

Survey of the State of Education in the Upper Columbia

***Collected for the Columbia Wetlands Stewardship
Partners***

***Survey conducted in partnership with the
BC Wildlife Federation's Wetlands Education Program***

Scope of Survey

This survey and its findings are intended for the sole use of the Columbia Wetlands Stewardship Partners and their associates. The subsequent analyses of the survey responses are to give an overview of the state of wetland education in the Upper Columbia region, in the objective of determining potential gaps, overlapping efforts, or other information regarding the current scope of education as it pertains to the goals of the CWSP. Please note that this survey and its respondents do not intend to fully encompass the extent of wetland educational programs in the Upper Columbia, accounting for non-respondents or programs not encompassed within the scope of the Partners.

Background

The Columbia Wetlands Stewardship Partners held a strategic planning session during their AGM on May 19, 2016. The intent of the session was to guide future work of CWSP by determining where they should focus their collaborative efforts. Attendees accomplished this by scoring proposed projects across three categories (“Effective Management”, “Stewardship”, and “Education”). During this meeting, several initiatives within the category of education received among the highest. Of note, these initiatives included:

- “Communication strategy for education, activities, and information”
(Ranked highest among all 19 potential initiatives listed including initiative across all categories)
- “Wetlands education in schools”
(Ranked 2nd highest among all 19 potential initiatives listed including initiative across all categories)

However, any refinement of these themes for the purposes of advancing CWSP initiatives was not explored further during the meeting. Members of the Partners contacted the BC Wildlife Federation’s Wetlands Education Program in the interest of advancing wetland education in the Upper Columbia region of the Province. The BC Wildlife Federation proposed conducting a survey at the subsequent Annual General Meeting of the CWSP on June 29, 2017 in order to explore gaps and opportunities in the realm of wetland education in the Columbia. The Executive Board subsequently

supported that information be collected through member interviews. Interviews were conducted with 17 Partners via email or telephone in Summer 2017. This document summarizes the findings.

Four questions were asked of members, these included:

1. Can you describe any wetland specific educational programs that your organization is involved with?

- *Purpose of Question: to synthesize the state and breadth of wetland education related initiatives in the Upper Columbia. Note: this question was supplemented by a collation of publicly available information provided by various Partners.*

2. Have you identified any overlaps in wetland education in the Upper Columbia (ex: overlaps in audience, material covered, use of areas, etc.)?

- *Purpose of Question: to determine if there was duplication of efforts in certain programs. Based on early conversations with some Partners, overlap of programming from various groups was thought to possibly exist. Duplication doesn't necessarily indicate a problem, but can reveal areas that are well covered, that could be further analyzed for consistency in messaging, or that could be explored further to identify how they may complement one another.*

3. Have you identified any gaps in education in the Upper Columbia (ex: audiences not being targeted, information not being shared, etc.)?

- *Purpose: to determine if there were areas within the broad realm of education that require further attention by either the CWSP or one of its partners.*

4. What do you, as a representative of an organization, see as the potential role for the CWSP in advancing wetland education?

- *Purpose: to provide further direction to CWSP regarding the work they should consider as a collaborative based on partners' perceptions of their role.*

Key Findings:

Compilation of wetland education related initiatives: Of the partners who participated in the survey, 10 partners were delivering 34 wetland education related initiatives (See Appendix B) with Wildsight and Lake Windermere Ambassadors involved in the majority of these initiatives (i.e. 12 and 9 respectively). 9 initiatives were categorized as basin wide, and the remainder are more localized (See Figure 1 and Appendix C). The subject matter ranged from specific focal topics (e.g. species specific or boat safety) to more general topics (e.g. wetland ecology or sustainability) (See Figure 2 and Appendix D).

Overlaps: Majority of survey respondents (82.3%) believed there to be few to no overlaps in current wetland educational programs or were unable to identify overlaps. In opposition to this, 17.6% of respondents acknowledged overlaps between programs targeting school-aged children such as CBEEN and Wildsight, as well as wetland education courses such as those offered by Wildsight and the Lake Windermere Rod & Gun Club in partnership with the BCWF.

Gaps: Gaps in education largely fit into 3 categories: legislation, science/academia, and user groups. Respondents noted the gap between wetland value and incorporating wetlands into several scales of governance. Examples provided included the need for wetland value to be integrated in Official Community Plans and a lack of leadership by local governments or NGOs in terms of coordinating existing wetland programs. Science-based information gaps include a lack of definition and digitization of the Columbia River's main channel, a proper inventory of high-elevation wetlands, assessment of beaver impacts on wetland ecology and structure, and lack of knowledge of the impact of the CPR railway (specifically the effects of coal dust). Emphasis on user groups such as the general public, second home owners, tourists, and trail users needing more education for proper trail use and avoidance of sensitive areas was strong, calling for larger educational campaigns. The need for technical knowledge in

regards to property maintenance and conservation for farmers and ranchers was specified, with the suggestion of a forum for peer-to-peer information sharing and collaboration.

Role of Columbia Wetlands Stewardship Partners: When questioned regarding the potential role of the CWSP in advancing wetland education, the majority of respondents (64.7%) indicated that CWSP's best use would be as a facilitator between the diverse range of organizations in the Upper Columbia. Facilitation, organization, and communication between groups were the most frequent responses; the CWSP was determined to be best suited to act as a conduit between organizations of similar focus, minimize overlaps, target gaps, and share information.

Going Forward

The information compiled through this Partner survey helps to summarize the state of wetland education initiatives, as well as identify overlaps and opportunities for advancing the effectiveness of wetland education for the purposes of improved stewardship and conservation. The survey results can help inform the development of any future "Communications Strategy for education, activities, and information" should the Columbia Wetland Stewardship Partnership decide to develop a such a strategy (i.e., as identified as a key priority in 2016).

The survey found that most respondents consider the CWSP as a conduit for facilitating dialogue among groups in the realm of education. The Partnership is well situated to support cross-organizational collaboration. Should a "Communications Strategy" move forward, among other things it could:

- Set goals within the Upper Columbia watershed for school-based education (e.g. every child in grade 3 will visit the Columbia wetlands; or each school will have at least one teacher designated as a wetland ambassador) and work with Partners to identify their respective roles. Of note, 9 initiatives already directly focus on schools or children.

- Prioritize the development of new education programs targeting specific audiences based on identified threats or potential gains (e.g., trail users, developers, local government) with programs that could be picked up by Partners or championed through the CWSP leadership – as appropriate. The survey identified that education and “buy-in” was still needed for some key target audiences.
- Develop communication platforms and work plans for information sharing and involvement on relevant topics including: ongoing research, education initiatives, and policy dialogue. The survey identified that CWSP is a suitable conduit for facilitating information exchange among the Partners.

These options are not exhaustive but provide an example of some of the elements that could be included in a Communications Strategy. It will be up to the CWSP to decide how they wish to move forward; either through development of a comprehensive communications strategy, prioritizing elements of a strategy, or otherwise.

Survey Respondents:

- **Nola Alt**
Columbia Wetlands Stewardship Partners,
Secretary Treasurer
Friends of the Columbia Wetlands
- **Wendy Booth**
Regional District of East Kootenay - Area F, *Vice-Chair and Electoral Area Director*
- **Jim Clarricoates**
Canadian Columbia River Inter-Tribal Fisheries Commission, Senior Fisheries Technician
- **Rick Hoar**
Columbia Wetlands Stewardship Partners, *Vice President*
Lake Windermere District Rod & Gun Club,
President
- **Richard Klafki**
Nature Conservancy of Canada, *Stewardship Coordinator, Canadian Rocky Mountains*
- **Ross MacDonald**
Wings Over the Rockies
- **Biaba Morrow**
Wildsight – Invermere, *Regional Director and Invermere Branch President*
- **Nolan Rad**
BC Trapper’s Association
- **Clara Reinhardt**
Village of Radium Hot Springs, *Mayor*
- **Rachel Darvill**
Wildsight - Golden, *Golden CWWS Program Biologist and Branch Director*
- **Maryann Emery**
Golden Outdoor Recreation Society
- **Tim Eugen**
Shuswap Band, *Councilor*
- **Kat Hartwig**
Living Lakes Canada, *Executive Director*
- **Taoya Schaefer**
Lake Windermere Ambassadors
- **Mark Teasdale**
Columbia Wetlands Adventures
- **Gerry Wilkie**
Regional District of East Kootenay – Area G,
Electoral Area Director
- **Dave Zehnder**
Farmland Advantage, *Project Lead*

NUMBER OF EDUCATIONAL PROGRAMS PER AREA

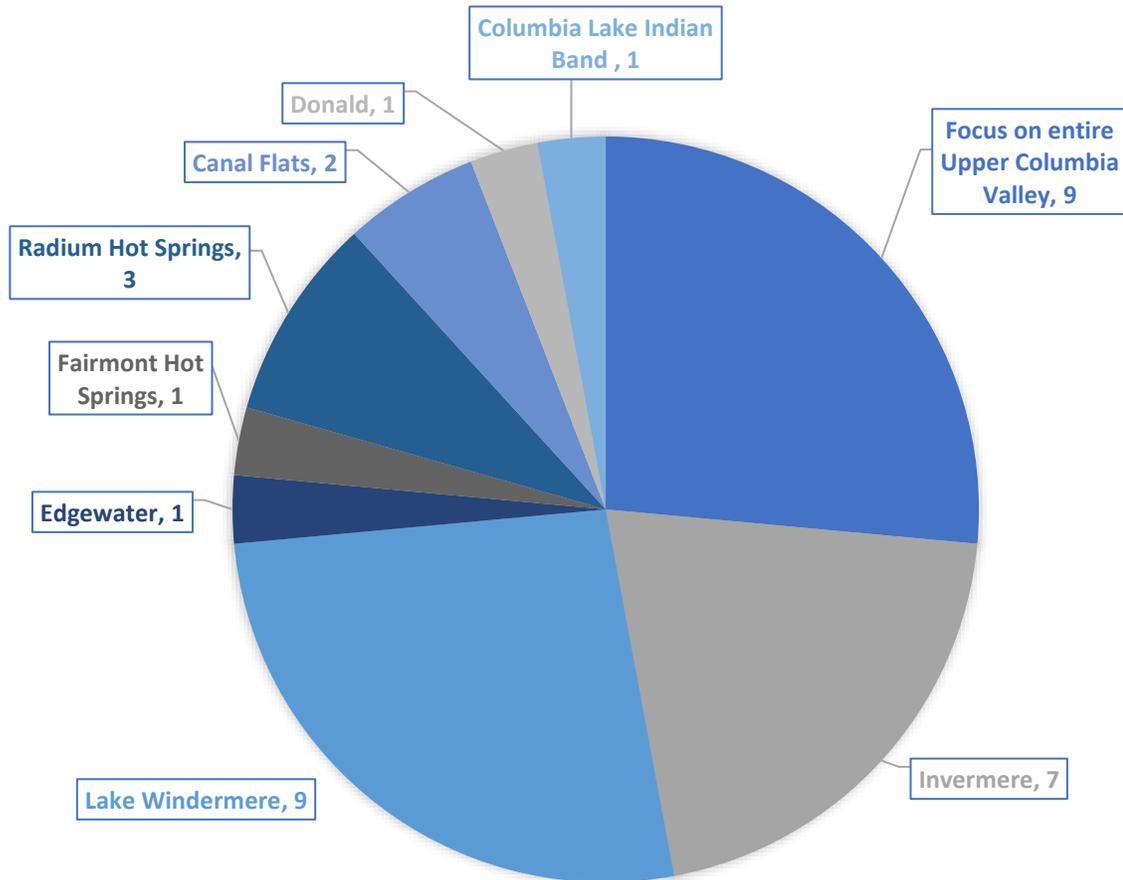


Figure 1: Number of educational programs per area, as expressed through the survey. Note that this list is not exhaustive, accounting for non-respondents or programs not encompassed within the scope of the Partners. Please regard the figure with the understanding of potential errors.

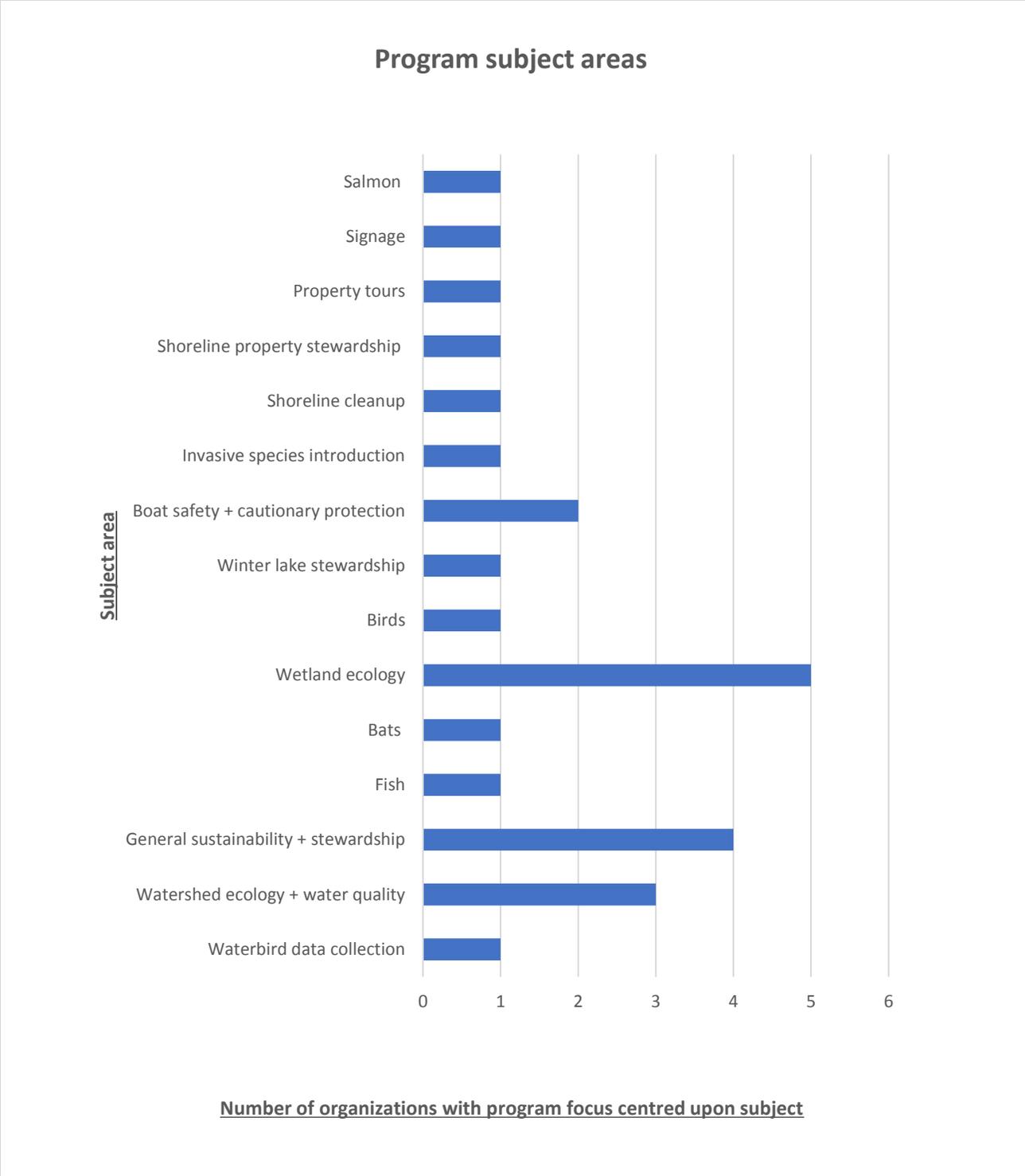


Figure 2: Program subject area, displayed by number of organizations sharing educational program focus.

CURRENT TARGET AUDIENCES BY NUMBER OF PROGRAMS

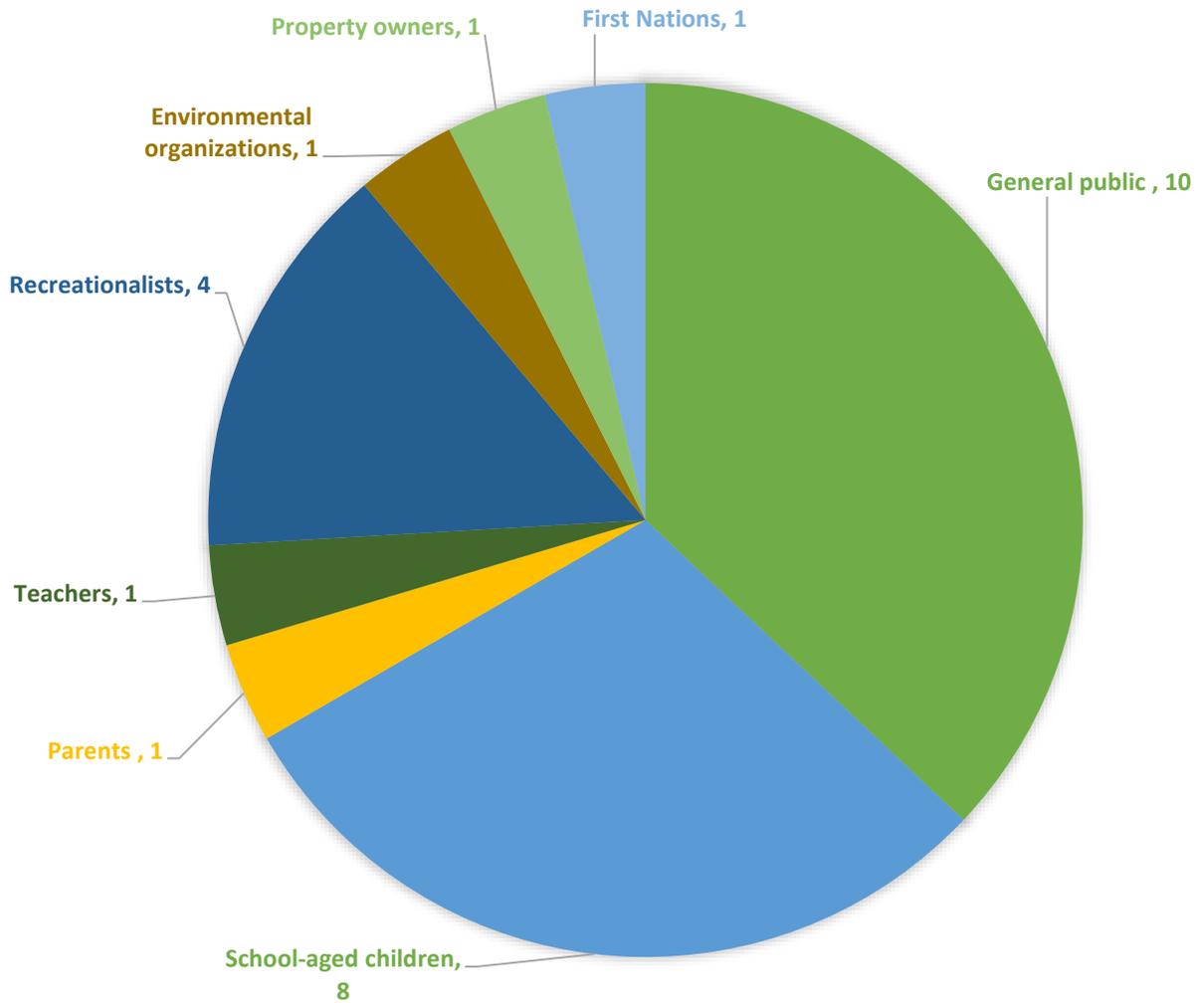


Figure 3: Target audiences as categorized following survey responses. Audiences grouped by similar target focus, for example “School-aged children” and “children” were categorized together under the name “School-aged children”. Numbers indicate the quantity of responses indicated the appropriate target audience.

DISTRIBUTION OF RESPONDER-IDENTIFIED GAPS

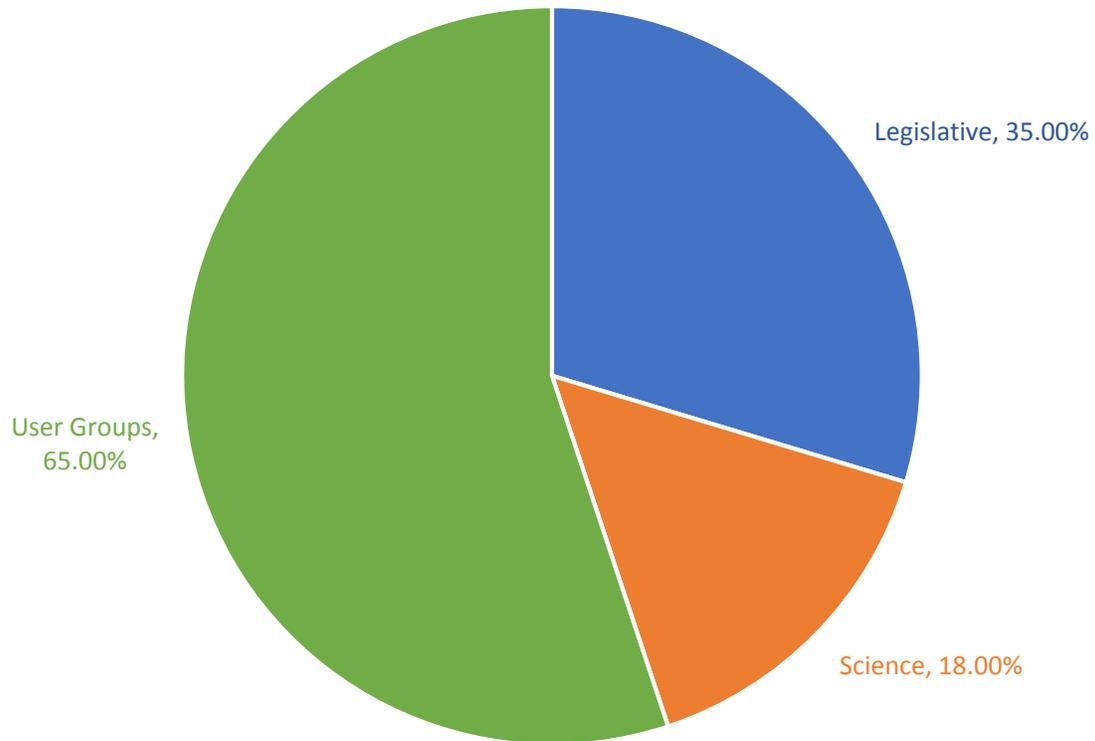


Figure 4: Analysis of responses indicated in “gaps in education” question. Categories were determined following the analysis of major themes in responses. “User groups” pertains to a lack of education targeted towards specific groups, such as second homeowners, farmers, tourists, boaters, and the general public. Note: total percentage is greater than 100 as some respondents identified multiple gaps.

APPENDIX A: Questions and responses from Survey

Question 1: Please describe any wetland specific educational programs that your organization is involved with.

- A) None stated.
- B) None stated.
- C) No specific programs, they provide financial support through the Kootenay Conservation Fund.
- D) No specific programs, they provide financial support (political will) to the Lake Windermere Ambassadors, Columbia Lake Stewardship Society, CBEEN, Columbia Lake Stewardship Partners.
- E) See "Overview of Programs".
- F) No specific programs, they provide financial support.
- G) No specific programs, wetlands education is incorporated into Environmental Farm Plans.
- H) See "Overview of Programs".
- I) See "Overview of Programs".
- J) See "Overview of Programs".
- K) Annual festival intended to raise awareness and understanding of wetlands and wildlife of the Columbia River Trench from Canal Flats to Donald. Mandate is: public education, conservation, and sustainable economic benefits.
- L) See "Overview of Programs".
- M) See "Overview of Programs".
- N) None stated.
- O) See "Overview of Programs".
- P) See "Overview of Programs".
- Q) Small educational component to educating government regarding First Nations rights.

Question 2: Have you identified any overlaps in wetland education in the Upper Columbia (ex: overlaps in audience, material covered, use of areas, etc.)?

- A) Overlap between Wildsight workshops and LWDRGC wetland courses in partnership with BCWF.
- B) None stated.
- C) No overlaps identified.
- D) No overlaps identified --> different lakes operating in different areas, they share best practices but do not overlap.
- E) No overlaps identified.
- F) None stated.
- G) No overlaps identified.
- H) Hard to identify --> may be overlap between CBEEN, Know Your Watershed, Wild Voices
- I) Very little overlap.
- J) None stated.
- K) There are many overlaps in wetland education programming. This is expected and inevitable. My concern is that the wetlands information is presented to the various audiences accurately, consistently and effectively.
- L) None stated.
- M) No overlaps identified.
- N) None stated.
- O) None stated.

- P) Overlap between CWSP + Federal government + Provincial government in regards to sharing information regarding horsepower restrictions on river.
- Q) None stated.

Question 3: Have you identified any gaps in education in the Upper Columbia (ex: audiences not being targeted, information not being shared, etc.)?

- A) No leadership role taken on by government or NGOs in terms of coordinating wetland education. NGOs = focus on what they can fund, schools = focus on curriculum, government = focus on public or business concerns.
- B) No information regarding influence of beaver on wetland impact, would like to see study done
- C) Wetland value is not included in Official Community Plans (OCPs).
- D) None stated.
- E) Education on sensitivities of marsh areas during breeding periods (target recreationalists); main channel of river is not digitized, mapped or defined; enforcement of regulations; high elevation wetland inventory.
- F) None stated.
- G) Farmers are lacking technical knowledge of buffers, adequate fencing, etc.; opportunity for peer- to-peer informal sharing of knowledge/technical training.
- H) General understanding of wetland significance is low, industry is too focused on profit; there needs to be broadening of base for funding, strengthening of existing programs vs. creating new programs.
- I) Visitors and second homeowners are unaware of wetland ecology and the interconnectedness of water systems; there is lack of knowledge on the impacts of the CPR railway near wetlands (particularly coal dust).
- J) None stated.
- K) There is no collective communication / education strategy for all partners to use. Goals and measurable objectives targeted by audience, content, messages, potential public stewardship (citizen science) actions.
- L) None stated.
- M) The general public is not currently targeted (often focused to 2nd home owners, locals, bird enthusiasts, etc.).
- N) General public needs to have awareness + appreciation of wetland value, so they leave it as it is.
- O) Focused on academia, misses opportunity for general public to be involved.
- P) Akisqnuk is not able to reach decision makers on Coast; gap in workforce since DFO closed Interior offices.
- Q) First Nations rights have not been represented in government relations; First Nations history + cultural understanding is lacking in general public knowledge.

Question #4: What do you, as a representative of an organization, see as the potential role for the CWSP in advancing wetland education?

- A) CWSP should be drafting an education program for the Columbia wetlands, and using the Partners expertise to complete portions of the program. That which the Partners are unable to advance should be contracted out.
- B) None stated.
- C) Use the strength of the group's individual organizations for collaboration + communication. Strength is the diversity of membership.
- D) Target the gaps once identified.
- E) Unsure, difficult to complete 1 task amongst large + diverse group; communication + forum for stakeholder discussion is key role; potential option for signage along main channel boundaries.
- F) None stated.
- G) Help to facilitate meetings, act as facilitator for contacts + experts to be brought in.
- H) CWSP needs to be focused on results-oriented projects, ex: beaver surveys + historical context needs to be assessed, potential for introducing more beavers into area.
- I) Bringing groups together, facilitator for collaboration + communication; potential option for signage in popular areas.
- J) Columbia Wetlands Outpost (CWO) could support a coordinated approach to environmental education in order to increase capacity, reduce overlap, and make best use of limited funding. By nature of its partnership structure, CWSP is in a position to act as a conduit between partners so that they might share resources, take advantage of local knowledge, and learn from the experience of others.
- K) Ideally, partners will be able to refer to such a strategy for fundraising, collaborative projects and reporting. I would like to see all partner stewardship projects include an education component.
- L) Collaboration between organizations, fill in gaps if they are identified.
- M) The CWSP's role is acting as a forum for collaboration + communication between organizations.
- N) None stated.
- O) Academia focus must be shifted, increase public investment in the protection and restoration of wetlands; there is a mindset of intent focus on the Columbia, use it to profile the value of the wetlands
- P) Act as guardians of the River; their role is to increase public knowledge of the value of wetlands, and ameliorate public stewardship, for greater collaborative protection
- Q) Facilitator for communication; would like to see CWSP assisting with educating on First Nations history.

APPENDIX B: Overview of Programs

Name of Program	Program Description	Material Focus	Targeted audience	Status of project	Region
Columbia Wetlands Waterbird Survey (Wildsight + others)	Citizen-science focus: data collected over 3 days during migratory period (spring + fall) citizens gather baseline data	Waterbird data collection	General public, K-12	Active	Between Canal Flats and the Moberly River (Golden)
Know Your Watershed (Columbia Basin Trust + Wildsight)	Grade 9 students taught watershed ecology + management (dam history, the Columbia River Treaty, climate change, etc.) --> given a grant to fulfill their desired project in their community	Watershed ecology	K-12	Active	Throughout the Columbia Valley
Beyond Recycling (Wildsight)	In-class activities and field trips that explore issues relevant to sustainability	General sustainability	K-12	Active	Throughout the Columbia Valley
Classroom with Outdoors --> Education In The Wild (Wildsight)	Course (K-12)--> details not on website		K-12	Active	Throughout the Columbia Valley
Eco-stewards --> Education In The Wild (Wildsight)	Stewardship projects that arose from Ed in the Wild programs --> wildsight helps facilitate student projects lead by teachers	General sustainability	K-12	Active	Throughout the Columbia Valley
Winter wonder --> Education In The Wild (Wildsight)	Course (K-12)--> details not on website		K-12		Throughout the Columbia Valley
School aged fish projects (Wildsight)	Lead by Joan Dolinsky - Wildsight, Invermere	Fish	K-12	Active	Invermere
Bat box projects (Wildsight)	Lead by Joyce deBoer - Wildsight, Golden	Bats	General public	Active	Golden

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Wild Nature Tours (Wildsight)	None stated	General wildlife	General public	Active	Invermere
Bird Watching Tours (Wildsight)	None stated	Birds	General public	Active	Invermere
Film nights (Wildsight)	Screenings of documentaries, films, etc. relevant to general environmental information	General sustainability	General public	Active	Invermere
Wetland awareness program (Wildsight)	Upcoming project	Wetland ecology + boat safety	Recreationalists	Upcoming	Regional Wildsight
Guided float trips (Columbia Wetlands Adventures)	Insights into wetland ecology, geology, geography + history provided during guided tours of wetlands	Wetland ecology	General public	Active	Golden
School-aged wetland fieldtrips (Columbia Wetlands Outpost)	Fieldtrips to local wetlands, to increase awareness of ecology + ecosystem services	Wetland ecology + ecosystem services	K-3; Parents; Teachers	Active	Regional Golden
Water quality monitoring (Living Lakes Canada)	Citizen science data collection, to create water literate people for data to be integrated into policy	Water quality	General public	Active	Throughout Columbia region
Wings Over the Rockies wildlife festival	Annual festival intended to raise awareness and understanding of wetlands and wildlife of the Columbia River Trench from Canal Flats to Donald. Mandate is: public education, conservation, and sustainable economic benefits.	General wetland ecology	General public; K-12	Active	From Canal Flats to Donald
Whiteway Ambassador Project: Winter Stewardship of the Lake (Lake Windermere Ambassadors)	Cultivate awareness of winter stewardship of Lake Windermere	Winter lake stewardship	Winter recreationalists	Active	Lake Windermere

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The Cost of Restoration (Lake Windermere Ambassadors)	Educate website users on the economic benefits of protection + precaution over restoration	Protection mechanisms	Community groups (Lake Windermere website users, lake users)	Active	Lake Windermere
Green Boating Guide (Lake Windermere Ambassadors)	A guidebook of best practices for "Green Boating" that gives tips to regulate oil spills, invasives introduction, damage to habitat and other harmful effects	Protection mechanisms	Motorized boat users	Active	Lake Windermere
Science: Water Quality (Lake Windermere Ambassadors)	Citizen-science focused on volunteers that are trained with specialists to conduct water quality assessments through pH testing, turbidity, conductivity, etc.	Water quality	General public	Active	Lake Windermere
Lake Monitoring (Lake Windermere Ambassadors)	Citizen-scientists assess water quality at 3 sites throughout Lake Windermere + bacteria levels at 3 beaches	Water quality	Community groups (volunteers)	Active	Lake Windermere
Don't Move a Mussel! (Lake Windermere Ambassadors)	Outreach initiative to prevent the introduction of Zebra & quagga mussels into lake systems (brochures --> informational))	Invasive species introduction	Community groups (lake users, kayakers, motorized boat enthusiasts)	Active	Throughout Columbia region
Watershed Awareness (Lake Windermere Ambassadors)	Community events, workshops and guided tours to educate on watershed protection and areas for partnership + regulatory meaning	General wetland stewardship	Community groups (interested users)	Active	Throughout Columbia region
Shoreline cleanups (Lake Windermere Ambassadors)	Posters, Facebook, wetland + lake ecology	Shoreline cleanup	All audiences	Active	Lake Windermere
Green Shores For Home (Lake Windermere Ambassadors)	Encouraging shoreline property owners to remove hard liners and replace w/ natural substances to promote wildlife habitat	Shoreline property stewardship	Shoreline property owners	Upcoming	Lake Windermere

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Property tours (Nature Conservancy Canada)	Upon request due to limited capacity, NCC properties are allowed access (Columbia Lake Lot 48, Edgewater)	Property tours	Environmental organizations	Active	Edgewater, Invermere, Salmo, Creston, Fairmont Hot Springs, Fernie
Trail signage (Village of Radium Hot Springs)	Along self-guided trails, working on access points for paddlers + interpretive signs demonstrating ecology	Signage	General public	Active	Radium Hot Springs
Salmon restoration (Akisqnuq First Nation)	Ecological function assessment + restoration of salmon habitat on traditional lands	Salmon	Akisqnuq First Nation	Active	Akisqnuq territory

APPENDIX C: Educational Program by Area

Program Name	Upper Columbia Valley	Invermere	Golden	Lake Windermere	Edgewater	Fairmont Hot Springs	Radium Hot Springs	Canal Flats	Donald	Columbia Lake Indian Band
Columbia Wetlands Waterbird Survey (Wildsight + others)		X	X				X	X		
Know Your Watershed (Columbia Basin Trust + Wildsight)	X									
Beyond Recycling (Wildsight)	X									
Classroom with Outdoors --> Education In The Wild (Wildsight)	X									
Eco-stewards --> Education In The Wild (Wildsight)	X									
Winter wonder --> Education In The Wild (Wildsight)	X									
School aged fish projects (Wildsight)		X								
Bat box projects (Wildsight)			X							
Wild Nature Tours (Wildsight)		X								
Bird Watching Tours (Wildsight)		X								
Film nights (Wildsight)		X								
Wetland awareness program (Wildsight)	X									
Guided float trips (Columbia Wetlands Adventures)			X							
School-aged wetland fieldtrips (Columbia Wetlands Outpost)			X							

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Program Name	Upper Columbia Valley	Invermere	Golden	Lake Windermere	Edgewater	Fairmont Hot Springs	Radium Hot Springs	Canal Flats	Donald	Columbia Lake Indian Band
Water quality monitoring (Living Lakes Canada)	X									
Wings Over the Rockies wildlife festival	X	X	X				X	X	X	
Whiteway Ambassador Project: Winter Stewardship of the Lake (Lake Windermere Ambassadors)				X						
The Cost of Restoration (Lake Windermere Ambassadors)				X						
Green Boating Guide (Lake Windermere Ambassadors)				X						
Science: Water Quality (Lake Windermere Ambassadors)				X						
Lake Monitoring (Lake Windermere Ambassadors)				X						
Don't Move a Mussel! (Lake Windermere Ambassadors)				X						
Watershed Awareness (Lake Windermere Ambassadors)				X						
Shoreline cleanups (Lake Windermere Ambassadors)				X						

APPENDIX D: Educational Program by Focus Material

Program Name	Salmon	Signage	Property Tours	Shoreline property	Shoreline clean-up	Boat safety	Lake stewardship	Birds	Bats	Fish	General wetland ecology/sustainability	Watershed ecology	Data collection	Invasive Species
Columbia Wetlands Waterbird Survey (Wildsight + others)								X					X	
Know Your Watershed (Columbia Basin Trust + Wildsight)												X		
Beyond Recycling (Wildsight)											X			
Classroom with Outdoors --> Education In The Wild (Wildsight)											X			
Eco-stewards --> Education In The Wild (Wildsight)											X			
Winter wonder --> Education In The Wild (Wildsight)											X			
School aged fish projects (Wildsight)										X				
Bat box projects (Wildsight)									X					
Wild Nature Tours (Wildsight)											X			
Bird Watching Tours (Wildsight)								X						
Film nights (Wildsight)											X			
Wetland awareness program (Wildsight)						X					X			
Guided float trips (Columbia Wetlands Adventures)						X					X			

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Program Name	Salmon	Signage	Property Tours	Shoreline property	Shoreline clean-up	Boat safety	Lake stewardship	Birds	Bats	Fish	General wetland ecology/sustainability	Watershed ecology	Data collection	Invasive Species
School-aged wetland fieldtrips (Columbia Wetlands Outpost)											X			
Water quality monitoring (Living Lakes Canada)												X	X	
Wings Over the Rockies wildlife festival											X			
Whiteway Ambassador Project: Winter Stewardship of the Lake (Lake Windermere Ambassadors)											X			
The Cost of Restoration (Lake Windermere Ambassadors)				X										
Green Boating Guide (Lake Windermere Ambassadors)						X								
Science: Water Quality (Lake Windermere Ambassadors)												X	X	
Lake Monitoring (Lake Windermere Ambassadors)												X		
Don't Move a Mussel! (Lake Windermere Ambassadors)														X
Watershed Awareness (Lake Windermere Ambassadors)											X			

