

2015-2016 FWCP Annual Report Columbia



FWCP
Fish & Wildlife
COMPENSATION PROGRAM

The FWCP is a partnership between BC Hydro, the Province of B.C., Fisheries and Oceans Canada, First Nations and Public Stakeholders to conserve and enhance fish and wildlife impacted by BC Hydro dams.

Message from the Board Co-Chairs

On behalf of the FWCP Columbia Board, we are pleased to invite you to read our Annual Report for Fiscal Year 2016 (F16). FWCP Columbia is dedicated to advancing the objectives of the FWCP partnership—conservation, sustainable use, and community engagement—in watersheds impacted by BC Hydro’s generation facilities in the Columbia region.

Fiscal Year 2016 (from April 1, 2015 to March 31, 2016), was certainly a busy one for the FWCP Columbia. As in years past the majority of program expenditures went toward implementing core fish and wildlife project envelopes. Examples of core projects include the Nutrient Restoration Programs in Arrow Lakes Reservoir and Kootenay Lake, Hill Creek and Meadow Creek spawning channels, East and West Kootenay Enhancement activities, and Land Securement.

In addition to the core fish and wildlife projects, 29 grant application projects were implemented to support the restoration and enhancement of fish and wildlife habitats. We are always pleased to see the amount of in-kind and volunteer support as well as other funding sources that applicants use to leverage our funding dollars. The total value of grant application projects supported by the FWCP Columbia in fiscal year 2016 was about \$2.6 million, with an FWCP investment of over \$769K.

In F16, our Board identified three regional project priorities. They were: projects in the northern portion of the Program area (North Columbia), which includes Golden, Revelstoke, and Valemount areas; implementation of stream habitat restoration and enhancement projects; and implementation of riparian and wetland restoration and conservation projects as identified in the FWCP Columbia Wetland and Riparian Action Plan.

Also new during this fiscal was the way in which applicants applied for FWCP funding with the launch of an online application form in October 2015 (for projects starting after April 1, 2016). This is intended to streamline the application process, both for the applicants and for ourselves through the review process and the management of data and reports.

And finally on the funding front, we introduced a new, easy-to-apply-for, Community Engagement Grant. This grant provides an opportunity for FWCP stakeholders (e.g. environmental groups, rod and gun clubs, non-profits, stewardship organizations, government, and First Nations) to apply for small amounts of funding (up to \$500 max) to support their conservation and enhancement work.

This was also another year of successful major outreach events organized by FWCP in the Columbia Region. New locations were utilized for the juvenile sturgeon release events, both in Castlegar (Millennium Park for the school event), and Trail (Gyro Park, for the public event). Toadfest (now in its sixth year) at Summit Lake near Nakusp was reduced to one day instead of two due to the relative scarcity of toadlets, but still received wide media coverage and a good public turn out.



For the East Kootenay, the second annual Turtle Day organized by the FWCP at Elizabeth Lake near Cranbrook attracted more exhibitors and attendees compared with 2014, and helped raise awareness about Western Painted Turtles and wetland habitat. The FWCP also organized its annual Open House at Meadow Creek Spawning Channel.

The FWCP Columbia Board is made up of representatives from Public Stakeholders, First Nations, the Province of B.C. and BC Hydro. This marks the third full year of implementation of the new delivery model, and we have continued to ask a lot of our dedicated Board representatives.

F16 continued to see increased Program momentum including enhanced delivery of an effective and efficient program, and strengthened partnerships with project proponents, First Nations and the public. This positive momentum was reflected in a third-party survey of the FWCP undertaken in the fall: FWCP Report (2015) Survey of Perceptions and Opportunities for Improvement. The survey, conducted by Insights West, found that nearly three quarters (73%) of stakeholders agreed that the FWCP does a good job of compensating for the impacts of BC Hydro dams on fish and wildlife. The positive results of this review, which can be found at fwcp.ca, can be attributed to, at least in part, the strong and cohesive Board we currently have in the Columbia Region. And with that we would like to thank Joe Nicholas, as representative for the Ktunaxa Nation, for his many years of commitment; Joe joined the Columbia Board back in 1995, and we look forward to welcoming his replacement in 2016.

And finally, we wish to thank all the dedicated applicants, proponents, contractors and Program and project partners who work hard each year to successfully implement projects to help us achieve our vision of thriving fish and wildlife populations, in healthy and sustainable ecosystems

Yours truly,

John Krebs
FWCP Columbia Board Co-Chair

Trevor Oussoren
FWCP Columbia Co-Chair

1.0 Organizational Overview

INTRODUCTION

The Fish and Wildlife Compensation Program (FWCP) was established to compensate for the impacts of BC Hydro dams by conserving and enhancing fish and wildlife in the Coastal, Columbia and Peace regions of British Columbia. The Program operates as a partnership between BC Hydro, the Province of B.C., Fisheries and Oceans Canada (DFO), First Nations, and Public Stakeholders.

FWCP has invested more than \$142.8 million and delivered more than 1,625 projects since 1988 that conserve and enhance fish, wildlife and their supporting habitats.

In the Peace and Columbia regions, the FWCP is in place to meet conditions in BC Hydro's Water Licences issued under the provincial Water Act; the Program is voluntary by BC Hydro in the Coastal region. FWCP Columbia was established in 1995.

This Annual Report provides an overview of the activities of the FWCP-Columbia for Fiscal Year 2016 (i.e. April 1, 2015 to March 31, 2016), including a report on financial performance, project funding summary and project lists, alignment of the year's work with strategic objectives, as well as highlights from the year.



The FWCP Hosted an Open House at Meadow Creek Spawning Channel at the north end of Kootenay Lake in fall, 2015.

GOVERNANCE

The FWCP is governed through a framework that recognizes the regulatory accountabilities of agency partners (BC Hydro, the Province of B.C., and DFO) and ensures active participation and input from First Nations, and Public Stakeholders. Specifically, each region has a Board to provide local oversight to the planning and implementation of the FWCP at the regional level and to make local decisions on strategic priorities, and on annual expenditures and investments by the Program.

The FWCP-Columbia Board is made up of ten (10) members representing First Nations, Public Stakeholders, the Province of B.C., DFO and BC Hydro. The current Board members are:

First Nation Representatives:

Joe Nicholas, Ktunaxa Nation (Akisqnuq First Nation)

Adam Neil, Splatshin People (Shuswap First Nation)

Howie Wright, Okanagan Nation Alliance

Public Representatives:

David White

Grant Trower

Rick Morley

Agency Representatives:

David Tesch, B.C. Ministry of Environment (MOE)

Doug Johnson, BC Hydro

Trevor Oussoren, BC Hydro

John Krebs, B.C. Ministry of Forests, Lands and Natural Resource Operations (FLNRO)

FWCP Columbia gratefully acknowledges the work and commitment of the previous Ktunaxa representative Joe Nicholas (Akisqnuq First Nation) who stepped down from the Board during F16.

The Board reports to the Policy Committee, representing the federal and provincial government regulators (DFO and the Province), and BC Hydro, which exists to allow the agencies to provide oversight on a range of fish and wildlife-related issues relevant to BC Hydro including, but not limited to, the FWCP.

The current Policy Committee members are:

Edie Thome, Director of Environmental Risk Management, BC Hydro

Kaaren Lewis, Assistant Deputy Minister, Environmental Sustainability and Strategy Policy, MOE

Cheryl Webb, Regional Director, Ecosystems Management Branch, DFO

The Board is supported by a Fish Technical Committee and a Wildlife Technical Committee. The primary roles of the Technical Committees are to: support the development of strategic plans; provide advice on the effective implementation of action plans; and provide a fair and objective technical review, evaluation and ranking, of fish and wildlife projects proposed for the Annual Operating Plan.

Program management and operations are implemented by a full-time Manager who administers all aspects of program delivery, including contribution agreements and contracts. For F16, the FWCP Columbia Region Manager was Crystal Klym. The Program Administrator for all three FWCP regions was Lorraine Ens. Through a Letter of Agreement, the Ministry of Forests, Lands and Natural Resource Operations (FLNRO) implemented a number of core fish and wildlife programs in F16 under the direction of Eva Schindler.



FWCP Columbia Board in F16: Back row (L-R), John Krebs, Trevor Oussoren, Dave White, Doug Johnson, Howie Wright.

Front row, Rick Morley, Dave Tesch, Grant Trower. Missing: Adam Neil, Joe Nicholas.



FWCP helped fund a new bridge, replacing a hanging culvert that was acting as a fish barrier, at Wickman Creek. Photo by VAST Resource Solutions.

2.0 FWCP’s Strategic Framework

The FWCP uses a strategic framework to guide overall planning for compensation investments. The framework (Figure 2.1) has guided the development of strategic plans (Section 3) for each watershed within the FWCP program area, which are, in turn, informing action plans that focus on specific priorities within each watershed.

VISION

Thriving fish and wildlife populations in watersheds that are functioning and sustainable.

- An effective program will support the maintenance of healthy fish and wildlife populations in basins significantly altered by hydroelectric development. Actions taken should satisfy both the conservation and sustainable-use objectives and, where possible, restore ecosystem function, making species more resistant to emerging pressures such as climate change.

MISSION

The FWCP compensates for the impacts to fish, wildlife and their supporting habitats affected by BC Hydro owned and operated generation facilities.

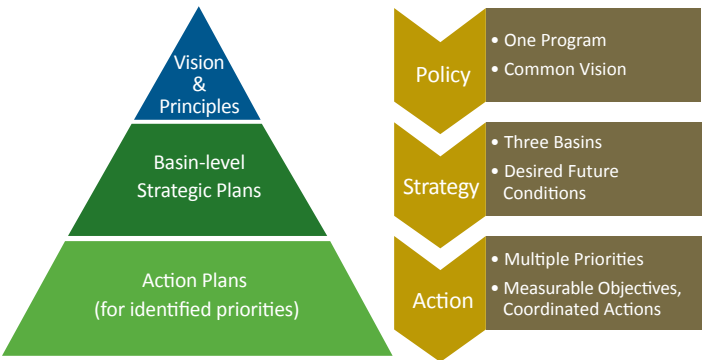


Figure 2.1
Relationship between the FWCP Strategic Framework, basin strategic plans and action plans

3.0 FWCP Strategic Objectives and Strategic Plans

3.1 STRATEGIC OBJECTIVES

The strategic objectives for the Fish and Wildlife Compensation Program reflect a synthesis of the core objectives and mandates of partner agencies as they relate to mitigating impacts associated with hydro-power generation in British Columbia:

Conservation

- Maintain or improve the status of species or ecosystems of concern.
- Maintain or improve the integrity and productivity of ecosystems and habitats. This addresses the concept of ecosystem integrity, resiliency and the functional elements of ecosystems, including efforts to optimize productive capacity.

Sustainable Use

- Maintain or improve opportunities for sustainable use, including harvesting and other uses. This objective focuses on the Program's role in restoring or enhancing the abundance of priority species, and in providing information to resource management decision-makers related to providing opportunities for harvesting and other uses. Harvesting includes First Nations, recreational and commercial harvests. Other uses may include cultural, medicinal, or non-consumptive uses, such as wildlife viewing.

Community Engagement

- Build and maintain relationships with stakeholders and Aboriginal communities. This objective stems from BC Hydro's social responsibility policy, MOE's shared stewardship goal, and the approach of DFO's Stewardship and Community Involvement Program. This recognizes the importance of engaging Aboriginal communities, local stakeholders, and other interest groups to contribute toward making good decisions and delivering effective projects.

3.2 STRATEGIC PLANS

In 2009, the Program developed a Strategic Framework that guides the overall planning of the compensation investments (MacDonald, 2009). Subsequent to the development of this Strategic Framework, the Basin and Action prioritization process was initiated in 2010. Specifically, within FWCP Columbia, there is a Basin Plan, which sets forth the strategic direction for the region. In brief, it outlines the vision, principles, policy context and strategic objectives that form the foundation of FWCP Columbia. Beneath the Basin Plan are seven Action Plans (outlined below), which identify a priority-setting process and associated actions. When the Basin and Action Plans are combined, they present the priorities for investments in compensation activities within the Columbia Basin.



The Nature Trust of Canada, with FWCP funding, spread gravel at a Western Painted Turtle nesting site in the West Kootenay.

Action Plans:

- Large Lakes Action Plan;
- Small Lakes Action Plan;
- Riparian and Wetland Action Plan;
- Upland/Dryland Action Plan;
- Streams Action Plan;
- Species of Interest Action Plan; and
- Upper Kootenay Ecosystem Enhancement Plan (UKEEP)¹

The Actions Plans are available at fwcp.ca (Action Plans).

The Action Plans (and tables within) provide direction, and identify areas of focus in FWCP Columbia, for an approximately five-year period, starting in the summer of 2012. These plans, together with the Five Year Core Fisheries Program Plan 2014-2018, are to be considered living documents that will be reviewed and refined on an on-going basis, as determined by the regional Board.

Each year, as the FWCP Columbia Board reviews and approves the Annual Operating Plan, alignment with the strategic priorities identified in the Basin and Action Plans is of key consideration.

All projects developed for F16, including both core and grant application projects, align with the Basin Plan and Action Plans. The Plans are posted on the FWCP website, and, each year, applicants are asked to review the relevant Plans and identify how their proposed project aligns with, and supports, their objectives



Rocky Mountain Big-horn Sheep, East Kootenay. Photo: Larry Halverson.



4.0 Report on Performance

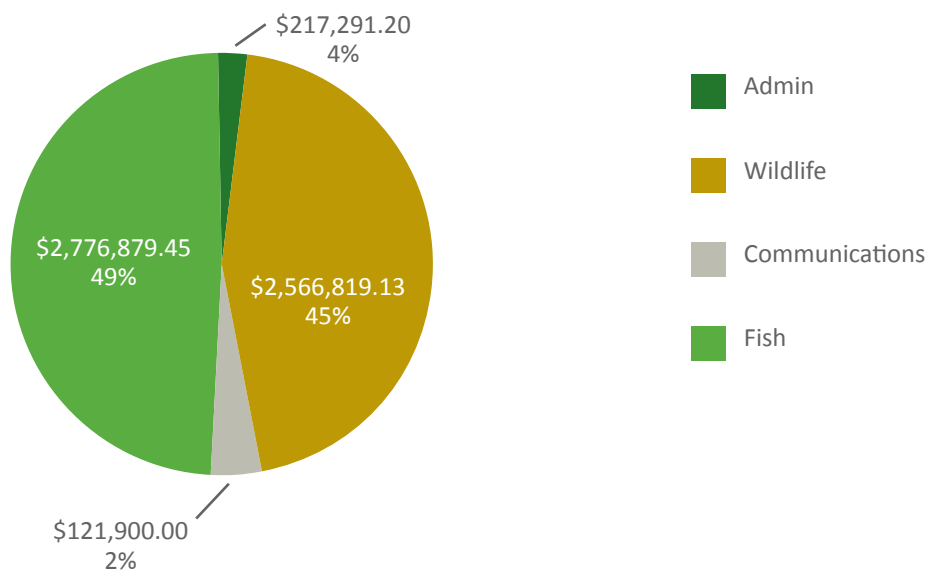
4.11 FINANCIAL REPORT

The FWCP is funded by BC Hydro through a notional fund that is indexed to the Consumer Price Index (CPI). The FWCP fiscal year runs from April 1, through to March 31, of the following year. For F16, the annual funding budget for FWCP Columbia was over \$4.7 million.

Each year annual funding budgets are allocated either in full, or in part, by the Board toward fish and wildlife projects, administrative costs (e.g. salaries, safety, Board and Technical Review Committee expenses, etc.), as well as project support and communication costs (e.g. communications support and advertising). These allocations form the Annual Operating Plan. Any unallocated funds are carried forward (“unspent surplus budget”), and are available for new spending in future fiscal years.

For F16, the Board approved a budget of over \$5.6M , which included the notional fund (\$4.7M) and unspent funds carried forward from F15. This year’s funds went primarily towards projects related to fish and wildlife conservation, restoration and enhancement projects. Figure 4.1 illustrates the approved F16 budget at the start of the fiscal year. A complete project list for F16 is found starting on page 10. Administrative and communications costs made up approximately 4% and 2% of the total budget, respectively.

Figure 4.1 FWCP-Columbia F16 Approved Budget, as of April 1, 2015. (Not including the UKEEP budget)



Program expenditures in F16 are illustrated in Table 4.1. It should be noted that Table 4.1. represents a “snapshot in time” of actual and planned expenditures made related to F16 projects. Each year, allocated project funding is not fully paid by year-end due to the seasonal nature of field-based projects, and the fact that some project proponents are unable to submit their final project reports for approval by fiscal year-end. The F16 allocated funds not yet paid out by March 31, 2016 are labelled “Planned” in Table 4.1.

In addition, it is not uncommon for projects to be completed under-budget (“Unspent” in Table 4.1). Any funds not spent during the fiscal year will be carried forward as unspent surplus budget and made available for future new project spending. If additional projects remaining in the “Planned” category come in under-budget, the unspent amount for F16 may increase.

The approved F16 budget for FWCP Columbia included \$2.6M on Wildlife-related projects, and \$2.8M on Fish-related projects, and their associated implementation support (total \$5.3M), as shown in Table 4.1.

Table 4.1: F16 Actual Budget at March 31, 2016

Fund Category	FY16 Approved Budget	Paid up to March 31, 2016	Planned Payments ¹	Unspent Funds ²
Administration	\$217,291.20	\$231,670	\$7,675	(\$22,053)
Wildlife	\$2,566,819.13	\$1,691,464	\$725,305	\$150,050
Communications	\$121,900.00	\$115,569	\$10,927	(\$4,596)
Fish	\$2,776,879.45	\$2,117,256	\$524,476	\$135,147
TOTAL	\$5,682,889.78	\$4,155,958	\$1,268,383	\$258,548

¹Planned payments represent expected invoices for approved, ongoing projects that have not yet submitted final reports by March 31.

²Unspent funds are carried forward and available for the next fiscal year.

4.12 Upper Kootenay Ecosystem Enhancement Plan (UKEEP)

Summary of F16 Activities

The FWCP administers UKEEP projects through a funding partnership with Columbia Basin Trust (the Trust), which provided \$3 million over three to five years. It was developed with technical and community input that helped conservation priorities for lakes, streams, wetlands upland and dryland areas, as well as species of interest. UKEEP was jointly announced by the Trust and FWCP in 2013. F16 was the first full year of projects being funded under UKEEP.

F16 activities focused on (a) raising awareness of UKEEP and associated funding opportunities through targeted communications, (b) administration of F16 grant applications, (c) delivery of three directed projects (two fish, one wildlife), and (d) administration of the second grant application intake (F17) for UKEEP.

Grants were submitted by a diversity of applicants including First Nations, stewardship groups, consultants, and agencies. A total of 11 projects were funded—four fish and seven wildlife—for a total project value of nearly \$1.5 million, with a UKEEP investment of \$513,315

Based on directed project priorities identified in the strategic UKEEP Plan, three directed projects were also identified and approved by the Subcommittee for implementation in F16:

- Elk Valley Elk Project (UW-F16-112) – Sparwood Fish & Wildlife Association (\$49,910)
- Koocanusa Kokanee Enumeration (UF-F16-111) – VAST Resource Solutions Inc. (\$37,620)
- Koocanusa Burbot Enumeration (UF-F16-113) – Lotic Environment Ltd. (\$39,400)

4.2 Strategic Plan Accountability

As noted in Section 3.2, alignment with the strategic priorities identified in the Basin and Action Plans, is a key consideration for the Technical Review Committees and Board during the project evaluation and selection process.

Tables 4.2 and 4.3 provide a listing of the projects selected for funding during F16, including alignment with the Action Plans.

4.3 F16 Projects

In total, there were 14 core projects (Table 4.2) and 29 application-based projects approved by the Board (13 wildlife, and 16 fish) as shown in Table 4.3.

Table 4.2: F16 FWCP Columbia Core and Grant-based Fish and Wildlife Projects

2015-2016 FWCP-Columbia Region Grant-based Projects						
Grant-based Fish Projects						
#	Project Title	Watershed/ Location	Project Lead	FWCP Approved Budget April 1, 2015	Align with FWCP Action Plan	Project Type
1	Heart Creek Clear Span Bridge Construction	Heart Creek, near Nakusp	Ministry of Transportation and Infrastructure	\$175,000	Streams	Habitat based
2	Whatshan Reservoir Nutrient Addition Restoration Feasibility	Whatshan Reservoir, near Revelstoke	Redfish Consulting Ltd.	\$4,900	Large Lakes Action Plan	Research and Information
3	Upper Whatshan River Kokanee Assessment	Whatshan Reservoir, near Revelstoke	Redfish Consulting Ltd.	\$9,729	Large Lakes Action Plan/Species of Interest Action Plan	Research and Information
4	Gerrard Rainbow Trout In-Lake Population Abundance	Kootenay Lake	Redfish Consulting Ltd.	\$10,363	Large Lakes Action Plan/Species of Interest Action Plan	Research and Information
5	Bull Trout Spawner Escapement in the Salmo River Watershed 2015	Salmo River	Salmo Watershed Streamkeepers Society	\$14,680	Streams Species of Interest	Monitoring and Evaluation
6	Bull Trout Habitat Restoration and Improvement on Kaslo River	Kaslo River	Redfish Consulting Ltd.	\$16,907	Large Lakes/Streams/Species of Interest	Habitat Based; Species Based; Monitoring and Evaluation
7	Slocan Lake Bull Trout Redd Counts 2015	Slocan Lake	Mountain Water Research	\$25,063	Large Lakes	Research and Information
8	Qua and Curtis Creeks Crystal Green Nutrient Restoration Preparation Project	Salmo River	Poisson Consulting Ltd.	\$38,000	Streams	Research and Information; Monitoring and Evaluation, and Habitat Based
9	Bridg Creek Enhancement Project	Revelstoke	Revelstoke Rod & Gun Club	\$17,768	Streams	Habitat Based
10	Sheep Creek Fertilization: The Food for Fish Enhancement Project	Sheep Creek	Salmo Watershed Streamkeeper Society	\$20,960	Streams Action Plan/Species of Interest	Monitoring and Evaluation, Species Based, Habitat Based
11	Trout Lake Bull Trout Redd Surveys 2015	Trout Lake, near Meadow Creek	Masse Environmental Consultants	\$13,711	Large Lakes/Streams Action Plan/Species of Interest	Species Based, Research and Information
12	Columbia Basin Fish Passage Data Analysis	Columbia Basin	Masse Environmental Consultants	\$4,421	Streams Action Plan	Research and Information, Habitat Based
13	Pass Creek Bank Maintenance	Norns Creek, near Castlegar	Okanagan Nation Alliance	\$27,500	Streams Action Plan	Habitat Based
14	Protecting Our Waters from Aquatic Invasive Species: Phase II	West Kootenay	Central Kootenay Invasive Plant Committee	\$30,490	Large lakes / Small Lakes	Habitat Based
15	Munn Lake Dam Assessment	East Kootenay	Lake Windermere District Rod and Gun Club	\$9,000	Small Lakes	Habitat Based
16	Crawford Creek (Prioritize Restoration Opportunities)	Crawford Creek	Eastshore Freshwater Habitat Society	\$4,999	Large Lakes / Streams	Research and Information
FISH GRANT-BASED TOTAL				\$395,989		

Grant-based Wildlife Projects						
#	Project Title	Watershed/ Location	Project Lead	FWCP Approved Budget April 1, 2015	Align with FWCP Action Plan	Project Type
17	Revelstoke Riparian Restoration Monitoring	Revelstoke	Kingbird Biological Consultants Ltd.	\$2,550	Wetland and Riparian Areas	Monitoring and Evaluation
18	Predicting Grizzly Bear Food - Huckleberries	West Kootenay	Birchdale Ecological	\$25,418	Species of Interest	Research and Information
19	Ecology of Focal Wetland Species: The Western Painted Turtle in the Creston Valley	Creston Valley	VAST Resource Solutions Inc.	\$57,907	Small Lakes / Species of Interest / Upland/ Dryland Areas / Wetland & Riparian	Research and Information, Habitat Based, Species Based, Monitoring and Evaluation
20	Identifying and securing bat hibernation habitat in the southern Columbia Basin in preparation for the spread of White Nose Syndrome	Columbia Basin	WCS Wildlife Conservation Society Canada	\$27,757	Species of Interest	Research and Information, Species Based, Monitoring and Evaluation
21	Indian Creek Riparian and Wetland Restoration - Phase 1	Creston Valley	Masse Environmental Consultants Ltd.	\$35,252	Wetland and Riparian Areas	Habitat Based
22	Revelstoke Caribou Maternity Pen Project	Revelstoke	Revelstoke Caribou Rearing in the Wild Society	\$70,000	Species of Interest	Species Based
23	Wetland invertebrate assessment tool: prioritizing wetlands for restoration and conservation	Slocan Valley	Slocan River Streamkeepers	\$18,302	Wetland and Riparian Areas	Research and Information
24	Advancing Wetland Stewardship and Restoration in the East & West Kootenays	South Kootenay	BC Wildlife Federation	\$38,200	Wetland and Riparian Areas	Habitat Based
25	Reptile at Risk Conservation Project	Trail	Jakob Dulisse Consulting	\$14,803	Upland/Dryland Areas	Habitat Based, Species Based, Monitoring and Evaluation
26	Columbia Valley -Management and Restoration of Invasive Plants in Protected Areas (CV-MRIPPA)	East Kootenay	East Kootenay Invasive Plant Council	\$10,000	Upland and Dryland, Wetland and Riparian	Habitat Based
27	Abundance and Connectivity of Wolverine in the South Columbia Mountains	South Kootenay	Seepanee Ecological Consulting	\$42,661	Large Lakes	Research and Information, Habitat Based
28	Fish Lake Western Toad Inventory and Highway 31A Toad Mortality Study: 2015 and 2016	Fish Lake, near New Denver	Valhalla Wilderness Society	\$5,000	Large Lakes	Species Based, Monitoring and Evaluation
29	Meadow Creek Bear Education and Management Project	Meadow Creek	BC Conservation Foundation	\$26,135	Large Lakes	Research and Information, Monitoring and Evaluation
WILDLIFE GRANT-BASED TOTAL				\$373,985		
GRANT-BASED PROJECTS TOTAL				\$769,975		

Annual/Ongoing Core Fish and Wildlife Projects

Fish Projects

#	Project Title	FWCP Contribution	FWCP Action Plan
41	Arrow Lakes Reservoir Nutrient Restoration Program	\$834,635	Large Lakes
42	Kootenay Lake Nutrient Restoration Program	\$812,113	Large Lakes
43	Hill Creek Spawning Channel	\$171,578	Large Lakes
44	Meadow Creek Spawning Channel	\$178,212	Large Lakes
45	Columbia River White Sturgeon	\$230,000	Species of Interest
FISH TOTAL		\$2,226,538	

Wildlife Projects

#	Project Title	FWCP Contribution	FWCP Action Plan
46	Land Management Operations	\$351,739	Upland & Dryland / Riparian & Wetlands
47	West Kootenay Enhancement	\$245,468	Upland & Dryland
48	East Kootenay Enhancement	\$425,408	Upland & Dryland
49	Non-game Enhancement	\$172,927	Species, Riparian & Wetlands, Upland & Drylands, Small lakes; Large Lakes
50	Caribou Recovery	\$100,527	Species of Interest
51	Northern Leopard Frog Program	\$183,403	Species of Interest
52	Wetland Riparian Enhancement	\$137,037	Riparian and Wetlands
53	Land Securement	\$436,531	Species; Riparian & Wetland, Upland & Drylands, Small Lakes; Streams; and Large Lakes
WILDLIFE TOTAL		\$2,053,040	
2015-2016 CORE PROJECTS TOTAL		\$4,279,578	

Note: Core fish and wildlife projects are delivered with support from the Ministry of Forests Lands and Natural Resource Operations through a letter of agreement.

TOTAL PLANNED PROJECT SPENDING 2015-2016	\$5,049,553	
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Table 4.3: UKEEP Grant-based Projects

2015-2016 UKEEP (Upper Kootenay Ecosystem Enhancement Plan) Projects						
UKEEP Grant-based Fish Projects						
#	Project Title		Project Lead	FWCP/CBT Contribution	Align with FWCP Action Plan	Project Type
30	Evaluation of Current Westslope Cutthroat Trout Hybridization Levels in the Upper Kootenay Drainage		Ministry of Forests, Lands and Natural Resource Operations	\$46,727.50	UKEEP Lakes Action Plan	Research and Information
31	Upper Kootenay Stream Crossing Remediation		Freshwater Fisheries Society of BC	\$96,630.80	UKEEP Streams Action plan	Habitat based
32	High Resolution Conductivity and Temperature Project - The Role of Groundwater and Channel Morphology in Redd Site Selection by Westslope Cutthroat Trout and Bull Trout		Ktunaxa Nation Council	\$25,000.00	UKEEP Streams Action plan	Research and Information, Species based, Habitat Based, Monitoring and Evaluation
33	Koocanusa Reservoir Sensitive Habitat Inventory Mapping		Wildsight	\$45,830.00	UKEEP Lakes Action Plan	Research and Information
UKEEP Grant-based Fish Projects Sub-total				\$214,188.30		

UKEEP Grant-based Wildlife Projects						
#	Project Title		Project Lead	FWCP/CBT Contribution	Align with FWCP Action Plan	Project Type
34	Sheep Pasture Grassland Ecosystem Restoration		Rocky Mountain Trench Natural Resources Society	\$60,000.00	UKEEP Upland/ Dryland	Habitat Based
35	Upper Kootenay Amphibian Monitoring Project		Jakob Dulisse Consulting and Integrated Ecological Research	\$43,896.50	UKEEP Species of Interest	"Species-based
36	Wycliffe Wildlife Corridor Grasslands Ecosystem Restoration		Rocky Mountain Trench Natural Resources Society	\$60,000.00	UKEEP Upland/ Dryland	Monitoring & Evaluation"
37	Tobacco Plains Grassland and Open Forest Ecological Restoration Project		Keefer Ecological	\$51,235.00	UKEEP Upland/ Dryland	Habitat Based
38	Upper Kootenay-Management and Restoration of Invasive Plants in Protected Areas (UK-MRIPPA)		East Kootenay Invasive Plant Council	\$25,000.00	UKEEP Wetland and Riparian	Habitat Based
39	Kootenay Mule Deer Monitoring		Ministry of Forests, Lands and Natural Resource Operations	\$24,520.00	UKEEP Upland/ Dryland	Species Based / Habitat Based
40	East Kootenay Urban Mule Deer Translocation Trial		Vast Resource Solutions, Inc.	\$34,475.00	UKEEP Species of Interest	Research and Information / Species Based Actions
UKEEP Grant-based Wildlife Projects Sub-total				\$299,126.50		

UKEEP Directed Projects						
#	Project Title		Project Lead	FWCP/CBT Contribution	Align with FWCP Action Plan	Project Type
41	Elk Valley Elk Project		Sparwood Fish and Wildlife Ass't	\$49,910.00	UKEEP Upland / Dryland	Species Based
42	Kookanusa Kokanee Enumeration		VAST Resource Solutions Ltd	\$37,620.00	UKEEP Streams	Research and Information
43	Koocanusa Burbot Enumeration		Lotic Environmental Ltd	\$39,400.00	UKEEP Lakes	Species Based
UKEEP Directed Projects Sub-total				\$75,000		
2015-2016 UKEEP PROJECTS TOTAL				\$513,314.80		



FWCP display set up at Kaslo Winter Fest in February 2016.

