times. A variety of changes were introduced to assist outfitters in maintaining their business during border closures due to COVID-19 and to provide assistance post pandemic.

The department continued to work remotely with several **First Nations** across the Province to develop **Mineral Development Protocols for Crown Indigenous Consultation**. The department also supported the department of Economic Development and Jobs and the Manitoba Chamber of Commerce in the launch of the **Manitoba Mineral Development Fund (MMDF)**, a new \$20 million investment fund that provides grants in support of mineral development that included economic and training and development partnership opportunities for several First Nations.

As part of the shared management mandate, the department worked with local First Nations and Metis to gather perspectives on how to share the opportunity to hunt a sustainable number of moose in the Duck and Porcupine Mountains.

The **Canadian Agricultural Partnership (CAP) Ag Action Manitoba**, a five-year agreement between Canada and Manitoba supported activities contributing to a sustainable, profitable, competitive and innovative agriculture and agriprocessing sector. The program supported 45 companies through Capital Assets and Equipment projects totaling \$9.54 million in project support, leveraging \$150.6 million in private sector capital and creating 320 jobs.

The department collaborated with the **Manitoba Protein Consortium** to champion a global Sustainable Protein Challenge Dialogue. We engaged 85 stakeholders and worked with a Sustainable Protein Design Team of 17 industry leaders from Canada (Manitoba, Ontario and Saskatchewan), the Netherlands and Bulgaria to prioritize strategic actions and identify opportunities by creating the **Sustainable Protein Action Plan for Manitoba**. This Action Plan will position Manitoba as a global leader in sustainable protein and attract new investments from protein companies interested in expanding operations to North America.

The department continues on the path to grow the **agriprocessing sector** in the province. The **Food Development Centre (FDC)** created 26 new products from Manitoba commodities, and supported 15 companies in processing and utilizing protein-based food ingredients.

The first online **Agriculture Crown Land (ACL)** lease auction process was developed and implemented. The department allocated 118 forage leases, four renewable permits and two cropping leases.

The **Manitoba Drilling Incentive Program (MDIP)** was extended to continue encouraging investment in the sustainable development of Manitoba's petroleum resources.

The department supported the development of the **Public Health Amendment Act** to modernize food safety legislation and pursue outcome-based regulations to reduce red tape and create closer alignment with **Safe Food for Canadian Act**. To mitigate the risk of COVID-19 in food processing establishments and abattoirs, guidance documents were developed and webinars were delivered to industry. These initiatives enabled supply chain continuity and business contingency efforts. We implemented an expedited process for COVID-19 testing for essential food processing employees and inspection staff. The department entered into an agreement with the **Canadian Food Inspection Agency (CFIA)** to share inspection resources and ensure continued operation of abattoirs.

The department played a pivotal role in the development of the **Western Canadian Animal Health Network (WeCAHN)**. WeCAHN has established a beef, dairy and poultry network, generating and sharing quarterly reports on integrated surveillance information for clinical surveys and laboratory data. We hosted a virtual **Crop Diagnostic School**, attended by 276 participants to continue advancing industry knowledge and skills on assessing crop health.

Manitoba's **Online Environmental Farm Plan** (EFP) Program in partnership with Keystone Agricultural Producers (KAP) development phase is underway. The EFP program delivered workshops virtually to 501 producers resulting in issuance of 226 Statements of Completion covering 649,189 acres.

The department provided \$5.47 million in grants to 14 **Watershed Districts** to support operations and programming in water quality, surface water management, drinking water protection, water retention, soil conservation, wildlife habitat and public education programs, promoting improvements to watershed health and resiliency.

The Peatlands Stewardship Act was fully proclaimed, providing greater opportunities to involve multiple First Nations communities on the future of peat harvesting activities in Manitoba. The finalized **Boreal Wetlands Conservation Codes of Practice** were released, as part of the **Made-in-Manitoba Climate and Green Plan**.

The department led implementation of the **Manitoba Drought Management Strategy** across government, including provision of up-to-date drought information to residents, stakeholders and government on current drought conditions and available drought-related programming.

A new **Conservation Officer Internship Program** (COI) was implemented which hired officers that received instructional training in firearms, defensive tactics, and emergency driving with extended on-the-job training under mentoring officers.

We launched a multi-phase "Engaging Manitobans on our Agri-Food industry" **public engagement** project, with 686 responses received to help identify public perceptions and concerns about the agri-food system in relation to the COVID-19 pandemic.

The department supported the development of **Manitoba youth** through creation of a \$1 million endowment with the Brandon and Area Community Foundation to provide over \$42,000 in scholarships per year through the **4-H Manitoba Leaders of Tomorrow Endowment Scholarship Program**. The **Alexander Cherban Agriculture Industry Development Program** was launched to support **public trust** in agriculture and awareness of career opportunities. The program is administered by the Manitoba 4-H Council Inc.

The commemorative naming of 7,764 geographical features to honour Manitoba's fallen soldiers who served in the First World War was completed. The mapped geographic name data is made publically available on the **Manitoba Land Initiative** website and reflected in the Canadian Geographical Names Database.

The department developed its **balanced scorecard** (BSC), and continued cascading to the division and branch level. Department senior leadership completed BSC training, with efforts to build BSC awareness at all levels continue.

To foster a culture of innovation, 37 projects were submitted through the department's

Bright Ideas Program. The department also submitted six **Idea Fund** proposals in 2020/21 to modernize public service delivery and improve efficiencies. We continue to look for opportunities to serve Manitobans better.

PRÉFACE

Structure du rapport

Le présent rapport annuel fournit des renseignements sur les objectifs du Ministère, les résultats atteints, les résultats financiers et les écarts pour l'exercice 2020-2021, et contient 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. 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 à 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, à l'expérience et au 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, à la croissance et à 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. Parmi nos objectifs, citons :

- favoriser l'investissement, la création d'emplois et le développement économique;
- faire progresser la réconciliation;
- protéger nos gens, nos animaux, nos plantes et nos ressources naturelles;
- améliorer la résilience des industries de l'agriculture et des ressources naturelles du Manitoba;
- favoriser et promouvoir l'innovation;
- réduire les formalités administratives;
- faire participer les intervenants aux prises de décision;
- améliorer la transparence;
- se soucier des besoins de nos clients;
- renforcer notre capacité d'exécution;
- favoriser l'inclusion;
- renforcer le respect dans nos milieux de travail;
- dépenser judicieusement;
- accroître la responsabilité;
- équilibrer le budget;
- réduire les coûts d'exploitation.

Points saillants en 2020-2021

Pendant la **pandémie de COVID-19**, le Ministère s'est adapté afin d'offrir des services essentiels aux Manitobains et aux industries de l'agriculture et des ressources naturelles selon différents modes de prestation, comme les services en ligne et les services de cueillette à l'extérieur. Nous avons également soutenu continuellement la réponse du Manitoba à la pandémie. Voici certaines de nos activités : interactions avec les intervenants, nouvelles régulières de l'industrie, coordination des fournitures pour la lutte contre la pandémie, compilation des leçons apprises, conception de mesures de soutien et de lignes directrices sur l'équipement de protection individuelle, et réaffectation des ressources pour appuyer les initiatives centrales axées sur la COVID-19. Le Ministère a réalisé 20 940 inspections de bateaux dans le contexte de la COVID-19 et mis en œuvre 10 applications en appui de la lutte contre le virus, notamment l'outil Trouver une clinique de vaccination contre la COVID-19 et le tableau de bord sur les tests de dépistage et la recherche des contacts, pour tenir les Manitobains informés pendant la crise.

Le Ministère a collaboré avec des responsables de la santé publique à l'élaboration d'un guide à l'intention des entreprises et des prospecteurs de l'industrie des ressources sur les mesures de sécurité à prendre dans les camps et les installations. Des prolongations aux crédits de travail d'évaluation doublés, aux claims miniers et aux permis d'exploration ont été accordées pour aider les entreprises d'exploration minière en cette période

économique difficile. Une variété de changements a été apportée pour soutenir les pourvoies pendant la fermeture des frontières en raison de la COVID-19 et leur offrir une aide après la pandémie.

Le Ministère a continué de travailler à distance avec différentes **Premières Nations** partout dans la province afin d'élaborer des **protocoles de développement minier régissant la consultation Couronne-Autochtones**. Il a également aidé le ministère du Développement économique et de l'Emploi et les Manitoba Chambers of Commerce à lancer le **Fonds de mise en valeur des ressources minières du Manitoba**, un nouveau fonds d'investissement de 20 millions de dollars qui offre des subventions à l'appui de la mise en valeur des ressources minières, ainsi que des possibilités de développement économique, de formation et de partenariat avec de nombreuses Premières Nations.

Conformément à son mandat de gestion partagée, le Ministère a consulté des Premières Nations et des Métis locaux afin de déterminer la manière de répartir de manière viable les possibilités de chasse à l'original sur les monts Duck et Porcupine.

Le **Partenariat canadien pour l'agriculture** du **programme Ag Action Manitoba**, une entente de cinq ans entre le Canada et le Manitoba, a financé des activités qui accroissent la durabilité, la rentabilité, la compétitivité et l'innovation de l'industrie agricole et agroalimentaire. Le programme a financé des projets d'immobilisations et d'équipements de 45 entreprises, pour un total de 9,54 millions de dollars. Ce financement aura attiré 150,6 millions de dollars en fonds du secteur privé et créé 320 emplois.

Le Ministère a collaboré avec le **Consortium des protéines du Manitoba** pour organiser une discussion multilatérale sur la production de protéines durables. Nous avons mobilisé 85 intervenants et travaillé avec une équipe de conception de la production de protéines durables, composée de 17 chefs de file de l'industrie du Canada (Manitoba, Ontario et Saskatchewan), des Pays-Bas et de la Bulgarie afin d'organiser des mesures stratégiques et des possibilités dans un **plan d'action sur la production de protéines durables pour le Manitoba**. Ce plan d'action fera du Manitoba un chef de file mondial dans la production de protéines durables et attirera de nouveaux investissements d'entreprises de produits de protéines qui désirent prendre racine en Amérique du Nord.

Le Ministère poursuit sa quête pour développer l'**industrie agroalimentaire** dans la province. Le **Centre de développement de produits alimentaires** a créé 26 nouveaux produits à partir de denrées du Manitoba et a aidé 15 entreprises à intégrer la transformation et l'utilisation d'ingrédients à base de protéines.

La première vente aux enchères de baux visant des **terres domaniales agricoles** a été organisée et lancée. Le Ministère a octroyé 118 baux à fourrage, 4 permis renouvelables et 2 baux de culture.

Le **Programme d'encouragement au forage du Manitoba** a été prolongé pour encourager d'autres investissements dans le développement durable des hydrocarbures au Manitoba.

Le Ministère a appuyé l'élaboration de la **Loi modifiant la Loi sur la santé publique**, visant à moderniser la loi sur la salubrité des aliments et à instaurer une réglementation axée sur les résultats de sorte à réduire les formalités administratives et à rapprocher les dispositions de celles de la **Loi sur la salubrité des aliments au Canada**. Des documents d'orientation ont été élaborés et des webinaires ont été offerts à l'industrie afin d'atténuer les risques associés à la COVID-19 dans les établissements de transformation des aliments et les abattoirs. Ces initiatives ont favorisé la continuité de la chaîne d'approvisionnement et appuyé les plans d'urgence des entreprises. Nous avons mis en œuvre un processus de dépistage accéléré de la COVID-19 pour les employés de la transformation des aliments et le personnel d'inspection. Le Ministère a conclu une entente avec l'**Agence canadienne d'inspection des aliments (ACIA)** pour partager les ressources d'inspection et veiller à la continuité des activités des abattoirs.

Le Ministère a joué un rôle déterminant dans le développement du réseau **Western Canadian Animal Health Network (WeCAHN)**. WeCAHN a créé un réseau bovin, avicole et laitier, qui génère et diffuse des rapports trimestriels sur la surveillance intégrée à l'appui des enquêtes cliniques et des données de laboratoire. Nous avons organisé une **école de diagnostic des cultures** en ligne avec 276 participants afin de parfaire les connaissances et les compétences de l'industrie relatives à l'évaluation de la santé des cultures.

La phase de développement du **Programme de planification environnementale à la ferme** en ligne, en partenariat avec Keystone Agricultural Producers, est en cours. Le Programme a donné des ateliers virtuels à 501 producteurs et, par ricochet, émis 226 énoncés de conformité, pour un total de 649 189 acres.

Le Ministère a octroyé 5,47 millions de dollars de subventions à 14 **districts hydrographiques** pour soutenir leurs activités et leurs programmes relatifs à la qualité de l'eau, à la gestion de l'eau de surface, à la protection de l'eau potable, à la rétention de l'eau, à la conservation des sols, aux habitats fauniques et à l'éducation du public, qui visent le renforcement de la santé et de la résilience des bassins hydrographiques.

La **Loi sur la gestion des tourbières** a été intégralement proclamée, multipliant les occasions de collaboration avec des communautés des Premières Nations à l'avenir des activités d'exploitation tourbière au Manitoba. La version définitive des **codes de pratiques de conservation des terres humides de la région boréale** a été publiée dans le cadre du **Plan vert et climatique du Manitoba**.

Le Ministère a chapeauté la mise en œuvre de la **Stratégie de gestion de la sécheresse du Manitoba** dans l'ensemble du gouvernement et en a profité pour fournir des renseignements à jour aux résidents, aux intervenants et au gouvernement sur les conditions de sécheresse et les programmes de prévention offerts.

Un nouveau **programme de stages pour les agents de conservation** a été mis en place pour offrir aux agents une formation aux armes à feu, aux tactiques défensives et à la conduite de véhicules d'urgence, ainsi qu'une formation supervisée prolongée en

cours d'emploi.

Nous avons lancé la **consultation publique** « Intérêt de la population manitobaine à l'égard de l'industrie agroalimentaire de la province » en plusieurs phases et avons reçu 686 réponses sur la perception et les perspectives du public concernant le système agroalimentaire dans le contexte de la pandémie de COVID-19.

En appui du perfectionnement des **jeunes manitobains**, le Ministère a créé un fonds de dotation d'un million de dollars au sein de la Brandon and Area Community Foundation. Ce fonds vise à fournir plus de 42 000 \$ de bourses d'études par an par l'entremise du **programme de dotation de bourses d'études 4-H pour les leaders de demain**. Sous l'égide du Conseil des 4-H du Manitoba, le **Alexander Cherban Agriculture Industry Development Program** a été lancé afin de susciter la **confiance du public** envers l'agriculture et de faire connaître les perspectives de carrière.

La désignation de 7 764 caractéristiques géographiques en hommage aux soldats manitobains morts au combat pendant la Première Guerre mondiale a été achevée. La carte des données toponymiques est disponible sur le site de la **Manitoba Land Initiative**, et les noms ont été ajoutés à la Base de données toponymiques du Canada.

Le Ministère a élaboré son **tableau de bord équilibré** et a poursuivi la mise en œuvre au niveau des divisions et des directions générales. Les cadres supérieurs du Ministère ont suivi la formation sur le tableau de bord équilibré, et la sensibilisation sur cet outil se poursuit à tous les niveaux.

Trente-sept projets ont été soumis au **programme des idées brillantes** (« Bright Ideas Program ») du Ministère afin de promouvoir une culture d'innovation. Le Ministère a présenté six propositions du **Fonds des idées** en 2020-2021 en vue de moderniser la prestation de services et de réaliser des gains en efficacité. Nous avons continué de chercher des possibilités de mieux servir la population manitobaine.

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 Conservation Agreements Act
The Conservation Officers Act
The Crown Lands Act

[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 (formerly *The Endangered Species 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 Fishermen's Assistance and Polluter's Liability Act
The Food Safety Act
The Forest Act
The Forest Health Protection Act
The Fruit and Vegetable Sales Act
The Groundwater and Water Well 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 Manitoba Habitat Heritage Corporation Act (repealed in February 2021)
The Manitoba Natural Resources Transfer Act (1929)
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 Polar Bear Protection 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 (repealed in March 2021)
The Veterinary Services Act
The Water Protection Act
The Water Resources Conservation Act (formerly The Water Resources Conservation and Protection 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
 OIC 192/2016 as amended by 251/2016, 293/2016, 227/2017, 232/2018, and 344/2018, 319/20

**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 2020/21 \$(000s)	Authority 2020/21 FTEs	Variance Over/(Under) \$(000s)	Expl. No.
(1) 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 ministry's policies and programs.
- Provide policy direction for integration into planning and resource allocation.

ACTUAL RESULTS

- Allocated and utilized departmental resources in line with government policies and priorities; and the Minister's Mandate.

1 (b) Executive Support

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21 \$(000s)	2020/21 FTEs	2020/21 \$(000s)	Over/(Under) \$(000s)	
(1) Salaries and Employee Benefits	759	9.00	777	(18)	
(2) Other Expenditures	59	-	80	(21)	
Total Sub-Appropriation	818	9.00	857	(39)	

COMPTROLLERSHIP SUPPORT SERVICES

DIVISION MANDATE

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

FINANCIAL AND ADMINISTRATIVE SERVICES – 1C

MANDATE

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

ACTIVITIES

- Analyze and consolidate ministry reporting to ensure information is accurate and supports decision-making, monitoring and accountability.
- Provide training to branch staff on balanced scorecard (BSC) in preparation for roll out.
- Continuous improvement of processes and systems to ensure efficient and effective financial management, resource planning and monitoring to ensure funds and resources are allocated to departmental/government priorities.
- Support the Departmental Audit Committee in managing risk as part of its annual internal audit planning and manage effective monitoring processes to ensure implementation of audits and reviews recommendations in a timely manner.
- Continuous improvement of policies and procedures using change management principles to ensure staff have easy access to up to date tools and resources necessary to perform their jobs.
- Engage staff at all levels to build comptrollership capacity across department and provide financial reporting to managers and directors on a regular basis.
- Lead the department's efforts in achieving a diverse and inclusive workplace.
- Manage and co-ordinate administrative processes such as accommodations, inventory, business continuity, Freedom of Information and Protection of Privacy (FIPPA) responses, requirements under The Accessibility for Manitobans Act, fleet vehicles, procurement and parking.
- Maximize use of technology to enhance analytical capabilities and reporting capacity to provide accurate, reliable and timely financial and program information for decision-making purposes.
- Enhance partnerships with other departments for greater efficiency and effectiveness in areas of common interest.

ACTUAL RESULTS

- Supported decision making and management oversight and control with accurate, timely and comprehensive reporting for the Ministry.
- Equipped staff with BSC training to support the Ministry with the financial components of the scorecard process.
- Led the Ministry through the estimates process ensuring resources are allocated to achieve departmental and government priorities.
- Managed and adapted administrative processes in an effective and transparent manner, to support a remote work environment ensuring departmental and government needs were met.
- Established a Shared Service Agreement with Conservation & Climate, mapping out areas of supportive collaboration across operational, financial and leadership functions.
- Developed and revised workflow processes and internal controls in response to increased staff remote work due to COVID-19, including providing department-wide leadership of electronic approvals.

1 (c) Financial and Administrative Services

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,383	47.50	3,319	(936)	1
(2) Other Expenditures	209	-	527	(318)	2
Total Sub-Appropriation	2,592	47.50	3,846	(1,254)	

1. *The variance is primarily due to vacancies and voluntary reduced workweek savings partially offset by severance/vacation pay costs.*
2. *The variance is primarily due to expenditure management measures, lower costs due to vacancies and reduced travel and other activities due to COVID-19.*

GEOMANITOBA – 1D

MANDATE

GeoManitoba is responsible for the stewardship and evolution of Manitoba's shared geospatial technology and information assets and is comprised of three main business areas.

ACTIVITIES

- Undertake legal land surveys for government departments and agencies on a cost recovery basis, examine and approve plans of surveys of Crown land for sale, lease or easement, establish and maintain a network of survey monuments throughout Manitoba.
- Continue to engage with departments to develop an infrastructure and governance model to integrate Manitoba's mapping data into one system.
- Engage with departments and external stakeholders to implement aerial imagery and elevation data acquisition programs, and investigate cost sharing partnership opportunities.
- Create land use/land cover mapping information for Manitoba and evaluate new technologies to enhance provincial data.
- Provide mapping products, charts and aerial photography through a public sales counter, e-commerce website, and to wholesale dealers located throughout Manitoba, Ontario and the United States.
- Maintain the Manitoba Land Initiative (MLI) online portal for mapping data and information, provide GIS data development, project management, and services to departments, assist in creation of standard GIS software packages for users, and manage an enterprise agreement (EA) for GIS software.
- Responsible for the development, implementation and management of the Manitoba Geoportal to store, manage and disseminate government's core mapping information.

ACTUAL RESULTS

- Responded to and addressed 87 requests for legal land survey services, including surveys and plans (43), survey instructions and requests (20), quarry lease descriptions and area confirmations (13), petroleum lease descriptions and area confirmations (4), departmental land clearance certificate (4) and geospatial information requests (3), in addition to ongoing projects started prior to 2020/21. Major projects include Leaf Rapids Initiative, Gimli Harbour, and St. Mary's Interchange.
- Supported data processing workflows, boundary areas, Light Detection and Ranging (LiDAR) imagery acquisition through GIS project teams. Continued supporting MLI website with over 2,000 individual datasets, including its accompanying internal repository and theme manager application.
- Completed internal mapping applications for cottage inspections, land use inspections, and Crown land survey. Continued support for ongoing internal mapping projects such as Water Services Board, FireSmart sprinkler mapping,

Night Hunting Permit System, Manitoba Emergency Command Centre, Game Hunting, Health Protection Unit, West Nile Virus mapping, Sustainable Development Building Inventory, and Waste Water Treatment Facilities. Mapped Woodland Caribou Habitat in Manitoba in collaboration with the Wildlife, Fisheries and Resource Enforcement branch and Manitoba Model Forest.

- Digitized 175 negatives (rolls) of historic aerial imagery for the Manitoba Air Photo Digital Library.
- Implemented a public-facing open data portal DataMB hosting 70 datasets and 50 applications. Developed and released seven sets of online interactive mapping applications to the public, including Livestock Manure and Mortalities Management (LMMMR), Manitoba Municipal Burning Restrictions, WW1 Commemorative Names, Clean Beaches application, Integrated Mining and Quarrying System (iMaQs) Geological Applications, Personal Care Homes, and Lake Information for Anglers.
- Implemented ten applications to support Manitoba’s COVID-19 efforts, including COVID-19 Vaccine Distribution Network, COVID-19 Statistics Dashboard, Variant of Concern Dashboard, Enforcement Dashboard, Outbreaks Dashboard, Vaccine Shot Finder Application, Vaccine Shot Inventory Survey, Testing and Contact Tracing Dashboard, First Nations Vaccine Status Dashboard and Education Status Dashboard.
- Continued developing corporate GIS standards including metadata standards, a publishing protocol and French language requirements for public-facing GIS data and files. Supported over 750 government GIS users through GIS toolkit on the MBGPS intranet; GIS software packaging, deployment and troubleshooting; and creating, deleting and transferring of ArcGIS Online (AGOL) accounts and data. Developed SharePoint forms to streamline account requests.

1 (d) GeoManitoba

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,083	33.00	2,529	(446)	
(2) Other Expenditures	468	-	839	(371)	1
Subtotal before Recoveries	2,551		3,368	(817)	
(3) Other Expenditures	(807)	-	(1,601)	794	2
Recoveries Total	(807)		(1,601)	794	
Total Sub-Appropriation	1,744	33.00	1,767	(23)	

1. The variance is primarily due to expenditure management measures, lower costs due to vacancies and reduced travel and other activities due to COVID-19.
2. The variance is primarily due to vacancies and decreased demand for mapping products and delays in projects.

POLICY AND TRANSFORMATION DIVISION - 2

DIVISION MANDATE

Leads policy and program development and delivery that fosters an environment for competitiveness, adaptability and sustainability of Manitoba's agriculture and natural resource sectors.

POLICY – 2A

MANDATE

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

ACTIVITIES

- Lead the department's efforts to identify and reduce red tape.
- Provide policy advice on trade, infrastructure, financial support programs, disaster response programs, intergovernmental relations, reconciliation and other activities to improve the agriculture economy.
- Review the Manitoba Farm Industry Board and Farm Lands Ownership Act focusing on farmlands and farm machinery.
- Provide support to the Manitoba Agriculture Research and Innovation Committee, (MARIC) and Manitoba Crop Variety Evaluation Trials (MCVET).
- Continuously improve grants administration process to focus on the client.
- Working with FPT governments, review and develop business risk management programs to ensure that they are responsive and flexible in managing risks related to farming and African swine fever.
- Streamline food safety legislation.
- Review legislation related to on-farm trespassing.
- Develop a branch BSC.
- Train staff in policy analysis best practices.

ACTUAL RESULTS

- Facilitated a reduction of 728 regulatory requirements or 0.7% of regulatory requirements from the previous year.
- Engaged 59 stakeholders through the use of Engage MB forums on topics related to the Next Policy Framework program areas, including: BRM, Resiliency, innovation and market development.
- Engaged 27 industry participants in a 90-minute virtual Go-To Webinar event to further explore BRM programming options.
- Hosted a focus group session in the Peguis First Nation Community to discuss Indigenous youth perceptions of the agricultural industry and seek a better understanding of the community's vision for local food models and economic development.

- Led the modernization of the Farm Lands Ownership Act, Family Farm Protection Act and the Farm Machinery and Equipment Act by streamlining services and licensing requirements via the Reducing Red Tape and Improving Services Act 2021.
- Provided financial and technical resources to MARIC and the MCVET committees. MARIC reviewed 37 research proposals for the Ag Action MB Research and Innovation program to make funding recommendations to the Minister, and hosted a consultation with researchers on research priorities. With department support, MCVET developed the Seed Manitoba 2021 guide, providing producers, agronomists, and industry with fair and accurate third party varietal performance information relevant to Manitoba growing conditions.
- Reviewed the AgriStability program to support industry demands for timely, predictable and simple programs. Analysis considered implications of removing the Reference Margin Limit.
- Reintroduced amendments to the Public Health Act (Bill 36) to establish a duty to serve safe food, expand powers to seize unsafe food, clarify inspection powers and expand regulation-making powers for starting and operating a food establishment. Bill 36 received 1st reading on October 14, 2020 and second reading on March 25, 2021.
- Participated in the Strategic Policy Workshop through Dalhousie University Executive Education in January 2021. Two managers attended, with coursework focused on developing fundamental knowledge and skills to strengthen senior policy capacity within the department and across the Manitoba government.

2 (a) Policy

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,800	37.00	3,443	(643)	1
(2) Other Expenditures	323	-	639	(316)	2
(3) Grant Assistance	1,155	-	1,165	(10)	
Total Sub-Appropriation	4,278	37.00	5,247	(969)	

1. The variance is primarily due to vacancies and voluntary reduced workweek savings partially offset by severance/vacation pay costs.
2. The variance is primarily due to expenditure management measures, lower costs due to vacancies and reduced travel and other activities due to COVID-19.

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

- Support department strategic management systems; implement BSC; lead advancements of the Transformation Strategy; and facilitate bright ideas and continuous improvement to promote a culture of innovation.
- Implement communication strategies including website and intranet integration; provide ministerial/executive communication services including correspondence and speech preparation; and implement French Language Service Plan initiatives and accessibility recommendations.
- Redesign a leadership development program to meet the current management needs of the department, and implement the Employee Engagement Strategy.
- Serve as a point of contact for industry intelligence and market research analysis for agriculture and resources; assess and produce data, analytics, and insights relevant to the agriculture and resource industries; collaborate with stakeholder to enhance market data and intelligence on production, inter-provincial and international trade, financials, markets, and benchmarking, to support the development and implementation of sector strategies (e.g., Manitoba Protein Advantage, Feed Grain, and Cannabis and Edibles strategies), and to increase competitiveness of agriculture and resource industries.
- Standardize economic analysis methodologies; develop evidence-based performance indicators (e.g., ROI) for major research and commercialization projects through collaboration with stakeholders; and report on the socio-economic performance and progress of agriculture and resource industries
- Explore and expand the department's data management and data analytics capacities to meet the emerging needs to focus on the clients.
- Develop and maintain Information Technology solutions and assets to sustain and improve department operations and clients experience of digital services.
- Lead the development and delivery of the emergency management program.
- Advance the agriculture sector public trust strategy, adopt Engage MB portal for public engagement, and collaborate with stakeholders to build public trust capacity to sustain consumer confidence in our food production system.

ACTUAL RESULTS

- Developed the department BSC and commenced cascading at division level. Facilitated the completion of BSC training by all senior leadership, and increased BSC awareness with managers and staff through providing training and making additional materials available. Developed a new process to manage ministerial

speaking notes and correspondence. 37 projects were submitted and executed through the Bright Idea Program, promoting a continuous improvement and innovation culture. Branch planning not completed due to the department reorganization.

- Developed comprehensive communications and change management approaches to support the department's restructuring, and developing and implementing a new service delivery model.
- Deployed multiple channels and platforms to boost 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 five Deputy Minister Townhall webinars. Released 26 issues of the internal staff e-bulletin "The Lay of the Land" with the average open rate of 75 per cent.
- Managed the department's Twitter channel that was updated daily and reached close to 5,425 subscribers.
- Released 12 issues of the Growing MB Ag e-newsletter, serving 3,400 external clients. Led the department's Employee Engagement Team and initiatives to improve staff engagement.
- Completed eight rounds of Coffee Chat with 176 participants and 100 per cent satisfaction rate from participants, and regularly shared engagement materials in communications to employees.
- Coordinated a department staff photo contest with 93 entries which also helped add content to the ARD Photo Library.
- Created an ARD Management Engagement Teams site to facilitate collaborations, share resources and promote engagement.
- Prepared and promoted French Language training and other materials in multiple communication channels (e.g. staff e-bulletin, New Professional Network event) to assist in building awareness of French Language Services (FLS). Updated and circulated ARD FLS poster of bilingual staff available to assist clients in French. Refreshed French Language Intranet page to outline process steps and feature tools available. Consulted with the department branches to develop an improved Multi-Year French Language Service Plan. Translated all primary landing pages (203 pages) from the previous Agriculture website to French. Developed a process for Dreamweaver to translate pages for simultaneous French and English updates. Translated all guidebooks for Canadian Agricultural Partnership (CAP) - Ag Action Manitoba for website.
- Coordinated an ARD learning needs assessment and developed a plan to address the needs identified. Coordinated staff training utilizing the Learning Fund to provide training in Dreamweaver (10 attendees), Excel (36 attendees), Outlook (eight attendees), PowerBI (nine attendees), PowerPoint (11 attendees), and SharePoint (36 attendees).

- Coordinated Transformation Change Management training for senior management, and DISC Personality Training and Organizational Change Management training for managers to support the department realignment. Advertised and promoted Organization and Staff Development (OSD) courses (e.g., respectful workplace for managers or employees) through the internal staff newsletter and other communication channels (e.g. Deputy Minister memos). Funded three participants in the Public Sector Management program.
- Responded to 689 requests related to agriculture and agri-food, natural resources, market and trade statistics and analysis. Served as a primary point of contact for industry intelligence, economic indicators and market research analysis for agriculture.
- Supported department and government-wide information needs and analysis on the livestock and products price, inputs, and supply chains during COVID-19.
- Developed a tool to monitor the movement of livestock by state of entry and reported on international trade.
- Continued support for the implementation of sector strategies (e.g. sustainable protein strategy) with market and industry data, information, and research. Completed a protein consumer behaviour report. Continue to provide weekly hog, cattle, and crop reports to address industry needs, with a total of 116 reports published.
- Redesigned the hog and cattle prices reports in consultation with industry stakeholders to provide more clarity and transparency on livestock pricing in Manitoba.
- Completed 37 trade reports including Manitoba top 10 protein and crop exports, Manitoba agriculture imports and exports, and food and beverage manufacturing exports.
- Completed two international market research reports: a sheep and lamb sector market research in Japan, Malaysia, and Vietnam; and a potash global supply and demand market research.
- Completed and published four new sector profiles (e.g. wheat, soybean, pea, grain/corn), and updated five sector profiles (e.g. hog, cattle, hemp, potato, canola). Completed six industry analysis reports including the Manitoba's agri-food export performance quarterly reports, a macroeconomic outlook for Canada's agri-food supply chains, and quarterly consumer reports.
- Created an overview of the digital agriculture sector in Manitoba.
- Contributed to the development of the MB 150 Ag e-book to share and celebrate the historical evolution of the agriculture and agri-food sector in the province.
- Represented the department in Federal/Provincial/Territorial (FPT) working groups on agricultural statistics, farm income forecast, and export market analysis.
- Continued building a strong relationship with internal and external clients and data partners.

- Strengthened efforts to disseminate data-driven insights to clients using internal and external newsletters, social media platforms, website, and expanding the use of the internal Statistical Document Library.
- Formed the internal Livestock Numbers Team to gather and analyze livestock inventory and supply disposition numbers to be shared with Statistics Canada for National Accounts.
- Expanded data collection for the resource sector with Natural Resources Canada. Acquired the database EuroMonitor for international market intelligence, and coordinated user training for 26 department staff through three group sessions and 12 one-on-one sessions.
- Completed 14 economic analysis projects including the economic contribution of the agriculture and agri-food sector, economic contribution of the oil and mineral mining industry in Manitoba, financial performance of the agriculture sector, agri-food export performance, and economic impact of specific industries (e.g. COVID-19 impact in the potato industry, financial impact of African swine fever, assessment of carbon tax impact related to grain drying, price elasticity in pork).
- Provided trade statistics and analysis to assess potential impacts resulting from local and/or global production situations and market conditions.
- Collaborated with Agri-Benchmark on three economic analysis projects in support of the agriculture and agri-food sector.
- Addressed agricultural producers' request for a comprehensive report on the supply and use of each agricultural sector and how well each sector was respectively coping and responding to the pandemic conditions.
- Participated in FPT roundtables to address specific challenges on agri-food supply chains as a result of the pandemic.
- Developed and implemented a proposal to analyze the economic impact and implications of the pandemic to Manitoba's agriculture and agri-food sector.
- Worked with Research Manitoba and completed three impact narrative reports on agri-food research (Food Development Centre, pork and hemp).
- Continued collaborations with the University of Manitoba, including an internship program and farmland ownership study. Provided technical review of six CAP project proposals.
- Expanded the department's data analytics capacity by hiring an additional Data Scientist and improving data analytical skills through training (e.g. advanced Excel).
- Explored other software/applications for analytics and data visualization (e.g. PowerBI). Six new ideas including one on data retrieval automation were implemented and recognized by the Bright Ideas program.
- Submitted a business case for a data warehouse project to consolidate and store data from various sources.
- Drafted a proposal to explore department's data management and data analytic capacities to meet the emerging client needs.

- Responded to and addressed 100 per cent of the requests for IT Services. Processed over 5,000 electronic service order requests. Supported 3,300 internet web pages and 66 SharePoint collaboration sites. Managed scoping and implementation phases of seven projects. Evaluated and submitted 33 projects to the IT investment and demand planning process.
- Coordinated the department's computer and equipment (e.g. VPN) demand and supply, and facilitated new technology adoption (e.g. virtual meeting and collaborating platforms such as MS Teams) to support staff working remotely and ensure business continuity and essential services during the pandemic.
- Updated the department's Emergency Management Program to reflect the department reorganization, and supported the departmental Emergency Operations Centre (EOC) upgrade.
- Served as department liaison to Manitoba Emergency Measures Organization (EMO), Manitoba Health, and other government departments coordinating COVID-19 responses, including providing regular updates to the Minister and senior officials, coordinating pandemic supplies (e.g. Personal Protection Equipment or PPE), compiling and sharing lessons learned, compiling and reviewing PPE guidelines for workplaces, and reallocating resources to support central COVID initiatives.
- Worked with industry stakeholders in the event of local and/or provincial emergency events (e.g. dry conditions, flooding, COVID-19) to mitigate potential impacts to the agriculture and natural resource sectors. Compiled an inventory of department staff who have completed emergency training courses.
- Launched a multi-phase "Engaging Manitobans on our Agri-Food industry" public engagement project in January, with 686 responses received to help the department identify public perceptions and concerns about the agri-food system, particularly in the context of the COVID-19 pandemic.
- Hired a Research Coordinator to conduct research on public trust in resource-based sectors locally, nationally and abroad to provide recommendations for a comprehensive departmental public trust strategy.
- Coordinated public trust consumer research on protein production through survey questions on the fall 2020 Manitoba Omnibus Survey and membership to the Canadian Centre for Food Integrity (CCFI).
- Supported ARD public engagement initiatives through the EngageMB web-based portal and online focus groups and meetings. Developed three new factsheets to support department priorities such as Manitoba's Protein Advantage Strategy.
- Participated in the University of Manitoba Leadership Team Initiative, and contributed to the development of the Manitoba Agriculture and food Knowledge Exchange (MAKE) brand, website and five protein focused recipe cards.
- Maintained the department's website content on the local food page and provided messaging for Government of Manitoba and Manitoba Agriculture Twitter Channels to build awareness of agriculture and farming practices in Manitoba.

- Developed five new “Pioneering Roots, Growing Innovation” videos that profiled Manitoba farm families, agricultural practices and addressed top public trust concerns such as sustainability. All videos were shared online and three of the videos were featured as commercials on the Great Tastes of Manitoba (GTOM) broadcast TV cooking show.
- Provided overall event planning support and coordinated sessions with Manitoba research institutions for the online Manitoba Protein Summit in February 2021 with 650 attendees from across the globe.
- Delivered a virtual Farm and Food Awareness week in September. Coordinated a virtual Agriculture Awareness Day Event in March with a theme of “Protein and Emerging Agricultural Technology”.
- Supported Ag in the Classroom - Manitoba (AITC-M) in a project to enable the organization to innovate and respond to COVID-19 pandemic restrictions and adapt their program delivery model.
- Supported a GTOM project to deliver a new farm to table model, bringing farm footage into the cooking show content.

2 (b) Transformation

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,316	28.00	2,547	(231)	
(2) Other Expenditures	470	-	643	(173)	
Total Sub-Appropriation	2,786	28.00	3,190	(404)	

FOOD DEVELOPMENT CENTRE (FDC) – 2C

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 Manitoba Agriculture and Resource Development 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 agrifood processors in the development of food ingredients including protein, fibres, and starch (inclusive of applications for the ingredients).
- Assist food processors to manage waste streams to capture value through decreasing effluent volumes or finding alternative uses and economic value from co-products.
- Market FDC services, identify opportunities to increase agriprocessors' production capacity and to attract world-class enterprises for processing animal and plant protein.
- Explore opportunities to partner with industry associations, and improve coordination with other stakeholders for more effective service.
- Collaborate with Manitoba Agriculture and Resource Development staff to perform needs assessments for agrifood processors to increase their value-added activities.
- Conduct Safe Food for Canadians Regulations consulting, shelf life evaluation/testing, and process validation.
- Identify, qualify and quantify performance targets and indicators that align FDC's core activities to link with Manitoba Agriculture and Resource Development strategic objectives and Manitoba's BSC.
- Collaborate with industry partners on exploration of commodities suited for protein extraction, develop extraction protocols, scale up and validate processes and characterize protein ingredients for functional applications in the food industry.

ACTUAL RESULTS

- Increased the processing of Manitoba commodities by 18 companies with the creation of 26 new products from spray dried protein, protein powder blends, ready-to-drink-protein beverages, protein butter blends to meat sauces and buffalo berry puree. Provided commercial manufacturing for six companies producing 12 products for retail and food service across Canada.

- Attracted and retained three large protein-focused Manitoba agri-food companies requiring equipment for research and development activities without negatively impacting their operational schedule.
- Increased processing and utilization of food ingredients by 15 companies through ongoing protein and co-product trials, and created 355 food labels for 112 food clients for products destined for retail markets across Canada.
- Enabled three agri-food processors in identifying bioactive ingredients, determined functionality of by/co-stream ingredients and created new ingredient opportunities for food and pharmaceutical markets. Provided one large agri-food processor with co-product analysis and product functional applications to expand their market across Canada and USA.
- Focused marketing and communication activities on generating new client opportunities at a variety of events including Bridge2Food, Protein Industries Canada, Canadian Institute of Food Science and Technology, and the Manitoba Protein Summit. Prepared correspondence informing commercial clients on the changes in the operation of the FDC; collaborated with Food and Agri product Processing (FAPP) for pathfinding on co-packing facilities, and prepared a scan identifying other service providers for nutritional labelling services.
- Continued to promote FDC's services to various industries and academia including other Canadian food centres, Bioscience Association Manitoba, Assiniboine Community College (ACC) and National Research Council (NRC).
- Continued collaboration with Food and Agri Product Processing (FAPP) on client intake assessments, assisting both Manitoba and out-of-province clients to meet their commercialization requirements. Connected three large out-of-province agri-processors interested in the prospect of investing in Manitoba with FAPP branch.
- Advanced 14 Manitoba agri-food processing companies for the creation and implementation of programs for Safe Food for Canada Act (SFCA), meeting the projected annual revenue of \$40,000. Due to COVID-19 pandemic, FDC assisted with procurement of Personal Protective Equipment (PPE) where minimum orders, or availability of supply were barriers for companies to access PPE required to maintain food processing operations.
- Updated FDC's Management Information System (MIS) to help staff in planning activities to deliver product and process development projects, and regulatory and process validations to align with the BSC indicator "Provide Value for Money". This work included working within client's project budgets, cross training on scientific protein extraction processes and procedures, and improved overtime planning.
- Assisted five agri-food processors interested in emerging protein markets; conducted protein extractions on novel proteins including mushrooms, lupin, black bean and co-products including collagen.
- Collaborated on a NRC-Industrial Research Assist Program (IRAP) project in a novel process using hydrodynamic cavitation treatment for energy efficiency.

2 (c) Food Development Centre

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Grant Assistance	2,670	-	2,020	650	1
Total Sub-Appropriation	2,670	-	2,020	650	

1. The variance is primarily due to supporting the transition of the Food Development Centre (FDC) from a Special Operating Agency to a unit within the department.

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 through Grain Innovation Hub (GIH) to achieve products and practices that may be adopted or transferred to the grain value chain (producers, industry).
- Engage academic/research community in research projects and collaboration opportunities.
- Direct GIH resources to support the Manitoba Protein Advantage (MPA) Strategy.

ACTUAL RESULTS

- Funded 15 projects related to Grain Innovation and Crop Production in the amount of \$1.716 million, which resulted in new technologies, products or practices that will be transferred or adopted by the agriculture industry.
- Published all approved GIH projects on the department webpage. The department commenced work on the development of a searchable database for all approved GIH projects and other projects approved through the CAP Ag Action Manitoba - Research & Innovation activity. The searchable database is expected to launch in 2021/22 fiscal year.
- Approved 12 new projects totalling \$1.155 million related to plant protein production.

2 (d) Grain Innovation Hub

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21 \$(000s)	2020/21 FTEs	2020/21 \$(000s)	Over/(Under) \$(000s)	
(1) Grant Assistance	2,511	-	3,000	(489)	
Total Sub-Appropriation	2,511	-	3,000	(489)	

RISK MANAGEMENT, CREDIT AND INCOME SUPPORT PROGRAMS - 3

MANITOBA AGRICULTURAL SERVICES CORPORATION (MASC) ADMINISTRATION AND LENDING COSTS– 3A-3D

MANDATE

Support the sustainability of agriculture in Manitoba by providing unique 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 (WLPIP).
- 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 \$3 billion of AgrilInsurance liability, covering 9.6 million acres and 7,758 farm operations.
- Provided \$969.2 million of Hail Insurance liability, covering 4.1 million acres and 3,492 farm operations.
- Provided \$5.9 million in wildlife damage compensation.
- Provided AgrilInsurance premium rebates totalling \$3,600 under the Young Farmer Crop Plan Credit Program.
- Insured \$24.7 million of liability under the LPI program, covering 19,563 animals.
- Administered a direct loan and loan guarantee portfolio that facilitated \$1.15 billion in credit.
- Provided \$221 million in new loans through the Manitoba Agricultural Services Corporation's (MASC's) Direct Loan program, including \$43.5 million for the purchase/retention of feeder cattle.
- Facilitated \$97.3 million in private sector loans to farmers, by providing \$24.3 million in loan guarantees, which includes: \$43.5 million in loans (facilitated by \$10.9 million in guarantees) to cattle producers through the Manitoba

Livestock Associations Loan Guarantee program; \$24.9 million of loans (facilitated by \$6.2 million in guarantees) through the Diversification Loan Guarantee program; and \$28.9 million in operating loans (facilitated by \$7.2 million in guarantees) through the Operating Credit Guarantees for Agriculture program.

- Provided \$1.4 million in rebates under the Young Farmer Rebate program.

3 (a) Manitoba Agricultural Services Corporation Administration and Lending Costs

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Grant Assistance	11,824	-	16,294	(4,470)	1
Total Sub-Appropriation	11,824	-	16,294	(4,470)	

1. The variance is primarily due to decreases in provisions for Loan Guarantees caused by guarantee recovery and for impaired Direct Loans due to the contraction of the loan portfolio. The variance is also due to a decrease in costs for the Young Farmer incentive programs due to both a decrease in activity and the estimated annual Young Farmer Rebate percentage and workforce reductions as a result of the COVID-19 pandemic. These decreases are partially offset by a higher allocated share of administration costs for the lending program due to lower insurance claims and a decrease in the specific provision for Emergency Assistance loans.

3 (b) Agrilinsurance

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Grant Assistance	48,430	-	50,004	(1,574)	
Total Sub-Appropriation	48,430	-	50,004	(1,574)	

3 (c) Wildlife Damage Compensation

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Grant Assistance	3,128	-	3,544	(416)	
Total Sub-Appropriation	3,128	-	3,544	(416)	

3 (d) Less Recoverable: Interest from Lending

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
Recovery	(14,126)	-	(15,600)	1,474	
Total Sub-Appropriation	(14,126)	-	(15,600)	1,474	

AGRISTABILITY – 3E

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

- Provide the provincial share of 40 per cent funding to the federal administration so timely payments are made to producers.

ACTUAL RESULTS

- For the 2020/21 AgriStability program year, 4,765 participants have received \$31,237 million in total benefit payments to date.

3 (e) AgriStability

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Grant Assistance	14,274	-	19,688	(5,414)	1
Total Sub-Appropriation	14,274	-	19,688	(5,414)	

1. The variance is primarily due to an increase in the federal forecast for expected payments related to the 2020 program year including costs attributed to the removal of the reference margin limit, partially offset by an adjustment to prior years.

AGRIINVEST – 3F

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

- Provide the provincial 40 per cent share of funding to the federal administration so timely payments are made to producers.

ACTUAL RESULTS

- For the 2020/21 AgrilInvest program year, 10,071 eligible participants have received matching payment contributions totaling \$11,772 million to date.

3 (f) AgrilInvest

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Grant Assistance	12,939	-	12,379	560	
Total Sub-Appropriation	12,939	-	12,379	560	

FARMLAND SCHOOL TAX REBATE – 3G

MANDATE

Provide rebates of the school taxes on farmland.

ACTIVITIES

- Administer payment of school tax rebates projected at \$48.9 million to 26,000 Manitoba farmland owners.

ACTUAL RESULTS

- Administered \$43.2 million in school tax rebates to 24,516 Manitoba farmland owners as of March 31, 2021. \$3.3 million in expected rebates remained to be paid after March 31, 2021, bringing the total to \$46.5 million.

3 (g) Farmland School Tax Rebate

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21 \$(000s)	2020/21 FTEs	2020/21 \$(000s)	Over/(Under) \$(000s)	
(1) Grant Assistance	47,004	-	49,304	(2,300)	1
Total Sub-Appropriation	47,004	-	49,304	(2,300)	

1. The variance is mainly due to a decrease in rebates net of capping as result of lower than expected increase in school taxes on farmland for 2020.

ANIMAL HEALTH AND WELFARE: EMERGENCY RESPONSE AND PREPAREDNESS – 3H

MANDATE

To support an immediate effective and coordinated response by government and industry to an animal disease emergency and improve resiliency and preparedness for animal disease outbreaks.

ACTIVITIES

- Develop an animal emergency disease response plan with livestock and poultry sectors to provide framework, roles and responsibilities for public and industry for animal disease emergencies.
- Investigate, develop and implement measures to contain the spread of new and emerging diseases that threaten human health, animal health or the economic stability of the livestock sector.

ACTUAL RESULTS

- Continued to develop and update disease response plans including Chronic Wasting Disease (CWD), Anaplasmosis, SARS Co-V, etc. Initiated an umbrella disease management framework to establish response priorities for key diseases and define roles and responsibilities. The umbrella framework is under development.
- Conducted 30 disease investigations related to new, emerging and ongoing diseases of significance to human, animal or economic health, with collaborative responses to confirmed cases to mitigate potential risks to Manitoba.

3 (h) Animal Health and Welfare: Emergency Response and Preparedness

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Other Expenditures	-	-	500	(500)	1
Total Sub-Appropriation	-	-	500	(500)	

1. There was no occurrence of an animal disease emergency during the year that required accessing these funds.

STEWARDSHIP AND ASSURANCE DIVISION - 4

DIVISION MANDATE

Creates 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 protection of trade and competitiveness of the agri-food processing industry.

ACTIVITIES

- Provide support for new business development including regulation advice, guidelines, fact sheets and best practice recommendations.
- Lead food safety capacity building by engaging with other government agencies, academic institutions and industry associations on food safety training.
- Modernize Manitoba's food safety regulations with Manitoba Health, Seniors and Active Living.
- Provide animal welfare oversight in provincial abattoirs.
- Provide oversight of on-farm dairy inspection program.
- Enforce applicable food safety regulations in provincially permitted food processing, distribution establishments and abattoirs.
- Develop and implement an audit system for inspection programs.
- Conduct and enhance food safety surveillance.
- Conduct antibiotic residue testing in abattoirs.
- Support National Animal Disease Surveillance program of Canadian Food Inspection Agency (CFIA), by collecting various samples for testing different diseases in a CFIA certified laboratory.
- Conduct scientific evaluation of processes and ingredients to ensure safe food production.
- Conduct animal welfare audits in abattoirs, and investigate potential food safety issues.
- Trigger on-farm investigation by reporting animal welfare issues to the Chief Veterinary Officer (CVO)/Animal Welfare Branch.
- Report animal diseases with high mortality and morbidity to CVO/Animal Health Branch for further investigations to combat disease spread.
- Evaluate and update the processing inspection risk assessment form.
- Improve interdepartmental communication.
- Review inspection delivery models.

ACTUAL RESULTS

- Completed 69 building assessments, and issued permits to 34 new facilities.
- Provided inspections to 484 permitted facilities, a net increase of 16 from the 2019/20 fiscal year.
- Drafted new food processing regulations guidance document.
- Developed industry guidance documents, one for processors and one for abattoirs, to mitigate COVID-19 risk. Delivered two webinars to industry focusing on COVID-19 risk mitigation.
- Communication with the University of Manitoba (U of M) – Department of Food and Human Nutritional Science and the Assiniboine Community College for the development of training curriculums was put on hold due to COVID-19.
- Supported the development of the Public Health Amendment Act (Bill 45, which was reintroduced as Bill 36) to modernize food safety legislation and pursue outcome-based regulations to reduce red tape and create closer alignment with Safe Food for Canadians Act. Consultations on regulation development was put on hold due to COVID-19.
- Developed two Food and Food Handling Establishments Regulations (FFHER) amendments, which were in consideration at year end.
- Developed an exemption for religious and cultural practices, which will enable a permitted abattoir operator to sell and transport carcasses prior to cooling to 4°C during and specifically for the religious observance of Eid. Other religious and cultural exemptions may also be granted on a case-by-case basis.
- Enforced animal welfare standards in provincial abattoirs. Reported 22 animal welfare cases to the Animal Health and Welfare Branch for investigation related to animals delivered to abattoirs.
- Reviewed reports from 25 dairy farm inspections conducted by Dairy Farmers of Manitoba (DFM) and conducted five onsite audits.
- Identified 1,100 non-compliances during inspections. An average of 1.1 infractions were documented per inspection. Completed 289 re-inspections.
- Completed 982 inspections, including 612 routine inspections at 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), with approximately 90 per cent of required inspections complete at any given time. During COVID-19, inspections were limited to one per day where typically two were done.
- Provided 2,300 meat inspection days to 25 provincially permitted abattoirs.
- Prioritized follow-up on non-compliances based on risk, with approximately 75 per cent of required follow-up complete at any given time. Issued four warning letters and one offence notice.
- Developed an internal audit program including documentation and onsite evaluations for processing and abattoir inspections. Documentation audits will

begin in 2021/22. Onsite audits will be implemented when appropriate, depending on the evolving COVID-19 risk.

- Continued water testing at abattoirs and processing facilities using well water, and at water bottling establishments.
- Working with CFIA to develop a Memorandum of Understanding (MOU) to enable the department to support CFIA's raw milk surveillance program.
- Entered into MOU with CFIA to share inspection resources in the event of staff shortages due to COVID-19. Department inspectors were trained by CFIA to work in federal meat facilities if needed.
- Developed, reviewed and updated inspection policies, protocols and training programs. Quality assurance system documentation is regularly developed and revised to ensure continuous system improvement.
- Updated or created and implemented eight protocols/job aids to guide inspection activities and technology usage.
- Drafted nine additional policies/protocols currently in the review process anticipated for completion and implementation next fiscal year.
- Drafted an inspection management system manual for completion in the 2021/22 fiscal year, to document expectations for document/program review schedules and auditing processes, and to ensure ongoing effectiveness of the inspection system.
- Developed a document management system to track current version and historical policies and procedures, and to assign and track document readership. Project is near completion, with user training to be completed.
- Conducted 120 antibiotic residue tests, meeting the surveillance target of 120 tests per year.
- Collected various samples (blood and tissue) from different species for surveillance of different diseases (scrapie, TB, brucellosis, bluetongue, Bovine Spongiform Encephalopathy or BSE) for testing in a CFIA certified laboratory.
- Assessed food safety processes and risks observed during routine inspections and conducted research to determine an appropriate regulatory approach.
- Prepared six decision documents outlining the risk and science based approach to regulating various food products, processes and commodity types. Decision documentation ensures that relevant information is captured demonstrating that an informed resolution addressing a food safety issue is reached. Documenting the rationale for a decision also assists in ensuring consistency of future decision making.
- Conducted abattoir compliance verification reports of animal welfare and harvesting practices at all 25 provincially permitted abattoirs.
- Monitored and observed no diseases with high morbidity and mortality at abattoirs requiring reporting to CVO/Animal Health Branch.

- Completed implementation of the improved risk assessment model (assessing facility risk based on the inherent risk of the product/process, compliance history and facility condition).
- Worked nationally with the federal and provincial departments of health and agriculture on common food safety initiatives. Represented the department on 17 food safety related FPT committees and working groups. Participated in bilateral operations meetings with the CFIA. Participated in the Canadian Meat Inspection Committee.
- Led the development of regulatory guiding principles adopted by federal and provincial jurisdictions across Canada, for use when developing modernized regulations.
- Submitted the Domestic Compatibility Assessment Tool (DCAT) from the CFIA to evaluate Manitoba's meat inspection system against federal standards.
- Completed the review of meat inspection delivery models in other jurisdictions.
- Resumed the cold carcass inspection pilot that was paused in March 2020 due to COVID-19. The branch is reviewing the feasibility of cold carcass inspection as an alternative to traditional meat inspection in seven low processing volume abattoirs. Recommendations on implementation of this inspection approach are being developed. Work will continue with an anticipated completion date in winter 2021/22.
- Initiated a pilot project on video ante-mortem inspection. Reviewed recorded and streamed videos in seven low processing volume abattoirs to assess the possibility of remote ante-mortem inspection. Recommendations on implementation of this inspection approach are being developed. Work will continue with an anticipated completion date in winter 2021/22.
- Investigated and considered options for an improved scheduling tool; however, the cost/benefit analysis was not favourable and therefore will not be pursued at this time.

4 (a) Food Safety and Inspection

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,605	33.00	2,753	(148)	
(2) Other Expenditures	488	-	577	(89)	
Total Sub-Appropriation	3,093	33.00	3,330	(237)	

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, through animal disease outbreak investigations and stakeholder engagement and continue supporting reportable disease management strategies.
- Provide support for sustainable crop and livestock development under the MPA strategy.
- Conduct surveillance, detection and responses to threats to public and animal health that have agricultural/veterinary involvement.
- Continue dialogue with industry to develop joint resolution to issues and develop industry capacity for management of health and welfare.
- Develop and implement emergency response framework for critical animal health and welfare incidents.
- Provide regulatory oversight of The Animal Care Act, including investigation, inspection, education and enforcement activities throughout Manitoba.
- Finalize the development and implementation of the kennel training certificate program.
- Utilize a One World, One Health Approach in priority areas including zoonotic disease risks, FPT public health and animal health initiatives, and animal welfare.
- Provide veterinary diagnostic 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 the Primary Agriculture Branch and other laboratories.
- Continue Quality Management work to ensure Veterinary Diagnostic Services' activities comply with the International Standards Organization standard for testing and calibration laboratories (ISO 17025).
- Review, update and implement diagnostic test methods.
- Partner with Cadham Provincial Laboratory (CPL) 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.
- Create a province wide communication strategy that increases awareness of the Animal Welfare Program public good services and mandate including modernising of the department webpages, creation of educational material, provincial stakeholder workshops and public consultations.

ACTUAL RESULTS

- Conducted 30 disease investigations (see Figure 1 for a breakdown of disease types). The scale and complexity of disease investigations has increased as highlighted by the 2017 and 2019 Porcine Epidemic Diarrhea Virus (PEDv) outbreak investigations involving over 280 premises.
- Developed a disease investigation dashboard to report significant investigation findings in a public format. The dashboard is in the final phases of preparation for publishing in 2021/22.
- Conducted agrifood stakeholder engagement meetings throughout the year related to COVID-19 to support the sector through challenges associated with the pandemic and associated Public Health requirements.
- Operated VDS, the regional animal health laboratory that provides diagnostic services to veterinarians, livestock and poultry producers, and animal owners. VDS conducted 129,198 tests from 17,376 cases (Figure 3) in 2020 which is fewer than 151,112 tests from 19,637 cases in 2019 and 136,505 tests from 17,703 cases in 2018. VDS continued its role as a network laboratory in the Canadian Animal Health Surveillance Network (CAHSN). VDS technologists' proficiency in foreign animal disease tests was recertified by the CFIA.
- Continued to provide knowledge and support to food animal veterinarians, helped producers utilize recommendations and put them into practice, and provided up-to-date industry knowledge and communication to producer groups. The VDS and Disease Investigation dashboards continued to provide important information to vets and producer/industry groups.

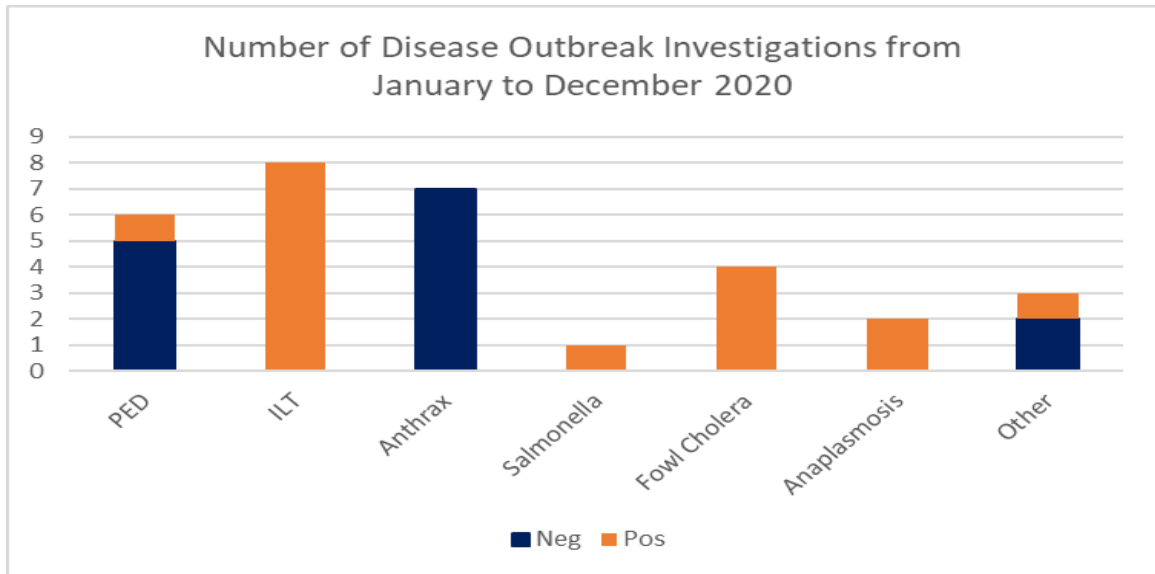


Figure 1

- Utilized laboratory data to identify trends in case submissions and test requests (see Figures 2, 3 and 4).

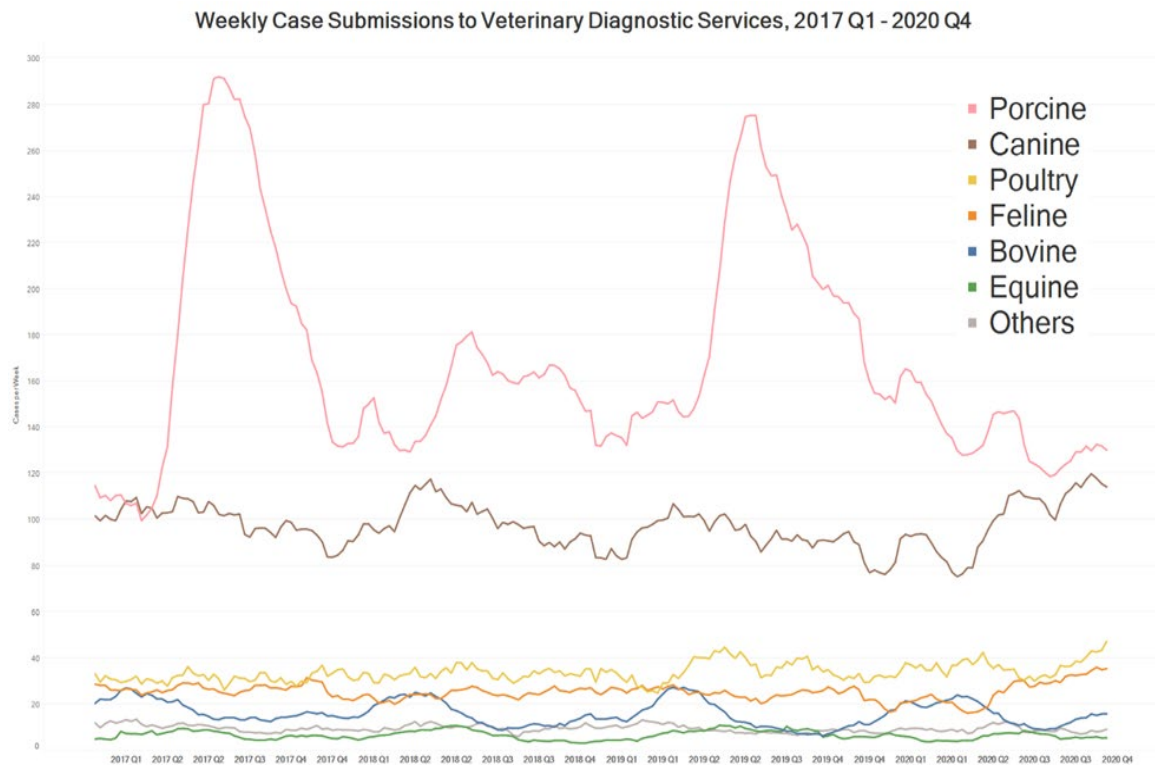


Figure 2

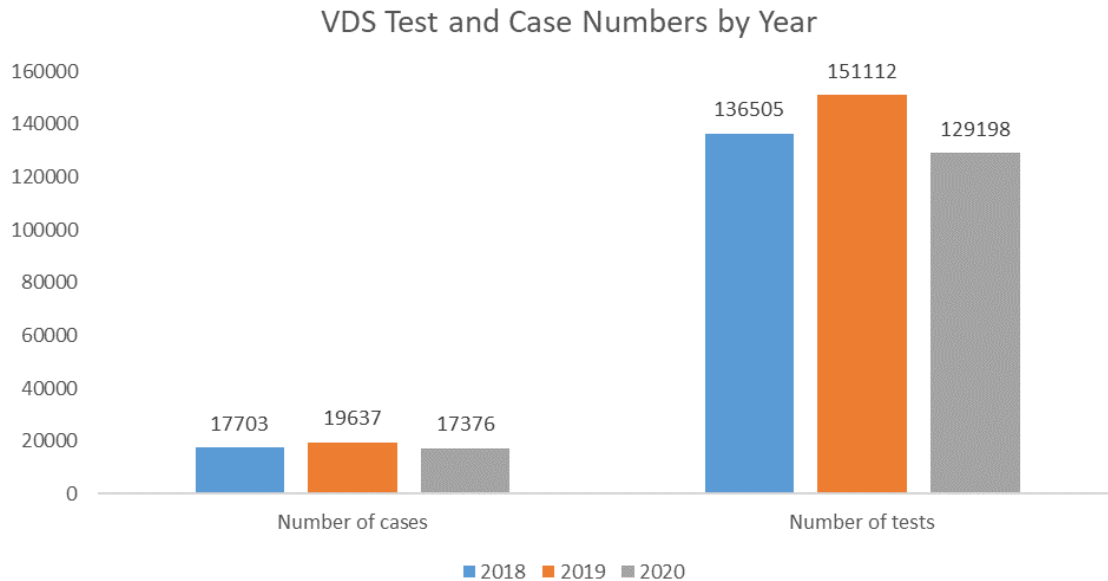


Figure 3

Animal Type	Number of Tests	Percentage
Swine	62,261	50%
Chickens and Turkeys	37,521	30%
Cattle, Sheep and Goats	6,756	6%
Dogs and Cats	12,882	10%
Other	4,222	4%
Total	123,642	100%

Figure 4

- Utilized provincial abattoir condemnation rates to identify significant disease issues at slaughter. See tables at: <https://www.gov.mb.ca/agriculture/animal-health-and-welfare/animal-health/provincial-condemnation-rates.html>
- Utilized targeted disease surveillance programs within the province for rapid identification of diseases such as Avian Influenza (AI), Infectious Laryngotracheitis (ILT) and CWD. Cases of ILT are noted above. Manitoba remains free of AI and CWD.
- Supported the first phase of the CanSpot African Swine Fever (ASF) surveillance project for the early detection of ASF, starting August of 2020. The project identifies pathology cases that have similar signs to ASF and submits those for testing. Manitoba has been one of the most significant and successful contributors to the project, currently testing eight to nine cases per month.
- Contributed laboratory information and epidemiology resources to the Canada West Swine Health Intelligence Network (CWSHIN), which provides quarterly reports on significant swine disease trends and findings to pork producers, swine veterinarians and provincial animal health authorities across western Canada.

- Served as a key stakeholder in the development of the Western Canadian Animal Health Network (WeCAHN). WeCAHN established a beef, dairy and poultry network, generating quarterly reports on integrated surveillance information for clinical surveys and laboratory data. The reports are provided to producers, veterinarians and provincial animal health authorities across western Canada.
- Participated in ongoing collaborative efforts on complex issues including with the Animal Care Committee of the Manitoba Egg Farmers, Provincial Animal Care Committee, Manitoba Veterinary Medical Association and others.
- Worked with industry partners developing joint approaches to support effective strategies to ensure humane welfare culls when required. The reports and documentation from WeCAHN, CWSHIN, CAHSS, ASF EMB, and Western Area ASF steering committee are examples of “joint resolutions to issues” and development of industry capacity. Province-specific examples include ongoing projects in wild pig control, PED surveillance and response, hatchery and hatchery supply flock program, turkey export program and the ongoing development of a joint ASF response plan with Manitoba Pork Council (MPC).
- Continued training in the Incident Command Structure (ICS) approach for disease investigations, continued to use and validate the Premises Identification (PID) system, which is used for most disease investigations and has played a critical part in disease preparedness and planning, including for modeling and exercises.
- Developing a joint incident command structure on a provincial and regional level to respond to an ASF outbreak. The plan is for the provincial ICS is to have the CVO and the Manitoba CFIA regional director function as co-Incident Commanders. The provincial ICS will link with the other three western provinces through a Western Area ICS that will coordinate activities between the four western provinces.
- Initiated initial steps to replace the decision support system for animal emergencies (DSSAE). The software has reached the end of its operational lifespan.
- Developed an Animal Protection Officer training program in partnership with ACC, (first round of course delivery expected to begin at the end of 2021).
- Implemented an Animal Care Act educational presentation to raise awareness of the Act with Veterinary staff. Provided a manual to all veterinary clinics in Manitoba explaining the Animal Care Act.
- Performed inspections and investigations in accordance with the Animal Care Act. Provided virtual continuing education events for current Animal Protection Officers on a bi-monthly basis.
- Launched the Kennel Training Certificate Program and raised awareness of the program through a press release, the department’s newsletter and through public promotion.
- Participated in FPT committees on priority One Health issues and initiatives including Chronic Wasting Disease, COVID-19, Antimicrobial Use and

Resistance, bovine tuberculosis and brucellosis, Tick-borne Diseases, as well as Emerging Diseases.

- Continued to operationalize the Provincial Rabies program collaboratively with wildlife and Public Health colleagues using a One Health approach. Participated in national One Health committees to evaluate and mitigate the risks to human and animal health related to SARS Co-V.
- Participated in the CFIA's CanSpotASF Program for enhanced ASF surveillance, with 152 samples selected by VDS pathologists or clients (swine veterinarians) sent to the National Centre for Foreign Animal Disease where they tested negative for ASF.
- Provided *Salmonella* testing on poultry barn environmental samples for various clients, including the CFIA's Hatchery Supply Flock Program and the Manitoba Egg Farmers. Demand for testing was 18 per cent higher than in 2019-2020, due in part to increased submissions from the broiler industry for insurance purposes.
- Performed postmortem examinations and avian influenza testing on 49 poultry cases submitted under the Manitoba Small Flock Avian Influenza Program. While no influenza virus was detected, testing under this program revealed outbreaks of ILT virus in six non-commercial chicken flocks.
- Manitoba and CAHSS led the completion of a case definition framework with the veterinary epidemiology and surveillance network (VSEN), allowing for a standardized approach to disease case definitions. Validation of the framework is pending, and was used to establish a case definition for COVID-19 in animals. Individual sector networks under CAHSS have expanded contributions to surveillance for zoonotic diseases and antimicrobial resistance. Worked with CAHSS to identify the most appropriate fields in and structure of a standardized platform for the utilization of laboratory and slaughter condemnation data. The platform would expand the use of this information for surveillance purposes. Worked with CAHSS to expand on the minimum laboratory data set for disease surveillance with final results expected later in 2021.
- Continued to operationalize the Provincial Rabies program collaboratively with wildlife and Public Health Colleagues using a One Health approach (see Figures 5 and 6).

Positive Animal Cases of Rabies by Species per Health Region (Cumulative) for — January 1, 2020 - December 31, 2020

	Southern Health - Santé Sud	Prairie Mountain Health	Interlake Eastern Health	Northern Health Region	WRHA Winnipeg	WRHA Churchill	FNIHB	Total
Striped skunk	3	2	2					7
Bat								
Other wildlife								
Cat	1							1
Dog			1					1
Bovine	2	1						3
Equine								
Other domestic								
Total	6	3	3					12

Figure 5

Animals submitted for testing and number of positive animal cases (cumulative) — January 1, 2020 - December 31, 2020

	Southern Health - Santé Sud	Prairie Mountain Health	Interlake Eastern Health	Northern Health Region	WRHA Winnipeg	WRHA Churchill	FNIHB	Total
Number of Samples Submitted	33	33	35		4		4	109
Number of Positive Cases	6	3	3					12

Figure 6

- The year 2020 had the highest test positivity rate for rabies samples since 2015 (see Figure 7).

Annual Rabies Sample Results			
Calendar Year	# of Samples Tested	Positive Result	% Positive
2020	109	12	11.0%
2019	143	4	2.8%
2018	153	14	9.2%
2017	128	14	10.9%
2016	152	16	10.5%
2015	130	18	13.8%

Figure 7

- Achieved the fastest average turnaround time on Rabies samples in 2020 (see Figure 8).

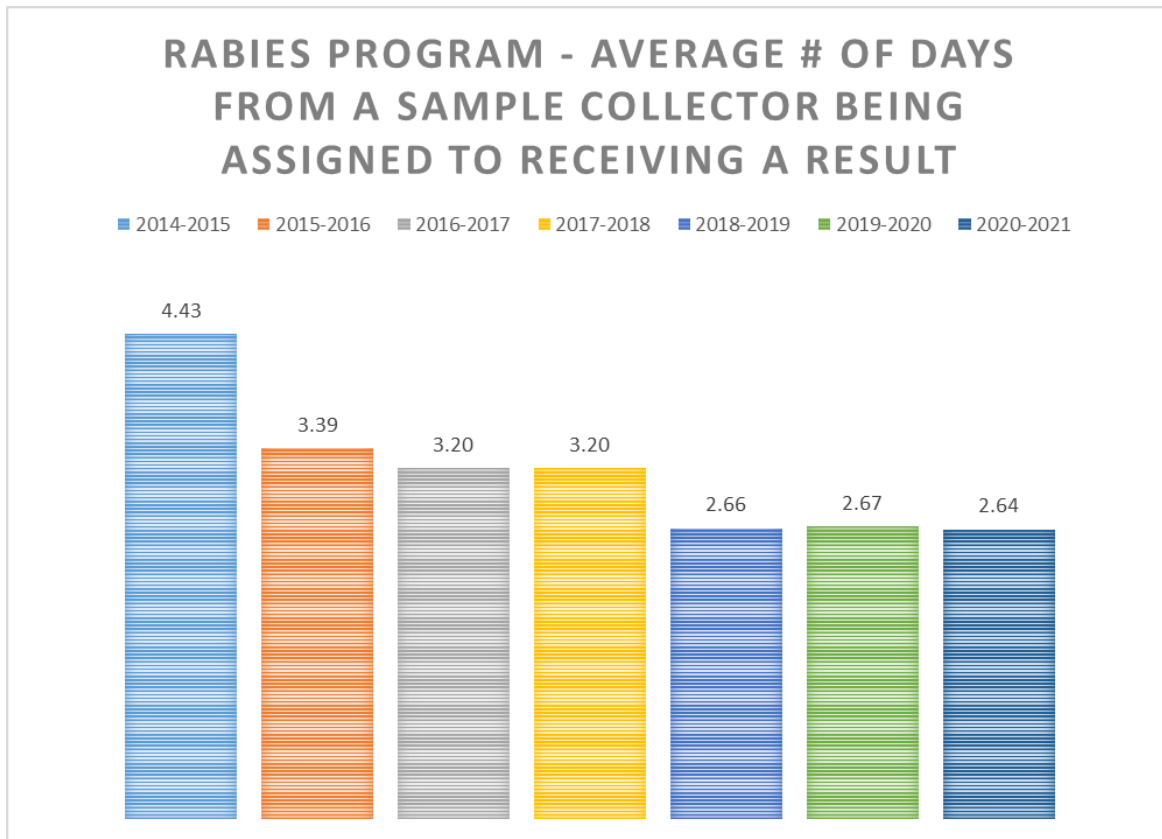


Figure 8

- Continued to improve analysis and reporting and engaged with our One Health colleagues in MB to optimize outcomes related to diseases that impact both

animal and human health including zoonotic pathogens such as tick borne diseases, anthrax, anaplasmosis, CWD and others (see Figure 9).

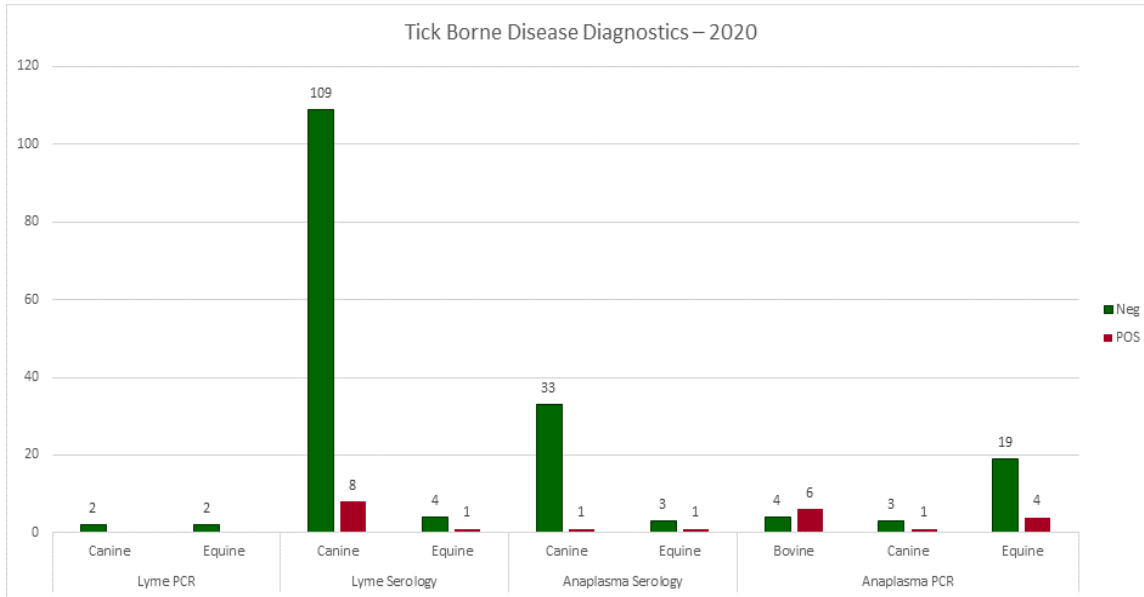


Figure 9

- Continued work on and updates to disease management plans for CWD, canine brucellosis and Cache Valley Virus. Updated disease management plans for anaplasmosis, CWD and salmonella.
- Worked with government and industry colleagues to develop strategies and manage risks associated with SARS Co-V and the implications to the associated Public Health (PH) measures.
- Opened the Emergency Operations Centre (EOC) throughout the year to assist with aspects of preparedness, planning, and response, and worked with Public Health to fast track food industry worker testing. Assisted agri-food processors and operations that engaged temporary foreign workers to ensure that risks were mitigated and public health was protected while critical services were maintained.
- Completed business requirements for a new laboratory information management system (LIMS). The project was tendered in November and a 1.5 year long LIMS implementation plan is expected to begin in October 2021.
- Received 20 submissions from Manitoba apiaries and performed 64 tests for infectious diseases of honey bees. Uptake of this new service was limited by the pandemic and the ongoing need to promote the service to both veterinarians and beekeepers.
- Recruited and trained a new Quality Assurance Officer at the end of March 2021. Revision of quality management system documents and application to the Standards Council of Canada for ISO 17025 accreditation will proceed in 2021-2022.

- Streamlined the bacteriology methods used for detecting *Salmonella* in poultry barn environmental samples to allow VDS to better meet increasing test demands in a timely manner and simplify the accreditation process.
- Started optimizing the polymerase chain reaction (PCR) test for porcine reproductive and respiratory syndrome virus (to be completed in 2021/22).
- Completed validation of tests for honey bee viruses.
- Implemented adrenocorticotrophic hormone (ACTH) testing to better diagnose hormonal disorders in horses and dogs.
- Established seasonal reference intervals for Manitoba horses.
- Implemented a new enzyme-linked immunosorbent assay (ELISA) option for detecting antibodies to *Mycoplasma hyopneumoniae* in swine. This ELISA is one of the critical tests for swine herd health programs and pre-shipment testing.
- VDS tested mosquito pools collected for Health and Senior Care's West Nile Virus Surveillance Program, allowing CPL to devote more resources to COVID-19 testing. VDS and CPL scientific staff collaborated to implement testing procedures at VDS. From June to September, 1627 pools of mosquitoes trapped in Winnipeg and Brandon were tested. Started preliminary planning for the use of VDS as a back-up facility for pandemic testing.
- Updated online training opportunities for veterinarians and veterinary technologists for the Manitoba Rabies Program.
- Continued to work to engage and strengthen relationships with remote and First Nations communities in regard to Veterinary Public Health programming including rabies programming, including recruiting sample collectors from communities. Training is postponed until Public Health Orders are lifted.
- Developed an Animal Welfare Program in Manitoba video for the department's YouTube Channel and for the Animal Welfare section of the department website (881 views).
- Provided a one-hour, virtual, free training program for veterinary staff on the Animal Care Act. Provided a manual to Veterinary Clinics in Manitoba explaining the Animal Care Act and how it relates to the veterinary profession.
- Implemented a social media campaign to increase awareness of the animal welfare program and promote educational material including development of an educational video on the animal welfare program. The Growing Manitoba Ag newsletter was used to communicate information on the Animal Welfare Program.
- Updated the Animal Welfare section of the department website to include new sections on animal welfare program animal protection, legislation and codes of practice and education.
- Published the Manitoba Veterinarian's Animal Welfare Handbook (electronic and hardcopies available). The handbook provides veterinarians guidance when dealing with animal welfare cases, including how to report animal welfare concerns appropriately, how to discuss welfare concerns with clients and how to fulfill their leadership roles as animal welfare advocates.

- Published 13 animal welfare program educational resources in the Growing Manitoba Ag newsletter, and nine educational postings were completed on the department's twitter account. Six animal welfare factsheets were revised.

4 (b) Animal Health and Welfare

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	5,047	55.00	5,407	(360)	
(2) Other Expenditures	3,025	-	3,021	4	
(3) Grant Assistance	13	-	11	2	
Total Sub-Appropriation	8,085	55.00	8,439	(354)	

AGRI-RESOURCE – 4C

MANDATE

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

ACTIVITIES:

- Increase crop development models in support of risk management for producers. Models focus on disease, environmental pressures and provide decision support tools for producers.
- Validate potato late blight model.
- Provide expertise in support of emergency preparedness for foreign animal disease outbreaks.
- Support the Made in Manitoba Climate and Green Plan.
- Monitor carbon pricing impacts on primary agriculture and agri-processing sectors, investigate carbon offset markets and sequestration metrics.
- Provide technical support to externally delivered Ecological Goods and Services (EG&S) programs and both policy and technical support to GRowing Outcomes in Watersheds (GROW).
- Work with Wildlife Management Areas (WMAs) to increase their productivity and sustainability.
- Support the MPA strategy through timely review of livestock operation development proposals.
- Participate in Conditional Use hearings for livestock operations seeking Municipal Conditional Use approval.
- Streamline Technical Review Committee (TRC) process documents including the TRC report template.
- Provide input on amendments to The Pesticides and Fertilizer Control Act and Manure Regulation that reduce red tape and improve government efficiency.
- Increase utilization and productivity of agriculture Crown land (ACL) for livestock production in an environmentally sustainable manner.
- Support Crown and community pasture land resource management planning.
- Amend ACL program regulations, policies and procedures as necessary.
- Investigate online Environmental Farm Plan (EFP) delivery.
- Develop targeted EFP modules including agri-processing, climate change assessment and farm safety modules.
- Deliver EFP workshops and programming.
- Support the sustainable management of agricultural land through planning and policy.
- Facilitate development of appropriate municipal land use policy.

- Provide technical leadership on Canadian Agricultural Partnership (CAP-Ag Action Manitoba) Assurance Beneficial Management Practices (BMP) programming.
- Increase usage of AgriMaps and viewers on ArcGIS online (AGOL).
- Review soil interpretations for engineering standards.
- Ongoing implementation and overview of the Prairie Agriculture Machinery Institute (PAMI) Engineering Service Team agreement.
- Provide support for farmers and agronomist on soil health and nutrient stewardship to ensure long-term productivity and sustainability of agricultural lands.
- Provide leadership expertise in research, extension, incentive programming and regulatory requirements of soil and water management systems tile drainage, surface drainage and water retention, and utilization systems on agricultural lands.
- Maintain and expand weather stations.
- Deliver Crop Residue Burning Program.

ACTUAL RESULTS

- Completed second year of field data collection for a prairie wide Fusarium Head blight model and completed first year data collection for the Potato Late Blight Model.
- Implemented a mass mortality trench composting/burial technique pilot project with the City of Winnipeg at the Brady Resource Management Facility, and identified a site for emergency mass mortalities disposal in the RM of De Salaberry.
- Initiated tracking for performance indicators for reporting under the Made-in-Manitoba Climate and Green Plan.
- Worked with KAP and PAMI to update the department's grain dryer cost calculator and develop a GHG emissions estimation component and a carbon price cost calculator.
- Provided policy and technical support to GROW EG&S program and for the Conservation and GROW Trusts administered by Manitoba Habitat Heritage Corporation (MHHC).
- Worked with Wildlife, Fisheries and Resource Enforcement to proactively create a list of WMA lands that could be made available to agricultural producers for the 2021 season.
- Provided support for sustainable crop and livestock development under the MPA strategy, including development of sustainability indicators.
- Reviewed 22 TRC applications and participated in 11 livestock Conditional Use hearings
- Prepared policy document for establishing the historical size of a livestock operation, which was approved by the TRC Directors. Peer-reviewed paper on the Manitoba Land Calculator prepared for publication.

- Provided input on The Pesticide and Fertilizer Control Act and manure regulation, which was amended to reduce red tape and improve government efficiency.
- Developed and implemented the first on-line ACL lease auction process, which ran February 8-12, 2021. Allocated 118 forage leases, four renewable permits and two cropping leases. Administered 1,592 forage leases (1,300,548 acres and 539,648 Animal Unit Months (AUMs)), 42 cropping leases (5,292 acres), 37 renewable grazing permits (8,311 acres and 2,419 AUMS), and 208 renewable haying permits (57,635 acres and 17,888 AUMs). Delivered an Emergency Hay and Grazing program, making an additional 71 parcels of Crown land available to farmers (1,900 acres, 1,380 AUMs) of non-agricultural coded land.
- Worked with the Association of Manitoba Community Pastures (AMCP) in providing advice and support for the Community Pasture Program.
- Amended the Agricultural Crown Lands Leases and Permits Regulation (ACLLPR), enabling renewals of legacy forage leases and renewable permits in recognition of the importance of these leases and permits to the operation of family farms. The amendment came into force December 2020.
- Initiated development of Manitoba's Online EFP in partnership with KAP, including industry specific modules designed to meet market based requirements for potato, field pea and dairy producers, and an on-farm GHG emission calculator.
- Initiated benchmarking of the Manitoba EFP content to Sustainable Agriculture Initiative's Farm Sustainability Assessment (SAI-FSA) – an international sustainable sourcing standard.
- Delivered EFP program virtually, in partnership with KAP, to 501 producers, including all dairy, potato and pea protein sectors, through 28 workshops. Issued 226 Statements of Completion covering 649,189 acres.
- Reviewed and provided comments on 96 Municipal Planning By-laws (10 Development Plans (DP), 21 DP Amendments, 11 Zoning By-laws (ZBL) and 49 ZBL Amendments, 6 Secondary Plans/Amendments); 12 Conditional Use aggregate proposals; and 281 subdivision applications affecting 4,260 acres of land in rural areas. Provided soils and land use report to the Manitoba Farm Industry Board for lands identified in ten Farm Land Ownership Act Exemption Requests.
- Participated in virtual discussions with five municipalities/planning districts to facilitate development of land use planning policy from an agricultural perspective.
- Provided technical leadership on CAP-Ag Action Manitoba Assurance BMP programming for the Watershed Ecological Goods and Services Assurance BMPs and the Ag-Action Manitoba Assurance BMPs.
- Increased usage of AgriMaps by 15 per cent.
- Reviewed 1,200 soil interpretations with engineering support from the Engineering Services Team (EST) comprising PAMI and the Agri-Resource Engineer. A summary table of 2020/21 EST projects is provided.

Summary of 2020/2021 EST Projects	Funding
Grain Handling Engineering Support for Farmers (2)	\$ 36,988
Engineering Assessment and Publication of the Manitoba Land Calculator	\$ 19,537
Phase II of a Stationary N2 Gas Euthanasia System	\$ 19,454
Conceptual design of a mobile cattle monitoring and sorting system	\$ 47,429
Options for Handling Milkhouse Washwater	\$ 18,742
Above Ground Burial of Pig Mortalities at Brady Resource Management Facility	\$ 29,558
MARD Engineering Support	\$ 34,050
Optimization and Commissioning of Manitoba Disease Response Tactical (DRT) System	\$ 11,952
Surface and Groundwater Evaluation for an Emergency Mass Mortalities Site in the RM of De Salaberry	\$ 72,267
Advanced GIS Analysis to Determine Changes in Prairie Pothole Hydrology	\$ 48,231
Total	\$ 338,208

- Developed educational videos on soil health and fertility management for the 2020 Virtual Crop Diagnostic School. Delivered 14 presentations promoting practices to improve soil health for enhanced productivity, and to support regenerative agriculture and sustainable production of protein in Manitoba.
- Supported the Prairie Provinces Certified Crop Advisor Board to help strengthen the quality of the certification process through improving the soil and water management section.
- Supported the U of M Faculty of Agricultural and Food Sciences in developing and delivering the new soil management focussed AGRI 1600 Introduction to Agri-Food Systems course.
- Contributed to the design of the roadmap to quantify soil organic carbon change on Canada's grasslands being led by Alberta Innovates and the Canadian Forage and Grassland Association.
- Installed two new weather stations at Riverton and Stead.
- Supported the Minister of Conservation and Climate as delegated authority of the crop residue and non-crop herbage regulation, issuing 42 permits from August 1 to November 15, 2020. Due to COVID-19 concerns and the wet fall of 2019, spring burning recommendations were issued daily with suggestions on how to minimize smoke in populated areas.

4 (c) Agri-Resource

Expenditures by Sub-Appropriation	Actual	Authority	Variance	Expl.
	2020/21	2020/21	Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	
(1) Salaries and Employee Benefits	3,412	39.00	3,605	(193)
(2) Other Expenditures	998	-	1,378	(380)
Total Sub-Appropriation	4,410	39.00	4,983	(573)

SUSTAINABLE AGRICULTURE INCENTIVES PROGRAM – 4D

MANDATE

To improve land, air and water resource management through cost shared investment in Beneficial Management Programs (BMP) on farm.

ACTIVITIES

- Provides financial assistance to agriculture producers for adoption of targeted BMPs that improve the environmental sustainability of their operations and enhances public trust in agricultural operations.
- Incorporate Low Carbon Economy Leadership Funding (LCEF) into delivery and expansion of BMPs offered under Sustainable Agriculture Incentives Program.

ACTUAL RESULTS

- Approved 167 BMP projects for \$1,993,919 and paid out \$624,942 for 135 BMP projects (includes carried over projects from 2018/19 and 2019/20).

4 (d) Sustainable Agriculture Incentives Program

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Grant Assistance	819	-	1,500	(681)	1
Total Sub-Appropriation	819	-	1,500	(681)	

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	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
Recovery	(819)	-	(1,500)	681	1
Total Sub-Appropriation	(819)	-	(1,500)	681	

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

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

INDUSTRY ADVANCEMENT – 5A

MANDATE

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

ACTIVITIES

- Develop new, enhance existing and maintain farm management decision tools and resources.
- Provide financial and cost related risks with decision-making tools and educational resources to farmers to manage market, through the website, presentations and tradeshow.
- Provide financial analysis and recommendations to the Manitoba Farm Industry Board to support mediation for farmers in financial difficulty.
- Provide farm management analysis with emphasis on animal and plant protein, potatoes and Crown land productivity.
- Deliver CAP-Ag Action Manitoba business management programming to support establishing farmers and expanding livestock operations.
- Interact with establishing farmers at the University of Manitoba, Assiniboine Community College, Farm Women's Conference and through the 4-H program.
- Deliver the Family Farm Recognition program to recognize continuous family farm operations; create a new Legacy award to recognize 150 years of ownership.
- Develop and deliver development tools, resources and training on organizational assessment, strategic planning, leadership and governance to industry organizations.
- Provide comprehensive support and training to agricultural organizations in identifying and assessing risks within an organization.
- 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 (CAP-Ag Action Manitoba program).
- Strengthen establishing farmer organizations and their organizational capacity through training, mentoring and tools.

- Support leadership programming to rural women through the Manitoba Women's Institute.
- Manage service and/or funding agreements to strengthen industry leadership, youth leadership development and to advance departmental priorities with Manitoba 4-H Council Inc., Manitoba Women's Institute, Manitoba Association of Agricultural Societies (MAAS), Manitoba Agricultural Hall of Fame, Manitoba Agricultural Museum (Austin) and others as required.
- Provide grant funding for infrastructure, and educational activities to support Ag Societies to increase public awareness and trust of agriculture.
- Continuous improvement of the department's website to enhance client experience and usage, including the use of online videos and live web chat.
- Create and convert existing on-line calculators, videos and interactive tools to support mobile and desktop users.
- Provide first point of contact for clients for departmental programming.
- Provide awareness and information (general and specific) to primary agriculture clients and organizations at industry events.
- Implement the BSC to contribute to government's efforts to measure results.

ACTUAL RESULTS

- Enhanced five farm management resources; maintained 99 resources and kept in print/online. Examples of tools enhanced or maintained include: AgrilInsurance analysis in crop and forage cost of productions; land rental/value tools, (which generated 223 interactions with producers on determining land rent/values); production economics tools, (which generated 569 interactions on crops, livestock, forage and machinery); crop and livestock costs of production.
- Created and produced three videos, posted to the Farm Management section of the department website and YouTube channel (1,668 views). Delivered virtual presentations in seven workshops, 17 live webinars, and three virtual webinars to adjust to COVID-19 conditions.
- Maintained/updated livestock price insurance tool for beef producers and helped beginning/existing producers on use of tool to mitigate market risk.
- Engaged 108 Manitoba Farm Industry Board clients, providing financial analysis and recommendations to Manitoba Farm Industry Board.
- Updated livestock and special crops cost of production resources to support animal and plant protein production.
- Engaged 58 farmers in CAP Ag Action interactions for beginning farmers/expanding livestock operations and skills development.
- Participated in 32 post secondary classes through virtual platforms.
- Recognized 33 family farms for continuous family ownership including 18 for achieving Century Farm status and 15 for achieving Heritage Farm status. Legacy Farm status recognitions were not recognized due to program announcement in the final quarter of the year.

- Completed 10 strategic planning/facilitated/industry consultation sessions and 10 web-based resources developed, supporting 50 organizations.
- Developed 75 web resources and hosted three online risk management seminars engaging 207 participants and 114 organizations.
- Completed 11 technical assessments and nine organizational assessments.
- Completed mentorship and interactions with six establishing farmers through post-secondary institutions.
- Engaged 32 applicants within four activity streams of Industry Organization program funding; reviewed and assessed with 27 industry organization applications approved.
- Supported and strengthened young farmer organizations through technical assistance (KAP Young Farmers Committee and the Outstanding Young Farmers of Manitoba), engaging 115 participants from 20 organizations through resources and mentoring.
- Manitoba Women's Institute (MWI) hosted seven virtual events with as many as 150 participants at each event.
- Provided grant funding, technical assistance and mentorship to support the Manitoba 4-H Program's youth development activities, impacting over 1,900 members and 600 leaders.
- Supported the development of Manitoba youth through creation of a \$1 million endowment with the Brandon and Area Community Foundation to provide over \$42,000 in scholarships per year through the 4-H Manitoba Leaders of Tomorrow Endowment Scholarship Program.
- Administered six funding agreements to support agricultural, youth and rural related outcomes to organizations including Manitoba 4-H Council, Manitoba Women's Institute, Manitoba Association of Agricultural Societies, Manitoba Agriculture Hall of Fame, Manitoba Agricultural Museum and Alexander Cherban Agriculture Industry Development Program.
- Launched the Alexander Cherban Agriculture Industry Development Program, to support public trust in agriculture and awareness of career opportunities. The program is administered by the Manitoba 4-H Council Inc. The first \$50,000 of funding is to be awarded in early 2021-22.
- Provided \$95,000 in total funding to 51 Agricultural Society infrastructure projects with a total project value of \$1.6 million.
- Supported Agricultural Societies with \$113,000 in grants to support ongoing costs during a year where most Ag Society events were cancelled due to the COVID-19 pandemic.
- Updated and improved the website including 279 web resources. Interactive chat was not pursued, pending the development of the department's new service delivery model. Web hits on the branch's internet content included 8,139 for Industry Leadership and 17,785 for Farm Management resources.
- Created and enhanced five online calculators. Preliminary scoping completed to develop mobile-friendly tools was undertaken.

- Conducted over 26,900 interactions with clients through phone calls, emails and physical visits. Interactions at agriculture industry events were limited as most Industry events (e.g. Ag Days, Crop Connect and many more) were cancelled due to the pandemic.
- Developed measures for a branch BSC.
- Provided technical support and funding (through CAP – Ag Action Manitoba) to a special COVID-19 Strategic Initiative response project to support development and promotion of printable electronic resources on food literacy, safe preparation of affordable and available food (with an emphasis on Manitoba-produced ingredients) and home budgeting for Manitoba families.

5 (a) Industry Advancement

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,534	44.00	3,474	(940)	1
(2) Other Expenditures	341	-	890	(549)	2
(3) Grant Assistance	1,546	-	755	791	3
Total Sub-Appropriation	4,421	44.00	5,119	(698)	

1. *The variance is primarily due to vacancies and voluntary reduced workweek savings partially offset by severance/vacation pay costs.*
2. *The variance is primarily due to expenditure management measures, lower costs due to vacancies and reduced travel and other activities due to COVID-19.*
3. *The variance is mainly due to an endowment grant to the Brandon Area Community Foundation to establish the Manitoba 4-H Scholarship Program.*

PRIMARY AGRICULTURE – 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

- Support Crop Diversification Centres (CDCs) to conduct crop and agronomic trials to further farm profitability, risk management, sustainability and increasing value-added processing. Examples include trials on intercropping and regenerative agriculture, Manitoba Crop Variety Evaluation Trials (MCVET) and trials to support varieties and characteristics of crops for food and agriproduct processing.
- Consult with industry and academia on the CDC program to determine opportunities to reduce duplication, create efficiencies and increase alignment with industry activities and priorities.
- Support beef industry innovation and knowledge transfer through funding to the Manitoba Beef and Forage Initiatives (MBFI).
- Develop and deliver extension programs, training and web resources relevant to crop and livestock industry, producers and agronomists.
- Implement a three-year pilot project to test targeted approaches to reduce livestock industry loss from wildlife predation, in partnership with industry stakeholders.
- Support science-based and economic evaluations of crop protection products.
- Support surveillance, diagnostic efforts and communication of crop and animal diseases.
- Support development of an industry-government ASF response plan to enhance regulatory and operational infrastructure for managing a disease outbreak.
- Implement the Manitoba Protein Advantage strategy (MPA) through focus on: grassland productivity; crop trials and disease reduction/management; coordination of industry and academic research and innovation; and industry-focussed strategies to increase production and value.
- Increase irrigated acres to support potato processing industry growth.
- Promote 4R’s (right source, right rate, right time, right place) of crop and pasture fertility through extension and demonstration.
- Support and develop new value in hemp and cannabis through varietal production, systems and agronomic practices.
- Support agriculture and food assurance systems to retain/gain market access including: licensing; disease testing surveillance/mitigation; proof of livestock ownership; export certification and rural large animal veterinary presence.
- Assess potential impacts of climate change on one commodity supply chain.

- Improved client accessibility to department services and programming.
- Implement the BSC to contribute to government's efforts to measure results.
- A multi-year hemp value action plan is created; value opportunities and strategic advantages are identified; hemp industry development increases (see 5A for expected results for hemp investment).
- Increased education on using and licensing pesticide applicators and reduced pesticide drift.
- Proof of livestock ownership supported through the livestock brand registry (2,300 unique brands); licenses issued for 130 livestock dealers and agents; bonds and applications for five new dealers.
- Bee diagnostic services established at the VSD, resulting in faster test results and quicker responses to disease identification.
- Trained and audited industry personnel to support inspection of 35 hatchery supply flocks enhancing turkey export opportunities.
- Increased Premises ID participation enhancing planning and emergency response and animal welfare.
- Mitigated risk of Bovine Tuberculosis spread from wildlife to livestock in the Riding Mountain Eradication Area.
- Twenty-seven rural VSD supported; 10 veterinary students supported for summer employment; administrative burden reduced by 80 per cent for the veterinary summer student program.
- Potential impacts of climate change modelled for one commodity supply chain to inform industry strategic planning.
- Increased use of social media and video to extend information to producers; increase of 10 per cent in web traffic to livestock, crops and apiary pages.
- The BSC management tool has been implemented.

ACTUAL RESULTS

- CDCs conducted 187 projects representing 9,060 research plots. Results were shared with producers and the processing industry. Data from MCVET published in Seed Manitoba. Four pea and two soybean variety trials were conducted at CDCs. Pea protein evaluation for all six sites were done at Melita Diversification site. Results were posted on SEEDmb.ca website.
- CDCs supported the development of a hemp strategy for the Province. Tested four new hemp varieties through the Canadian Hemp Trade Alliance variety trials for Cannabidiol & Fibre contents.
- Promoted and conducted 10 research and demonstration projects at MBFI addressing pasture management, extended grazing, soil fertility, riparian areas, leafy spurge control, and pollinator habitat. Authored 19 of the 28 project reports posted on the MBFI website which was updated in 2020. Produced and posted on the MBFI website a planned grazing video.
- Launched and produced three Beef and Forage Technical bulletins focused on farm profitability, pasture management, and nutrition. 10,000 copies of each

bulletin were distributed in Cattle Country. Each addition of Cattle Country also included timely articles by staff. Five StockTalk videos had 133 live attendees and 477 YouTube views. StockTalk topics included forage management, beef marketing, farm profitability, mycotoxins and cattle rations. A video on grazing decisions was posted on the department YouTube channel. An ammoniation trial and field day demonstrated how it can increase protein and feeding value of straw, hay, and chaff.

- Organized and delivered extension sessions and events on crop production, pest management and soil fertility/ plant health following pandemic restrictions.
- Delivered a virtual Crop Diagnostic school (276 participants), Crop Talk webinar series (4,252 YouTube Views, 1,448 Live attendees), Horticulture school (1,253 YouTube Views and 219 Live attendees) and Manitoba Agronomist Conference (394 participants), Agronomy Updates (153 YouTube Views, 90 live attendees), Crops Playlist (319 YouTube views), four Certified Crop Advisor training sessions (70 participants), seminars to five Ag retailers. Assisted in delivering a web based field tour with the CDC.
- Helped organize two vegetable extension events including the 2021 Annual General Meeting of the Vegetable Growers Association of Manitoba (22 participants) and the 2021 Direct Farm Marketing Conference (116 participants).
- Presented extension and research activity reports at the Prairie Fruit Grower Association (PFGA) Annual General Meeting (30 participants).
- Conducted two on-farm tests with U of M and Manitoba Crop Alliance of fall anhydrous ammonia (with and without nitrification inhibitors). Conducted seven small plot trials across four crops and three on farm tests in corn to assess biological N fixation in non-legumes (partnered with U of M and AAFC).
- Produced in season weekly reports including 25 Crop Reports, 15 Crop Pest Updates, 40 Fusarium Head Blight Risk maps, 21 Potato Pest Risk reports. The Crop Diagnostic Lab processed 569 physical samples and provided 1,274 diagnoses.
- Developed and distributed five factsheets for berry farm pandemic guidelines (for berry farm workers, producers and customers).
- Implemented a three-year, \$300,000 pilot project with Manitoba Beef Producers (MBP), Manitoba Sheep Association (MSA) and the Manitoba Trappers Association (MTA) to reduce wildlife predation on livestock with different mitigation techniques. The project targets producers most impacted by predation losses. MBP hired a project coordinator and 550 producers responded to a survey on predation issues. A plan is underway to evaluate best practices on livestock farms in 2021/22.
- Participated in five consultations with Pesticide Management Regulatory Agency (PMRA) about the upcoming regulatory amendment of the Pest Control Products Act (PCPA) and pesticide re-evaluations. The department continues to emphasize the risk benefit analysis of pesticide products during re-evaluations and prior to discontinuation.

- Demonstrated biological pest control and bio pesticide options in the Extension of High Tunnel Technology to MB Vegetable and Fruit Producers project.
- Performed crop disease and pest surveillance including surveillance of 70 soybean, 160 canola, 140 spring wheat fields; 50 barley fields and 30 grain corn fields; weekly insect monitoring in 84 fields for Bertha armyworm (June-July), 84 fields for diamondback moth (May-June), 132 locations for grasshoppers (August), and three locations for Spotted Wing Drosophila (SWD). Information was analysed and disseminated to industry and producers through the internet and social media.
- Created an ASF leadership team with Pillar leads for business continuity, operations and logistics, communications, and resource management. Participated on national Executive Management Board for ASF and regional planning and steering committees. Worked with Agri-Ecosystems and Land Management on creating an emergency mass mortality disposal site and developing a project to assess and mitigate ASF risks from wild pigs.
- Completed an internal Beef Options paper to provide direction to department staff activities to support the beef sector. The five per cent rule for beef profitability was identified as an extension message that was promoted in a Beef and Forage Technical Bulletin distributed to 10,000 subscribers of Cattle Country. Options papers for sheep and bison were initiated but not completed due to key staff being on leave.
- Analyzed crop performance including yield, protein, and fusarium damaged kernels and deoxynivalenol (DON) through the Manitoba Crop Variety Evaluation Trials (MCVET). In 2019-2020 MCVET conducted trials of 6,738 plots of wheat, barley, oats, winter wheat, fall rye, flax, peas, soybeans and edible beans across 16 different locations in Manitoba.
- Collaborated with Canadian Malt Barley Technical Centre (CMBTC) to evaluate new and established malting varieties for performance in the field and in the malting and brewing process. Completed the final year of a wheat management study and delivered extension related to the findings of the project.
- Worked with Manitoba Pulse and Soybean Growers (MPSG) and conducted 38 trials representing over 150 different varieties of soybeans, fababeans and dry beans.
- Implemented a pilot project to allow an additional 675 irrigated acres on the Assiniboine Delta Aquifer. The increase was achieved by applying the same amount of water over more acres, staying within the current water allocation amounts.
- Promoted 4 R's for fertilizer use and stewardship through two Soil Fertility courses (89 participants).
- Prioritized grassy weed control in Hemp at the Canadian 2021 Minor Use Priority Setting Workshop to support hemp growers.
- Issued licences for 72 dealers and 71 agents, including three new dealer and 12 new agents licences. Brand registry of 2,300 unique brands was maintained, the brand database software was updated, and new quality control steps for issuing

brands were implemented. A web page describing allowable brand images was posted online.

- Trained and audited the sector's poultry agents who conduct breeder flock inspections, as well as disease surveillance activities for the Poultry Export Enhancement program. This program exists to address growing market opportunities for chicks, poults and hatching eggs in several US states. Administered the Turkey Growers Export Enhancement Program, which certified exports of 450,000 live turkeys in 2020 from five farms to a processor in Minnesota.
- Created the Veterinary Student Employment Program (VetSTEP) which provided grants to 16 rural veterinary clinics to support providing summer work terms to 19 veterinary students. The new program eliminated 90 per cent of the administrative burden associated with the previous program where students were hired as government employees to work at clinics. Government administration time was reduced by 0.3 FTE. Provincial grants totaling \$479,000 were administered for the 27 Veterinary Services Districts (VSD) in rural Manitoba. Eleven students received Veterinary Sciences Scholarships of \$1,125.
- Assessed an application for a barrier fence and provided an \$8,000 grant to producers in the Riding Mountain Eradication Area for construction of a fence around a feed storage area. Promoted linkage of PID to Canadian Cattle Identification Agency (CCIA) accounts to enhance surveillance at slaughter for bovine Tuberculosis. Mailed PID linkage grant applications to the six producers with new PID in the Riding Mountain Eradication Area. One producer completed the linkage. A staff vacancy limited risk mitigation activities.
- Reviewed certification and issued licences to 1,530 pesticide applicators, 347 pesticide dealers and 54 manure applicators.
- Worked with Lands Branch to contract an evaluation of best management practices that can reduce Green House Gas (GHG) emissions on Manitoba beef farms. Participated on the committee of a graduate student completing a Masters project modelling GHG emissions.
- CDCs assessed intercropping as within-field diversification strategy of adapting to climate change in grains, oil seed, and forages.
- Supported Farm Adaptive Capacity.
- Provided timely crop information (e.g. Crop Report, Seasonal Reports and other information) to stakeholders through the departments website. Created videos and posted to department YouTube Channel (Crops Playlist 319 YouTube views, Beef and Cattle Playlist 485 YouTube views). Created 137 tweets on crop issues and reports generating 6,097 engagements.
- Implementation of the Balance Scorecard at the branch level was delayed due to the pending department restructuring in 2021/22.

5 (b) Primary Agriculture

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	5,084	64.00	5,961	(877)	1
(2) Other Expenditures	743	-	1,270	(527)	2
(3) Grant Assistance	1,168	-	1,065	103	
Total Sub-Appropriation	6,995	64.00	8,296	(1,301)	

1. The variance is primarily due to vacancies and voluntary reduced workweek savings partially offset by severance/vacation pay costs.
2. The variance is primarily due to expenditure management measures, lower costs due to vacancies and reduced travel and other activities due to COVID-19.

FOOD AND AGRI-PRODUCT PROCESSING - 5C

MANDATE

To identify and support opportunities within the agri-food and bioproduct industries, that create employment through investment, business growth, industry growth and sustainability.

ACTIVITIES

- Attract food and agriproduct processing companies to invest in Manitoba, in partnership with Economic Development and Training, and provincial economic development partners. Contribute to Manitoba's target of 40,000 new jobs through the Manitoba Protein Advantage (MPA) strategy and other industry segment development.
- Hold a 2020 Protein Summit to further the MPA.
- Provide a single point of contact for agriculture, food and agriproduct investment. Collaborate with provincial economic development partners and other economic partners to coordinate investment attraction.
- Support food and bioproduct processing businesses through the CAP-Ag Action Manitoba programming targeted at capital, innovation, expansion and market development.
- Support innovation to increase value from co-products and decrease processing waste.
- Create and maintain business development tools and resources for food and agriproduct entrepreneurs.
- Identify red tape and barriers to attraction, establishment and growth of food and agriproduct businesses.
- Coordinate departmental implementation of the MPA strategy.
- Acquire data sources and intelligence to support business and industry development. (e.g., protein industry market intelligence).
- Create sector profiles that enable the development, implementation, monitoring and measurement of sector action plans.
- Work with industry, Economic Development and Training, economic development partners and academia to develop a plan to address current and future labour needs that align with protein industry development and other priorities.
- Attract biodiesel processing investment to support increased demand for biofuels in Manitoba (five per cent biodiesel mandate) and opportunities outside Manitoba.
- Develop policy options to support bioproduct processing and adoption.
- Bring industry, academia and other stakeholders together to strategize on developing the cannabis and hemp edibles industry.

- Attract new entrants (people, acres and value added products) to organic production and processing through technical education and communication of market opportunities. Evaluate, revise, and develop client resources and services to address sector needs that build the capacity of industry.
- Support market development opportunities such as value chains, cooperative marketing channels and trade missions by building the capacity of industry and supporting the identification of “export ready” companies.
- Maintain and develop staff expert knowledge through industry networks, training, development, access to data to support work, and branch priorities.
- Increase the use of technology, including videos to provide entrepreneurs and businesses with tools, resources and training. Implement the BSC to contribute to government’s efforts to measure results.

ACTUAL RESULTS

- Attracted \$31.6 million in new protein investments, creating 43 new jobs; and \$6 million in CBD extraction, creating 35 jobs.
- Held the second Manitoba Protein Summit on February 23-25. See below for more details.
- Developed a protein investment-focused sell sheet in partnership with Yes! Winnipeg, a provincial economic development partner. Updated two existing investment-focussed protein sell sheets.
- Provided a single window approach to government services and processes, with technical assistance to implement investment projects for 30 agri-food based industrial development prospects.
- Supported 45 companies through CAP-Ag Action Manitoba Capital Assets & Equipment projects totalling \$9.54 million in project support, leveraging \$150.6 million in private sector capital and creating 320 jobs upon completion. The Market Development program approved 22 projects for total grants of \$301,800. The new Manitoba COVID-19 response initiative under CAP-Ag Action Manitoba funded 17 applications for total grant funding of \$160,900.
- Assisted six companies to review opportunities for new value co-products of manufacturing, reduce water and energy usage or reduce solid and liquid waste.
- Developed a “pathway” tool for business and product development to identify provincial and other agencies assets for business development, product and process development (including research) and market development. Two resources were updated. Engagement of industry and strategic partners during the development phase ensured relevance and usefulness of the tool.
- Assisted several companies to remove red tape barriers to food and agri-product business development, including innovation in wastewater management for animal protein processing.
- Elements of the Manitoba Protein Advantage were implemented as follows:
- Partnered with the Manitoba Protein Consortium to host the second Summit as a virtual event, which was attended by over 650 individuals from 31 countries. The

Summit featured five international organizations including the United Nations, and was a platform to strengthen relationships within Manitoba's protein industry.

- Collaborated with the Manitoba Protein Consortium and global organizations such as Good Food Institute (Washington), Hatch Aquaculture (Hawaii), Wageningen University and Research (Netherlands), Food and Bio Cluster Denmark to share market intelligence through a 'Plant Protein Trends' webinar (300 participants) and a 'Emerging Protein Technologies' webinar (200 participants), raising the profile of the province to a global audience.
- Collaborated with the Manitoba Protein Consortium to champion a global Sustainable Protein Challenge Dialogue from June 2020 to March 2021. Engaged 85 stakeholders and worked with a Sustainable Protein Design Team of 17 industry leaders from Canada (Manitoba, Ontario and Saskatchewan), the Netherlands and Bulgaria to prioritize strategic actions and identify opportunities by creating the Sustainable Protein Action Plan for Manitoba. This Action Plan will position Manitoba as a global leader in sustainable protein and attract new investments from protein companies interested in expanding operations to North America.
- Partnered with the Manitoba Protein Consortium to join a national coalition along with 37 organizations to develop a National Index to create a verifiable and credible index to showcase "the unique characteristics of Manitoba's protein industry to the world" through metrics that build consumer trust in both domestic and export markets.
- Collaborated with the Manitoba Protein Consortium to engage 40 organizations through focus groups to motivate stakeholders to implement elements of the MPA, and gain an understanding of opportunities and growth limiting factors within Manitoba's protein industry.
- Collaborated with industry to expand the protein website to include three new sections: 'Why Invest in Manitoba', 'Sustainability' and 'Reports, Videos and Podcasts' (two sellsheets on investing in Manitoba's Protein Industry, three infographics on best practices on sustainable protein production, three reports on protein industry priorities, and eight videos of protein market trends).
- Collaborated with the Manitoba Protein Consortium and the University of Manitoba to create a Steering Committee of industry representatives to develop a Protein Research Strategy for the province (to be launched in 2021/22).
- Worked with the vegetable and honey industries to troubleshoot issues and support Temporary Foreign Worker arrivals during the COVID-19 pandemic.
- Worked with Primary Agriculture branch to complete two sector profiles for animal and plant protein.
- Published an agri-food industry work force profile to support industry and partner agencies in workforce planning and development. The profile identifies current and future needs to support industry development, and supports program and policy development. Produced five career profiles to complement the sector profiles to showcase career opportunities.

- Engaged Indigenous and newcomer communities to increase awareness of employment opportunities in agriculture and agriprocessing by working with AMIK to identify opportunities in the sector; providing information to employers on accessing job search services through Manitoba Metis Federation (MMF) and AMIK; a continued partnership with ACC and Red River College (RRC) to promote employment readiness and skills training opportunities specific to the agri-food sector, food processing training at RRC; and, development work of an agriculture apprenticeship model for further consideration by ACC with a focus on Indigenous students.
- Engaged with multiple companies exploring options to establish biofuels processing facilities in Manitoba. One project has advanced to a development decision in early 2021/22.
- Continued work with industry stakeholders such as the Canadian Hemp Trade Alliance to identify policy options to support the sector. The cannabis/hemp industry event was postponed due to COVID-19.
- Worked with more than 30 different organic and non-organic (seeking organic ingredients) food processors.
- Hosted five farm tours in partnership with Manitoba Organic Alliance with 108 participants. Partnered to host a series of five webinars for organic producers on weed management.
- Worked with organic producers industry associations to build capacity and strategic development to advance the sector. The number of certified organic acres has not yet been reported.
- Assessed readiness of seven companies to expand markets outside of Manitoba and/or internationally. Developed interdepartmental and associated partner working committee (World Trade Centre-Winnipeg and Trade Commissioners Office) for market development and trade opportunities, requests and process.
- Conducted staff training to support increased subject matter expertise in food and agri-product subsectors; continued development of staff capacity for distance and distributed learning systems for delivery of knowledge and sharing of best industry practices with clients.
- Implemented a client intake process and management system with centralized management of related information, allowing for seamless client service delivery between staff and referrals to partner agencies as needed.
- Developed four videos and seven fact sheets addressing business management topics for food and agri-product businesses, including market development, export, online and e-commerce options. Updated and enhanced web presence to reflect new resources and access from client perspective.
- Utilized the BSC management tool for branch annual strategic planning.
- Supported Manitoba's COVID-19 response to support programming gaps for food processing and surplus food identification and distribution.

5 (c) Food and Agri-Product Processing

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,106	26.00	2,574	(468)	
(2) Other Expenditures	236	-	470	(234)	
(3) Grant Assistance	-	-	125	(125)	1
(4) Capital Grants	-	-	100	(100)	2
Total Sub-Appropriation	2,342	26.00	3,269	(927)	

1. The variance is primarily due to the Agri-Food Processor Accelerator grant not proceeding.
2. The variance is primarily due to the deferral of the Commercial Community Kitchens Food Enterprise Program as a result of COVID-19.

WATER STEWARDSHIP AND BIODIVERSITY DIVISION - 6

DIVISION ADMINISTRATION – 6A

MANDATE

Creates the environment that accelerates sustainable economic development in Manitoba's water, lands, wildlife, fishery and forestry resources and ecosystems.

ACTIVITIES

- Implement policies, procedures and program activities consistent with the department's mandate, vision and mission statement. Promote collaboration across branches and departments promoting diverse perspectives to develop innovative solutions for natural resource management.
- Collaborate with other departments, organizations and stakeholders to apprise them of issues and information respecting the management of Manitoba's land, water, wildlife, fisheries and forest natural resources, and interconnected ecosystems.
- Implement policies and activities for government and non-government organizations, including the Fish and Wildlife Enhancement Fund, the Canada-Manitoba Lake Winnipeg Committee, the Manitoba Water Council, the Conservation Agreements Board, and the Beverly and Qamanirjuaq Caribou Management Board.

ACTUAL RESULTS

- Ensured all significant issues respecting the division's management of provincial land, water, wildlife, fisheries and forest resources and interconnected ecosystems were brought to the attention of the Deputy Minister and Minister.
- Coordinated the implementation of all program activities with respect to the mandate and with other organizations.
- Ensured 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.

6 (a) Division Administration

	Actual	Authority	Variance	Expl.
Expenditures by Sub-Appropriation	2020/21	2020/21	Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)
(1) Salaries and Employee Benefits	462	8.00	518	(56)
(2) Other Expenditures	43	-	74	(31)
Total Sub-Appropriation	505	8.00	592	(87)

WATER SCIENCE AND WATERSHED MANAGEMENT – 6B

MANDATE

To develop and implement science-based programs, policies and legislation to support sustainable watershed and aquifer management and planning.

To provide leadership and coordinate input into transboundary water quality and quantity management issues.

ACTIVITIES

- Operate the provincial long-term surface water quality monitoring network, and evaluate water quality throughout Manitoba. Operate the provincial groundwater monitoring network, reviewing ambient groundwater quality, water levels, and maintaining groundwater data including water well drillers' reports, groundwater levels, aquifer characteristics, and groundwater chemistry data.
- Monitor the health of Lake Winnipeg through research, partnerships, state of the lake and indicator reporting.
- Monitor water quality at Manitoba recreational beaches and provide timely water quality information to the general public.
- Assess water quality and quantity conditions across Manitoba and report for watershed and aquifer management and planning.
- Investigate issues and provide groundwater and water well information to well owners for maintenance, groundwater sampling, and seal unused wells protecting drinking water quality and human health.
- Administer The Groundwater and Water Well Act and associated regulations, including licensing water well drillers.
- Analyze impacts of multiple uses of water and respond to water issues and emergencies timely.
- Undertake hydrologic investigations for long-term planning, design discharges, water use and allocation, and licensing sustainable water control works.
- Implement the Manitoba Drought Management Strategy with partners, assessing drought preparedness, maintaining the drought monitor website, and providing updates on water availability and drought conditions.
- Develop water quality standards, objectives, and guidelines to protect water quality including refinement for the Lake Winnipeg basin and through the Manitoba Water Quality Standards, Objectives and Guidelines under the Water Protection Act.
- Provide expertise and technical input on inter-jurisdictional, interprovincial, and international water issues through forums including the International Joint Commission and the Prairie Provinces Water Board.
- Administer the Watershed Districts Program through The Watershed Districts Act and Regulations ensuring appropriate financial management.

- Provide advice and engineering support to watershed districts with respect to surface water management.
- Lead the development of watershed and aquifer management plans in The Water Protection Act and The Groundwater and Water Well Act.
- Lead the development of GRowing Outcomes in Watersheds (GROW) program and support local delivery mechanisms. Report on overall outcomes of GROW at the provincial level.
- Lead the development and implementation of nutrient management initiatives and administrating the Nutrient Management Regulation under The Water Protection Act.

ACTUAL RESULTS

- Collaborated with upstream jurisdictions to develop and implement nutrient management strategies to reduce nutrient loading to the one million square kilometer Lake Winnipeg watershed. Updated the annual Lake Winnipeg: Nutrient and Loads Status Report summarizing nutrient conditions in Lake Winnipeg and nutrient loads for major tributary rivers to 2018. The Province of Manitoba and the Government of Canada released the second edition of the State of Lake Winnipeg (2020) report.
- 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.
- Consulted on a proposed Nutrient Targets Regulation under The Water Protection Act that would establish nutrient loading targets for the four major tributaries (Red, Winnipeg, Saskatchewan, and Dauphin Rivers) flowing into Lake Winnipeg and nutrient concentration targets for total phosphorus and total nitrogen in Lake Winnipeg. Key information was developed to support the proposed Nutrient Targets Regulation, including a plain language summary and a report on Setting Phosphorus and Nitrogen Targets to Improve Water Quality.
- Conducted water quality monitoring on Lake Winnipeg. The 2020 Motor Vessel (MV) Namao spring and summer cruises on Lake Winnipeg were cancelled due to the COVID-19 pandemic. Some monitoring of physical, chemical, and biological conditions in the south basin of the lake was completed in collaboration with the Manitoba Wildlife, Fisheries and Resource Enforcement Branch. One scientific cruise on the MV Namao was completed in the fall of 2020 in collaboration with the Lake Winnipeg Research Consortium and winter water quality monitoring was conducted in collaboration with Environment and Climate Change Canada.
- Assessed water chemistry from streams, rivers, and lakes on status and health of waterbodies including 65 long-term water quality stations on 51 waterbodies and ensured continuation of these important data sets despite COVID-19.
- 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 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.

- Responded to approximately 50 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. Manitoba's water quality standards, objectives, and guidelines were used as input to Environment Act licence conditions and used to assess water quality with tools like the Water Quality Index.
- 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 104 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 81 nutrient management plans. Provided nutrient management zone information for 34 onsite wastewater management systems and reviewed 12 additional site-specific soil survey reports requesting re-zoning of locations mapped as nutrient management zone N4.
- Licensed 30 companies under The Ground Water and Water Well Act to drill water wells, closed loop systems, environmental and geotechnical wells in Manitoba in 2020. Approximately 1,130 newly drilled wells and 450 well sealing reports were added to the GWDrill database. Over 1,100 additional well reports were reviewed, updated or revised.
- Distributed Manitoba Well Aware education material to well owners, water well drillers and the public and information provided to the public on expected groundwater conditions and construction. Provided groundwater expertise to other areas of government 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.
- Responded to approximately 400 queries, requests, concerns and complaints regarding groundwater and wells. This includes responses to the public, consultants, industry, academia, non-governmental organizations, watershed districts and other provincial and federal agencies including 56 separate large groundwater level dataset requests from 296 monitoring wells covering various areas and time-periods.
- Collected water level information from more than 850 monitoring wells of which 590 are equipped with daily water level recorders which provided input to drought monitoring and aquifer management planning.

- Continued implementing the Saskatchewan-Manitoba MOU Respecting Water Management, including through regular meetings between staff in Manitoba and Saskatchewan, information sharing, coordinating presentations to communities and stakeholders, and joint workshops on topics such as irrigation expansion.
- Led implementation of the Manitoba Drought Management Strategy including leading and coordinating the activities of the Manitoba Drought Assessment Committee and the Interdepartmental Working Group for Water Supply Management. Maintained and enhanced the Manitoba Drought Monitor website (WWW.MANITOBA.CA/DROUGHT) to provide up-to-date drought information to residents, stakeholders and government on current drought conditions and available drought-related programming.
- Produced monthly (March – October) Water Availability and Drought Conditions reports for Manitoba through analysis of drought indicators. Reports included a summary of agricultural, wildland fire and community water supply impacts due to drought conditions.
- Worked with other departments and stakeholders during hydrological drought (or low flow) conditions to help alleviate downstream impacts to water users, residents and the environment.
- Produced site-specific and main-stem assessments of surface water availability for water use licensing under The Water Rights Act.
- Led the development of a provincial water management strategy for Manitoba.
- Completed an advanced GIS investigation in collaboration with PAMI in the Oak River Watershed into the relationship between drainage feature density and effective drainage area.
- Supported enhanced surface water management through provision of research and modelling expertise to various projects across southern Manitoba.
- Reviewed and provided technical, professional and/or engineering input, advice, planning assistance, GIS mapping and analysis, and information to watershed districts, other government departments, cottage associations, academia, and others for a variety of water quantity and quality issues, water infrastructure proposals and technical advisory committees.
- Provided watershed engineering design services for 25 watershed district projects, engineering advice for 24 requests related to water control works license applications or issues and water use licensing requests, and five site assessments for the technical review committee under The Planning Act.
- Supported Watershed Districts in the implementation of GROW, a made-in-Manitoba approach to ecological goods and services programming to improve watershed health, resiliency to climate change, and management of nutrients. Through collaboration with a cross department steering team, finalized policy and program criteria and provided direction and oversight to 14 watershed districts in delivery of their local GROW programs.

- Provided professional planning and program support and leadership to 14 watershed districts including assistance with program delivery, watershed and aquifer management planning, provincial grant administration, policy development, and board governance.
- Prepared the 2019/20 annual report for the Watershed Districts Program.

6 (b) Water Science and Watershed Management

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21 \$(000s)	2020/21 FTEs	2020/21 \$(000s)	Over/(Under) \$(000s)	
(1) Salaries and Employee Benefits	2,859	37.00	3,284	(425)	
(2) Other Expenditures	781	-	875	(94)	
Total Sub-Appropriation	3,640	37.00	4,159	(519)	

WILDLIFE AND FISHERIES – 6C

MANDATE

The Wildlife and Fisheries Branch manages, protects, and enhances wildlife and fisheries resources, as well as, terrestrial and aquatic ecosystems, for the benefit of all Manitobans.

The Branch ensures that management and administration of wildlife and fish resources supports economic and natural resource development in a sustainable manner.

ACTIVITIES

- Increase and integrate 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 and local 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 implement management programs with other agencies to mitigate the impacts of negative human-wildlife interactions.
- Manage the harvesting of fish, game animals and the trapping of furbearers to ensure sustainable and humane harvests, economic development, public safety and protection of property.
- Support on-going science and research of wildlife and fish populations and health, coordinate and/or participate in biological investigations of selected species and ecosystems to identify distribution, limiting factors, critical habitat, conservation status, implementing mitigation and conservation measures in cooperation with other agencies.
- Deliver a strategy to eco-certify commercial net fisheries in Manitoba.
- Ensure 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 align with departmental priorities, and reported consistently.
- Deliver recreational angling and hunting programs to increase user participation.
- Operate fish hatcheries and spawn camps at Whiteshell, Swan Creek and Clearwater that 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.

- Enhance the management and sustainable use of wildlife management areas for the benefits of wildlife and people.
- Provide fishers with financial assistance for transportation costs on selected northern and remote lakes and for selected fish species.
- Oversee the prevention, detection, mitigation and eradication of wildlife diseases through provincial programming and national cooperation.

ACTUAL RESULTS

- Conducted 20,940 COVID-19 compliant watercraft inspections. In total, 14 percent of these vessels were decontaminated. Four Zebra mussel fouled boats were intercepted. The Watercraft Inspection (WCI) program also engaged the public 373 times in non-watercraft inspection interactions and supported COVID-19-related public health enforcement activities.
- Sampled 160 locations at 100 waterbodies for Zebra Mussel and Spiny Waterflea. Sampled 92 of these waterbodies to look for new detections. Sampled six waterbodies to confirm previous detections.
- Dedicated 554 person hours to monitoring and understanding habitat need for recovering Lake Sturgeon populations in the Assiniboine River through the Aquatic Species-At-Risk Program.
- Produced and stocked 36,680,000 walleye fry and 512,640 trout in Manitoba waterbodies through the Fish Culture Program.
- Continued work on provincial strategy to mitigate risks associated with Chronic Wasting Disease (CWD) entering Manitoba wild cervid populations or domestic elk farms, and exploring new regulations to help mitigate CWD risks.
- Collaborated with local moose hunting communities to begin a Shared Management process. Shared information about the 2020 aerial moose surveys directly with communities and user groups across the province.
- Continued to work with local communities on a collaborative project to collect big game mortality information.
- Continued to support the implementation of e-licensing by ensuring all hunter, trapper, and Wildlife Management Area (WMA) special use permits are now completed through the online system.
- Continued ongoing discussions with the Western Regional Elk Board and the wildlife staff from Riding Mountain National Park to discuss elk management concerns in game hunting areas (GHAs) 18, 18A, 13, 13A, and GHAs 23 and 23A, respectively.
- Facilitated research on the biology and ecology of wild species through ongoing big game monitoring programs, such as GPS-collar programs for woodland caribou and moose throughout the province, and including mortality assessments of collared and un-collared animals brought to the attention of wildlife staff. Data from these programs is used to inform land use management decisions and is incorporated into species range planning and species survey and management guidance documents.

- Continued literature reviews and compilation of science-based information to update guidance documents for big game species. These documents are used to strategically plan future wildlife surveys and to guide overall wild species management within Manitoba.
- Developed formal procedures related to the management of orphaned black bear cubs in collaboration with wildlife rehabilitators to increase transparency and communication of management actions.
- Continued collaboration with outfitters, moose hunters, local communities, the Canadian Wildlife Health Cooperative, the Assiniboine Park Zoo, the University of Saskatchewan, Memorial University of Newfoundland, and the Natural Sciences and Engineering Research Council of Canada on a Moose Health Initiative to gain a better understanding of potential underlying causes of declining moose populations and to inform management actions. As part of the Moose Health Initiative, hundreds of biological samples from dozens of moose are being collected and analyzed to establish baseline health data for moose in Manitoba.
- Continued collaboration with the U of M, U of S, and U of W on other projects including determining the prevalence and distribution of parasites, such as the brainworm parasite (*Parelaphostrongylus tenuis*) and its hosts, to help assess potential impacts to moose populations in Manitoba.
- Prepared and delivered annual program implementation plans for the Bovine Tuberculosis and CWD programs. This program is in collaboration with the CVO, the Winnipeg Veterinary Diagnostic Laboratory, CFIA, Parks Canada, the Manitoba Wildlife Federation, and the Canadian Wildlife Health Cooperative through the U of S.
- Operated 25 Drop-Off Depots where big game hunters could submit both voluntary and mandatory biological samples. The sample submission program was suspended in November 2020 due to COVID-19 concerns.
- Sampled and analyzed 340 white-tailed deer, 46 elk, 10 mule deer, and 18 moose for signs of Bovine Tuberculosis, CWD, and other diseases. All samples revealed negative results for signs of reportable diseases.
- Partnered with volunteers from Wild Gobblers Unlimited and affiliate clubs of the Manitoba Wildlife Federation in wild turkey population establishment releases. Six sites in western Manitoba received 185 wild turkeys, which were captured from several areas of high abundance. Since 2013, 906 wild turkey have been trapped and transferred to new areas of Manitoba.
- Partnered with the Canadian Wildlife Service and U.S. authorities 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.

- Continued to support the implementation of e-licensing by ensuring all hunter, trapper, and Wildlife Management Area (WMA) special use permits are now completed through the online system.
- Issued 56,823 hunting licences resulting in revenue of \$2.4 million.
- Issued 6,746 licences and permits to trappers who harvested an estimated \$1.33 million in raw fur from September 1, 2019 to August 31, 2020 (the last “Fur Year” with complete returns).
- Graduated over 250 new trappers, including through four MTA new online courses.
- Continued working with the MTA to revise the trapper education manual.
- Continued to add certified humane trapping devices to those required for specific fur bearing animals, in harmonization with all provinces and territories; new certified devices provide trappers with more choices, and ensure wild fur markets remain open to the European Union under the Canada-European Union-Russia Agreement on International Humane Trapping Standards.
- Responded to requests for fur bearer harvest information for environmental impact, compensation, and trapline management activities.
- Cooperated in trapline allocation activities throughout the province.
- Delivered the Problem Predator Removal program under an agreement with the MTA. The program responded to 29 service requests and removed 100 coyotes, 11 wolves and 9 foxes that had attacked livestock.
- Co-chaired the Livestock Predation Protection Working Group. This group, comprised of members from the MBP (co-chair), the department, MASC, MSA, Manitoba Goat Association (MGA), MTA, and AAFC, continued their work to address livestock predation protection.
- Continued to deliver the Wildlife Smart program, which promotes the coexistence of people and wildlife through public education, and conflict mitigation efforts intended to reduce the risk of conflicts between people and wildlife. Public education materials developed included fact sheets, signage, and posters; with message delivery accomplished through the government website, advertisements and published materials. Conflict mitigation equipment was purchased for use in WMA, provincial parks and other public areas.
- Delivered virtual presentations on wildlife encounter safety training to reduce the risk of dangerous wildlife encounters, particularly for people working or recreating in remote areas. Continued to monitor interaction reports between people and wildlife. Most reports continue to involve black bears. A summary of data indicated that, of the over 2,100 reports of human interactions with black bears: garbage was the most common attractant; scaring devices were deployed seven times; 232 bears were relocated by provincial staff; 1,515 bears were euthanized by the provincial staff; and 35 bears were reported killed by the public in defense of property.

- Authorized 14 pest management companies to address conflicts with certain wildlife species, particularly furbearers. Conflicts with more than 1,200 animals were addressed, with red squirrel, gray squirrel and raccoon conflicts being the most common.
- Continued to deliver the Waterfowl Crop Damage Prevention (WCDP) Program. Scaring efforts in agro-Manitoba included the deployment of 107 scare cannons, 171 scare effigies, and the issuance of seven scare permits. Program activities are estimated to have protected about 2,315 hectares of agricultural crops, with an estimated value of \$373,000.
- Facilitated research in Manitoba on the biology and ecology of wild species, ranging from endangered butterflies to amphibians, birds, small mammals, and cougars.
- Issued 18 wildlife scientific research permits and 24 Species at Risk research permits, allowing research, impact assessment or educational initiatives on a variety of species ranging from endangered butterflies to polar bears.
- Released 19 adult Poweshiek skipperlings (an endangered butterfly) in the Tall Grass Prairie Preserve through an innovative “headstart” program developed by the Poweshiek Skipperling Recovery Team. This was the largest number released back into the wild since the project’s inception. This year, three pairs of the butterfly were also bred in captivity, a world first for the species. The “headstart” program was developed to raise Poweshiek skipperlings in captivity and release them to augment existing wild populations. The recovery team includes participation by Wildlife and Fisheries, the U of W, Nature Conservancy Canada, Environment and Climate Change Canada, Living Prairie Museum and the Assiniboine Park Zoo where “headstart” activities are carried out. Other activities of the team include surveying known and potential sites for Poweshiek skipperlings and sequencing the genome of the species.
- Maintained information in The Manitoba Conservation Data Centre Biotics database on 17,703 (previous 17,327) wild plant and animal species, including mammals, birds, reptiles, amphibians, fish, insects, mussels, crayfish, ferns, flowering plants, lichens, mosses, liverworts and mushrooms. Of these, 3,098 (previous, 2,808) species are endangered or of conservation concern. The database contains 98,009 (previous 93,783) observations and 57,015 (previous 54,821) mapped features based on species observations. Biotics data sets were used to review 121 Environment Act license documents, and 263 other license, permit, lease, and land sale requests.
- Entered into 12 (previously five) data licensing agreements with The Manitoba Conservation Data Centre (CDC) to better assist partners in planning and implementing development projects to minimize impacts on species at risk in Manitoba, and to improve data holdings of the CDC database. The CDC responded to 393 (previous 281) requests for information from rare species database.

- CDC received approximately 111,250 (previous 36,000) observations for potential inclusion in its species at risk database; approximately 23,664 (previously 34,000) of these were reviewed and processed. Organizations contributing data included Bird Studies Canada, Manitoba Herp Atlas (reptiles and amphibians), the Tall Grass Prairie Preserve, Parks Canada Agency and Fisheries and Oceans Canada. Hundreds of volunteers contributed much of these data through citizen science based programs.
- CDC continued to partner with conservation groups (Nature Conservancy Canada and MHHC) and governments (Canadian Wildlife Service and Rural Municipalities) to share data and update records in its database and conduct species at risk inventories. It also partnered with Parks Canada who provided information on plants and animals in Riding Mountain and Wapusk National Parks to the Data Centre to create new and updated records in its database for those species that are of conservation concern.
- Utilized the CDC Biotics database by Conservation and Climate to inform protected areas planning and management. Biotics data were also used by the MHHC to secure species-at-risk habitat through land purchases and Conservation Agreements.
- Provided financial assistance and guidance to university students for two projects: “The Effects of Human Disturbance on Wild Bee Communities and Pollination Networks in Southern Manitoba” and “Productivity of Western Grebes in the Presence and Absence of Carp Exclusion Structures at Delta Marsh.” The Alice Chambers-Hyacinth Colomb student assistantship program provided project funding and guidance for undergraduate and graduate students undertaking academic research.
- Provided support to the Association of Manitoba Community Pastures, delivering biodiversity surveys on 10 community pastures. Five provincially listed avian Species at Risk, all of which are also federally listed, and an additional five federally listed avian Species at Risk, were breeding on the pastures. Results contributed to enhancing grazing management plans for species at risk while supporting improved grazing management on the pastures. In addition, almost 100 avian point counts were delivered on Ellice-Archie and Spy Hill-Ellice Community Pastures. Results indicate that these pastures continue to support the highest known concentrations in Manitoba of two Species at Risk.
- Continued to lead the implementation of the provincial boreal woodland caribou recovery strategy and the development of boreal woodland caribou management unit range plans.
- Negotiated a Section 11 conservation agreement between Manitoba and Environment and Climate Change Canada, outlining commitments to assure sustainable boreal woodland caribou populations in Manitoba. Work is ongoing to undertake indigenous, industry and public engagement on the agreement and to move forward to having both parties sign the agreement upon completion of the engagement activities. A corresponding Contribution Agreement for federal funding (\$475,000 over 2 years) was concluded in partnership with the Manitoba

Habitat Heritage Cooperation to support ongoing monitoring efforts and to support the development management unit range plans. Under the funding agreement, data analysis required for understanding the current state of boreal caribou populations and habitat was completed.

- Delivered the Prairie Stewardship for Species at Risk in Manitoba project which mowed 204 hectares (504 acres) of shrub encroachment on native mixed-grass prairie in the Spy Hill-Ellice and Ellice-Archie Community Pastures to enhance them for native grassland species.
- Conducted species at risk surveys as part of the Tall Grass Prairie Communities and Species at Risk Project, at the Manitoba Tall Grass Prairie Preserve on 54 properties, totaling 3,510 hectares (8,640 acres) and monitoring continued for seven provincially listed species (five of which are also protected federally) and 12 provincially rare species. Submitted 1,749 observations for rare and endangered species to the CDC.
- Hosted the annual Tall Grass Prairie Day event at the Tall Grass Prairie Preserve, with 35 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.
- Renamed Six Wildlife Management Areas for prominent Manitobans, The Lake Francis WMA in the Interlake for Dr. Frank Baldwin (1934-2011); The main block of Little Saskatchewan WMA for Roy Greer (1929-2018); Deerwood WMA, Deerwood Unit for Donald W. Orchard; The Washow Bay WMA for David G. Tomasson (1945-2014); The Parkland WMA Horod Unit for Kenneth H. Wark (1937-2021); and The Thalberg Bush WMA for John T. Williams.
- Continued to work closely with partners to support the sustainable use of WMAs. The Unit worked with the Manitoba Wildlife Federation, Nature Conservancy of Canada, Watershed Districts and others. Through these partnerships two WMA pilot projects are being developed on the Langruth WMA and the Broomhill WMA with managed grazing as the main management tool. The project has sought \$100,000 in grant funds to support wildlife monitoring focused on sharp-tailed grouse lek counts, breeding bird surveys and camera trap wildlife monitoring have been implemented to record changes over time. Grant funds will be directed toward detailed plant community inventory to help guide management decision planning and document improvements to wildlife habitat over time.
- Partnered with the University of Minnesota, Canadian Wildlife Service, and United States Geological Survey on a project studying the migration ecology and conservation of trumpeter swans. Captured 10 adult swans and fitted with GPS-GSM neck collars which will track their movements for approximately two to five years. Researchers will evaluate year-round swan movements, the timing and duration of annual and molt-migrations, habitat use and selection patterns, and annual survival rates.

- Continued to provide accommodation measures to allow use of protected wildlife species for cultural and traditional use through the Wildlife for Traditional Use program.

6 (c) Wildlife and Fisheries

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	6,597	81.35	6,694	(97)	
(2) Other Expenditures	6,157	-	37,301	(31,144)	1
(3) Grant Assistance	2,132	-	2,357	(225)	2
Total Sub-Appropriation	14,886	81.35	46,352	(31,466)	

- The variance is primarily due to an allocation of \$30M from Enabling Appropriation 26-4 for the devolution of the Manitoba Habitat Heritage Corporation (MHHC) from the Government Reporting Entity. This is offset on a summary basis by a charge associated with the devolution. Additionally, the favourable variance includes lower than anticipated costs for hatcheries and the Fish and Wildlife Enhancement Fund, as well as fewer big game surveys in 2020/21 as the branch focused on long term species management plans.*
- The 2020/21 authority included Supplementary Authority of \$2M from Internal Service Adjustments to support the establishment of an endowment fund for Hunter Education and Firearms Safety.*

LANDS – 6D

MANDATE

The Lands Branch ensures that the management and administration of Crown land supports economic development and natural resource development in a sustainable manner.

The branch leads the review of Crown land and interests identified for transfer to Canada under Treaty Land Entitlement agreements. In addition the branch works collaboratively with multiple jurisdictions, departments and resource disciplines on corporate level Crown land policy matters and initiatives.

ACTIVITIES

- Identify and preclear Crown land for the purpose of increasing sales, while respecting sensitive areas, the exercise of treaty and Aboriginal rights and access by the public at large.
- Develop additional tools to assist the province in collecting unpaid rents, and municipalities in collecting unpaid taxes on Crown land.
- Provide expertise regarding multi-jurisdiction land transfer requirements associated with complex property disposal initiatives.
- Provide expertise regarding the Crown land review process to the Environmental Approval Branch.
- Modernize the regional block planning committee process to align with large area land planning methods.
- Participate in interdepartmental work to ensure Crown land processes support development and any amendments to associated regulations under The Crown Lands Act.
- Review and update branch consultation practices in keeping with the government-wide consultation framework being developed by Indigenous and Northern Relations.
- Develop alternate methods to facilitate the transfer of land under Treaty Land Entitlement for consideration by the parties.
- Engage with Manitobans and seek their feedback on unnamed geographic features, through the use of new technology.

ACTUAL RESULTS

- Developed marketing plan for existing vacant cottage lot inventory and developed Crown lots, generating an additional \$550,000 in revenue through the sale of developed lots to Crown land lessees and permittees.
- Advanced work with Municipal Relations (MR) and Indigenous and Northern Relations (INR) on procedures and potential legislative tools to improve collection of municipal taxes.

- Developed and presented on the process necessary to advance complex land transfer initiatives, including inter-jurisdictional comparators.
- Developed a geospatial dataset of 10,518 Crown land encumbrance records which are leveraged in a GIS environment to support Crown land planning, management and compliance. Crown land compliance inspection was increased through the modernization of field operations by deploying mobile mapping technology for site inspections. A total of 279 Crown land compliance inspections were completed using this new tool set.
- Provided expert feedback on proposed legislative amendments to The Crown Lands Act initiated by Central Services. Participated in the review of the Provincial Trail Strategy and facilitated the approval of one new recreational trail on lands administered under the Crown Lands Act and Forest Act.
- Developed Lands Quick Reference Guide to support consistent Crown-Indigenous consultation and proponent engagement processes within the branch.
- Developed a mechanism for Treaty Land Entitlement First Nations to permit lands confirmed for transfer while still in the transitional phase. Completed the review and transfer to Canada by Order-in-Council of 2,119.67 acres of Crown Land selections and 1,339.55 acres of Crown interests through acquisitions in accordance with the Treaty Land Entitlement Framework Agreement.
- Completed the commemorative naming of 7,764 geographical features to honour Manitoba's fallen soldiers who served in the First World War. The mapped geographic name data is made publically available on the MLI website and reflected in the Canadian Geographical Names Database.

6 (d) Lands

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	1,686	23.00	1,910	(224)	
(2) Other Expenditures	2,413	-	2,167	246	
(3) Grant Assistance	3,000	-	3,081	(81)	1
Total Sub-Appropriation	7,099	23.00	7,158	(59)	

1. The 2020/21 authority included Supplementary Authority of \$3M from Internal Service Adjustments to the Growing Outcomes in Watersheds Trust Fund in support of the TransCanada Highway Shelterbelt project.

CONSERVATION DISTRICT AND WATERSHED ASSISTANCE – 6E

MANDATE

To support Watershed Districts as established under The Watershed Districts Act and to fund watershed planning as described under The Water Protection Act.

ACTIVITES

- Provide grants to Watershed Districts.

ACTUAL RESULTS

- Implemented the Watershed Districts Program as a voluntary, incentive-based municipal partnership program to protect, restore and manage land and water resources on a watershed basis. This partnership program that addresses risks to watershed health and aquatic ecosystems to ensure integrity and protection of Manitoba watersheds.
- Provided annual grants to support operations and programming in water quality, surface water management, drinking water protection, water retention, soil conservation, wildlife habitat and public education programs promoting improvements to watershed health and resiliency. Watershed Districts established 1,137 cubic decametres of water storage capacity, installed 45 kilometres of riparian area fencing limiting more than 3,800 head of cattle from waterways, sealed 179 abandoned wells, and hosted 21 demonstration and project tours with 136 participants.
- Provided \$5.47 million in grants to 14 Watershed Districts, including Assiniboine West \$703,000, Central Assiniboine \$408,000, East Interlake \$300,000, Inter-Mountain \$707,000, Kelsey \$188,000, Northeast Red \$310,000, Pembina Valley \$376,000, Redboine \$225,000, Seine Rat Roseau \$378,000, Souris River \$440,000, Swan Lake \$225,000, West Interlake \$201,500, Westlake \$308,000, and Whitemud \$700,000.
- Expanded two districts into three new municipal areas. In March 2021, the Watershed Districts Regulation was amended formalizing the expansion of the Assiniboine West Watershed District and the Central Assiniboine Watershed District to include the Rural Municipalities of Elton and Whitehead, and a portion of the Municipality of North Cypress-Langford increasing the total number of municipalities in the program to 105.
- Provided \$50,000 in watershed management planning grants: \$20,000 each to East Interlake and Pembina Valley Watershed Districts for the Netley-Grassmere Interlake and Plum-Marais integrated watershed management plans and \$10,000 to the Inter-Mountain Watershed District for the development of an enhanced surface water management plan for a portion of the Dauphin Lake Watershed.
- Provided direction and oversight for annual budgets and activities of each Watershed District based on provincial legislation, regulation, and policy.

6 (e) Conservation District and Watershed Assistance

Expenditures by Sub-Appropriation	Actual	Authority	Variance	Expl.	
	2020/21	2020/21	Over/(Under)	No.	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Grant Assistance	6,520	-	6,520	-	1
Total Sub-Appropriation	6,520	-	6,520	-	

1. *The 2020/21 authority included Supplementary Authority of \$1M from Internal Service Adjustments to support the development of a provincial water management strategy.*

WATER STEWARDSHIP INITIATIVES – 6F

MANDATE

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

ACTIVITIES

- Support transboundary water management activities through boards, commissions and initiatives.
- Support water-related research, including on Lake Winnipeg.

ACTUAL RESULTS

- Supported the Lake Winnipeg Research Consortium’s ship the MV Namao.
- Provided support to protect Manitoba’s waters from activities in upstream jurisdictions and to provide input to 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.

6 (f) Water Stewardship Initiatives

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Other Expenditures	45	-	22	23	
(2) Grant Assistance	3,011	-	3,029	(18)	1
Total Sub-Appropriation	3,056	-	3,051	5	

1. The 2020/21 authority included Supplementary Authority of \$2.5M from Internal Service Adjustments to support the establishment of an endowment fund for the Watershed District Association.

FORESTRY AND PEATLANDS – 6G

MANDATE

To ensure that Manitoba’s forests and peatlands are developed and managed in a sustainable manner that supports economic development.

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 ecological and social values such as wildlife habitat and traditional use areas.
- Create and maintain a current, comprehensive, accurate, and ecologically-based forest inventory GIS database for Manitoba.
- Promote increased Indigenous participation in the forest and peat sectors, and encourage the establishment and enhancement of partnerships.
- Ensure that the Crown fulfills its duty to consult for all proposed forestry or peatlands activities that may affect Indigenous rights.
- Review select aspects of the forest and peatland regulatory frameworks with the intent to identify opportunities for modernization.
- Issue cutting rights and collect associated dues, royalties, charges, and fees.
- Review resource dues systems, ensuring that rates provide a fair return for Manitobans and a competitive environment for industry.
- Develop and update forest and peat guidelines and coordinate review and approval of industry-submitted management plans.
- Assess the overall success of industry and provincial reforestation/recovery activities, including 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 provides information about Manitoba’s forests.
- Use innovative technologies that enhance data collection efficiency, improve safety, and provide linkages to current digital and spatial databases.
- Integrate new principles of forest ecology, landscape design, natural disturbance regime, forest succession, and wildlife habitat forecasting into forest ecosystem modelling.

- 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.
- Explore opportunities for forest and peatland related climate change mitigation through afforestation and forest health improvement, identifying provincially significant peatlands, and promoting research initiatives.
- Identify climate change adaptation opportunities through the use vulnerability assessments and promoting research
- Work collaboratively with Conservation and Climate's Wildfire Service to actively suppress forest fires that affect natural resources and infrastructure located on Crown and Private lands across the province.

ACTUAL RESULTS

- Completed a new wood supply analysis for the Pineland Forest (FMU 24) that incorporates a number of recent changes to the forested land base including a major blowdown event, land withdrawals, an ice storm event and the severe insect infestation that followed. The new allowable harvest levels will guide forest operations and ensure sustainability of the forest resource in the region. A summary report will be released in 2021/22.
- Acquired 362,478 hectares of four-band 30 cm imagery within the Interlake and south eastern forests and peatlands of Manitoba. This was approximately 50 per cent of what had been intended, but COVID requirements initially followed by smoke and haze impacted the number of flying days available.
- Collaborated with Manitoba Infrastructure (MI), MR, Manitoba Hydro and Ducks Unlimited towards implementation of the Manitoba Imagery Renewal Initiative for southern Manitoba. Implementation of the program was paused in 2020/21 due to the pandemic.
- Continued to improve the peatlands inventory by creating datasets for peat depth, peat age, peat growth rates, and using them to estimate sustainable harvest levels; as well as continued to develop a methodology for determining provincially significant peatlands.
- Fulfilled the Crown's duty to consult for Louisiana-Pacific (LP) and Mountain Quota Holder Association (MQHA) Forest Management Operating Plans. Continued consultation for the LP 20-Year Forest Management Plan (FMP).
- Continued to work with the Four Option Licence First Nations (Black River First Nation, Brokenhead Ojibway Nation, Hollow Water First Nation, and Sagkeeng Anicinabe Government) to help pursue training and investment opportunities in Eastern Manitoba.
- Continued to identify and implement forest or peat related engagement projects with Indigenous communities.
- Fully proclaimed The Peatlands Stewardship Act, making peat exploration possible; additionally engaged multiple First Nations communities on what this means regarding future peat harvesting activities in Manitoba.

- Commodity prices fluctuated in 2020/21 and the US dollar continued strong against the Canadian dollar. Kraft, Oriented Strand Board (OSB) and Softwood Lumber (SWL) dues rates reached all-time highs. Kraft Standard Distance dues ranged from \$4.16 to \$7.63 per cubic metre (m³). SWL Standard Distance dues rates ranged from \$2.65 to \$18.76/m³. OSB Standard Distance dues rates ranged from \$2.79/m³ to an all-time high of \$28.61/m³.
- Continued the review of timber and peat dues systems to provide a fair return for Manitobans and support competitive forest and peat industries.
- Released the finalized Boreal Wetlands Conservation Codes of Practice, as part of the Made-in-Manitoba Climate and Green Plan on June 1, 2020.
- Completed the review and approved LP and MQHA's Forest Management Operating Plans. Continue to review LP Canada's long-term forest management plan.
- Identified 2.7 million hectares of damaged jack pine across the province in 2020 through aerial surveys. Salvage and harvesting opportunities continue to occur in the Interlake region.
- Implemented a slow the spread strategy for emerald ash borer with outreach and monitoring occurring province wide. Implemented monitoring for mountain pine beetle in 15 locations.
- Acquired 1.5 million seedlings for the 2021 planting season.
- Continued education and awareness on forest health, invasive species and forest continued with a focus on online activities due to COVID 19 restrictions. Some examples include virtual presentation/training to special interest groups and web-based outreach messaging to targeted audiences.
- Continued outreach and engagement with Manitoba communities, with progress made in facilitating urban forest inventory training and support to eight communities who are currently working on or have completed tree inventories. Additional communities have shown interest in expanding their understanding of urban forest planning with a partnership being established between Forestry and Peatlands Branch and Manitoba Watershed District to help facilitate urban forest planning within rural areas in Manitoba. Worked with the Manitoba Urban Forest Council to strengthen urban forestry in Manitoba with virtual training provided on street tree policies, urban diversification and industry safety standards to urban forestry professionals across Manitoba
- Remeasured 24 of 58 planned permanent sample plots (PSP's) this year, not all were completed due to travel restrictions and reduced field services crew sizes. No National Forest Inventory ground or photo plots were acquire this year as the program was suspended due to COVID 19 restrictions.
- Entered into a contract with Nisokapawino Forest Management Corporation to collect volume sampling data from 184 plots within the Saskatchewan River Forest Section. Tree cookies were sent to the U of W to verify tree ages. Plot data collected within the Nelson River Forest Section was used to validate the new growth and yield modeling system (MGYPSY) and to validate the growth

model used for our wood supply analysis for this area and other forested areas throughout Manitoba.

- Completed multiple climate change mitigation and adaptation projects including: a collaboration with academia (i.e., Saskatchewan Research Council, Canada Forest Service (CFS), universities) to complete a study on Northern Prairie Forests Regional Integrated climate change impact and vulnerability assessment along the west side of the province. This assessment involved three forested landscapes across eastern Saskatchewan and western Manitoba.
- Collaborated with the CFS towards the development of a climate-based seed transfer web application. Compiled and analyzed the first five years of data from the assisted migration jack pine trials.
- Undertook a pilot project in the Interlake region of the province to develop a guide to collect forest ecosite field survey data and initiated detailed ground survey data collection of forest soil, vegetation, and site characteristics.
- Redeployed staff to six fires.

6 (g) Forestry and Peatlands

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	4,394	46.00	4,872	(478)	
(2) Other Expenditures	3,112	-	3,588	(476)	
(3) Grant Assistance	344	-	368	(24)	1
Total Sub-Appropriation	7,850	46.00	8,828	(978)	

1. The 2020/21 authority included Supplementary Authority of \$345K from Internal Service Adjustments to support small and medium-sized enterprises in the forestry sector to help offset costs related to COVID-19 safety measures.

NORTHERN FISHERMAN'S FREIGHT ASSISTANCE – 6H

MANDATE

Supports commercial fishers in Northern Manitoba by assisting with transportation costs.

ACTIVITIES

- Provide fishers with financial assistance for transportation costs on selected northern and remote lakes and for selected fish species.

ACTUAL RESULTS

- Disbursed fully available program funds through the Northern Fisherman's Freight Assistance Program to fishers working in remote communities on approximately 300 eligible lakes.

6 (h) Northern Fisherman's Freight Assistance

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Other Expenditures	410	-	396	14	
Total Sub-Appropriation	410	-	396	14	

FOREST REGENERATION STOCK – 6I

MANDATE

To support the purchase of tree seedlings and the processing/storage of seed used for Manitoba's forest renewal program.

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

- Continued to fill the provincial seed bank, as expectations increase for the Federal 2 Billion Tree program.
- Delivered 1.522 million seedlings for the 2021 planting season.
- Awarded contract to PRT Growing Services Ltd. for 1.76 million seedlings for the 2022 forest renewal season.
- Awarded contract to PRT Growing Services Ltd. for cone and seed processing along with seed storage to meet the needs of Manitoba's forest renewal obligations for the future.

6 (i) Forest Regeneration Stock

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Other Expenditures	491	-	345	146	
Total Sub-Appropriation	491	-	345	146	

RESOURCE ENFORCEMENT – 6J

MANDATE

The Conservation Officers Service (COS) will strive to be a highly effective and professional Conservation Law Enforcement agency; serving Manitobans by focusing appropriate enforcement activities to protect public safety, Manitoba's natural resources and the environment, through education and enforcement.

ACTIVITIES

- Conduct checks on anglers, commercial fishers, hunters, trappers, and other resource users for compliance across the province and, where appropriate, take enforcement action.
- Coordinate and conduct patrols on provincial park campgrounds, beaches, and trails to ensure park safety and security for all visitors.
- Address complaints related to human-wildlife conflict and general wildlife concerns and questions.
- Manage The Polar Bear Alert Program in Churchill to protect both the bears and the residents of Churchill.
- Investigate and report on the Hunter Killed Livestock Program that provides compensation to livestock owners who have had their livestock killed accidentally by a licenced hunter.
- Assist with the delivery of the Crop Depredation Program including lure crop maintenance, scare equipment maintenance, scare cannon depot operation, and seasonal staff supervision.
- Continue to focus on all aspects of illegal hunting activity, including dangerous hunting, hunter trespass, night hunting and moose conservation closures.
- Recruit and manage deployment of Conservation Officers across Manitoba to support resource management needs.
- Recruit, train, deploy, and supervise the seasonal Park Patrol.
- Ensure that Conservation Officers and Park Patrol Officers receive a high and consistent level of training, including both initial training and regular refresher and upgrade training, as appropriate.
- Participate as provincial representatives on resource and joint management boards, various committees, working groups, advisory groups, and community meetings throughout the province.
- Work closely with Manitoba Justice to address resource legislative issues.
- Provide a 24-hour a day, 365 days a year answering service designed for the public to report resource violations and report wildfires.

ACTUAL RESULTS

- Undertook hundreds of enforcement actions across the province, resulting in prosecutions, written warnings and evictions from provincial parks. These actions were primarily in response to public complaints on regulatory resource issues,

park safety and security concerns and public health issues. (See Appendix A “Summary of Violations By Act, Summary of Concluded Prosecutions by Act, Comparison of Wildlife, Fisheries, Parks and Migratory Birds Prosecutions, Canine Team Activity Report”).

**Wildlife, Fisheries, Parks and Migratory Birds Prosecutions
2011/12 to 2020/21**

Fiscal Year	Wildlife	Fisheries	Parks	Migratory Birds
2011-12	308	904	*381	24
2012-13	352	894	1,371	14
2013-14	316	800	1,670	26
2014-15	239	959	2,182	6
2015-16	329	1,265	3,260	14
2016-17	406	1,016	2,409	12
2017-18	501	846	3,256	7
2018-19	312	884	2,087	3
2019-20	226	1,005	3,061	1
2020-21	149	800	2,033	4

*Year where no Park Vehicle Entry Passes were required

Summary of Violations by Act

between 4/1/2020 and 3/31/2021

Act Name	Prosecutions	Warnings	Total
Criminal Code Of Canada	7	0	7
Fisheries Act	780	89	869
Migratory Birds Convention Act, 1994	4	11	15
The Crown Lands Act	18	18	36
The Endangered Species and Ecosystems Act	0	2	2
The Environment Act	20	9	29
The Fisheries Act	192	228	420
The Forest Act	11	19	30
The Highway Traffic Act	68	33	101
The Liquor, Gaming and Cannabis Control Act	119	124	243
The Off-Road Vehicles Act	82	43	125
The Provincial Parks Act	2,064	365	2,429
The Public Health Act	25	22	47
The Resource Tourism Operators Act	0	1	1
The Water Protection Act	32	227	259
The Wildfires Act	9	15	24
The Wildlife Act	296	156	452
Total	3,727	1,362	5,089

Provincial Violations Initiated Between 4/1/2020 and 3/31/2021

Act Name	# Charges	Absolute Discharge	Conditional Discharge	Default or Ex Parte Conviction	Guilty	Quashed	Stay of Proceedings	Fine & Costs Paid
Criminal Code of Canada	6					2	4	\$1,000
Fisheries Act	666		1	103	547	8	7	\$55,970
Migratory Birds Convention Act, 1994	4					4		\$940
The Crown Lands Act	9			1	7		1	\$3,126
The Environment Act	14			6	8			\$5,378
The Fisheries Act	134			33	95	2	4	\$31,943
The Forest Act	3				3			\$363
The Highway Traffic Act	53	2		17	30		4	\$15,320
The Liquor, Gaming And Cannabis Control Act	92			26	59	1	6	\$34,266
The Off-Road Vehicles Act	70			17	48	2	3	\$12,010
The Provincial Parks Act	2,033			38	1,985	2	8	\$94,431
The Public Health Act	13			5	7		1	\$9,598
The Water Protection Act	28			5	21	2		\$7,243
The Wildfires Act	7			1	5		1	\$3,341
The Wildlife Act	149	2		15	100	5	27	\$62,672
Total								\$337,601

- Enforced the Provincial Public Health Orders during the COVID-19 pandemic.
- Conducted simulated moose and deer decoy operations and patrols to help deter illegal hunting activity that occurs across the province.
- Conducted patrols and monitored activities in areas where the logging industry was active to ensure compliance with applicable legislation.
- Conducted patrols on Snopass Trails across the province. With inadequate snow levels, the trails were only open for a very short time period.
- Assisted Wildlife and Fisheries Branch at watercraft inspection stations sited throughout the province for the purpose of inspecting and decontaminating watercraft. COs also conducted inspections on boats being trailered and enforcement action was taken for non-compliance as required. Conducted trap line patrols throughout the province, checking on compliance with Wild Fur Regulations.

- Reviewed, issued and conducted inspections on numerous work permits under The Crown Lands Act and The Wildfires Act for construction projects and industrial operations.
- Continued to assist several districts with regional investigators on complex investigations, primarily related to illegal harvest and use of fish and wildlife.
- Utilized the canine team throughout the province on a variety of compliance checks and investigations of illegal fishing and hunting activities. This included 11 decoy operations, 54 night patrol night hunting patrols, 16 occurrences of searching for evidence in both non confined and confined areas, 22 searches of vehicles, five searches for suspects and four cases of assistance with search warrants.

Conservation Officer Service Canine Team (K9-1)

Activity Report April 1,2020 to March 31,2021

Chad Moir, Handler

Canine Team Activities - DAYS	W	E	HQ	Total
Park Enforcement	8	15		23
Fisheries Enforcement	5	15		20
Wildlife Enforcement	8	6		14
Night Hunting Patrols	26	28		54
Decoys	6	5		11
Wildfire Investigations		2		2
Wildfire Patrols				0
Roadside Check Stations	4			4
Honour Guard				0
Presentations	1	3		4
Assist Other Agencies			3	3
Canine Training	20	8	5	33
Call outs	20	13		33
Meetings	2		2	4
DT training days (instructing)			6	6
Training Days (As Student)				0
TOTAL	100	95	16	211

Dog Activities	Occurrences
Searching for Suspects	5
Searching for Lost Persons	
Searching for Evidence (Non-confined area)	15
Searching for Evidence (Confined Area)	1
Searching Vehicles	22

Search Warrant Assistance	4
Deterrent Patrols	2
Use of Force	
Public Relations	20

- Fielded hundreds of district occurrence reports regarding problem wildlife across the province.
- Handled a total of four polar bears and received 116 polar bear district occurrence reports, which is the lowest year on record for the amount of bears handled and occurrence reports received.

Compliance & Field Services
District Occurrence Report (DOR) Analysis - Problem Wildlife
Reporting Period: 2020/04/01 to 2021/03/31

DORs Initiated	Eastern	Western	Total
Beaver	47	50	97
Black Bear	18	54	72
Polar Bear	116	0	116
Deer	41	30	71
Elk	5	24	29
Migratory Birds	37	43	80
Wolf	30	30	60
Coyote	83	45	128
Fox	47	29	76
Other	0	0	0
Other Species	196	123	319
Total	620	428	1,048

- Continued efforts to help reduce the number of complaints received. COs helped to educate the public about bear smart practices and provided practical recommendations on how the public can reduce human-wildlife conflict encounters.
- Trapped and relocated black bears whenever possible but were forced to euthanize some repeat offender bears that posed a threat to public safety.
- Received two hunter killed livestock claims from owners who had livestock shot during an open big game season. Claims were investigated by Conservation Officers and RCMP. This year, no claims qualified for compensation.

Hunter-Killed Livestock Compensation 2011/12 to 2020/21

Year Paid	Claims	Claims Paid	Total Paid	Average Paid
2011-12	2	2	2,100	1,050
2012-13	0	N/A	N/A	N/A

2013-14	0	N/A	N/A	N/A
2014-15	3	2	3,922	1,961
2015-16	2	2	4,388	2,194
2016-17	3	2	3,210	1,605
2017-18	1	0	N/A	N/A
2018-19	0	0	N/A	N/A
2019-20	3	1	1,500	1,500
2020-21	2	0	N/A	N/A

- Continued to provide a 24-hour a day, 365 days a year answering service designed for the public to report resource violations and report wildfires. In addition to these calls, the TIP line handles many calls related to problem or injured wildlife and human/black bear conflicts in urban, rural, or park areas (see table in Appendix L).

TIP Calls by Call Type

Call Type	2019/2020	2020/2021
Resource Violation	638	965
Fire Reports	247	203
Injured Wildlife	1,082	1,037
Problem Wildlife	947	1,390
Orphaned Wildlife	98	174
RCMP/Police Request Assistance	152	147
Non-Program Call	720	486
COVID	0	7
TOTAL	3,884	4,409

- Announced on October 10, 2020, the Wildlife Amendment Act (Safe Hunting and Shared Management) took effect with the goal of ensuring a safe hunting environment. Implemented a permit system to allow opportunities for rights-based hunting on some Crown land, with different requirements for northern and southern Manitoba based on extensive Crown-Indigenous consultations that contributed to the development of the legislation (90 permits were issued in 2020).
- Conducted patrols across the province to meet the provincial mandated effort to reduce night hunting and illegal moose hunting activities. These resulted in apprehension of 18 illegal night hunting units and the issuance of 33 Section 12 night hunting charges and 17 warnings.
- Apprehended six illegal moose conservation closure hunting units, which resulted in 17 charges and three warnings. Officers also seized 10 vehicles, 20 firearms and other related hunting equipment in relation to the incidents above.
- Deployed the helicopter for the first time to aid in the apprehension of illegal night hunters and moose hunters in conservation closure areas.
- Increased the frequency of patrols during late afternoon until early morning hours specifically to address the increased night hunting patrol mandate.

- Received and responded to increased complaints from the public about illegal night hunting. Complaints have increased from previous years in some parts of the province. This may be a result of the government adopting the regular release of public news bulletins regarding the apprehension of night hunting violators.
- Encountered 11 instances where vehicles failed to stop when officers tried to initiate a stop for night hunting.
- Conducted and completed firearm qualification for all full-time field CO Training.
- Postponed regular training at the Western Conservation Law Enforcement Academy (WCLEA) in Hinton, Alberta due to the pandemic.
- Implemented a new Conservation Officer Internship Program (COI) which hired six officers that received instructional training in firearms, defensive tactics, and emergency driving with extended on-the-job training under mentoring officers.
- Conducted training for 13 in-province, new-hire seasonal Park Patrol Officers (PPO) at the Canadian Mennonite University (CMU) with Regional Training Officers and departmental peer instructors. This provided the PPOs certification for park enforcement, safety, and security duty. Training for returning staff was cancelled due to the pandemic restrictions. Training material was forwarded to returning staff for self learning and review.
- Cancelled central training for full time COs due to the pandemic.
- Replaced COs existing computer systems with Panasonic Toughbooks (laptops) and many of the vehicles have been outfitted with mobile work stations.
- Released new enforcement software known as TraCS (Traffic and Criminal Software) in the spring. This program is intended to improve officer's efficiency in the field and serves many purposes such as data collection, records management, reporting and the issuing of citations. This software will result in a reduction of paper and allow officers to complete all enforcement documents digitally and store files electronically. This information can then be accessed by officers across the province and be utilized in future investigations.
- Participated as a member of the Canadian Natural Resource Law Enforcement Chiefs Association.
- Participated in the Manitoba Rabies Central program with Manitoba Health, Seniors and Active Living, and Manitoba Agriculture and Resource Development in provincial rabies reporting and sampling system.
- Continued to work with the Wildlife Enforcement Division of Environment and Climate Change Canada and the United States Fish and Wildlife Service on cross-border investigations.
- Continued to work with Manitoba Wildfire Service throughout the province with COs providing operational support during wildfire fighting operations.
- Continued to participate in annual cottage association's meetings, Chief and Council meetings, Municipal meetings, and sports hunter and fisher group meetings to provide assistance and information.

- Provided input on allocation of all Crown lands for both commercial and recreational developments including Treaty Land Entitlement selections.
- Participated in joint initiatives with other government departments or branches to assist with effective community relations.
- Continued to conduct virtual meetings with wildlife associations and partnership groups on topics related to monitoring and management of moose, wolf and elk populations.
- Continued to work with various recreational trail committees (TransCanada Trail, ATV Manitoba, Snoman Inc.) to oversee the development of recreational trails within Provincial Parks and on Crown lands. COs likewise worked with the MTA, Manitoba Wildlife Federation, as well as other users and special interest groups.

6 (j) Resource Enforcement

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl. No.
	2020/21	2020/21		Over/(Under)	
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	11,610	124.75	11,802	(192)	
(2) Other Expenditures	3,779	-	3,787	(8)	
Total Sub-Appropriation	15,389	124.75	15,589	(200)	

RESOURCE DEVELOPMENT DIVISION - 7

DIVISION MANDATE

Creates the environment that accelerates sustainable economic development in mineral, oil and gas and aggregate production in Manitoba.

REGULATORY SERVICES - 7A

MANDATE

The Regulatory Services branch facilitates the safe and efficient development of Manitoba's mineral, oil and gas resources in accordance with the principles of sustainable development. Through technical assistance and enabling policies and regulations, the branch also promotes the maximum recovery of oil from Manitoba oil fields, minerals from mines, and aggregate from quarries. Engineering and inspection services for mines, quarries and petroleum extraction, storage and closure are included in the services provided by this branch.

ACTIVITIES

- Collaborate with other provincial departments and the federal government on matters related to the sustainable development of oil and gas resources, mineral 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.
- Under the authority of The Crown Royalty and Incentives Regulation and The Oil and Gas Production Tax Act, administer the petroleum fiscal regime, including the collection of petroleum revenues and freehold production taxes.
- Review engineering proposals for new development of mines.
- 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, and eliminating the red tape associated with permitting and licensing.
- Ensure industry compliance with site management and closure plans.
- 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. Inspections are also conducted to ensure proper rehabilitation of abandoned and depleted sites.
- Manage the Abandonment Reserve Fund, wells, and oil and gas facilities seized under The Oil and Gas Act.

ACTUAL RESULTS

- Extended the Manitoba Drilling Incentive Program (MDIP) for 2 years starting January 1, 2021 and expiring December 31, 2022. This program provided certainty for producers.

- Collected \$12.575 million of Freehold tax and royalties from oil producers. This was 41.1% or \$8.765 million less than the previous year. This is primarily due to a severe drop in crude oil pricing in the first two quarters of 2020/21.
- Approved the successful rehabilitation of 82 oil well sites.
- Seized 23 oil well sites and two facilities under ministerial order due to non-compliance.
- Approved 68 well licences, 188 technical applications, seven unit applications, two pipeline suspensions, 176 flowline permits, two geophysical permits and one battery operating permit.
- Collected an additional \$335.8 million of financial surety for mine closure plans.

7 (a) Regulatory Services

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	2,125	30.40	2,455	(330)	
(2) Other Expenditures	6,138	-	6,777	(639)	1
Total Sub-Appropriation	8,263	30.40	9,232	(969)	

1. The 2020/21 authority included Supplementary Authority of \$2.9M from Internal Service Adjustments to support the remediation of the Quarry Rehabilitation Reserve Fund.

LAND USE AND RESOURCE TENURE – 7B

MANDATE

Supports the orderly disposition of mineral rights and oil & gas rights that allows for the exploration, development and production of the province's resources.

ACTIVITIES

- Administer The Mines and Minerals Act and associated regulations for exploration, development and production of Crown minerals, and the rehabilitation of quarry sites. Orderly disposition of Crown mineral rights, and the collection of mineral royalties through the office of the Mining Recorder.
- Manage inventory of the province's aggregate resources, and administer mineral resource conservation-related provincial land use policies.
- Support land use planning to ensure Manitoba's mineral, oil and gas potential are reflected in decision making by the Crown relating to infrastructure planning, municipal development plans, parks and protected areas, forestry and other land use activities.
- Administer The Oil and Gas Act and tenure requirements for exploration, development and production of Crown oil and gas. Orderly disposition of Crown oil and gas rights, and collecting Crown royalties and fees through the Office of the Petroleum Registrar.
- Facilitate the Crown-Indigenous consultation process in issuing mineral dispositions and permits.
- Manage the implementation of the Manitoba-First Nations Mineral Development Action Plan. Develop mineral development consultation protocols to ensure clear and transparent processes for Crown-Indigenous consultations.

ACTUAL RESULTS

- Implemented a new Moneris standard to a more secure way of taking payments in iMaQs by changing from a single tier transaction validation to multi-tier validation. This was implemented on October 14, 2020.
- Enhanced communication to stakeholders to clarify and simplify the online application process and clarify the online profiles process. This went live on March 23, 2021.
- Upgraded the iMaQs mapping component from the older FLEX version to an interim version in ArcGIS Online, and then finally to the current GeoCortex based map viewers. These provide staff, clients and the public with a more unified and easy-to-use online map.
- Implemented bi-weekly training presentations to stakeholders on using online services.
- Recorded 143 Mining Claims and five Mineral Exploration Licences.
- Ensured that 947 Quarry Leases remained in good standing.

- Issued 751 Casual Quarry Permits and 796 Registration Certificates for Private Pits and Quarries.
- Reviewed the Quarry Rehabilitation program was for compliance. Quarry Rehabilitation on Private and Municipal Land Program (QRPMLP) was implemented in 2021. This enabled rehabilitation work to resume and was consistent with legislative and accounting requirements.
- Provided funding to 54 applicants totalling \$5.0 million. Between 20 to 37 percent of applicants indicated that the site was exhausted and therefore no further aggregate production would occur. The balance of funding was used to support progressive rehabilitation efforts on private land.
- Reviewed and paid as appropriate all outstanding payments for Quarry Rehabilitation work undertaken in 2018.
- Supported development and implementation of updated Quarry Rehabilitation on Private and Municipal Land Program.
- Maintained Crown mineral disposition system, enabling a competitive atmosphere for exploration and development.
- Informed decisions on land use planning for municipal and crown lands. This ensured access to mineral, oil and gas resources while preventing land use conflicts in Manitoba through best-use decision-making principles.
- Provided informational support to citizens and industry to facilitate the responsible exploration and development of Manitoba's mineral resources.
- Supported negotiations to modernize Vale Canada's mineral tenure in the Thompson Nickel Belt to maintain continuity of operations and expand exploration and development potential in the region.
- Initiated modernization of Hudbay Minerals' tenure in the Flin Flon and Snow Lake mining areas.
- Collected \$3.51 million in Lease Application Fee, Renewals and Rentals.
- Worked with First Nations to adapt Crown-Indigenous Consultation processes to incorporate remote and virtual delivery mechanisms. This enabled communities to conduct 15 consultation processes for resource projects across Manitoba. Continued engagement processes with 10 First Nations for the development of Mineral Development Consultation Protocol agreements.

7 (b) Land Use and Resource Tenure

Expenditures by Sub-Appropriation	Actual	Authority	Variance	Expl.
	2020/21	2020/21	Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)
(1) Salaries and Employee Benefits	896	17.00	1,198	(302)
(2) Other Expenditures	875	-	905	(30)
(3) Grant Assistance	400	-	400	-
Total Sub-Appropriation	2,171	17.00	2,503	(332)

GEOLOGICAL SERVICES - 7C

MANDATE

Provides 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.

ACTIVITIES

- Conduct geological investigations in Manitoba's Precambrian Shield, Western Canada Sedimentary Basin, and Hudson Bay Basin. Partner with private industry, academia and other levels of government to maximum delivery of programs and services.
- Maintain and manage core and sample catalogue and library, storage facilities and rock preparation lab; coordinate access to core and samples.
- Support geological programs and land-use decisions with database management, digital mapping products and geographic information system programs
- Maintain and supply geoscience information for the exploration, development and regulation of oil and gas.
- Coordinate geological review and archival filing of industry assessment reports submitted for credit towards mineral claims.
- Contribute geoscience information to support minerals, oil and gas policy development.
- Maintain the provincial aggregate resource inventory and map compilations.
- 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 a geological field program that consisted of 33 active geoscience projects including seven new projects that started this fiscal year. Projects are distributed throughout Manitoba and include various commodities such as gold, nickel, base metals, diamonds, graphite, vanadium, silica sand, potash, lithium, helium, and oil and gas.
- Conducted geological projects despite limitations due to COVID-19 pandemic. Conducted short field programs in established mining camps including the Thompson nickel belt and Flin-Flon—Snow Lake belt, and in frontier areas such as the Hudson Bay Lowland, along the East Side Road (east of Lake Winnipeg), and the Russell-McCallum lakes area.
- Continued participation with the Geological Survey of Canada (GSC) in phase five 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 various industry partners such as Hudbay Minerals, Alamos Gold, Vanadian Energy, Far Resources, DeBeers, and academia including the University of Manitoba, Western University, University of Waterloo, University of Calgary, and others, with many of these projects being three-way collaborations with industry partners.

- Participated in the development and writing of the Pan-Canadian Geoscience Strategy (PGS) document, as part of the Canadian Minerals and Mining Plan (CMMP).
- Participated in federal-provincial-territorial discussions to negotiate collaborations for the TGI and Geomapping for Energy and Minerals (GEM) GeoNorth multi-year geological programs led and funded by the GSC; multiple Manitoba-based proposals were submitted for consideration in the programs.
- Participated in the development and steering of the Atlas 2027 project, a new fully-digital geological atlas of Western Canada.
- Released 82 geoscientific publications which were all made available to the public, including the annual Report of Activities 2020, data repository items, preliminary maps, open file reports, geoscientific papers, geoscientific reports, and digital re-releases.
- Created a confidential room at the Midland Sample and Rock Library and Lab facility for clients to view core and meet in private; received new gravity conveyer rolling tables for the core viewing area at Midland; cleaned up and removed asbestos-containing walls safely at the 112 Freedman Crescent storage facility to increase storage space; cataloged new cores and samples into databases; prepared samples collected in the field for analysis (crushing, sieving); and coordinated access to core for clients.
- Conducted ongoing work on comprehensive digital geoscience information projects including the development of an interim ArcGIS Online Map Gallery presentation to support industry and public access to Geographic Information System (GIS) data; continued work to upgrade the existing online data distribution platform, Map Gallery, to a modern and more user friendly system (Geocortex); several geological map compilations aided by the recently introduced unified bedrock legend; updated surficial geological maps and continued input and GIS data cleanup for the upcoming aggregate potential database.
- Received 57 new assessment report submissions, and conducted geological review and archival filing of 95 industry assessment reports submitted for credit towards mineral claims, resulting in the catch up on backlog of reports that had been waiting for review.
- Facilitated the development and management of oil and gas wells; informed enhanced oil recovery units and production accounting; reviewed mineral tenure;

reviewed the sale of oil and gas leases; and informed policy, regulation and procedures, including for potash.

- Continued to digitally capture, verify and rectify GIS issues for archival aggregate deposit information towards an updated contemporary aggregate data inventory; this includes the geo-location of all known open aggregate pits in Manitoba using satellite imagery.
- Participated in consultation activities with two Indigenous communities: Manto Sipi Cree Nation and Red Sucker Lake First Nation. COVID-19 pandemic restrictions resulted in few consultations, done virtually or in-person in Winnipeg, without community meetings.

7 (c) Geological Services

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21 \$(000s)	2020/21 FTEs	2020/21 \$(000s)	Over/(Under) \$(000s)	No.
(1) Salaries and Employee Benefits	2,282	26.00	2,438	(156)	
(2) Other Expenditures	1,149	-	1,553	(404)	1
Total Sub-Appropriation	3,431	26.00	3,991	(560)	

1. *The variance is primarily due to expenditure management measures, lower costs due to vacancies and reduced travel and other activities due to COVID-19.*

BOARDS AND COMMISSIONS - 7D

MANDATE

To 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 related 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.

ACTUAL RESULTS

- The Surface Rights Board held hearings between Oil and Gas Rights and Surface Rights holders and issued Board Orders resolving four applications. Two Applications were resolved without a hearing.
- Appointed two new surface rights board members and conducted orientation sessions.
- No applications were submitted to the Mining Board.

7 (d) Boards and Commissions

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Salaries and Employee Benefits	20	-	31	(11)	
(2) Other Expenditures	-	-	16	(16)	
Total Sub-Appropriation	20	-	47	(27)	

COSTS RELATED TO CAPITAL ASSETS - 8

MANDATE

Comply with Public Sector Accounting Board (PSAB) standards and government policies and guidelines respecting the treatment of tangible capital assets (TCA).

ACTIVITIES

- Review of TCAs owned by the department to ensure an appropriate amount of amortization is accounted for based on the useful life of the TCA.

ACTUAL RESULTS

- Invested in new equipment for the VDS laboratory and Wildlife and Fisheries.
- Continued to provide non-interrupted VDS delivery for provincial animal welfare investigations, animal disease response and surveillance activities with capital asset purchases. It also ensured required animal health testing was available to livestock and companion animal veterinary clients.

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

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21	2020/21		Over/(Under)	No.
	\$(000s)	FTEs	\$(000s)	\$(000s)	
(1) Amortization Expense	745	-	809	(64)	
Total Appropriation	745	-	809	(64)	

PART B – CAPITAL INVESTMENT

MANDATE

Provide for the acquisition of general assets including the acquisition of machinery, equipment and major computer software to support activities in the Animal Health and Welfare and the Wildlife and Fisheries branches.

ACTIVITIES

- Review and update capital plans to support renewal efforts and potential infrastructure projects, as part of the capital planning process

ACTUAL RESULTS

- Invested a total of \$824,279 in new laboratory equipment and machinery in the Animal Health and Welfare and Wildlife and Fisheries branches.
- Laboratory equipment purchases ensured VDS continued to provide non-interrupted service delivery to provincial animal welfare investigations and animal disease response and surveillance activities. It also ensured required animal health testing was available to livestock and companion animal veterinary clients.
- Machinery and equipment purchases in Wildlife and Fisheries replaced aging equipment used to support staff in their efforts to protect natural resources and terrestrial and aquatic ecosystems.

Part B - Capital Investment

Expenditures by Sub-Appropriation	Actual	Authority		Variance	Expl.
	2020/21 \$(000s)	2020/21 FTEs	2020/21 \$(000s)	Over/(Under) \$(000s)	No.
(a) General Assets	824	-	950	(126)	
TOTAL	824	-	950	(126)	

**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.

Manitoba Agriculture and Resource Development's total, net change and percentage change of regulatory requirements for 2020-2021

Regulatory requirements

	April 1, 2020	March 31, 2021
Total number of regulatory requirements	96,019	70,896
Net change	-	-728
Percentage change	-	-0.76%

- 'Total number of regulatory requirements' includes transfers of regulatory requirements in and out of the department in 2020/21.
- 'Net change' includes the changes (sum of decreases and increases) in regulatory requirements undertaken by the department in 2020/21 and is net of transfers of regulatory requirements in and out of the department.
- 'Percentage change' includes percentage changes in regulatory requirements undertaken by the department in 2020/21 and is net of transfers of regulatory requirements in and out of the department.

Achievements

The department's major achievements in 2020/21 included:

- The department successfully transitioned the Fish and Wildlife Enhancement Fund's administration from departmental staff to the Manitoba Habitat Heritage Corporation (MHHC). Fund applicants now have access to a streamlined application process through MHHC's online grant portal.

APPENDIX A: FINANCIAL INFORMATION – RECONCILIATION STATEMENTS

Part A - Operating Expenditure

DETAILS	2020/21 ESTIMATES \$(000's)
2020/21 MAIN ESTIMATES - PART A	239,021
*Allocation of funds from: Internal Service Adjustments	44,227
In-year re-organization from: Conservation and Climate	15,842
2020/21 ESTIMATES	299,090

* Includes \$345 related to authority approved by the Legislative Assembly as part of the government's response to COVID-19.

Part B - Capital Investment

DETAILS	2020/21 ESTIMATES \$(000's)
2020/21 MAIN ESTIMATES - PART B	950
Allocation of funds from: - Enabling Appropriations	-
2020/21 ESTIMATES	950

APPENDIX B: FINANCIAL INFORMATION – EXPENDITURE SUMMARY

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

for the fiscal year ended March 31, 2021 with comparative figures for the previous fiscal year (\$000s)

Estimate 2020/21	Appropriation	Actual 2020/21	Actual 2019/20	Increase/ (Decrease)	Expl. No.
PART A - OPERATING					
03-1 ADMINISTRATION AND FINANCE					
42	(a) Minister's Salary	42	42	-	
	(b) Executive Support				
777	(1) Salaries and Employee Benefits	759	795	(36)	
80	(2) Other Expenditures	59	53	6	
	(c) Financial and Administrative Services				
3,319	(1) Salaries and Employee Benefits	2,383	2,683	(300)	
527	(2) Other Expenditures	209	268	(59)	
	(d) GeoManitoba				
2,529	(1) Salaries and Employee Benefits	2,083	2,373	(290)	
839	(2) Other Expenditures	468	694	(226)	
(1,601)	(3) Less: Recoverable from Other Appropriations	(807)	(895)	88	
6,512	Subtotal 03-1	5,196	6,013	(817)	

APPENDIX B: FINANCIAL INFORMATION – EXPENDITURE SUMMARY

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

for the fiscal year ended March 31, 2021 with comparative figures for the previous fiscal year (\$000s)

Estimate 2020/21	Appropriation	Actual 2020/21	Actual 2019/20	Increase/ (Decrease)	Expl. No.
03-2 POLICY AND TRANSFORMATION					
(a) Policy					
3,443	(1) Salaries and Employee Benefits	2,800	3,075	(275)	
639	(2) Other Expenditures	323	372	(49)	
1,165	(3) Grant Assistance	1,155	1,118	37	
(b) Transformation					
2,547	(1) Salaries and Employee Benefits	2,316	2,239	77	
643	(2) Other Expenditures	470	469	1	
2,020	(c) Food Development Centre	2,670	4,259	(1,589)	1
3,000	(d) Grain Innovation Hub	2,511	1,542	969	2
13,457	Subtotal 03-2	12,245	13,074	(829)	
03-3 RISK MANAGEMENT, CREDIT AND INCOME SUPPORT PROGRAMS					
16,294	(a) Manitoba Agricultural Services Corporation Administration and Lending Costs	11,824	11,177	647	
50,004	(b) AgriInsurance	48,430	48,851	(421)	
3,544	(c) Wildlife Damage Compensation	3,128	4,328	(1,200)	3
(15,600)	(d) Less Recoverable: Interest from Lending	(14,126)	(14,955)	829	
19,688	(e) AgriStability	14,274	34,712	(20,438)	4
12,379	(f) AgriInvest	12,939	12,290	649	
49,304	(g) Farmland School Tax Rebate	47,004	44,417	2,587	
500	(h) Animal Health and Welfare: Emergency Response and Preparedness	-	-	-	
136,113	Subtotal 03-3	123,473	140,820	(17,347)	

APPENDIX B: FINANCIAL INFORMATION – EXPENDITURE SUMMARY

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

for the fiscal year ended March 31, 2021 with comparative figures for the previous fiscal year (\$000s)

Estimate 2020/21	Appropriation	Actual 2020/21	Actual 2019/20	Increase/ (Decrease)	Expl. No.
03-4 STEWARDSHIP AND ASSURANCE					
(a) Food Safety and Inspection					
2,753	(1) Salaries and Employee Benefits	2,605	2,639	(34)	
577	(2) Other Expenditures	488	544	(56)	
(b) Animal Health and Welfare					
5,407	(1) Salaries and Employee Benefits	5,047	4,893	154	
3,021	(2) Other Expenditures	3,025	3,317	(292)	
11	(3) Grant Assistance	13	11	2	
(c) Agri-Resource					
3,605	(1) Salaries and Employee Benefits	3,412	3,272	140	
1,378	(2) Other Expenditures	998	718	280	
1,500	(d) Sustainable Agriculture Incentives Program	819	762	57	
(1,500)	(e) Less recoverable from other appropriations	(819)	(762)	(57)	
16,752	Subtotal 03-4	15,588	15,394	194	

APPENDIX B: FINANCIAL INFORMATION – EXPENDITURE SUMMARY

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

for the fiscal year ended March 31, 2021 with comparative figures for the previous fiscal year (\$000s)

Estimate 2020/21	Appropriation	Actual 2020/21	Actual 2019/20	Increase/ (Decrease)	Expl. No.
03-5 PRODUCTION AND ECONOMIC DEVELOPMENT					
(a) Industry Advancement					
3,474	(1) Salaries and Employee Benefits	2,534	2,823	(289)	
890	(2) Other Expenditures	341	651	(310)	
755	(3) Grant Assistance	1,546	664	882	5
(b) Primary Agriculture					
5,961	(1) Salaries and Employee Benefits	5,084	5,933	(849)	
1,270	(2) Other Expenditures	743	901	(158)	
1,065	(3) Grant Assistance	1,168	903	265	
(c) Food and Agri-Product Processing					
2,574	(1) Salaries and Employee Benefits	2,106	2,091	15	
470	(2) Other Expenditures	236	235	1	
125	(3) Grant Assistance	-	77	(77)	
100	(4) Capital Grants	-	-	-	
16,684	Subtotal 03-5	13,758	14,278	(520)	

APPENDIX B: FINANCIAL INFORMATION – EXPENDITURE SUMMARY

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

for the fiscal year ended March 31, 2021 with comparative figures for the previous fiscal year (\$000s)

Estimate 2020/21	Appropriation	Actual 2020/21	Actual 2019/20	Increase/ (Decrease)	Expl. No.
03-6 WATER STEWARDSHIP AND BIODIVERSITY					
(a) Divisional Administration					
518	(1) Salaries and Employee Benefits	462	406	56	
74	(2) Other Expenditures	43	89	(46)	
-	(3) Grant Assistance	-	7,500	(7,500)	6
(b) Water Science and Watershed Management					
3,284	(1) Salaries and Employee Benefits	2,859	3,091	(232)	
875	(2) Other Expenditures	781	918	(137)	
-	(3) Grant Assistance	-	550	(550)	7
(c) Wildlife and Fisheries					
6,694	(1) Salaries and Employee Benefits	6,597	6,568	29	
37,301	(2) Other Expenditures	6,157	2,285	3,872	8
2,357	(3) Grant Assistance	2,132	49,565	(47,433)	9
(d) Lands					
1,910	(1) Salaries and Employee Benefits	1,686	1,805	(119)	
2,167	(2) Other Expenditures	2,413	2,382	31	
3,081	(3) Grant Assistance	3,000	51,500	(48,500)	10
6,520	(e) Conservation District and Watershed Assistance	6,520	5,312	1,208	11
(f) Water Stewardship Initiatives					
22	(1) Other Expenditures	45	2	43	
3,029	(2) Grant Assistance	3,011	511	2,500	12
(g) Forestry and Peatlands					
4,872	(1) Salaries and Employee Benefits	4,394	4,577	(183)	
3,588	(2) Other Expenditures	3,112	3,493	(381)	
368	(3) Grant Assistance	344	23	321	13
396	(h) Northern Fisherman's Freight Assistance	410	410	-	
345	(i) Forest Regeneration Stock	491	346	145	
(j) Resource Enforcement					
11,802	(1) Salaries and Employee Benefits	11,610	11,595	15	
3,787	(2) Other Expenditures	3,779	3,897	(118)	
92,990	Subtotal 03-6	59,846	156,825	(96,979)	

APPENDIX B: FINANCIAL INFORMATION – EXPENDITURE SUMMARY

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

for the fiscal year ended March 31, 2021 with comparative figures for the previous fiscal year (\$000s)

Estimate 2020/21	Appropriation	Actual 2020/21	Actual 2019/20	Increase/ (Decrease)	Expl. No.
03-7 RESOURCE DEVELOPMENT					
(a) Regulatory Services					
2,455	(1) Salaries and Employee Benefits	2,125	2,453	(328)	
6,777	(2) Other Expenditures	6,138	777	5,361	14
(b) Land Use and Resource Tenure					
1,198	(1) Salaries and Employee Benefits	896	847	49	
905	(2) Other Expenditures	875	718	157	
400	(3) Grant Assistance	400	-	400	15
(c) Geological Services					
2,438	(1) Salaries and Employee Benefits	2,282	2,286	(4)	
1,553	(2) Other Expenditures	1,149	1,543	(394)	
(d) Boards and Commissions					
31	(1) Salaries and Employee Benefits	20	19	1	
16	(2) Other Expenditures	-	4	(4)	
15,773	Subtotal 03-7	13,885	8,647	5,238	
03-8 COSTS RELATED TO CAPITAL ASSETS (NON-VOTED)					
809	(a) Amortization Expense	745	650	95	
809	Subtotal 03-8	745	650	95	
299,090	TOTAL (PART A)	244,736	355,701	(110,965)	

APPENDIX B: FINANCIAL INFORMATION – EXPENDITURE SUMMARY

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

for the fiscal year ended March 31, 2021 with comparative figures for the previous fiscal year (\$000s)

Estimate 2020/21	Appropriation	Actual 2020/21	Actual 2019/20	Increase/ (Decrease)	Expl. No.
PART B - CAPITAL INVESTMENT					
3. CAPITAL ASSETS					
950	(a) General Assets	824	1,003	(179)	
950	TOTAL (PART B)	824	1,003	(179)	

APPENDIX B: FINANCIAL INFORMATION – EXPENDITURE SUMMARY

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

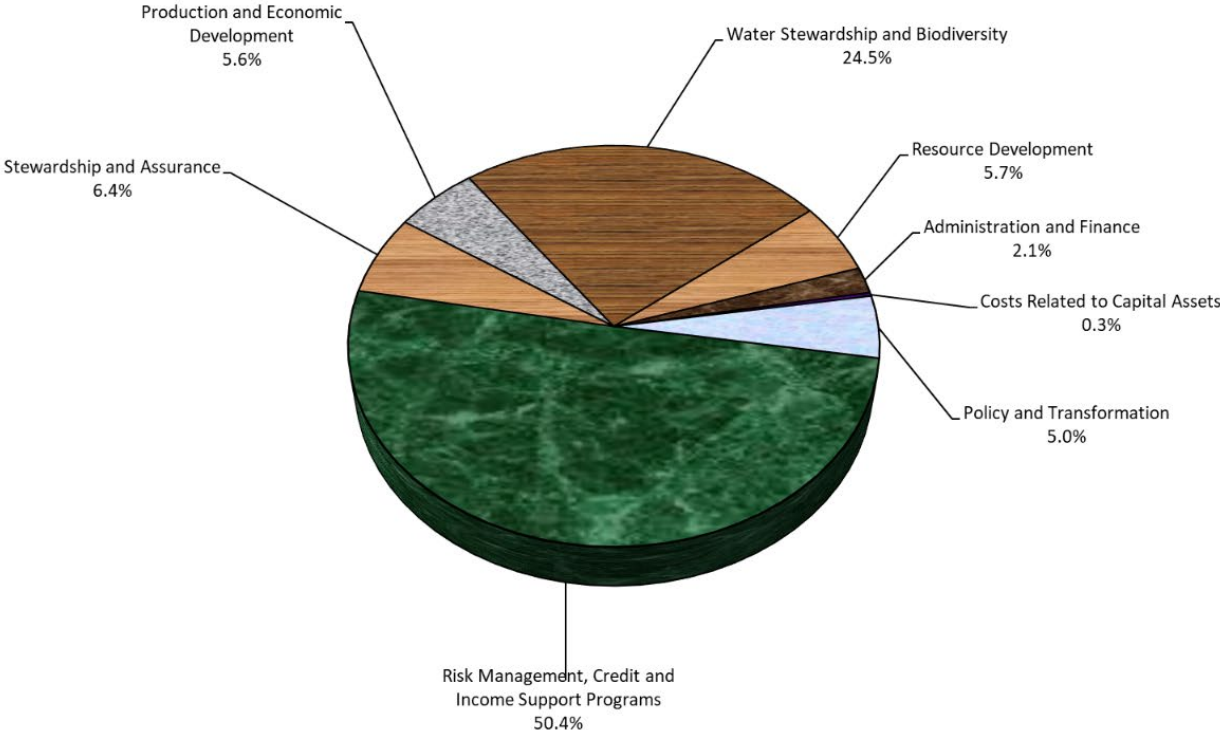
for the fiscal year ended March 31, 2021 with comparative figures for the previous fiscal year (\$000s)

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 for a loan issued to FDC partially offset by supporting the transition of FDC from a Special Operating Agency to a unit within the department in 2020/21.*
2. *The variance is primarily due to delays in finalizing agreements and project approvals in 2019/20.*
3. *The variance is primarily the result of a lower number of claims and average compensation for crop damage caused by Big Game and waterfowl mainly due to an earlier harvest and decrease in overwinter crops in the fall of 2020.*
4. *The variance is mainly due to a lower federal projection for 2020/21.*
5. *The variance is mainly due to an endowment grant to the Brandon Area Community Foundation to establish the Manitoba 4-H Scholarship Program in 2020/21.*
6. *The variance is due to the contribution to the International Peace Gardens Foundation for capital improvements in 2019/20.*
7. *The variance is the result of the Lake Winnipeg Ecological Research Capital Environmental Initiative that occurred in 2019/20.*
8. *The variance is primarily due to the remediation of the Fish and Wildlife Enhancement Fund in 2020/21.*
9. *The variance is mainly due to contributions in 2019/20 for Environmental Initiatives to Fish and Wildlife Enhancement Fund, Oak Hammock Marsh Interpretive Centre Endowment and Capital Renewal, Fort Whyte Endowment, Lake Manitoba Fisheries License Buyback, Shared Fish and Wildlife Management and a contribution to the Manitoba Habitat Heritage Corporation Conservation Trust to establish an endowment. These decreases are partially offset by an increase for a contribution in 2020/21 to the Winnipeg Foundation to establish an endowment for Hunter Education and Firearms Safety.*
10. *The variance is primarily due to contributions in 2019/20 to the GRowing Outcomes in Watersheds (GROW) Trust and Highway One West Shelterbelt Renewal project environmental initiatives. This is partially offset by a contribution in 2020/21 for the TransCanada Shelterbelt project.*
11. *The variance is mainly due to a contribution to The Enterprise Machine Intelligence and Learning Initiative to support the development of a provincial water management strategy.*

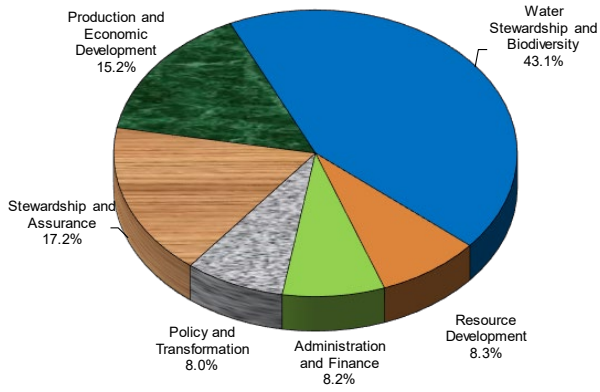
12. *The variance is due to a contribution to The Winnipeg Foundation to establish an endowment to assist local watershed districts implement the GROW and Conservation Trust programs.*
13. *The variance is primarily due to support to small and medium-sized enterprises in the forestry sector to help offset costs related to COVID-19 safety measures.*
14. *The variance is primarily due to the remediation of The Quarry Rehabilitation Reserve Account in 2020/21.*
15. *The variance is due to the establishment of The Manitoba First Nations Mineral Development Protocol grants in 2020/21.*

APPENDIX C: DISTRIBUTION BY MAIN APPROPRIATION: 2020/21 ACTUAL EXPENDITURES

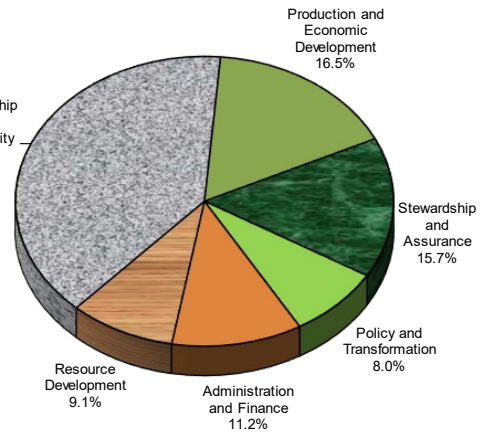


APPENDIX D: PERCENTAGE DISTRIBUTION OF SALARIES & EMPLOYEE BENEFITS AND FULL TIME EQUIVALENTS – 2020/21

Salaries & Benefits



Full Time Equivalents



APPENDIX E: REVENUE SUMMARY

Manitoba Agriculture and Resource Development Revenue Summary

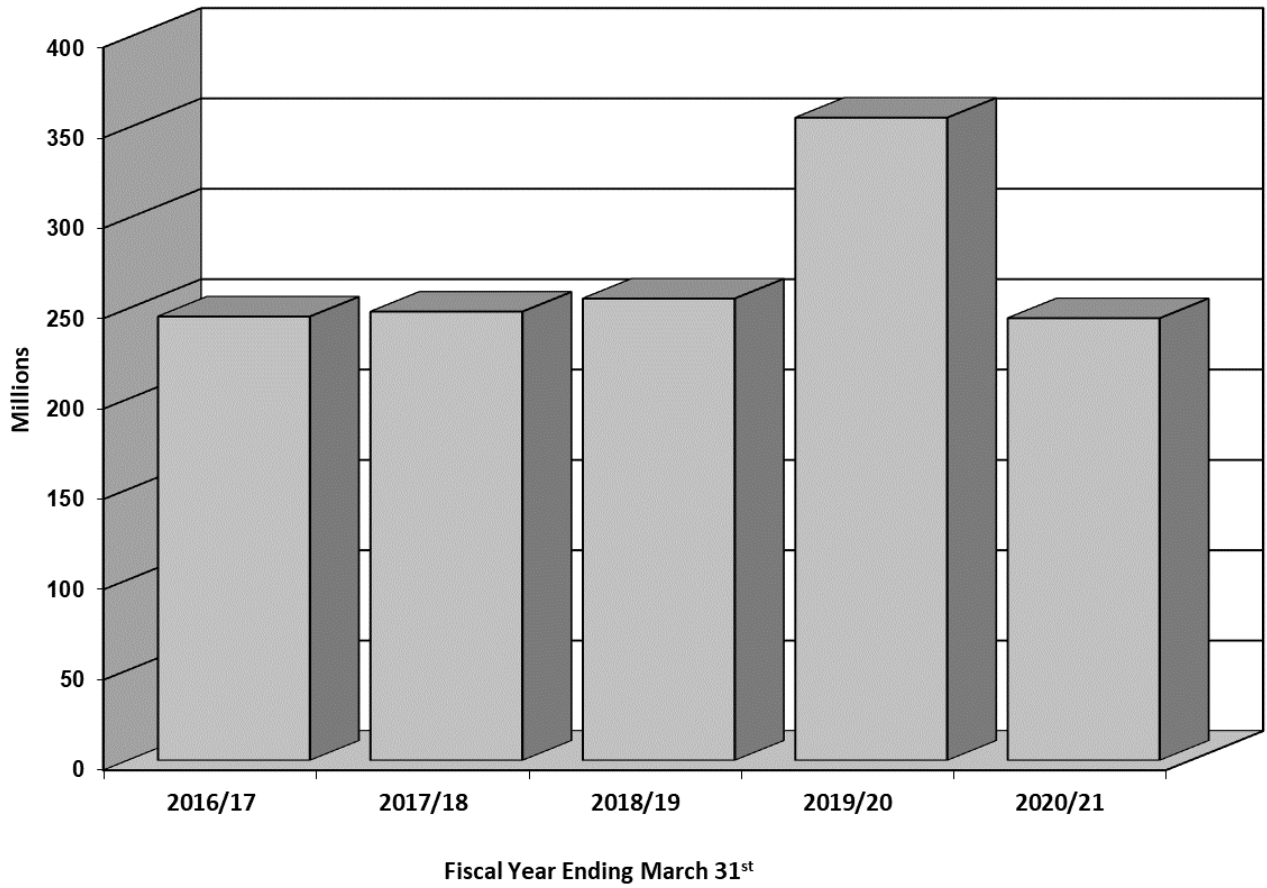
for the fiscal year ended March 31, 2021 with comparative figures for the previous fiscal year (\$000s)

Actual 2020/21	Actual 2019/20	Increase/ (Decrease)	Expl. No.	Source	Actual 2020/21	Estimate 2020/21	Increase/ (Decrease)	Expl. No.
Taxation								
4,491	9,104	(4,613)	1	Oil and Natural Gas Tax	4,491	8,608	(4,117)	6
4,491	9,104	(4,613)		Sub-Total	4,491	8,608	(4,117)	
Government of Canada:								
-	30	(30)		Ecosystem Monitoring Network	-	30	(30)	
28	26	2		Agriculture Income Stabilization Administration Recovery	28	50	(22)	
344	-	344	2	Forest Sector Safety Measures Fund	344	-	344	2
372	56	316		Sub-Total	372	80	292	
Other Revenue:								
5,981	5,590	391		(a) Fees	5,981	7,053	(1,072)	7
3,510	3,527	(17)		(b) Minerals Royalties and Fees	3,510	4,100	(590)	
8,514	13,193	(4,679)	3	(c) Petroleum Royalties and Fees	8,514	9,774	(1,260)	3
240	227	13		(d) Cottaging Initiative	240	732	(492)	
2,377	2,157	220		(e) Fisheries Fees and Sundry	2,377	2,085	292	
10,074	4,191	5,883	4	(f) Forestry Fees and Sundry	10,074	4,370	5,704	8
218	293	(75)		(g) GeoManitoba Fees and Sundry	218	321	(103)	
2,729	2,412	317		(h) Land Information Sales and Fees	2,729	1,962	767	
2,301	3,093	(792)		(i) Wildlife Sundry	2,301	3,408	(1,107)	9
1,158	4,435	(3,277)	5	(j) Sundry	1,158	198	960	10
37,102	39,118	(2,016)		Sub-Total	37,102	34,003	3,099	
41,965	48,278	(6,313)		Total Department Revenue	41,965	42,691	(726)	

Explanations:

- The decrease is primarily due to a significant decrease in oil prices in 2020/21 due to lower than average demand.
- The increase is due to Natural Resources Canada (NRCAN) providing Manitoba with funding in 2020/21 to disburse to the forest sector to help offset the costs of COVID-19 related health and safety measures.
- The variance is mainly due to decreases in oil prices along with lower Oil and Gas Lease bonuses due to less hectares of land available for sale in 2020/21.
- The increase is primarily due to higher volume of timber harvested and higher softwood lumber and OSB prices resulting in increases for Timber Agreement sales and Forest Management Licences in 2020/21.
- The decrease 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. This is partially offset in 2020/21 by the administration of the 2020 Finished Cattle Feed Assistance Program and the transition of the Canadian Agricultural Partnership from the Food Development Centre to the Department.
- The decrease is primarily due to lower than average oil prices due to the COVID-19 pandemic lowering demand as businesses were shuttered, people stayed at home and travel was restricted.
- The decrease is mainly the result of a one-time decrease in Agricultural Crown Lands Leases and Permits due to the implementation of rent relief to legacy lease and permit holders located in municipalities who declared a Local State of Agricultural Emergency in 2019 due to drought conditions and due to the transition to the new program. This decrease is also the result of decreased testing at the Veterinary Diagnostic Lab.
- The increase is primarily due to softwood lumber and OSB board prices being at an all time high as a result of demand and supply issues due to the COVID-19 pandemic resulting in an increase to timber harvest fees.
- The decrease is due to COVID-19 travel restrictions limiting the number of non-residents coming to the Province to hunt and fish and less permits for export and processing.
- The increase is primarily due to the 2020 Finished Cattle Feed Assistance program and the transition of Canadian Agricultural Partnership from the Food Development Centre to the Department.

APPENDIX F: FIVE YEAR EXPENDITURE HISTORY FOR YEARS ENDING MARCH 31, 2017 TO MARCH 31, 2021



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, 2017 to March 31, 2021

Actual / *Adjusted Expenditures											
Main Appropriation	2016/17		2017/18		2018/19		2019/20		2020/21		
	FTEs	\$(000's)	FTEs	\$(000's)	FTEs	\$(000's)	FTEs	\$(000's)	FTEs	\$(000's)	
3-1 Administration and Finance	104.50	6,178	99.50	6,006	96.50	5,975	89.50	6,013	90.50	5,196	
3-2 Policy and Transformation	68.00	10,964	68.00	11,046	67.00	11,882	65.00	13,074	65.00	12,245	
3-3 Risk Management, Credit and Income Support Programs	-	128,876	-	135,252		140,661	-	140,820	-	123,473	
3-4 Stewardship and Assurance	131.00	14,605	129.00	15,416	129.00	15,280	125.00	15,394	127.00	15,588	
3-5 Production and Economic Development	156.00	15,314	151.00	15,123	151.00	14,793	137.00	14,278	134.00	13,758	
3-6 Water Stewardship and Biodiversity	357.10	51,961	331.10	52,968	324.10	58,678	320.10	156,825	320.10	59,846	
3-7 Resource Development	77.10	16,919	77.10	11,721	77.10	7,554	73.40	8,647	73.40	13,885	
3-8 Costs Related to Capital Assets	-	867	-	818	-	802	-	650	-	745	
Total Departmental Appropriations	893.70	245,684	855.70	248,350	844.70	255,625	810.00	355,701	810.00	244,736	

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

APPENDIX H: PERFORMANCE INDICATORS 2020/21

The following section provides information on key performance measures for the department for the 2020/21 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 2020/21 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.	2011-2015 average Five-year average spring wheat yield: 46.6 bushels/acre. Five-year average canola yield in MB: 34.0 bushels/acre. Five-year average grain corn yield in MB: 112.2 bushels/acre. Five-year average soybean yield in MB: 33.3 bushels/acre. Five-year average cattle and calves total	2016-2020 average Five-year average spring wheat yield: 59.2 bushels/acre. Five-year average canola yield in MB: 41.6 bushels/acre. Five-year average grain corn yield in MB: 121.7 bushels/acre. Five-year average soybean yield in MB: 35.5 bushels/acre. Five-year average cattle and calves FCR	The 30-year trends have been toward increased yields for all four grain crops and for livestock. The 30-year trend wheat yield for 2020 is 55.4 bushels/acre. The wheat average yield for 2020 is 61.5 bushels/acre. The 30-year trend canola yield for 2020 is 40.2 bushels/acre. The canola average yield for 2020 is 41.4 bushels/acre.	Manitoba has seen above-trend productivity growth for wheat and canola over the past four seasons. 2017 set record yields for canola and wheat (as well as barley, oats and rye). Both canola and wheat had their four highest yields ever in 2017, 2018, 2019 and 2020. Wheat and oats also set new records in 2020. Soybean yields were exactly on trend for 2020, while corn was

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 2020/21 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
		farm cash receipts (FCR) \$557.36 million. Five-year average hogs total FCR \$1.0 billion.	\$587.89 million. Five-year average hogs FCR \$1.04 billion	<p>The 30-year trend grain corn yield for 2020 is 126.6 bushels/acre. The grain corn average yield for 2020 is 122.2 bushels/acre.</p> <p>The 20-year trend soybean yield for 2020 is 37.3 bushels/acre. The soybean average yield for 2020 is 37.3 bushels/acre.</p> <p>The 30-year trend for cattle and calves FCR is \$621.682 million for 2020. Cattle and calves FCR for 2020 is \$619 million.</p> <p>The 30-year trend for hogs FCR is \$1.17 billion for 2020. Hogs FCR for 2020 is \$1.05 billion.</p>	<p>slightly below trend yet still the third highest yield on record.</p> <p>Farm cash receipts were a record high for cattle and calves in Manitoba in 2015; 2020 receipts are close to the second highest amount recorded in 2014. The 2020 cattle and calves FCRs (\$610 million) were below the 30-year trend but above both the baseline and the most recent five-year average, mainly due to increased sales.</p> <p>Hog FCRs were a record high in 2014 and have been over one billion dollars in 2019 and 2020. Hog FCRs were higher in 2020 compared to 2019 due to increased sales.</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 2020/21 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
<p>Producer action to identify and mitigate environmental risks in their farm operation.</p>	<p>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.</p>	<p>2005/06 – The Environmental Farm Plan (EFP) program was launched and 3,400 people attended workshops.</p> <p>2005/06 – 1,317 EFPs completed.</p> <p>2008/09 to 2020/21- average annual workshop attendance of 273 producers with average annual completion of 143 EFPs.</p>	<p>2021/21 - 501 producers attended 28 virtual workshops.</p> <p>2020/21 - 226 EFP's were completed (131 new and 95 renewing with a total of 649,189 acres assessed).</p>	<p>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.</p>	<p>Over the life of the program, more than 7,500 EFPs have been completed, assessing more than 10.5 million acres of MB farmland.</p> <p>EFPs require updating every five years.</p> <p>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). Starting September 2021, dairy producers must complete an EFP to meet industry requirements. Other commodities continue to move towards this model as well. Online EFP is currently under</p>

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					development and sustainable sourcing standards are being integrated.
The size and impact of the food and beverage manufacturing sector in Manitoba.	Total value of agrifood 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.	2011-2015 Average Five-year average sales value: \$4.4 billion.	2016-2020 Average Five-year average sales value: \$5.2 billion.	The food and beverage manufacturing sales have grown an average of 3.3 per cent annually over the last ten years. The industry sales declined from \$4.4 billion in 2011 to \$4.2 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 have bounced back since 2016, registering a record level sales value of \$5.9 billion in 2020.	Food and beverage manufacturing is a highly productive sector. Manitoba exported \$3.3 billion worth of processed food and beverage products in 2020, up 16 per cent from 2019. Over the last five-year period, the trade balance in food and beverage processing sector has been positive and stood at \$2.26 billion in 2020. Meat processing is expected to keep its lead over the near term. The sector saw a 15.5 per cent increase in sales in 2020 compared to 2019, reaching \$2.6 billion in 2020. Meat

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 2020/21 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
					<p>and meat products export value increased by 24.2 per cent from \$1.2 billion in 2019 to \$1.4 billion in 2020, mainly due to China's decision to lift the ban on Canadian pork imports in November 2019.</p> <p>Over the past four years, there has been significant investments 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</p>

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					<p>inspected Country Meat and Sausage facility in Blumenort will continue to improve the food manufacturing sector's output. The addition of a pea processing plant (Roquette) in Portage la Prairie, Merit Functional Food in Winnipeg, and new feed processing mills will also significantly contribute to the sector's growth in the future.</p>
<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</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</p>

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				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.	revenue was estimated from an industry survey led by the department. No industry survey was done in 2020/21.
Success in turning government support into commercial products and improvements.	Investments in research by government are aimed at seeing new or improved products developed that contribute to farm profitability, new products, competitiveness and additional economic activity.	In 2014/15 the department continued support for FDC with 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. 	The department continued support for FDC with funding for agrifood innovation, development and commercialization: <ul style="list-style-type: none"> • FDC created 26 new food product and ingredient prototypes. • FDC had a variety of ongoing plant and animal protein ingredient trials with 15 companies; tested co-stream protein 	FDC focused on protein extraction processing and co-product evaluation, ingredient development, food product development, and food regulatory consulting.	<ul style="list-style-type: none"> • The team at FDC enables food entrepreneurs and 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

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 2020/21 result (current year) or most recent available data? (D)	What is the trend over time? (E)	Comments /Recent Actions/Report Links (F)
		<ul style="list-style-type: none"> • 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. 	<p>potential for three companies.</p> <ul style="list-style-type: none"> • 355 nutrition labels for food products created. • FDC advanced 14 Manitoba agrifood processing companies for the creation and implementation of programs for Safe Food for Canada Act (SFCA). 		<p>Development and will be instrumental in achieving the Minister's Mandate and department's strategic goals, including:</p> <ul style="list-style-type: none"> • Growth of agriprocessing businesses; • Retention and attraction of large agriprocessors to increase investment, trade and jobs in Manitoba; • Advancing the development and 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	2011-2015 Average Five-year average employment in primary	2016-2020 Average Five-year average employment in primary	The number of jobs in primary production has decreased by 1.1 per cent every year	

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	development	<p>agriculture: 24,681 jobs.</p> <p>Five-year average employment in food and beverage processing sector: 12,904 jobs.</p> <p>Five-year average employment in resource production: 4,691 jobs.</p> <p>Five-year average employment in resource processing sector: 7,535 jobs.</p>	<p>agriculture: 23,437 jobs</p> <p>Five-year average employment in food and beverage Processing sector: 12,452 jobs.</p> <p>Five-year average employment in resource production: 3,751 jobs.</p> <p>Five-year average employment in resource processing sector: 7,898 jobs.</p>	<p>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 decreased by 0.3 per cent every year since 2011.</p> <p>The number of jobs in resource production has decreased by 1.6 per cent every year over the past ten years.</p> <p>Employment in the resource processing sector has increased by 0.8 per cent every year since 2011.</p>	
Water quality in Manitoba, by	It is important to measure water quality	Water quality has been tested at many rivers,	The latest data available are for 2020.	The Water Quality Index in Manitoba	Work is underway to protect, maintain and

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assessing water quality data using the CCME Water Quality Index.	because we want to protect drinking water, fish and other aquatic life, recreation, and other important water uses.	streams and lakes since the early 1970s. The Water Quality Index has been calculated for 36 stations since 1992.	Within the Prairie Eco-zone, the CCME Water Quality Index Value was 78 or of "fair" quality. Within the Boreal Plains, the CCME Water Quality Index Value was 87 or of "good" quality. Within the Boreal Shield Eco-zone, the CCME Water Quality Index Value was 98 or of "excellent" quality	has generally been stable since 1992.	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, and, where necessary, improve the quality of water flowing into Manitoba.
The status of fish stocks on larger commercial fisheries is being assessed	It is important to measure the status of fish stocks because they are an indicator	The baseline used for management purposes will be the lake specific year of implementation	Cedar Lake Fish stock status is stable. Collaborative stock monitoring has	Cedar Lake Fish production has been stable for the past 10 years.	Cedar Lake The department is implementing a new fishery management

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<p>through the implementation and analysis of index-netting programs that support updated fishery management plans.</p>	<p>of both aquatic ecosystem health and economic opportunity for fishers</p>	<p>of modern index-netting approaches and/or the development of a modern management plan.</p>	<p>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>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>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. In May 2020, a minimum mesh size of 89 mm (3 ½ inches) was implemented on portions of the lake which had previously had a minimum mesh of 76 mm (3 inches). Increasing the minimum mesh size will improve the fishery by allowing</p>

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					<p>more immature fish to escape the fishery, grow larger and spawn once before being removed by the fishery. This will increase the reproductive potential of the walleye stock and increase the size of fish caught, which will ensure maximal walleye yield from the fishery.</p> <p>Lake Winnipegosis The department is working to develop and implement a new fisheries management plan and modern index netting program.</p>
<p>Number of watercraft inspected for aquatic invasive species (AIS).</p>	<p>Demonstrates the number of watercraft that are being strategically intercepted and inspected for AIS.</p> <p>Each inspection is an opportunity to:</p>	<p>Summer 2011: 151 watercraft inspections were conducted.</p>	<p>During the 2020 open water season, 20,940 inspections were conducted across the province.</p>	<p>The number of inspections has increased significantly since 2011. Prior to the introduction of zebra mussels into Lake Winnipeg, watercraft inspections were</p>	

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	<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. 			<p>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 (9,889) and 2018 (12,865) respectively. The number of inspections for 2020 is higher than that (18,349) for 2019.</p> <p>In subsequent years, if the program continues to operate with the same number of stations and staff, the number</p>	

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				of inspections is expected to remain similar to 2019.	
Compliance with AIS legislation, specifically with removing drain plugs when transporting watercraft overland and stopping at mandatory watercraft inspection stations.	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.	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 provision and 66 per cent of boaters were compliant with stopping at the mandatory inspection stations.	In 2020, drain plug compliance increased to 94.21% and stopping compliance increased to 90.8 %.	Compliance rates are expected to increase over time as more people become aware of the legal requirements. Additionally, in 2018 set fines were introduced for ticketable offences under 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	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	In 2020/21, the department sampled 46 elk, 340 white-tailed deer, 18 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.	In November 2020, Manitoba entered a lockdown due to COVID-19. As a result, Drop-Off Depots were closed to limit potential spread of the virus.

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	indicators of healthy ecosystems.	diseases currently known to exist and monitor for diseases that are potentially entering the province (e.g., Chronic Wasting Disease).			
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 the province, Manitoba Trappers Association provides trapping expertise requested by livestock producers with a confirmed loss from a problem predator.	Manitoba Trappers Association actioned 29 service requests resulting from livestock predation and removed 100 coyotes, 11 wolves and nine foxes.	Service requests vary annually. An average of 24 service requests have been actioned annually over the last five years, which indicates that program uptake was stable in 2020/21.	Department explored improvements to the program; some of these will become effective in 2021/22.
Big Game population monitoring efforts conducted to estimate changes in big game population trend.	The department manages wildlife populations for the benefit of all Manitobans. Healthy big game populations	Manitoba's big game populations vary in size over time due to a variety of factors, including hunting pressure, predators,	2020/21 was a planning year for the department with a focus on development of big game management	Monitoring efforts will continue. Current trends suggest moose populations in the Porcupine Mountains are being	Monitoring efforts will evolve as new technology and techniques are developed.

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	<p>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>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>documents and new and innovative survey techniques. As such, aerial surveys were not flown.</p>	<p>maintained and Duck and GHA 26 populations are slightly increasing, but slower than expected.</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 for fiscal year 2020/21.

Information Required Annually (per section 18 of The Act)	Fiscal Year 2020/21
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, 2020

	2020	2019
Balance, beginning of year	\$570,548.33	\$560,821.57
Interest earned	\$5,422.31	\$9,726.76
Deposits	-	-
Claims and disbursements	-	-
Change during the year	<u>\$5,422.31</u>	<u>\$9,726.76</u>
Balance, end of year	<u><u>\$575,970.64</u></u>	<u><u>\$570,548.33</u></u>

APPENDIX K: ACRONYMS LISTING

4H	4-H
AAFC	Agriculture and Agri-Food Canada
ACC	Assiniboine Community College
ACL	Agricultural Crown Lands
AGOL	ArcGISOnline
AI	Avian Influenza
AIS	Aquatic Invasive Species
AITC	Agriculture in the Classroom
AMCP	Association of Manitoba Community Pastures
ASF	African Swine Fever
AUM	Animal Unit Months
BSC	Balanced Scorecard
BMP	Beneficial Management Practices
BRM	Business Risk Management
BSE	Bovine Spongiform Encephalopathy (Mad Cow Disease)
bTB	Bovine Tuberculosis
CAP	Canadian Agricultural Partnership
CAHSN	Canadian Animal Health Surveillance Network
CCFI	Canadian Centre for Food Integrity
CDs	Conservation Districts (now renamed Watershed Districts)
CDC	Conservation Data Centre
CDC	Crop Diversification Centres
CFIA	Canadian Food Inspection Agency
CFS	Canadian Forest Service
CLIP	Crown Lands Improvement Program
CLPA	Crown Lands and Property Agency
CMCDC	Canada Manitoba Crop Diversification Centre
CMBTC	Canadian Malt Barley Technical Centre
CMU	Canadian Mennonite University
COs	Conservation Officers
CPL	Cadham Provincial Laboratory
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
CVO	Chief Veterinary Officer
CWD	Chronic Wasting Disease
CWSHIN	Canada West Swine Health Intelligence Network
DED	Dutch Elm Disease
DFA	Disaster Financial Assistance
DFM	Dairy Farmers of Manitoba
DSSAE	Decision Support System for Animal Emergencies

EA	Enterprise Agreement
EDB	Estimates Debate Book
EFP	Environmental Farm Plan
EG&S	Ecological Goods and Services
EMO	Emergency Measures Organization
EOC	Emergency Operations Centre
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
FIPPA	Freedom of Information and Protection of Privacy Act
FLS	French Language Services
FML	Forest Management Licence
FMP	Forest Management Plan
FMU	Forest Management Unit
FPT	Federal/Provincial/Territorial
FSTR	Farmland School Tax Rebate
FWEF	Fish and Wildlife Enhancement Fund
GEM	Geo-mapping for Energy and Minerals
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
ICS	Incident Command Structure
IICFI	Inland Indigenous Commercial Fisheries Institute
IJC	International Joint Commission
ILT	Infectious Laryngotracheitis
INR	Indigenous and Northern Relations
IQE	Individual Quota Entitlement
ISI	Innovation Super cluster Initiative
KAP	Keystone Agricultural Producers
KPPA	Keystone Potato Producers Association
LMMMR	Livestock Manure and Mortality Management Regulation
LP	Louisiana-Pacific
LSI	Livestock Sustainability Initiative
LWRC	Lake Winnipeg Research Consortium

MAAS	Manitoba Association of Agricultural Societies
MAHF	Manitoba Agriculture Hall of Fame
MAKE	Manitoba Agriculture and food Knowledge Exchange
MARIC	Manitoba Agricultural Research and Innovation Council
MASC	Manitoba Agricultural Services Corporation
MAW	Manitoba Association of Watersheds
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
MGA	Manitoba Goat Association
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
MLI	Manitoba Land Initiative
MMF	Manitoba Metis Federation
MOU	Memorandum of Understanding
MPA	Manitoba Protein Advantage
MPC	Manitoba Pork Council
MPSG	Manitoba Pulse and Soybean Growers
MQHA	Mountain Quota Holder Association
MR	Municipal Relations
MSA	Manitoba Sheep Association
MTA	Manitoba Trappers Association
MWI	Manitoba Women's Institute
NFI	National Forest Inventory
NRC	National Research Council
NWA	Noxious Weeds Act
NWPTA	New West Partnership Trade Agreement
OPT	Out of Province Travel
OSB	Oriented Strand Board
PAMI	Prairie Agricultural Machinery Institute
PCPA	Pest Control Products Act
PEDv	Porcine Epidemic Diarrhea virus
PFGA	Prairie Fruit Growers Association

PMRA	Pest Management Regulatory Agency
PIC	Protein Industries Canada
PID	Premises Identification
PMP	Peatland Management Plan
PMLP	Pesticides and Manure Licensing Program
PPE	Personal Protective Equipment
PPO	Park Patrol Officer
PSPs	Permanent Sample Plots
QRPMLP	Quarry Rehabilitation on Private and Municipal Land Program
RACC	Regulatory Accountability Committee of Cabinet
RM	Rural Municipality
RMEA	Riding Mountain Eradication Area
ROI	Return on Investment
RRX	Red River Exhibition Association
RTR	Red Tape Reduction
SAR	Species at Risk
SDI	Spatial Data Infrastructure
SFCA	Safe Food for Canada Act
SILR	Supplementary Information for Legislative Review
SRB	Surface Rights Board
SWL	Softwood Lumber
TCA	Tangible Capital Assets
TGI	Targeted Geoscience Initiative
TLE	Treaty Land Entitlement
TRC	Technical Review Committee
TWF	the Winnipeg Foundation
UAVs	Unmanned Aerial Vehicles
U of M	University of Manitoba
U of S	University of Saskatchewan
U of W	University of Winnipeg
VSC	Veterinary Services Commission
VSD	Veterinary Services District
VDS	Veterinary Diagnostic Services
WCDP	Waterfowl Crop Damage Prevention
WCI	Water Craft Inspection
WEI	Wildlife Enhancement Initiatives
WLPIP	Western Livestock Price insurance Program
WMA	Wildlife Management Area
ZBL	Zoning By-Laws