Project ID - TFW #	Project Name	Region	TFW Action	TFW Funding Spent	Final Perfor
2324-T4W-105	Access management within Syilx Territory	Thompson Okanagan	9. On-the-ground Action	\$ 40,000.00	A collaborative team gat This included: field work incorporated into the wo was community and elde cultural significance of th
2324-T4W-056	Assessing effectiveness of wildlife salvage activities conducted throughout the province under <i>Wildlife Act</i> permits, with a focus on amphibians	Ministry of Water, Land and Resource Stewardship - Biodiversity and Ecosystems Branch	9. On-the-ground Action	\$ 12,745.51	The ability to remove am important skill for enviro 2022/23, where a study design was implemented Practices for Amphibian guidance for permit app Professionals offering he biologists: (https://nrtra improve animal care app to the FrontCounter BC
2324-T4W-055	Assessing the effectiveness of road mortality mitigation structures, with a focus on western painted turtles	Kootenay Boundary	9. On-the-ground Action	\$ 26,300.00	The western painted tur determine if mortality m Road. Most of the turtles wildlife underpass that a right area to help protect turtles trying to move fro mortality continues. This directing them to the un There is limited evidence evidence suggesting the However, in this case as turtles were captured er exiting the underpass wi share information, gener painted turtles was orga projects around the prov
2324-T4W-057	B.C. Feral Pig Strategy support	Ministry of Water, Land and Resource Stewardship - Biodiversity and Ecosystems Branch	4. Data and Information	\$ 62,459.04	Invasive species are a the prey on and compete wi address these threats, the creation of a B.C. Feral P transboundary collaborat international level that for enabled by this project in Strategy and B.C. Feral P trap feral pigs; 3. Plannin Exercise involving British Northwest Economic Rep
2324-T4W-061	BC Telemetry Data Warehouse (BCTW)	Ministry of Water, Land and Resource Stewardship - Natural Resource Information and Digital Services (NRIDS)	7. Data Accessibility	\$ 85,000.00	The Integrated Data and databases and improve of that datasets are consoli system functionality cou with telemetry, captures database module that all Critterbase module in pla allowing wildlife telemet users to upload wildlife of visualization of an individ
2324-T4W-010	Big Creek Moose Research Project	Cariboo	4. Data and Information	\$ 27,424.30	Together for Wildlife fur Chilcotin. Rapid mortality collared moose was also estimating how many mo harvest management de
2324-T4W-013	Boundary cougar Inventory	Thompson Okanagan	4. Data and Information	\$ 4,610.51	Work continued to build conducted across a data population structure and used to monitor the size
2324-T4W-068	Building resilience of Interior Douglas fir Ecosystems (Alkali Resource Management Ltd.)	Cariboo	9. On-the-ground Action	\$ 30,808.69	This multi-year project is owned by the Esk'etemo lines (i.e., lines following would then be compared collect wildlife use of the to the post-treatment da harvesting in Interior ar use of these areas, cultu
2324-T4W-009	Cariboo Region mountain goat and sheep surveys	Cariboo	4. Data and Information	\$ 84,576.64	The Pantheon mountain 2023. The results provide development of hunting Chilcotin Mountains (in t
2324-T4W-083	Collaborative wildlife and habitat stewardship and First Nations engagement on Vancouver Island	West Coast	9. On-the-ground Action	\$ 59,057.32	Conflicts with elk along t existing elk movement d mitigation measures, or elk are observed close to remains low and is not g team strategically deploy resulting images are ong high level of collaboratio solidify a strategy to con communities are assertir Nation to begin a proces

## rmance Reporting 2023-2024: Project Achievements - deliverables & outcomes

thered baseline information for the Penasq't Summit to better understand habitat and ecosystem conditions. k to assess available roads for future rehabilitation; identifying other ecosystem values that could be york; and creating maps of the chosen area and show the work to be completed. Another aspect of the work er engagement with our Syilx partners. Elders and knowledge keepers were taken out on the land to share the whe area and the related habitats.

mphibians and reptiles (herpetofauna) safely and effectively from a work site to protect them from harm is an onmental professionals. This project was built upon work previously funded by Together for Wildlife (T4W) in design was developed to evaluate the effectiveness of amphibian "salvage" activities. In 2023/24, this study d, and progress was achieved in several areas. Relevant sections of current guidance (i.e., Best Management and Reptile Salvages in B.C., 2016) and other related government documents were evaluated. Improved plicants was uploaded to the FrontCounter BC website to enhance the quality of future salvage applications. erpetofauna salvage courses were consulted to discuss information and practices to improve training for B.C. aininggroup.com/course-descriptions/amphibian-and-reptile-salvage-methods/). Additionally, guidance to plications for salvage projects (one part of the permit requirements for this activity) was updated and uploaded website.

rtle is the only native freshwater turtle in British Columbia. As part of this project, an assessment was done to itigation structures were helping to reduce the number of turtles killed while crossing Jaffray Baynes Lake s found dead on the road during our surveys were located between existing turtle crossing signs where a allows turtles to travel beneath the roadbed had been installed. This result indicates that the underpass is in the t the turtles. It also shows that the general placement of the fencing should provide maximum benefit for rom one side of the road to the other. Although the location is well-suited for these protection measures, turtle s indicates that the temporary fencing was not effective in preventing turtles from crossing the road or nderpass. Wildlife cameras showed animals using an existing small culvert and the installed larger underpass. e that three turtles interacted with the small culvert, either by approaching it or entering it, but there is no ey travelled all the way through. More substantial evidence shows 15 turtles engaging with the larger underpass. well, none of the captured evidence conclusively showed that the turtles moved all the way through. Some ntering and promptly exiting the underpass back through the same entrance , whereas others were captured ith no evidence of them entering the underpass. As part of this project, outreach events were organized to erate interest in the project and encourage future reporting. As well, a provincial meeting about western anized where the project's results were presented and updates were received from other turtle protection ovince.

nreat to wildlife and wildlife habitats, and feral pigs are among the world's most harmful invasive species. They with native wildlife, spread disease, destroy crops, eat small livestock, and pose a risk to public safety. To help he B.C. Feral Pig Working Group was formed in 2023. This project supports the group's goals, including the Pig Strategy and a B.C. Feral Pig Early Detection and Rapid Response Plan. The project also supported ations, since B.C. government representatives sit on several feral pig working groups at the national and focus on coordination, monitoring, and implementation of response efforts across borders. Featured activities included: 1. Hiring of an auxiliary biologist to assist with coordination and creation of a draft B.C. Feral Pig Pig Early Detection and Rapid Response Plan; 2. Hiring of a professional contractor to respond to sightings and ng of cross-border feral pig response exercises and events, including a Pacific Northwest Cross-Border Tabletop h Columbia, Washington and federal partners in October 2023 and a Feral Swine Summit at the Pacific egion Summit in July 2023.

d Analysis Branch is continuing multi-year systems development work to modernize legacy provincial wildlife data access. This work will help ensure that wildlife and habitat data are reliable and accessible to everyone and lidated at the provincial scale. In 2023-24, system development advanced to a point where newly developed uld be integrated within the new Species Inventory Management System to consolidate species observations s, mortalities, and wildlife survey and project metadata. This was enabled by the development of 'Critterbase,' a llows the Species Inventory Management System to integrate information about individual animals. With the lace, the BC Telemetry Warehouse could be incorporated into the Species Inventory Management System try data to be automatically collected and visualized in real time alongside species observations. It also allows capture and mortality data; and, in-future, share that information with wildlife health biologists to facilitate the idual animals' health results alongside its movements.

nding supported aerial-based mortality investigations of GPS-collared moose in the Big Creek area in the ty investigations allowed for biological sampling and determination of causes of death. A recruitment survey of completed in 2024. Information from the survey builds on the long-term monitoring of calf recruitment (i.e., noose calves survive to one year old) for the South Chilcotin moose population, and it supported moose ecisions for the 2024 hunting season.

d an Integrated Population Model for cougars in the Boundary region. In 2023-24, a parentage analysis was aset of 70 individual cougars from DNA samples that were previously genotyped. These data will inform d demography profiles for a population that was inventoried in 2021. The Integrated Population Model will be e and trend of this population and will also inform harvest management to ensure sustainability.

is a collaboration between provincial government ministries and Alkali Resource Management Ltd., which is c First Nation. In 2023-24, pre-treatment data collection continued, focused on plots along established transect ng routes along which a survey is conducted or observations are made) to collect vegetation data. This data ed against post-treatment data to assess changes in species diversity. Camera traps were also established to e treatment units during the winter before the treatments are completed in 2025, to compare that information ata and observe changes in wildlife use and diversity in those areas. The intent of this project is to improve how reas dominated by Douglas fir trees is done, based on a balanced perspective of ecosystem resiliency, wildlife urally important vegetation species, and wildfire risk reduction.

n goat Population Management Unit (PMU), located in the Pantheon Mountain Range) was inventoried in July ded population estimates and kid-to-adult ratios for the Pantheon PMU. The inventory results informed the g regulations to ensure that the licensed harvest of mountain goats for the General Open Season in South the Pantheon PMU) is sustainable.

the Highway 18 corridor between Duncan and Lake Cowichan are significant. As part of a multi-year effort, data along this highway corridor were analyzed to better understand whether the existing data can inform if additional information is required. Ministry staff combined this work with survey data to determine where to highways and thus pose a potential risk of elk-vehicle collisions. The elk population in the Nahmint Valley growing as expected. Working collaboratively with the Ucluelet First Nation and the Uchucklesaht Tribe, the typed cameras across the Nahmint Valley to better understand how elk use the area. Review and analysis of the going, and another year of data collection is anticipated for 2024-25. Managing elk for sustainable use requires a on with First Nations. The team therefore met with First Nations to share information amongst the groups and ntinue collaborative efforts to maintain sustainable elk harvest opportunities. Additionally, many First Nations ing management over furbearers. To this end, the ministry team began working with the Council of the Haida ss to collectively update trapline registrations on Haida Gwaii.

2324-T4W-106	Columbia Lake ecological corridor conservation planning	Kootenay Boundary	8. Objective-setting	\$ 29,000.00	This project supported th carried out by the Kooter includes representatives Canada, the B.C. governr corridor, develop benefic ecological corridors.
2324-T4W-111	Communicating West Coast Region's wildlife and habitat management objectives and approaches	West Coast	3. Public Engagement	\$ 9,947.50	Two new infographics we public, First Nations, and habitat in B.C.
2324-T4W-108	Communication support for regional wildlife monitoring and management update	Omineca	3. Public Engagement	\$ 18,000.00	The goal of this project w supported two recent pr Omineca moose populat moose with no more tha
2324-T4W-026	Community Bumble Bee Monitoring Project	Ministry of Water, Land and Resource Stewardship - Biodiversity and Ecosystems Branch	4. Data and Information	\$ 82,110.24	There are 38 known bur variety of habitats throug the conservation status of bee monitoring routes th would survey one or two routes monitored as part ecozones and habitats. S used to determine long-t and range maps. In 2023, following routes along w participated in the project Twenty-nine bumble bee conservation status rank
2324-T4W-066	Conservation Lands habitat protection and enhancement in the Kootenay Boundary Region	Kootenay Boundary	11. Conservation Lands	\$ 128,346.73	In 2023-24, the Ministry of the region to manage and relationships with conser- completed to enhance ha The habitat restoration carried out to stop cattle creation and enhanceme Bummers Flats, the pollir pollinators and discourage important resources for Creation project, in partr coordinated to support w for bighorn sheep, elk, m treatments were comple biodiversity features, as
2324-T4W-059	Critterbase data warehouse	Ministry of Water, Land and Resource Stewardship - Natural Resource Information and Digital Services (NRIDS)	7. Data Accessibility	\$ 75,000.00	The Integrated Data and provincial wildlife databa and are reliable, and that were streamlined to facil survey metadata. The ab data (like temperature ar warehouse. The B.C. Tele data to be automatically Branch also initiated the data to wildlife health bio BiodiversityHub BC, allow efficiently implement the management tools and s System to incorporate fis
2324-T4W-018	Deer and elk Ungulate Winter Range (UWR) effectiveness monitoring	West Coast	10. Land Designations	\$ 88,266.00	This project is assessing t areas protected from for persistent snowpacks. In landscape (e.g. watershe from hardcopy reports a GPS collars and remote c recommendations. Altho planning for several initia
2324-T4W-016	Deer Ungulate Winter Range (UWR) - Sunshine Coast Timber Supply Area (TSA)	South Coast	10. Land Designations	\$ 43,967.00	The objectives of this pro Timber Supply Area (TSA establish UWR polygons Sunshine Coast TSA. Phas Sunshine Coast TSA. For consideration traditional the Timber Harvesting La consultation with all stak deer to help guide the pr updated habitat model a field via helicopter. This w traditional knowledge int decisions are transparent
2324-T4W-033	Development of Integrated Population Models to support population decisions for B.C. big game species	Ministry of Water, Land and Resource Stewardship - Wildlife Branch	7. Data Accessibility	\$ 43,967.00	This project supported th computer-based platform where they would like th killed during the period) moose and cougars, but i so it can reconcile anoma information). Definition: Integrated Po wildlife populations and

the development of an Ecological Corridor Conservation Plan for the Columbia Lake Corridor. This work was enay Connectivity Working Group, coordinated by Kootenay Connect. It is a collaborative approach that from organizations that are active in managing public land in the East Kootenay region, including: Parks ment, BC Parks, Ktunaxa Nation Council and Shuswap Band. The plan will define conservation values within the icial management practices, and set objectives that will guide activities consistent with the conservation of

vere developed to share information about Ungulate Winter Ranges and Wildlife Management Areas with the d stakeholders. These resources are important tools to promote the protection and stewardship of wildlife

was to increase access to and visibility of wildlife related work being completed in the Omineca Region. It rojects: a multi-year assessment of wolf-moose predation dynamics: and demographic monitoring of Southern tions to assess the spike-fork moose general open season for licensed hunting. (A spike-fork bull is any bull an two tines on either antler.)

mble bee species in British Columbia. Most are wide-ranging, feed on a broad range of wildflowers, and live in a lighout our vast provincial landscape. This project aims to collect quantitative data that can be used to assess of all bumble bees in the province. Data collection involves establishing long-term (more than 10 years) bumble throughout the province. We are concurrently building a community of trained volunteers who, once per year, to of these routes near the areas where they live and work. These survey routes include some of the same rt of the North American Breeding Bird Survey program, as well as new routes. The routes extend through all Survey methods are consistent for all survey routes. Data collected over the ten-year assessment period will be -term trends in bumble bee distribution and abundance, and used to update conservation status assessments 3, 75 bumble bee routes were completed (totalling approximately 45 kilometres of transect lines (i.e., lines which surveys are conducted, or observations are made) throughout the province. Close to 80 volunteers ect. These routes crossed through all regions of the province, including numerous BC Parks and protected areas. the species were recorded, and the abundance and distribution data will help with assigning accurate ks to these species over a ten-year timeframe.

v of Water, Land and Resource Stewardship (WLRS) completed activities across multiple conservation lands in and enhance existing conservation lands. Funding was used to leverage additional investments and strengthen ervation partners to support wildlife objectives. At Wasa Slough, slashing (cutting of small trees) was habitat for elk, white-tailed deer, and mule deer in Ungulate Winter Range and an important wildlife corridor. In prescription included tree thinning, pruning, slashing, piling, and burning . At Earl Ranch, fence repairs were e that were grazing nearby from entering the property and impacting sensitive riparian areas around wetland event project sites. Extensive monitoring was completed for Phase 1 and Phase 2 wetland creation projects. At inator project (Year 3) was completed to create a diverse plant community to attract a wide range of native age invasive species. Through seeding, planting and monitoring, pollinator habitat will be enhanced by providing r native pollinators. In 2023-24, WLRS also completed site data collection for the Bummers Flats Wetland thership with ?aq'am, the Nature Trust of B.C., and Ducks Unlimited. At Wigwam Flats, project management was volunteer "slashing day" with local NGOs, which slashed 13 hectares of land to restore Ungulate Winter Range mule deer and white-tailed deer. At Wycliffe Conservation Property, fencing repairs and invasive plant eted. A prescription was developed to restore healthy ecological conditions to enhance wildlife habitat and s well as project management to support habitat enhancement activities.

d Analysis Services Branch is continuing multi-year systems development work to modernize and replace legacy hases and access systems. This work will help ensure that wildlife and habitat data are accessible to everyone at datasets are consolidated at the provincial scale. In 2023-24, multiple fish and wildlife data management tools illitate the submission of wildlife data, including species observations, telemetry, captures, mortalities, and bility to upload species observations with attributes (such as life stage and body condition) and environmental and weather) was added to the Species Inventory Management System by integrating with the Critterbase data lemetry Warehouse was integrated into the Species Inventory Management System to allow wildlife telemetry v collected and visualized in real time alongside species observations. The Integrated Data and Analysis Services e integration of the Wildlife Health System for data submitters to efficiently send wildlife capture and mortality iologists and visualize wildlife health results. The Species Inventory Management System was integrated with wing data and information to be shared and the Integrated Data and Analysis Services Branch to more the Species and Ecosystems Data and Information Security Policy. Features were also added that allow other data software applications, such as analytics dashboards, to integrate with the Species Inventory Management ish and wildlife data.

the effectiveness of Ungulate Winter Ranges (UWRs) for black-tailed deer and Roosevelt elk to determine if prestry activities are providing the habitat required for ungulates to survive severe winter conditions like deep, ndividual UWRs are being looked at as well as the management and protection of winter habitat at the ed) scale. An ArcGIS Online dashboard has been created to capture and display historic information digitized and maps, as well as recent information such as data from habitat models and surveys. Technologies including cameras are also being used to observe wildlife and inform habitat and forestry management ough assessment protocols are still being refined, this project is informing forestry and habitat management iatives on Vancouver Island.

roject were to designate Ungulate Winter Ranges (UWRs) for black-tailed deer throughout the Sunshine Coast A). This project was divided into two phases. Phase 1 involved collaborative work with shishalh Nation to s for black-tailed deer within their traditional territory (swiya), which is within the broader boundary of the ase 2 involves establishing UWR polygons for black-tailed deer outside the swiya, within the remainder of the r Phase 1, an updated habitat model was used to help guide the location of UWR boundaries, taking into al knowledge from shishalh, expert opinions from wildlife biologists, and information from forest licensees and and Base. To date, 63 candidate UWR polygons have been delineated in the swiya and were sent out for formal keholders. For Phase 2, an external contractor created a second updated winter habitat model for black-tailed process outside the swiya. Previously delineated UWR boundaries from 2014 were reviewed against the and new polygons have been delineated. In March 2023, a subset of polygons were refined and reviewed in the s work improves legislated land decisions by working collaboratively with First Nations and incorporating nto the decision-making framework. This work also establishes a very clear process with stakeholders so that all nt and clearly communicated.

the development of Integrated Population Models (see definition below) for several big game wildlife species. A rm was created (accessible over the Internet) that allows a user to choose a species, time period, and area he model to estimate the model's parameters, including estimated kill (number of animals of a given species ), harvest rate, population abundance, and population trend. Currently, this model is being used to track t it will soon be expanded to include other species. The model integrates wildlife data from a variety of sources, malies where data vary (e.g., when two sets of data are telling different stories or contain conflicting

pulation Models use multiple types of data within a single model. They can better use available information on ndividual animals to understand wildlife population changes over time.

2324-T4W-067	East Kootenay Wildlife and Habitat Advisory Committee facilitation support	Kootenay Boundary	2. Regional Advisory	\$ 59,810.00	This project provided en Committee (EK WHAC). T implementation of the To Kootenays. Outcomes in person meetings of the c identifying regional prior
2324-T4W-015	Effects of prescribed burning and plains bison grazing in a montane-boreal landscape	Ministry of Forests - Range Branch	4. Data and Information	\$ 17,876.94	This project was designe such as moose, deer, bis Detailed plant communit monitoring sites (range r on ungulate diets, variou manure was sampled and were consulted on the p
2324-T4W-005	Elk and deer population monitoring in the Vanderhoof agricultural belt	Omineca	4. Data and Information	\$ 23,749.82	A mid-winter aerial inver demographic informatio recommendations for hu
2324-T4W-075	Enhancing terrestrial riparian habitat along the Nechako river corridor	Omineca	9. On-the-ground Action	\$ 24,000.00	The purposes of this pro and to begin to address to thousand trees were pla work. Methods for collect cottonwood tree stands
2324-T4W-021	Evaluating large-scale moose habitat enhancement	Omineca	4. Data and Information	\$ 27,424.30	The purpose of this project The program was design combination of field surv plant communities, and l compared well with thos
2324-T4W-097	First Nations-B.C. Wildlife and Habitat Conservation Forum	Ministry of Water, Land and Resource Stewardship - Strategic Initiatives and Partnerships	24. FN Wildlife Forum	\$ 200,000.00	The First Nations-B.C. W projects such as the Cum review. The forum work Nations priorities and, in Together for Wildlife stra habitat and stewardship the Provincial Hunting ar
2324-T4W-027	Fisher landscape planning	Ministry of Water, Land and Resource Stewardship - Biodiversity and Ecosystems Branch	4. Data and Information	\$ 100,810.60	This project aimed to pro populations respond to p Model (that simulated th habitat) created using th populations over time. D better simulate fisher po introduced the tool to pr harvesting scenarios thro decades, based on differ other Forest Landscape I management decisions.
2324-T4W-073	François Lake bear population action plan	Skeena	8. Objective-setting	\$ 50,139.03	The wildlife subcommitte capacity to set stewardsh Band Councils so they we included reaching out to community, documentin within and around comm days. The pilot project cu Nation, COS, Northern Li group to reduce bear-rel wildlife coexistence that
2324-T4W-049	Fraser River bighorn sheep disease mitigation program	Thompson Okanagan	9. On-the-ground Action	\$ 43,967.00	This continuing project se survival and ultimately in across five different band to transmit the disease, p survival through the sum areas is greater than one
2324-T4W-041	Fraser River bighorn sheep: post-treatment herd planning and engagement	Cariboo	8. Objective-setting	\$ 27,424.30	Since 2019, a disease mit ovipneumoniae (M.ovi), herd to help the populat engagement workshops document entitled "Fras Planning". This documer populations.
2324-T4W-036	Genetic analysis of California bighorn sheep in British Columbia: a tool to inform future recovery and conservation of sub-populations	Ministry of Water, Land and Resource Stewardship - Wildlife Branch	9. On-the-ground Action	\$ 14,425.00	This project is a partners DNA samples of bighorn picture of which bighorn Taseko/Relay/Tsilos/Ner understand where herds populations. This project plan to restore the Frase being devastated by don (i.e., local extinctions). So and traditional harvest o
2324-T4W-029	Great Blue Heron investigation of genetics and ecological differences between coastal and interior populations	Ministry of Water, Land and Resource Stewardship - Terrestrial Species Recovery Branch	4. Data and Information	\$ 12,000.00	A report and project pro B.C. The contractor deve outlines the number and complete a robust genor the potential for the B.C.

ngagement, communication, and facilitation support for the East Kootenay Wildlife and Habitat Advisory The key roles of the EK WHAC is to provide advice to provincial government staff at the regional scale about the Together for Wildlife strategy, and to represent a united voice on behalf of wildlife and their habitats in the East included support for a communications and facilitation expert to design, deliver and facilitate virtual and incommittee on an ongoing basis. This provided expertise has allowed the committee to focus its efforts on prities and communicating their recommendations to the Province.

ed to inform the management of prescribed burning for ungulate habitat (e.g., habitat used by hoofed animals son, and caribou) in the Muskwa-Kechika Management Area, with a particular focus on plains bison and elk. ity information, including species composition and forest stand characteristics, was recorded at long-term reference areas) within burned areas of wildlife habitat. To determine the consequences of prescribed burning us important plant species were sampled and analyzed for forage qualities. To determine bison and elk diets, nd e-DNA analyses were completed. While the project did not partner with First Nations, Treaty 8 First Nations project, and Prophet River First Nation expressed its support for this work.

ntory survey in the Vanderhoof agricultural area was conducted to collect minimum total counts and on about wintering populations of elk and deer. This information was used to provide management unting regulation changes, such as winter antlerless elk Limited Entry Hunt opportunities.

oject were to confirm that large-diameter cottonwood trees along the Nechako River corridor are not surviving this future deficit in habitat supply through targeted planting of locally grown cottonwood seedlings. Twenty anted in a variety of riparian habitat types and their fates monitored to clarify future locations for restoration ecting viable seeds and selecting optimal planting locations are now clarified, with the goal of restoring s along the entire length of the river in the coming years.

ject was to evaluate the effectiveness of a large-scale ecological restoration and habitat enhancement program. ned to bolster forest diversity while providing a stable supply of forage and winter range for moose. Through a rveys and remote sensing, it was estimated that the quantity and quality of available forage, the composition of habitat use by ungulates (i.e., hoofed animals such as moose, deer, bison, and caribou) in treated areas se in untreated forested areas nearby.

/ildlife and Habitat Conservation Forum held ongoing meetings with various B.C. government teams working on mulative Effects Framework, the Biodiversity and Ecosystem Health Framework, and the ongoing Wildlife Act ked with these project teams and others to provide strategic advice on First Nations engagement, possible First in some cases, co-developed policies and legislative proposals. The forum also worked to advance Goal 5 of the rategy by continuing to advance draft policies on shared decision-making and collaborative wildlife, wildlife o planning. The forum also collaborates with organizations such as the Minister's Wildlife Advisory Council and and Trapping Advisory Team to align wildlife priorities amongst these groups.

rovide land and resource managers with decision support tools to help them better understand how fisher o projected landscape changes. The "Fisher Landscape Explorer" (aka FLEX) tool combined an Individual-Based the actions of individual fishers in response to their environment) with a dynamic landscape (i.e., changing fisher he "spatially-explicit discrete event simulation" (SpaDES) framework. FLEX identifies priority areas for fisher During the past year, the model was improved using field data (both from camera traps and GPS collars) to oppulation dynamics. There was a soft launch of the tool with two Forest Landscape Plan pilot projects and project teams. The plan for this year is to work closely with these pilot projects and collaboratively run forest rough the tool, to help predict where and how many fisher territories are likely to occur over the next few erent scenarios. Over the coming years, the intention is to integrate the Fisher Landscape Explorer tool with e Plan projects and work with regional staff to provide decision support for on-the-ground, landscape-scale

tee of the Skeena Sustainability Assessment Forum (SSAF) worked on a pilot project to build community-based ship objectives related to bears. This included community outreach through social media and engaging with yould become points of contact on bear issues in the community and surrounding areas. This work also to the B.C. government's Conservation Officer Service (COS) so it would become the point of contact for their ng bear sightings and bear-human conflict issues using a consistent method, as well as mapping bear attractants munities. Efforts were also made to address bear attractants such as fruit by organizing apple and berry picking culminated in a successful two-day workshop bringing together participating SSAF Nations, the Kitasoo Xai'xais Lights Wildlife Shelter, Making Agriculture Sustainable in the Hazeltons, and Nature Serve to form a working elated problems in communities. The group started developing high-level Best Management Practices for t address topics such as composting and community engagement.

eeks to mitigate Mycoplasma ovipneumoniae (M.ovi) infections in Fraser River bighorn sheep to improve lamb ncrease the bighorn sheep population. Approximately 80 bighorn sheep were captured and tested for M.ovi infection ds of sheep. Treatments were implemented that consisted of euthanizing infected sheep so that they were not able particularly to lambs which are more sensitive. Data from this project indicate average improvements in lamb mer to be 260% in treated areas relative to untreated areas . The estimated population rate of change in treated e (indicating a population increase), and less than one (indicating a population decrease) in untreated areas.

itigation program along the Fraser River has been helping to protect bighorn sheep from Mycoplasma , a deadly respiratory disease . Through a "test and remove" approach, infected sheep are removed from a tion recover. To help gather feedback on the program, an expert consultant coordinated and facilitated five s with First Nations. The feedback and information gathered from the workshops were incorporated into a ser River Bighorn Sheep Disease Assessment and Recovery: Post Test-and-Remove Treatment Management nt will serve to guide recovery actions in the future, following treatment of the Fraser River bighorn sheep

ship between the B.C. government, Tŝilhqot'in First Nation and the University of Alberta. It uses analyses of in sheep to provide a snapshot of individual genetic diversity and herd assignments. The goal is to provide a in sheep herds are related to each other within the sub-populations that extend east from the smiah mountain ranges, along the Fraser and Thompson Rivers, to the east of Kamloops. The purpose is to is are connected and where herds are very separate, in order to inform translocation projects to augment herd ct is a key step in developing a better understanding of herd genetic profiles, to be used in creating an action er River metapopulation and the Tŝilhqot'in herds of bighorn sheep. These herds are imperiled as a result of mestic sheep respiratory illness, which has led to catastrophic all-age die-offs and, in some cases, extirpations fome herds have been reduced to just several individuals and correspondingly, there has been a loss of cultural opportunity for many First Nation communities along the Fraser River.

oposal were developed that compiled existing information on the population genetics of great blue herons in eloped a study design on heron genomics that will be completed over the next four years. The study design d locations of samples that need to be collected, as well as the methodology and expected budget needed to mics assessment of great blue herons in B.C. This work will support informed conservation decisions, including C. government to develop its own management units for this species.

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2324-T4W-046	Grizzly bear conflict reduction	Kootenay Boundary	9. On-the-ground Action	\$ 35,735.36	Funds were used to build an electric fend for years
2324-T4W-038	Grizzly bears: provincial recovery of threatened populations - Southwest	Ministry of Water, Land and Resource Stewardship - Wildlife Branch	8. Objective-setting	\$ 86,592.00	Public and First Nations input on the pro- shared with B.C. government executives. form, and the development of both plan province about how to implement stewa
2324-T4W-047	Highway 3 vehicle-wildlife collision mitigation – "Reconnecting the Rockies"	Kootenay Boundary	9. On-the-ground Action	\$ 30,572.50	This project helped further mitigate wild roads off the highway, which is a critical effectiveness monitoring portion of the p such as moose, deer, bison, and caribou.
2324-T4W-076	Historic ungulate habitat data capture	West Coast	7. Data Accessibility	\$ 21,079.00	Existing hard copy reports and maps rela effectiveness monitoring and the ongoin also helped ministry staff respond to Firs
2324-T4W-035	Hunter survey revitalization project	Ministry of Water, Land and Resource Stewardship - Wildlife Branch	7. Data Accessibility	\$ 100,000.00	This project initiated a change to the Hur to report on their hunting activities for m sent to licensed hunters. Making the sub managers to estimate hunter activities ar ability to track wildlife populations over t process of transitioning the current volue information collected from hunters. It wi moose and caribou hunters into the surv requirements to additional species if suc
2324-T4W-079	Implementing bear den management in the West Coast Region	West Coast	4. Data and Information	\$ 53,500.00	In 2023-24, this project completed the for over 125 bear dens to collect data on den were also collected for genetic analysis, a Collaboration with the Council of the Hai CHN members. New methods were tester installing non-invasive hair snags to proce sessions were run by B.C. government st they can be better managed and protect Island version was drafted and provided
2324-T4W-080	Important bird nest monitoring on Vancouver Island	West Coast	9. On-the-ground Action	\$ 35,000.00	The ministry's West Coast Region Ecosys between Campbell River and Victoria on the breeding season, the stewards visited entry application. Provincial ecosystems improved data collection methods and u municipal planners and developers to av team also planned and hosted a training Beacon Hill Park, Victoria. It was attended stewardship projects all contribute to im
2324-T4W-017	Improving accuracy of Roosevelt elk inventory via modeling of sightability	South Coast	6. Citizen Science	\$ 41,147.18	In the third year of this project, the mode 2023 to produce accurate estimates of Re subjective estimation and helps standard the modelling process for provincial biolo decision-makers, senior biologists, and T Stewardship Baseline Objectives Tool (SE was concluded: the deployed cameras w findings from both the aerial and camera biologists' understanding of Roosevelt el population estimates are crucial to assess based estimates with First Nations knowl methods, such as camera trap distance so locations. The findings of this project hav Province's ability to support thriving, resi
2324-T4W-077	Improving management of Conservation Lands in the West Coast Region	West Coast	11. Conservation Lands	\$ 35,000.00	As part of an overall commitment to adm partner agencies, namely the Nature Tru Areas (WMAs) and create new conservat Over the past year, the focus was on fina guide future management activities on th coast of Vancouver Island to explore the salmon populations and protect old grow protecting and enhancing culturally sens resulted in the installation of fencing, sig local school groups.
2324-T4W-012	Improving mule deer habitat stewardship in southern B.C.	Thompson Okanagan	4. Data and Information	\$ 93,000.00	From 2018 to 2022, global positioning sys (newborn deer) in the Thompson Okanag not time their movements to match the p deer to track. Potentially, timber harvesti green-up. Additionally, mortality risk was snow. Deer that used recently burned are these areas less often. Additional finding (https://open.library.ubc.ca/soa/cIRcle/o enhancement and risk mitigation measur
2324-T4W-043	Increasing data accessibility related to mountain goats and their habitat in the Cariboo Region	Cariboo	7. Data Accessibility	\$ 40,474.00	The Cariboo Region Mountain Goat Stew habitat, legal designations, and other goa allows staff to access all relevant mounta authorizations in mountain goat habitat.

Id an electric fence around a dairy farm in Creston that had been experiencing high rates of grizzly bear conflict input on the provincial Grizzly Bear Stewardship Framework was incorporated into a final draft which was ment executives. Recovery plans for both the Stein and North Cascades grizzly population units are in draft ent of both plans was led by First Nations partners. Discussions are continuing with many First Nations in the nplement stewardship options for grizzly bear populations. her mitigate wildlife-vehicle collisions on Highway 3 with the installation of two ungulate guards at important which is a critical step to allow fencing and underpass work to continue. Funding was also used for the g portion of the project, which included data classification and summarization. (Ungulates are hoofed animals ison, and caribou.) rts and maps related to ungulate habitat were scanned and digitized to inform Ungulate Winter Range (UWR) and the ongoing management of UWRs with respect to amendments and exemptions. The digitized resources respond to First Nations and stakeholder inquiries and *Land Act* tenure referrals (e.g., adventure tourism). hange to the Hunting Regulation that would introduce mandatory requirements for licensed resident hunters ng activities for moose and caribou. Historically, this information has been collected through voluntary surveys 5. Making the submission of this information mandatory will increase the amount of data available for wildlife unter activities and thereby improve the precision of these estimates. These changes will improve the ministry's opulations over time and increase certainty related to important data sources. This project also began the the current volunteer hunter survey into the online licensing system, which will improve the quality of om hunters. It will also provide opportunities to integrate the proposed mandatory reporting requirements for nters into the survey system. This change will allow the ministry to expand mandatory hunter reporting nal species if such a change is desired in the future. completed the fourth year of data collection work. Field crews on Vancouver Island and Haida Gwaii visited ollect data on den use, and on forest harvesting and road construction activity near bear dens. Hair samples genetic analysis, and over 40 remote wildlife cameras were set up around some of these bear dens. Council of the Haida Nation (CHN) continued on Haida Gwaii, with many of the den visits there completed by thods were tested in the field, including ways to assess bear dens with arboreal (above ground) entrances and air snags to procure better genetic samples. Five bear den identification workshops or information sharing c. government staff or a consultant, with the intent of increasing fieldwork expertise to identify more dens so aged and protected. A winter den check protocol was finalized in collaboration with CHN, and a Vancouver ed and provided to some forest licensees for their review. ast Region Ecosystems team worked with the Community Mapping Network and volunteer bird nest stewards r and Victoria on Vancouver Island to survey and monitor bald eagle and great blue heron nests. Throughout e stewards visited nests to assess their status and activity levels and collected data using a new mobile data ncial ecosystems biologists were involved in outreach, training, and education on the use of the app to facilitate n methods and updated datasets on nest locations and activity. These nest data are available to be used by developers to avoid disturbing nests and support conservation planning. The West Coast Region Ecosystems hosted a training and information sharing session about great blue heron colony monitoring in March 2024 in a. It was attended by City of Victoria Parks Operations staff and local heron nest stewards. These on-the-ground contribute to improved management and protection of important bird nests on Vancouver Island. project, the modelling technique tested in previous years was successfully applied to elk aerial survey data from te estimates of Roosevelt elk population sizes throughout the South Coast region. This model replaces a d helps standardize the population estimation process. A user-friendly Shiny app was developed to streamline or provincial biologists. The app was showcased to various potential user groups, including harvest allocation biologists, and Together for Wildlife staff. Efforts to incorporate the model estimates into the Roosevelt elk bjectives Tool (SBOT) were initiated. Simultaneously, a two-year wildlife camera survey on the Sechelt Peninsula ployed cameras were collected, images were processed, and data analyses were carried out successfully. The aerial and camera surveys were compiled into two reports to be made publicly available. This project improved g of Roosevelt elk populations in the South Coast region and will inform responsible decision-making. Robust ecrucial to assessing population status and trends, setting hunting harvest allocations, and integrating sciencest Nations knowledge to support shared decision-making. The exploration of innovative wildlife monitoring ra trap distance sampling, revealed opportunities for expanding these techniques to other species and f this project have the potential to advance wildlife knowledge throughout B.C., as well as enhance the port thriving, resilient wildlife populations for years to come. nmitment to administer the Conservation Lands program, B.C. government biologists continue to work with ly the Nature Trust of B.C. and Ducks Unlimited, to update management plans for existing Wildlife Management te new conservation lands that will contribute to the provincial goal of protecting 30% of the land base by 2030. focus was on finalizing an updated Management Direction Statement for Lazo Marsh near Comox that will help ent activities on the site. As well, work was carried out with the Mowachaht/Muchalaht First Nation on the west nd to explore the creation of a new WMA in the territory. The goals of the designation would be to recover I protect old growth forest. A relationship was established with Cowichan Tribes to advance their vision for ng culturally sensitive features in the S'amunu WMA (Ye'Yumnuts Project). This on-the-ground stewardship on of fencing, signage, and educational infrastructure in the form of an outdoor classroom pavilion for use by pal positioning system (GPS) collars were placed on 201 adult female mule deer, 270 fawns, and 134 neonates hompson Okanagan region . Tracking the deer using their collars showed that during spring migration, deer did Its to match the pace of forage green-up, likely because green-up did not occur in a way that was conducive for timber harvesting has created a mosaic of early and late green-up patches, affecting the order and timing of mortality risk was found to increase in the winter when deer used areas with higher road densities and deeper cently burned areas and cutblocks had a reduced mortality risk in the summer compared to those that used Additional findings are discussed at length in Dr. Chloe Wright's PhD dissertation c.ca/soa/cIRcle/collections/ubctheses/24/items/1.0441418) and will be used to help guide future habitat nitigation measures. untain Goat Stewardship Baseline Objective Tool was created to bring together mountain goat data (population, ns, and other goat-related information) from several sources into a single map-based application. This tool relevant mountain goat data in one place, ensuring that they can make informed decisions about land-based

2324-T4W-094	Kootenay Bighorn Sheep health monitoring	Kootenay Boundary	9. On-the-ground Action	\$ 32,908.87	From February 2021 to Ja from the Radium-Stodda the Lizard Creek herd. En contaminant analysis. A r age was approximated us body condition were also
2324-T4W-064	Kootenay Region ecosystem restoration strategic planning	Kootenay Boundary	8. Objective-setting	\$ 49,500.00	This project supported th values. The plan identifie function and ungulate (e ecosystem restoration w
2324-T4W-093	Lake Babine Nation moose collaboration capacity	Skeena	18. FN Co-management	\$ 50,000.00	This project involved con collaboration with the La understanding of the cur stewardship and manage the moose study, identify monitoring that are requ
2324-T4W-062	McTaggart-Cowan/nsək'łniw't Wildlife Management Area post-wildfire assessment and restoration	Thompson Okanagan	11. Conservation Lands	\$ 65,000.00	This project supported th Management Area in the four-seasons assessment PIB Natural Resources ov Resources and the Minis
2324-T4W-054	Mesocarnivore monitoring program	Ministry of Water, Land and Resource Stewardship - Biodiversity and Ecosystems Branch	21. FN Guardian Programs	\$ 35,425.00	This project supported of detection data, along wit Examples include marter Indigenous participation Indigenous Peoples, and relationships with four Fi supported 12 Guardians survey terrestrial wildlife and retrieving equipmen acoustic recordings and of informational poster on the produce updated province project aims to collaboration our shared understandin
2324-T4W-095	Minister's Wildlife Advisory Council	Ministry of Water, Land and Resource Stewardship - Strategic Initiatives and Partnerships	1. Minister's Advisory Council	\$ 95,519.00	The Minister's Wildlife Ad funding priorities, Chron Health Framework. The C groups, focusing on the c government on a wide ra
2324-T4W-053	Mitigating human-bear conflicts in the Omineca Region	Omineca	9. On-the-ground Action	\$ 12,829.70	Project funding supporte Association, publishing a also provided informatio these events resulted in Prince George, and one r
2324-T4W-039	Mitigating human-bear conflicts in the West Coast Region	West Coast	9. On-the-ground Action	\$ 16,489.14	This multi-year project ai of human-bear conflicts orphaned cubs were rele understand survival rates conducted. Captive reari from existing rearing pro work also provides inform orphaned cubs.
2324-T4W-104	Monitoring of mule deer response to habitat damaged by a 2021 wildfire within Skeetchestn territory	Thompson Okanagan	9. On-the-ground Action	\$ 35,897.40	This project supported co recovery of mule-deer w
2324-T4W-114	Moose survey	Northeast	4. Data and Information	\$ 48,900.00	An aerial stratified rando of the Northeast region i information collected fro Information gathered du Integrated Data and Anal Definition: Stratified bloc on the landscape are typ
2324-T4W-007	Mount Edziza sheep and goat survey: 6-21A	Skeena	4. Data and Information	\$ 22,500.00	An inventory survey of m Entry Hunting (LEH) Zone like (includes Class I rams Demographic ratios were species within the LEH Zo
2324-T4W-086	New Conservation Lands model - scoping study	Kootenay Boundary	11. Conservation Lands	\$ 17,167.50	This project supported th could be implemented to increase the potential for

January 2024, 32 complete or partial bighorn sheep carcasses were necropsied. Twenty-two of the sheep were art herd, eight were from the Elk Valley East herd, one was from the Elk Valley West herd, and one was from intire kidneys (23), and portions of liver (29 samples) and skeletal muscle (20 samples) were collected for range of other tissues were archived, either frozen or fixed in buffered 10% formalin, a preservative. Sheep using horn growth patterns. Cause and date of death, carcass location and condition, pregnancy status, and so recorded. A summary report of the work was produced.

the development of an Ecosystem Restoration Plan in a multi-use priority area that supports natural resource ied priority values such as species at risk, along with objectives for these values in the context of ecosystem (elk, mule deer, and white-tailed deer) habitat health. The plan provides clear objectives that will allow work to advance in the region at a meaningful scale in the coming years.

Intinued the development and implementation of a multi-year moose monitoring and research study in ake Babine Nation (LBN). Information was shared between LBN and the Province to support a shared arrent state of moose and their habitat in LBN territory. This work provides the foundation for future shared gement actions. Shared decisions were also made as part of this project, including further refining the scope of fying steps for knowledge gathering and community engagement, and identifying on-the-ground actions and uired.

the completion of a Traditional Ecological Knowledge assessment of the McTaggart-Cowan/nsək'łniw't Wildlife ne spring of 2023 . Using the results of that assessment, a contractor (PIB Natural Resources) compiled a final nt report that also incorporated seasonal assessments from previous years. Additional work was completed with over the winter of 2023-24 that focused on developing a draft collaborative agreement between PIB Natural istry of Water, Land and Resource Stewardship's Biodiversity and Ecosystems Branch.

collaboration with Indigenous partners, academics, and the public to collect and collate mesocarnivore ith other wildlife and habitat data. A mesocarnivore is an animal with a diet comprised of 30–70% meat. ons, fishers, coyotes, foxes, minks, raccoons and otters. The primary aims of the project were to increase in in landscape-level resource stewardship, support implementation of the UN Declaration on the Rights of d increase employment opportunities for First Nations community members. The project team started building First Nations partners and began to collaboratively monitor biodiversity within their territories. Funding partially is and local technicians throughout the 2023-24 fiscal year. The Guardians and technicians were trained to be by conducting remote camera and Autonomous Recording Unit (ARU) surveys, including deploying, checking int and data. The Guardians and technicians also received training in data management and analysis (e.g., bat camera imagery). They attended The Wildlife Society (BC Chapter) conference, including co-presenting an the project. The project also collated mesocarnivore occurrence data from academics and trappers and will ncial distribution and range maps for mesocarnivore species where there is sufficient data to do so. The atively produce information and data-sharing agreements with First Nation governments, in order to increase ng of wildlife (e.g., at-risk species and food security species) to support co-management initiatives.

Advisory Council provided strategic advice to the B.C. government on a number of topics in 2023/24, including nic Wasting Disease, the ongoing Wildlife Act Review, and development of the Biodiversity and Ecosystem Council also held another successful round of wildlife-related dialogues with First Nations and stakeholder ongoing Wildlife Act review. The council continues to provide well-considered recommendations to the B.C. range of issues that impact wildlife and the integrity of wildlife habitat.

ted the work of two contractors and included giving a presentation to the Nechako Valley Regional Cattlemen's an article in Country Life in BC, and completing outreach work at local farmer's markets. All these components on to farmers, ranchers, and rural landowners about mitigating human-bear conflicts. Interest generated from a three landowners participating in the provincial government's electric fence cost-sharing program (two near near McBride).

aims to improve the black bear orphan cub rearing process to maximize their survival and minimize the chance s after the cubs are released from a rearing facility. To support the annual objectives, six GPS-collared eleased back into the wild on Vancouver Island after captive rearing. The active collars were monitored to ses and habitat use by the reared bears. The GPS collars were retrieved and mortality investigations were ring of orphaned bear cubs is a high priority for the public, many stakeholders, and some First Nations. Learning rocesses to improve success rates helps validate captive rearing as an option for orphaned black bear cubs. This prmation to support this option when managing human-bear conflicts involving family groups of bears or already

collaborative work with the Skeetchestn Indian Band that focused on addressing a knowledge gap around the winter range post-wildfire in Skeetchestn territory.

lom block survey (see definition below) was conducted for moose in Wildlife Management Units 7-19 and 7-32 in in January 2024. Two First Nations Land Guardians participated in the survey as observers. The data and rom the survey will provide updated population estimates, as well as bull-to-cow ratios and cow-to-calf ratios. Iuring the survey will also form the basis of a technical report to be submitted to and made available via the alysis Services Branch.

ocks are survey units designed to sample areas (strata) with different densities of the species of interest. Blocks pically selected randomly prior to being surveyed.

mountain goats and thinhorn sheep in Mount Edziza Provincial Park was completed. The area is part of Limited ne A of 6. The observed goats were classified by age (adult, kid). The sheep were classified by age: lamb, ewens), ram. Sheep were also classified by sex: ewe-like (includes Class I rams), Class II, Class III and Class IV rams). The calculated for both species. The number of animals observed was used to estimate the population of each cone. These estimates will inform regulatory and allocation processes associated with harvest management.

the development of a scoping study to understand whether a more effective management and delivery model to manage Conservation Lands in the East Kootenay. The study identified alternative models that would for effective and collaborative management of the Conservation Lands program in the East Kootenay.

2324-T4W-024	Northern Goshawk inventory and nest monitoring in the Cariboo Region	Cariboo	4. Data and Information	\$ 16,078.93	The northern goshawk is consistent monitoring in Cariboo region. The goal status and habitat requir responses from adult gos Cariboo to detect the pre thereby ensuring efficient intelligence to recognize sites were identified and they represent the comp
2324-T4W-028	Nutria ( <i>Myocastor coypus</i> ) surveys in the Lower Mainland and South Coast	Ministry of Water, Land and Resource Stewardship - Biodiversity and Ecosystems Branch	4. Data and Information	\$ 26,943.34	Nutria (Myocastor coypu in the late 1800s. While t here. However, recently Nooksack River in the Lo into B.C. As part of this p stations. These surveys t British Columbia from es to quantify habitat poter watercourse connectivity were also identified for f nutria presence, it is imp surveys are recommende abundant food availabilit
2324-T4W-020	Occupancy and effectiveness monitoring of Mountain goat Ungulate Winter Range (UWR)	West Coast	4. Data and Information	\$ 39,699.89	As part of this project, bi surveys in priority units. and refining the mounta Nations, and many First I were not completed, a d Together for Wildlife (T4
2324-T4W-082	Optimizing landscapes for ungulates through forestry activities	West Coast	8. Objective-setting	\$ 25,360.45	Project funds were used helicopter surveys of mc
2324-T4W-109	Outreach about grasslands in the Cariboo Region, through the use of infographics	Cariboo	3. Public Engagement	\$ 7,020.00	An infographic about the and for educational purp grasslands, and outlines several visual aids were p Deer Winter Ranges in th
2324-T4W-098	Performance measure framework	Ministry of Water, Land and Resource Stewardship - Strategic Initiatives and Partnerships	14. Performance Management	\$ 32,874.82	Action 14 of the Togethe monitor the strategy's pi the 2022-23 fiscal year so framework was presente B.C. Wildlife and Habitat performance measures. feasibility of the draft me this work is continuing th integrated into the annu
2324-T4W-037	Provincial Chronic Wasting Disease (CWD) surveillance and management	Ministry of Water, Land and Resource Stewardship - Wildlife Branch	9. On-the-ground Action	\$ 164,710.00	Chronic Wasting Disease B.C. CWD Program is guid planning and outreach ad (monitoring) is key to de targets in high-risk areas CWD Response Plan, in p taken to expand surveilla research goals to suppor
2324-T4W-112	Provincial Development – Regional Wildlife Advisory Committees (RWACs)	Ministry of Water, Land and Resource Stewardship - Strategic Initiatives and Partnerships	2. Regional Advisory	\$ 22,509.16	B.C. government staff he and opportunities for the document (procedures p
2324-T4W-060	Provincial wildlife data compilation, loading and access	Ministry of Water, Land and Resource Stewardship - Natural Resource Information and Digital Services (NRIDS)	7. Data Accessibility	\$ 14,685.08	In 2023-24, this project e requirements for 2022-2 Data and Analysis Service are made broadly access standardization. Wildlife spatial files, models and Wildlife Species Inventor Data and Analysis Service (SEDIS) Policy. In 2023-24 using a system to apply s with First Nation partner
2324-T4W-091	Public engagement on elk and grizzly bear stewardship frameworks	Ministry of Water, Land and Resource Stewardship - Strategic Initiatives and Partnerships	8. Objective-setting	\$ 20,000.00	This project supported o Bear Viewing Strategy, w responses were received Bear Viewing Strategy. T which improved these do Stewardship Framework
2324-T4W-115	Purchase of elk GPS collars	South Coast	4. Data and Information	\$ 26,450.80	This project supported the collars will be active for a individuals, as well as hall objectives.

is sensitive to forest harvesting due to its association with mature forests for breeding purposes. A lack of in the past has posed a barrier to conservation planning and improved habitat protections for goshawks in the all of this project was to develop and implement a long-term monitoring program to evaluate the population irements of goshawks. In 2023-2024, prerecorded goshawk calls were played in selected areas to illicit pshawks. Nineteen autonomous recording units were deployed at 17 potential nesting sites throughout the resence of goshawks in those areas. Survey protocols were successfully developed, field-tested, and refined, ent surveys in the future. The recordings were processed using BirdNET software, which uses artificial e bird species from vocalization patterns. From the frequency and duration of goshawk vocalizations, nesting d breeding outcomes inferred. These results were used to validate and refine habitat suitability mapping, and pletion of the pilot work necessary to design and implement long-term monitoring for goshawk in the Cariboo.

bus) are semi-aquatic mammals from South America that were introduced to North America during the fur trade e there are historical occurrences of nutria in B.C., past surveys did not find any evidence of the large rodents y there have been several unverified public reports of these animals in the province. The recent flooding of the ower Mainland may have facilitated increased movement of nutria from a location near Lynden, Washington, project, contractors carried out targeted surveys for nutria in the Fraser Valley using wildlife cameras and bait took place in locations associated with historical and recent sighting reports and potential migration routes into established nutria populations in Washington. A habitat suitability ranking system was applied to each survey site ential for nutria. Factors such as the availability of the animals' preferred food, predator presence, proximity and ity to Washington, and the abundance of suitable habitat features were rated. Several new sites for surveillance future study using the habitat suitability ranking. No nutria were detected in this study. Despite the lack of uportant to note that this does not indicate that the species is completely absent from the province. Continued ded, especially in water bodies spanning the border that are surrounded by agricultural land, which could offer

Diologists assessed the practicality of Goat Management Units in the region and completed four days of aerial . Observations of mountain goats during these surveys assisted in further validating the winter habitat model ain goat Stewardship Baseline Objectives Tool. Information was also shared with the majority of affected First Nations are now prepared to participate in formal consultations with the Province . Since these consultations decision on the proposed amendments was not reached this fiscal year. This work supports Action 4 of the 4W) strategy through the collection and submission of mountain goat location and habitat data.

d to purchase remote cameras and accessories to monitor ungulate habitat use and distribution. Additionally, ountain goats were completed to support Ungulate Winter Range (UWR) amendments.

e importance of grasslands in the Cariboo Region was developed by a contractor to serve as outreach material poses. The infographic shows the difference between upper grasslands, middle grasslands, and lower show they are being impacted by development, recreation, over-grazing, and fire exclusion. Additionally, produced to illustrate concepts relating to mule deer winter ecology and the importance of designated Mule the Cariboo. These were used during training sessions hosted by regional biologists.

her for Wildlife strategy commits the B.C. government to developing a new performance measure framework to progress. Mitacs is a national organization focusing on research and innovation, and funding from this year and supported a Mitacs research fellow to draft that new framework. To seek guidance and feedback, the draft ted to Together for Wildlife advisory bodies like the Minister's Wildlife Advisory Council and the First Nationsat Conservation Forum. Extensive research was conducted on best practices, methodologies and potential and the research fellow completed internal engagements with government staff to determine the neasures. Unfortunately, the Mitacs fellowship concluded before the draft framework was finalized. However, through the efforts of internal ministry staff, and Together for Wildlife performance measures are now being ual reporting process under the Tripartite Framework Agreement on Nature Conservation.

e (CWD) is a deadly disease affecting cervids (members of the deer family) such as deer, moose, and elk. The ided by a collaborative team that provides input and support for CWD prevention, surveillance, response activities throughout B.C., with a particular focus on areas that are at high risk for the disease. CWD surveillance etecting this disease early. A monitoring program was delivered effectively in 2023, achieving its sampling s. The first cases of CWD in B.C. were detected in January 2024, which triggered the implementation of B.C.'s partnership with First Nations, stakeholders, agency partners and academic advisors. Immediate action was lance in the affected area, apply preventative measures to mitigate the risk of disease spread, and identify ort informed decision-making and next steps.

eld an internal workshop on the topic of regional wildlife advisory committees to identify current challenges ne implementation of these committees. The workshop discussion helped with the creation of a guidance paper) to support implementation of Action 2 of Together for Wildlife.

enabled the Integrated Data and Analysis Services Branch to coordinate data management and data access 23 data-generating projects. Of the 2022-23 projects that were identified as data generating, the Integrated ces Branch worked with project leads to standardize and move datasets into provincial systems where datasets sible. This included training projects leads on provincial-scale data management processes, systems and e datasets were loaded to the provincial databases that enable data (as well as other deliverables including reports), to be accessible via various web-based tools (e.g., the Species Inventory Web Explorer) and via ory (WSI), B.C. Geographic Warehouse layers and spatial tools (Habitat Wizard, BC CDC iMap). The Integrated ces Branch also reviewed datasets to implement the Species and Ecosystems Data and Information Security 24, the Integrated Data and Analysis Services Branch also leveraged a proportion of project funding to explore specifications within data management and sharing agreements to support collaborative data management are at the project scale.

online public engagement related to the draft Grizzly Bear Stewardship Framework and the draft Commercial which occurred from July 12 to Oct. 31, 2023 through the govTogetherBC website. Approximately 5,000 survey of for the draft Grizzly Bear Stewardship Framework, and about 300 were received for the draft Commercial The public feedback resulted in numerous revisions to the draft frameworks, mostly minor but some significant, documents. No funds were required this year for public engagement on the draft Rocky Mountain Elk

the purchase of GPS collars for deployment on Roosevelt elk in multiple areas of the South Coast region. The approximately five years. Data from these collars will be used to inform elk inventory and sightability of marked abitat use, distribution, survival, mortality, population estimates, and decisions regarding elk management

2324-T4W-032	Railway and wildlife collision assessment and strategy development	Ministry of Water, Land and Resource Stewardship - Wildlife Branch	4. Data and Information	\$ 4,950.00	This project surveyed pro determined through prio caribou) were recorded a areas was produced and collisions in B.C.
2324-T4W-003	Ranavirus surveillance in the Northeast	Northeast	4. Data and Information	\$ 5,736.04	This project enhanced th northern B.C. Ranavirus I one waterbodies were sa waterbody and sent to a had a positive result, whi transmission of the virus
2324-T4W-070	Regional Wildlife Advisory Committees: Skeena northern and southern wildlife stewardship tables	Skeena	2. Regional Advisory	\$ 30,509.68	Together for Wildlife fun the Northern Wildlife Ro partners, and provides a stewardship work under
2324-T4W-040	Resourcing 2023/24 Together For Wildlife delivery in the Cariboo Region	Cariboo	22. FN Data Sharing	\$ 50,000.00	Together For Wildlife (T4 included the Tsilhqot'in I Group, and the Northerr resourcing also supporte Management Unit , the sheep survey.
2324-T4W-045	Resourcing landscape resiliency assessment and old forest activities in the Cariboo	Cariboo	9. On-the-ground Action	\$ 28,194.16	This project supported to to support the regional la production in Douglas fir plots to monitor tree mo resource management disturbances exist, which
2324-T4W-044	Road data cleanup for access management planning in ungulate habitat in the Cariboo Region	Cariboo	9. On-the-ground Action	\$ 70,000.00	Fiscal year 2023-24 was to verified. This consisted of and to flag if further "grow kilometres of roads were the data; approximately of roads that have been hoofed animals such as r assessments and forest b
2324-T4W-019	Roosevelt elk habitat selection	West Coast	4. Data and Information	\$ 90,000.00	In 2023-24, six GPS collar animals this past year. Th camera stations and "sno collaboration with resear years, seasons and varyir and severe winter perioc population demographic were also conducted to k 11 Elk Population Units w assess habitat and popul
2324-T4W-069	Skeena Conservation Lands (CLP) program assessment and management decision support tool - Phase 2	Skeena	11. Conservation Lands	\$ 58,333.33	This project supported the contribute to areas of hig and described, and an ar support ecological rarity below) in the face of clin areas not fragmented by term. This information gates designation in the Skeen candidates for Wildlife M Definition: Climate change
2324-T4W-023	Skeena interior northern goshawk surveys	Skeena	4. Data and Information	\$ 29,099.14	This project collected bre region. This field data su better understand gosha goshawk.
2324-T4W-022	South Skeena moose and grizzly bears: Government Action Regulation (GAR), Ungulate Winter Range (UWR), and development of Wildlife Habitat Areas (WHAs)	Skeena	10. Land Designations	\$ 261,247.76	This project supported the bears in the Lakes, Bulkle review and refinement. I areas) in 2024. Project fan important base habita model was developed an focal species, the model
2324-T4W-058	Species Information Management System (SIMS)	Ministry of Water, Land and Resource Stewardship - Natural Resource Information and Digital Services (NRIDS)	7. Data Accessibility	\$ 109,960.00	The Integrated Data and provincial wildlife databa and are reliable, and that were streamlined to facil survey metadata. The ab data (like temperature ar warehouse. The BC Teler data to be automatically Branch also initiated the data to wildlife health bio BiodiversityHub BC, allow efficiently implement the management tools and s System to incorporate fis

reviously selected stretches of railways with a high likelihood of collisions involving trains and wildlife, as for aerial surveys. All detected mortalities of ungulates (i.e., hoofed animals such as moose, deer, bison, and and the elapsed times since the collisions with trains was estimated. A report on collisions in these high-risk d will be the foundation of more extensive work in future to survey and eventually mitigate wildlife-train

the Province's biological data by providing information on the presence of an amphibious virus (Ranavirus) in the has the potential to cause mass die-offs of reptile, amphibian, and fish species that become infected. Twentysampled in northeastern B.C. to test for the presence of Ranavirus. Water samples were collected from each a lab for analysis, at which time the lab tested the samples for the presence of Ranavirus DNA. Two waterbodies nich indicated that Ranavirus was present and amphibian populations in those waterbodies are susceptible to s and may be susceptible to mass population die-offs.

nding supported the re-establishment of a wildlife stewardship advisory body in the northern Skeena Region: oundtable. This table includes representatives from First Nations, the B.C. government and stakeholder a space for ongoing dialogue to identify common stewardship interests and share information about wildlife rway.

4W) funding supported priority engagement and collaborative planning forums in the Cariboo Region. These National Government-B.C. Fish and Wildlife Panel, the Southern Dakelh Nation Alliance-BC Ungulate Working In Secwépemc te Qelmúcw-Esk'etemc-B.C. Fish and Wildlife Communications Protocol Committee. Staff red the delivery of wildlife inventory and monitoring projects, including a moose survey in the 5-02C e Big Creek moose recruitment survey, a summer mountain goat inventory, and a winter Taseko-Dash bighorn

tree and stand-level management for resiliency in the Williams Lake area. An auxiliary field technician was hired landscape ecologist with collecting field data, including plant traits such as bark thickness and resin duct ir and lodgepole pine trees under different environmental conditions. The field technician also helped establish ortality at treatment areas near Williams Lake and collect old forest data to support the development of objectives. The data gathered will be used to develop a spatial model to predict where areas vulnerable to th will contribute to ongoing landscape resiliency work.

the third year of funding for this project. Road data that covered approximately 14% of the Cariboo Region was of comparing existing road data to recent high-resolution satellite imagery to determine if a road existed or not, round truthing" (verification at ground level) was required to determine its status. This year, more than 30,000 re assessed, which included: an addition of more than 13,000 kilometres of roads that did not previously exist in 7,500 kilometres of road linework identified as not existing on the ground; and an additional 4,000 kilometres of flagged for ground truthing. This updated road data will support access management planning in ungulate (i.e. moose, deer, bison or caribou) habitat, and will also feed into other key initiatives such as cumulative effects landscape planning.

ars were deployed on adult female Roosevelt elk to maintain a minimum sample population of over 30 collared "hese collars collect long-term data on elk habitat use over time at multiple spatial scales. Twenty remote now stakes" were used to collect a daily record of snow depth and winter severity at the monitored sites. In arch partners at the University of British Columbia, GPS collar data and camera data (collected over multiple ing winter conditions) were used to estimate seasonal models of habitat selection in summer, normal winter, ods. Collared elk groups were monitored, counted, and classified in summer and winter to better understand cs associated with these seasonal habitats. As part of this monitoring, mortality investigations of collared elk better understand causes and rates of mortality. Elk population inventory data and habitat selection models in were used to calculate preliminary habitat-based density estimates of elk in these benchmark units to help ulation objectives in other population units.

the hiring of a contractor to use mapping and remote sensing information to identify key factors known to igh ecological importance. Enduring geographic features for terrestrial and aquatic ecosystems were identified inalysis was undertaken to identify areas of high geophysical diversity and uniqueness. These areas tend to y and diversity. Areas of high primary productivity (plant growth) and areas that may be refugia (see definition limate change were identified. Also mapped were areas that are important for landscape connectivity and intact y roads or other human development, since they are key contributors to maintaining biodiversity over the long gathering and analysis will help conservation staff identify areas of interest for conservation management and na Region. For the Skeena Conservation Lands program, it is already being used to identify areas as potential Management Area designations.

ge refugia are areas that are somewhat buffered from climate change compared to their surroundings.

reeding or occupancy and habitat data for about 20 predicted or known goshawk nest sites in the Skeena upports continued development of long-term inventory and monitoring protocols and will allow biologists to awk nesting habits in the region and support both voluntary and legal management methods for the northern

the development of draft linework (area boundaries) and general wildlife measures for moose and grizzly ley, and Morice Timber Supply Areas (TSAs). The work was discussed with First Nations and licensees for their Detailed processes and rationale were recorded and built upon, with field verification of the polygons (mapped funds also supported continued development of the Skeena wildlife ecological resource model, which provides tat model for the development of moose and grizzly bear land designations and effectiveness monitoring. The nd supported by partner First Nations and continues to develop in partnership. By highlighting key habitats for I ensures that land designations effectively target the intended habitats, now and in the future.

d Analysis Services Branch is continuing multi-year systems development work to modernize and replace legacy bases and access systems. This work will help ensure that wildlife and habitat data are accessible to everyone at datasets are consolidated on a provincial scale. In 2023-24, multiple fish and wildlife data management tools cilitate the submission of wildlife data, including species observations, telemetry, captures, mortalities, and ability to upload species observations with attributes (such as life stage and body condition) and environmental and weather) was added to the Species Inventory Management System by integrating with the Critterbase data emetry Warehouse was integrated into the Species Inventory Management System to allow wildlife telemetry y collected and visualized in real time alongside species observations. The Integrated Data and Analysis Services e integration of the Wildlife Health System for data submitters to efficiently send wildlife capture and mortality piologists and visualize wildlife health results. The Species Inventory Management System was integrated with pwing data and information to be shared and for the Integrated Data and Analysis Services Branch to more the Species and Ecosystems Data and Information Security Policy. Features were also added that allow other data software applications, such as analytics dashboards, to integrate with the Species Inventory Management fish and wildlife data.

2324-T4W-006	Stikine goat survey: 6-22A, 6-21C; PMU 222	Skeena	4. Data and Information \$	9,000.00 A mountain goat inventory survey of th 22A) and East Stikine (6-19A). A survey (PMU 222). The resulting observations inform regulatory and allocation proces
2324-T4W-004	Stone's sheep inventory for the Stone Mountain and Wokkpash Population Management Units (PMUs)	Northeast	4. Data and Information \$	33,481.46 An aerial survey was conducted for Sto including Muncho Provincial Park as we participated as observers for the durat biological, social and economic data. To estimates, as well as ram-to-ewe and la technical report to be submitted and m
2324-T4W-090	Student research scholarships	Ministry of Water, Land and Resource Stewardship - Strategic Initiatives and Partnerships	5. Research \$	238,985.00 Ten \$20,000 academic scholarships we positive impacts on natural resource st Project topics include culturally import deer, Stone's sheep , and bighorn shee invasive species.
2324-T4W-050	Support for B.C. Moose Tracker citizen science mobile application	Skeena	3. Public Engagement \$	192.59 Funding was used to promote a moose app in the community and over 25 new
2324-T4W-000	Support for Provincial Grizzly Bear Stewardship Framework and Commercial Bear Viewing Strategy	Ministry of Water, Land and Resource Stewardship - Wildlife Branch	8. Objective-setting \$	30,000.00 This initiative helped First Nations impli- included: partnerships with Tsilhqot'in where the bears that use the salmon in DNA-based grizzly bear inventory in the WildSafeBC coordinator for the Mannie partnerships with the Southern Dakelh area.
2324-T4W-048	Thompson Okanagan bighorn sheep population recovery and stabilization	Thompson Okanagan	9. On-the-ground Action \$	54,979.58 The distribution and prevalence of che range to help analyze bighorn sheep's degraded bighorn sheep range in the r
2324-T4W-011	Thompson Okanagan moose monitoring program	Thompson Okanagan	4. Data and Information \$	19,028.13 A stratified random block survey (see d densities of moose from previous survey Definition: Stratified blocks are survey on the landscape are typically selected
2324-T4W-063	Thompson Okanagan Wildlife and Habitat Committees	Thompson Okanagan	2. Regional Advisory \$	32,937.61 The Thompson Okanagan region has m initiated, the Thompson-Lillooet Wildlid Committee. Several in-person meeting and trust related to regional wildlife an
2324-T4W-099	Thompson-Nicola Conservation Collaborative: Indigenous capacity and engagement for regional conservation action plan	Thompson Okanagan	23. FN Capacity Building \$	20,000.00 To support the creation of a conservation was provided to engage further with Find have representatives attend in-person efforts, funding helped create the constant of the constant
2324-T4W-113	Together for Wildlife communications	Ministry of Water, Land and Resource Stewardship - Strategic Initiatives and Partnerships	3. Public Engagement \$	27,674.91 In fiscal year 2023-24, communications collaboration to support wildlife and ha Communications Engagement Framework successful conservation projects; and, engagement. Other activities included T4W goals and actions. Overall, commu between communities and wildlife stev
2324-T4W-116	Together for Wildlife Conservation Lands	Kootenay Boundary	9. On-the-ground Action \$	19,976.25 This project included the development Columbia Lake Conservation Lands. Inf support recreation management at the restoration of important habitats within
2324-T4W-117	Together for Wildlife Program Administration	Ministry of Water, Land and Resource Stewardship - Strategic Initiatives and Partnerships	NA \$	1,753,594.47 Program staffing, resourcing, and admi
2324-T4W-089	Understanding people's values related to wildlife conservation in B.C.: a provincewide survey	Ministry of Water, Land and Resource Stewardship - Strategic Initiatives and Partnerships	3. Public Engagement \$	2,134.31 Progress has been made in the design of Strategy. The project experienced dela including setting up the survey samplin the release of the survey, its administra This project remains aligned with the g Together for Wildlife strategy.
2324-T4W-002	Ungulate management in the West Coast Region	West Coast	4. Data and Information \$	171,046.56 This project helped fill critical gaps in m Island, which informs discussions with were completed, and population estim harvest recommendations were develo to inform elk harvesting opportunities. on Vancouver Island, and trends in pop were deployed on selected deer to ass affect deer mortality risks.
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9,000.00	A mountain goat inventory survey of three Limited Entry Hunting (LEH) zones was conducted July 11-13, 2023: Stikine Canyon (6-21C, 6- 22A) and East Stikine (6-19A). A survey was also conducted in a Population Management Unit (PMU) adjacent to the East Stikine zone (PMU 222). The resulting observations were used to determine population estimates for the respective LEH zones. These estimates will inform regulatory and allocation processes associated with harvest management.
33,481.46	An aerial survey was conducted for Stone's sheep in Wildlife Management Unit 7-54. The survey area included the Sulphur 8 Mile area, including Muncho Provincial Park as well as Wokkpash and Racing River in the Northeast region. Two First Nations land guardians participated as observers for the duration of the survey. Action 4 of the Together for Wildlife (T4W) strategy commits to enhancing biological, social and economic data. To that end, data collected from the survey will provide updated Stone's sheep population estimates, as well as ram-to-ewe and lamb-to-ewe ratios, to inform harvest management. The survey will also form the basis of a technical report to be submitted and made available via Natural Resource Information and Digital Services.
238,985.00	Ten \$20,000 academic scholarships were awarded to Master's degree and PhD candidates undertaking research that will support positive impacts on natural resource stewardship, management, policy, or decision-making regarding wildlife and wildlife habitat in B.C. Project topics include culturally important species such as black-tailed deer and black bear, shorebirds, cougar, mule deer, white-tailed deer, Stone's sheep , and bighorn sheep, as well as Indigenous Protected and Conserved Areas (IPCAs), human-wildlife conflicts, and invasive species.
192.59	Funding was used to promote a moose tracking app (Moose Tracker) locally in Smithers. The promotion increased awareness of the app in the community and over 25 new participants downloaded the app to their phones.
30,000.00	This initiative helped First Nations implement projects that will support their involvement in grizzly bear stewardship. This work included: partnerships with Tsilhqot'in National Government to help live-capture bears in the Chilko lake area to better understand where the bears that use the salmon in the river and lake each fall come from; partnerships with the Simpcw to help them implement a DNA-based grizzly bear inventory in the North Thompson; partnerships with the Southwest B.C. Grizzly Bear Recovery Team to hire a WildSafeBC coordinator for the Manning Park area and release two captive-reared juvenile grizzly bears into the Stein area; and, partnerships with the Southern Dakelh Nation Alliance to help members design a DNA-based grizzly bear inventory in the Quesnel Lake area.
54,979.58	The distribution and prevalence of cheatgrass (Bromus tectorum, a winter annual grass) was mapped in the Kamloops Lake sheep range to help analyze bighorn sheep's response to the presence of this grass, and eventually inform a treatment program to enhance degraded bighorn sheep range in the region.
19,028.13	A stratified random block survey (see definition below) was completed in Wildlife Management Unit 8-01. Results indicated lower densities of moose from previous surveys, bull ratios that continued to be below the objective, and normal calf ratios.
	Definition: Stratified blocks are survey units designed to sample areas (strata) with different densities of the species of interest. Blocks on the landscape are typically selected randomly prior to being surveyed.
32,937.61	The Thompson Okanagan region has moved to create regional wildlife and habitat advisory committees. Two committees were initiated, the Thompson-Lillooet Wildlife and Habitat Advisory Committee and the Okanagan Boundary Regional Wildlife Advisory Committee. Several in-person meetings were held along with virtual sessions, all focusing on creating a vision, relationship building, and trust related to regional wildlife and wildlife habitat stewardship.
20,000.00	To support the creation of a conservation action plan that was being led by the Thompson Nicola Conservation Collaborative, funding was provided to engage further with First Nations in the region. This original funding was used to support First Nations capacity to have representatives attend in-person meetings, review information, and provide feedback. In addition to supporting engagement efforts, funding helped create the conservation action plan and a final report with specific recommendations for the B.C. government.
27,674.91	In fiscal year 2023-24, communications efforts under the Together for Wildlife (T4W) strategy focused public engagement, and collaboration to support wildlife and habitat conservation in British Columbia. Key initiatives included developing the following: 1) Communications Engagement Framework, simplifying complex reports for broader accessibility; 2) "Wild Lives" stories, highlighting successful conservation projects; and, 3) Respect and Reconciliation guide that prioritized Indigenous collaboration and respectful engagement. Other activities included public consultations on biodiversity, along with creating infographics and web content to clarify T4W goals and actions. Overall, communications under T4W emphasized inclusion, accountability, and fostering a deeper connection between communities and wildlife stewardship.
19,976.25	This project included the development of an Invasive Species Management Plan to support habitat restoration at the East Side Columbia Lake Conservation Lands. Informational signage was developed and outreach and recreation monitoring were done to support recreation management at the Wycliffe Conservation Complex. These projects will contribute to the protection and restoration of important habitats within these Conservation Lands.
1,753,594.47	Program staffing, resourcing, and administration.
2,134.31	Progress has been made in the design of the wildlife values survey, which is funded under Action 3 of the Together for Wildlife Strategy. The project experienced delays due to unforeseen circumstances faced by the contractor, but the initial phases are complete, including setting up the survey sampling plan, and the development and approval of the survey instrument. The remaining tasks are the release of the survey, its administration, data cleanup and weighting, analysis, report development, and presentation of its findings. This project remains aligned with the goal of increasing opportunities for public engagement and involvement as outlined in the Together for Wildlife strategy.
171,046.56	This project helped fill critical gaps in maintaining an inventory of ungulates (i.e. hoofed animals such as deer or elk) on Vancouver Island, which informs discussions with First Nations and stakeholders about sustainable harvest opportunities. Aerial surveys of elk were completed, and population estimates were developed. Using these estimates and sustainable harvest rates, sustainable elk harvest recommendations were developed and used to support discussions with about 20 First Nations and provincial decision makers to inform elk harvesting opportunities. Ground-based black-tailed deer surveys were also conducted in spring and summer in key areas on Vancouver Island, and trends in population-related metrics were assessed. No regulation changes were recommended. GPS collars were deployed on selected deer to assess our survey methods and begin filling the information gap on how changes to the landscape affect deer mortality risks.

2324-T4W-081	West Coast Roosevelt elk habitat selection and supply monitoring	West Coast	4. Data and Information \$	77,243.00 This pr levels) 11 ben Winter that ex relevar further Nanwa protoc Nation assessi co-stev	project used GPS co s) at various habitat enchmark Elk Popula er Ranges to help in experienced concen ant First Nations to er understand the f vakolas Stewardship ocol. Over 50 habitat ons partnership, a re ssing the elks' use of ewardship and land
2324-T4W-014	Wild sheep and goat Compulsory Inspections - respiratory disease surveillance	Ministry of Water, Land and Resource Stewardship - Wildlife Branch	4. Data and Information \$	14,403.91 Respira purcha biologi to the the Mi conser follow-	iratory disease has t nased and distribute gists conducted Cor e B.C. Wildlife Healt Ainistry of Agricultu ervation by passivel w-up testing and ma
2324-T4W-031	Wildlife Act review	Ministry of Water, Land and Resource Stewardship - Wildlife Branch	12. Wildlife Act \$	198,579.00 A discu improv advisor agreen expres holder group Trappin issues develo public	cussion paper was d ove the act, and exa ory bodies, and B.C ements. From Octob essed interest in pro- ers to receive more o consisting of repre- bing Advisory Team, s and opportunities lopment of a policy c engagement and o
2324-T4W-034	Wildlife data and licensing transformation project - mobile app development	Ministry of Water, Land and Resource Stewardship - Wildlife Branch	7. Data Accessibility \$	75,000.00 The de ongoin inform app pro web-ba determ the con The inf fidelity tablet	levelopment of a puing Fish and Wildlife mation sharing for lip project has been con based service, along mine favourable sy ombined information formation archited ty mock-ups for the t presentation.
2324-T4W-025	Wolverine den monitoring and East Kootenay habitat modeling	Kootenay Boundary	4. Data and Information \$	52,125.00 This pr Kooter dennin activity improv wolver 20,000 around tourisr on wol	project is in the seco enay region. The pro- ing areas, and asses ty, frequency of use ove existing manage erine habitat model 00 members of the p nd wolverine dennin sm, commercial reco olverine manageme
2324-T4W-065	Ya'qit ?a·knuq <del>l</del> i'it habitat restoration in the Flathead Valley	Kootenay Boundary	9. On-the-ground Action \$	35,000.00 This pr rehabil spatial pass m Mount alpine	project was led by Y pilitation in the Flath al files of the roads a monitoring report b ntains. This report p e ecosystems.
TOTAL			\$	6,607,194.48	
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collar data from over 80 adult female Roosevelt elk to assess seasonal habitat supply (and related protection at management scales. Seasonal habitat models were used to assess summer and winter habitat supply within alation Units. Severe winter habitat models were used to assess habitat supply within designated Ungulate inform habitat effectiveness monitoring. GPS collars and remote cameras were used to identify specific areas entrated elk use during periods of severe winter conditions. These areas were delineated and shared with o support the setting of elk habitat objectives as part of Indigenous-led landscape conservation planning. To fine-scale habitat features used during severe winter periods, work was done in partnership with the ip Council and the Ha-ma-yas Stewardship Network to develop a ground-based ungulate habitat assessment cat plots at locations used by collared elk were conducted during these periods. As another part of this First remote camera monitoring plan was developed which will be implemented in the future. This plan focuses on of significant wallow sites and migration corridors so these important habitat features can also be factored into idscape planning objectives.

the potential to significantly impact wild sheep and mountain goat populations. Sampling materials were ted to Compulsory Inspectors (CIs) around B.C., and a sampling protocol was developed. Contractors and ompulsory Inspections of wild sheep and mountain goats and collected biological samples, which were shipped Ith Program and catalogued. Priority samples were then submitted to the B.C. Animal Health Centre , which is ure and Food's provincial lab, for testing. This surveillance (i.e., monitoring) supports wildlife management and ely collecting samples and data from a large sample of wild animals. If a positive result for disease is found, nanagement may be initiated.

developed during the summer of 2023 that outlined existing challenges with the Wildlife Act, opportunities to amples of proposed changes to the legislation. The discussion paper was distributed to rights and title holders, C. government staff in October 2023. It was also shared with some special interest groups under confidentiality ber 2023 to March 2024, meetings were held with rights and title holders and special interest groups that oviding input into the review. Two virtual information sessions were held in January 2024 for rights and title e information on the ongoing review, provide input, and request further engagement opportunities. A working resentatives from the three advisory bodies (Minister's Wildlife Advisory Council, Provincial Hunting and h, First Nations-B.C. Wildlife and Habitat Conservation Forum) was also established to provide input and discuss s of shared interest. All input and feedback received through this engagement process will feed into the *y* intentions paper outlining potential legislative changes. The intentions paper will be the subject of broad consultations with rights and title holders in 2025.

bublic mobile app for the Wildlife Information and Licensing Database (WILD) is a significant component of the fe Data and Licensing Transformation project. This work will provide improved accessibility, integration, and r license and authorization holders, wildlife monitors, and stakeholders. The design phase of the public mobile completed. The initial tasks of this phase included an information architecture audit and review of the current ng with client and stakeholder interviews. Also included were card sorting and focus group sessions to system functionality and how to improve the design elements of the current web-based service. The results of cion architecture review and stakeholder sessions were analyzed to inform the design of the public mobile app. ecture for the public app was then developed. The final task of this phase of the project was the creation of highne first elements that are planned for use in the public app, for a total of 145 mock-ups for each phone and

cond year of a three-year initiative to conduct den monitoring and habitat modelling for wolverine in the project includes evaluating factors affecting wolverine distribution in the East Kootenay, monitoring known essing other potential denning areas reported online (through wolverinewatch.org) for signs of wolverine se, reproductive output and fidelity (returning to the same dens in future years) . This project also seeks to gement guidelines for backcountry recreation and industry activities in wolverine habitat. In 2023-24, a el for the East Kootenay and associated spatial data were produced, and outreach was conducted with over e public through wolverinewatch.org (including the distribution of an infographic communicating best practices ning areas). Best management practices around wolverine denning areas (which pertained to backcountry creation and industry operations) were also published. These publications will support more informed decisions nent to maintain wolverines on the landscape.

Ya'qit ?a·knuqii'it First Nation and included a field reconnaissance survey of roads that could be candidates for thead Valley and select mountain passes in the southern Rocky Mountains. Outcomes included the creation of s and a report that highlights roads that Ya'qit ?a·knuqii'it members recommend for rehabilitation. A mountain based on remote camera data was also completed for specific accessible passes in the southern Rocky provides important data about human and wildlife use of these mountain pass routes that include sensitive