Crown LCD Leadership Meeting Notes Feb 25, 2020

Action Items:

What?	Who?	When?
Follow up on	Sean	Before 24 March
recommendations for		
additional stakeholders		
Think about your, and your	Everyone	Next 2 months (by mid-April)
organizations, vision of a		
future Crown; review slides		
Review and synthesize key	Analysts and Technical Team	Before April Leadership Team
elements from existing plans		call
Consider this geography.	Everyone	Before 24 March phone call
What makes sense for the		(this will be a priority topic of
extent of our landscape		the call)
design?		

Meeting Notes and Materials:

Recording: https://meet39041854.adobeconnect.com/pfofe5hikedv/

Presentation Slides: Attached

CMP geography metadata: Attached

High Points:

Solicit leadership support: Who is missing?

<u>Paul McKenzie:</u> Private Agriculture and small private forest landowners <u>Linh Hoang (USFS):</u> It might depend on what the key focus issues/species the team decides to focus on. There are several other specific groups like TU or other orgs that are specific to a resource.

Aubin D.: Montana Audubon

Action: Sean will follow up with Paul; also reach out to Montana Audubon

Develop a Shared Vision

Linh Hoang (USFS): when we say "maximize" - maybe think about qualifying the statements to reflect that this is not in all places across the crown but where it makes sense and reflects ecological and social realities of now and the future

Action: Think about your, and your organizations, vision of a future Crown; review slides

Seek compatibility with other planning processes

Katie Morrison: http://www.southerneasternslopes.ca/

Tara Carolin: Re. Plans, Glacier's Foundation Document is more recent than our GMP. https://www.nps.gov/glac/learn/management/foundation-document.htm

Tracy Lee: AEP (Alberta Environment and Parks). 2018. Livingstone-Porcupine Hills Land Footprint Management Plan. Government of Alberta. Edmonton, AB.https://open.alberta.ca/dataset/18b70847-7d1e-462b-bc12-6aaaab2fb1ac/resource/61d7fda1-3034-414d-9c40-b7e939366316/download/livingstonephlandfootprintmgtplan-2018.pdf

Hilary Young: https://www.albertaparks.ca/media/6494620/castle_management_plan.pdf

Hilary Young: (Castle Parks Management Plan)

Tracy Lee: AEP (Alberta Environment and Parks). 2017. Livingstone-Porcupine Hills Recreation Management Plan. Government of Alberta. Edmonton, AB. https://open.alberta.ca/dataset/4c48e498-db57-48d9-8f47-92fc7de6a9d3/resource/722f794d-11b2-4391-b19c-f8c95f7aa5f5/download/livingstoneph-recreationmgtplan-2018.pdf

Linh Hoang (USFS): flathead national forest plan https://www.fs.usda.gov/detailfull/flathead/landmanagement/planning/?cid=stelprdb5422786 &width=full#Docs

Linh Hoang (USFS): Northern Rockies CC vulnerability assessment - vol 1 and 2

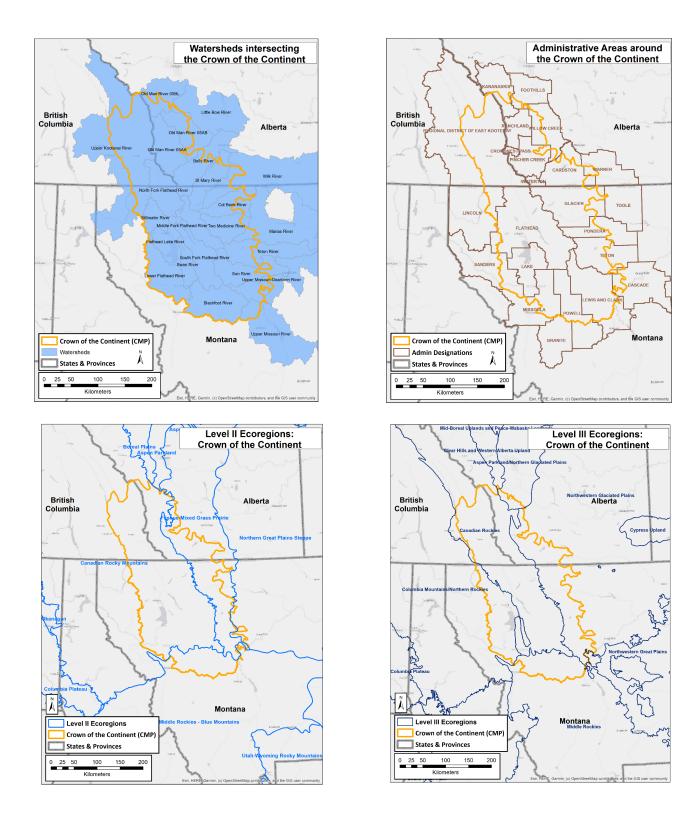
Linh Hoang (USFS): https://www.fs.usda.gov/treesearch/pubs/55974

Action: Technical Team will review and synthesize key elements of these and other plans

Define scope: geographic focus ... project area

Where will the design take place? How will we decide?

Tracy Lee: Much thought went into defining the Crown Managers Partnership's version of the Crown Ecosystem (orange line on maps below, metadata attached to email). It is widely used, suggest we only change this boundary it there is good reason to.



Action: Consider this geography. What makes sense for the extent of our landscape design? A key point of discussion/decision on our March 24 phone call.

... if certain features are comprehensively represented (e.g., habitat types, vascular plants, birds or biophysical domains) then they will act as reasonable surrogates for the rest of biodiversity ... likewise for social or economic features

Based on and related to 'other planning processes' and 'geographic focus' we will select a subset of features for the analytical portion of the design. More to follow.

Other info from call:

Sign-in

Sean Finn: Science Coordinator, US Fish and Wildlife Service

Mary McFadzen: Comms/Outreach Coordinator, Montana State Univ.

Bryan Wilson: Bryan Wilson Director-Individual Placements, Montana Conservation Corps Kris Inman: Kris Inman, Wildlife Conservation Society, Strategic Partnership & Engagement Rockies Region

Paul McKenzie: Paul McKenzie Lands & Resource Manager F.H. Stoltze Land & Lumber Co.

Natalie Poremba: Natalie Poremba, Crown Managers Partnership

Bray Beltran: Bray Beltran, Science Director, Heart of the Rockies Initiative (A land trust partnership working to increase the pace of private land conservation in the Intermountain West)

Katie Morrison: Katie Morrison, Conservation Director, Canadian Parks and Wilderness Society Southern Alberta Chapter

Kate Wilson, Montana DNRC: Kate Wilson, Montana DNRC, Flathead Basin Commission & Upper Columbia Conservation Commission

Anne Carlson: Anne Carlson, The Wilderness Society

Danielle Pendlebury: Danielle Pendlebury, Biodiversity Modeller, Lands Planning Branch, Alberta Environment and Parks

Constanza von der Pahlen: Constanza von der Pahlen, Critical Lands Program Director, Flathead Lakers; Flathead River to Lake Initiatiave coordinator/partner

Tracy Lee: Tracy Lee, Miistakis Institute, Senior Project Manager

Linh Hoang (USFS): Linh Hoang:; USFS Region 1, Regional Inventory, Monitoring, Assessment, and Climate Change Coordinator

Tara Carolin: Tara Carolin, Crown of the Continent Research Learning Center, Glacier National Park

Aubin D.: Aubin Douglas, USFWS Legacy Region 6, Division of Realty, GIS/Cartography Fellow Claudia Regan: Claudia Regan, Center Director - USGS Northern Rocky Mountain Science Center (NOROCK)

Hilary Young: Hilary Young, Senior Alberta Program Manager, Yellowstone to Yukon Conservation Initiative

Amy McLeod: Amy McLeod: Alberta Riparian Habitat Management Society, Provincial Riparian Specialist and Eastern Slopes Project Coordinator

Mike Durglo CSKT: CSKT

Aaron Petty: Aaron Petty - Modelling Lead Alberta Environment and Parks

Michael Jamison: Michael Jamison: Senior Crown of the Continent Program Manager, National

Parks Conservation Association

Dale Becker: Dale Becker, Tribal Wildlife Program Manager, Confederated Salish and Kootenai

Tribes

Mike Durglo CSKT: I need to step out for a few minutes.

Who is Missing?

Sean Finn: Please suggest organizations or individuals you'd like to see participate

Paul McKenzie: Private Agriculture and small private forest landowners

Linh Hoang (USFS): It might depend on wht the key focus issues/species the team decifdes to foucs on. There are several other specific groups like TU or other orgs that are specific to a resource.

Aubin D.: Montana Audubon

Your thoughts on a Shared Vision

Sean Finn: Please add your notes on a shared vision - do you like the idea? Why? Linh Hoang (USFS): when we say "maximize" - maybe think about qualifying the statements to reflect that hthis is not in all palces across the crown but where i tmakes sense and reflects ecologcial and social realities of now and the future

Identify Plans we should review

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Tara Carolin: Re. Plans, Glacier's Foundation Document is more recent than our GMP.

https://www.nps.gov/glac/learn/management/foundation-document.htm

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Linh Hoang (USFS): can we consdier recreation as part o fhte econ services?

Tracy Lee: draft Gb plan Alberta - https://docs2.cer-rec.gc.ca/ll-

eng/llisapi.dll/fetch/2000/90464/90550/554112/3422050/3575553/3575436/3689703/375443

6/A98015-3 AEP. 2016. Alberta Grizzly Bear %28Ursus arctos%29 Recovery Plan -

A6S1Y8.pdf?nodeid=3754439&vernum=-2

Attendees

Aaron Petty

Amy McLeod

Anne Carlson

Aubin D.

Bray Beltran

Bryan Wilson

Claudia Regan

Constanza von der Pahlen

Dale Becker

Danielle Pendlebury

Hilary Young

Kate Wilson, Montana DNRC

Katie Morrison

Kris Inman

Linh Hoang (USFS)

Mike Durglo CSKT

mjamison

Natalie Poremba

Paul McKenzie

principal-name

Tara Carolin

Tracy Lee

Sean Finn

Mary McFadzen

Landscape Conservation Design for the Crown of the Continent

Leadership Team 25 February 2020

Proposed Agenda

1. Introductions (11:00 – 11:20)

As we get used to working with each other we should get to know each other. The next few calls will carve out time for Team members to share some deeper background.

Please share your Name, Affiliation, relation to Crown geography, landscape-scale projects, partnerships or analyses you're working on

2. Review of the LCD Primer (see attached), focusing on "Initiate the LCD" (11:20 – 11:50) – Discussion, Q&A

- Plan for iteration
- Solicit leadership support
- Develop shared vision
- Seek compatibility with other planning processes
- Assess budgeting and resources
- Structure the process

3. Framing the LCD (11:50 - 12:10)

- Define scope: geographic focus ... project area
- Select conservation features

4. Other Topics, Discussion, Announcements (12:10 – 12:30)

Any Additions?

Please introduce yourself!

- Name
- Affiliation
- Relation to Crown geography
- Landscape-scale projects, partnerships or analyses you're working on



Catching Up To Speed

Landscape Conservation Design is ...

a partner-driven approach to achieve a sustainable, resilient socio-ecological landscape. It is an *iterative*, collaborative, and holistic process resulting in strategic and spatial products that provide information, analytical tools, maps, and strategies to achieve landscape goals

collectively held among partners.

Convener: Crown Managers Partnership

Seed Funding: US Fish and Wildlife Service

Principle Investigator: Sean Finn (FWS)

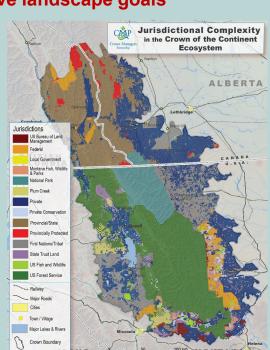
Lead Analysts: Natalie Poremba (CMP)

Phil Matson (FLBS)

Matt Heller (FWS)

Aubin Douglas (FWS)

Partners and Stakeholders: You!!!



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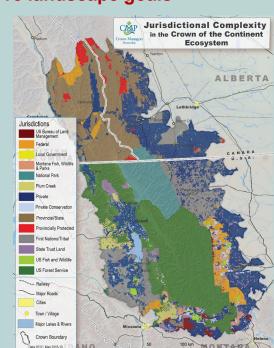
collectively held among partners.

Primer:



January Webinar:

https://meet39041854.adobeconnect.com/pk74m0spvj1p/



Initiating the LCD



Landscape Conservation Design (LCD) is a means to achieve a resilient, sustainable socio-ecological landscape by bringing stakeholders together to prioritize and coordinate actions on the ground. The approach empowers stakeholders at all levels of the decision-making process and optimizes operations by aligning actions to achieve outcomes at appropriate scales. Through an iterative, collaborative, and holistic process, the LCD results in maps, analytical tools, and strategies that enable stakeholders to achieve collective landscape qoals.

The LCD concept emerged as grassroots partner groups across North America initiated action-oriented, landscape-scale conservation planning with the support of Landscape Conservation Cooperatives (LCs). LCCs provided the platform for innovation: Staff and partners integrated multi-disciplinary approaches, vetted concepts, and developed a framework that is stakeholder-driven and informed by science.

This primer, based on Recommended Practices for Landscape Conservation Design (2018), is organized around the five components of the design process. Each component illustrates how an LCD might incorporate practices employed and vetted by existing designs. Key hallmarks in design development are recognition that landscape context, cross-disciplinary perspective, and availability of high-quality data benefits place-based conservation delivery. By working together to create and implement a landscape design, partners can more effectively conserve ecosystems and extend those benefits to human communities far into the future.

"Regional information really helps you focus. You can fine tune it with location information or field visits, but regional perspective gives you the broad brush to optimize, and then zoom into important areas you can verify." Alicia Losalbo, US Amy Corps of Engineers



- Plan for Iteration
- Solicit Leadership Support
 - Snowball approach

Alberta Culture and Tourism		
Alberta Environment and Parks		Invited
Alberta Tree Improvement and Seed Center		IIIVILEU
Aldo Leopold Wilderness Research Institute	Glacier National Park	
Bert Riggall Foundation	Government of BC	Stakeholders
Big Blackfoot Chapter of Trout Unlimited		Otalionolog
Blackfeet Nation	Heart of the Rockies	Regional District of East Kootenay
Blackfoot Challenge	Kainai-Blood Tribe	Rocky Mountain Front Weed Roundtable
Blood Tribe	Ktunaxa Nation	Rocky Mountain Research Station
British Columbia Ministry of FLNRO	Kootenai National Forest	Salish Kootenai College
Bureau of Land Management	Helena - Lewis and Clark National Forest	Sanders County, Montana
Canadian Council on Invasive Species	Lake County, Montana	Stimpson Timber Company
Canadian Forest Products	Lincoln County, Montana	Teck Resources
Canadian Parks and Wilderness Society	Lolo National Forest	The Nature Conservancy
Cardston County	Miistakas Institute	The Wilderness Society
Castle-Crown Wilderness Coalition		Trust for Public Lands
Chimney Rock Bed and Breakfast	Montana Conservation Corps	U.S. Fish and Wildlife Service
City of Lethbridge	Montana Department of Natural Resources and	U.S.G.S. Northern Rocky Mountain Science Center
Clark Fork and Kootenai River Basins Council	Conservation	University of Calgary
Clearwater Resource Council	Montana Fish, Wildlife and Parks	University of Lethbridge
Confederated Salish and Kootenay Tribes	Montana State University	University of Montana
CoolPro Solutions Environmental Consulting	Montana Watershed Coordination Council	USDA Forest Service
Cows and Fish: Alberta Riparian Habitat Mgt Society	Municipality of Crowsnest Pass	Waldron Ranch
Crown of the Continent Research Learning Center	National Parks Conservation Association	Waterton Biosphere Reserve Association
Crown Roundtable	Natural Resource Conservation Service	Waterton Biosphere Reserve Association Waterton Lakes National Park
East Kootenay Invasive Species Council	Nature Conservancy of Canada	
Environment Canada	Nature Link Institute	Weyerhaeuser
Flathead Basin Commission		Whitebark Pine Ecosystem Foundation
Flathead County, Montana	Oldman Watershed Council	Wildlife Conservation Society
Flathead Lake Bio Station	Parks Canada	Wildsight
Flathead National Forest	Piikani Nation	Yellowstone to Yukon

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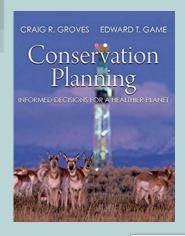
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- Plan for Iteration
- Solicit Leadership Support \(\square\)
 - Snowball approach
- Develop Shared Vision

Shared Vision – some resources



Groves, C.R. and E.T. Game. 2016. Conservation planning: Informed decisions for a healthier planet. Roberts and Co. Greenwood Village, CO.

Open Standards for the Practice of Conservation https://cmp-openstandards.org/





Recommended Practices for Landscape Conservation Design

Shared Vision

Groves and Game (2016):

It is important to include sufficient time for partners to develop a shared vision statement that **inspires and motivates stakeholders**.

Open Standards v3.0 (2017):

Decide on a clear and common vision – a description of the desired state or ultimate condition that you are working to achieve. A good vision statement meets the **criteria** of being **relatively general**, **visionary**, **and brief**

- ☐ **Relatively General** Broadly defined to encompass all project activities
- □ **Visionary** Inspirational in outlining the desired change in the state of the targets toward which the project is working
- ☐ **Brief** Simple and succinct so that that all project participants can remember it

Recommended Practices (2018):

The vision statement should **describe what the project area might look like in the future** but not delve into specific desired future
conditions

Shared Vision

Generic fundamental objective phrasing*

- 1. Maximize ecological benefits
 - a. Maximize persistence of native species (or communities)
 - i. Maximize population size
 - ii. Maximize distribution
 - iii. Maximize individual quality
 - iv. Maintain genetic and species diversity
 - b. Minimize nonnative and invasive species (or communities)
 - c. Maintain ecosystem function
- Minimize costs
 - a. Minimize capital (fixed) costs
 - b. Minimize ongoing (variable) costs

- 3. Maximize public and private benefits (utilitarian benefits)
 - a. Maximize consumptive recreational benefit
 - b. Maximize nonconsumptive recreational benefit
 - Maximize public services (e.g., energy generation, water delivery)
 - d. Maximize public health and safety
 - e. Maximize private economic opportunity
 - f. Provide sustainable subsistence use, where appropriate
- 4. Facilitate cultural values and traditions (nonutilitarian benefits)
 - a. Maximize aesthetic and spiritual values
 - b. Minimize taking of life
 - c. Treat animals in a humane manner

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- Plan for Iteration
- Solicit Leadership Support \(\right\)
 - Snowball approach
- Develop Shared Vision
- Assess Budgeting and Resources

Some Investments in the Geography



Great Northern LCC: Project Funding 2010 - 2016

Total Allocation:	\$483,877	Match/In-Kind:	\$720,910
Recipient:		Contributor:	
University of Calgary:	\$246,475	University of Calgary:	\$300,410
University of Montana:	\$125,997	National Park Service:	\$201,000
Yellowstone to Yukon		Crown Managers Partnership:	\$146,000
Conservation Initiative:	\$ 70,000	University of Montana:	\$ 46,000
Montana DNRC:	\$ 41,425	Wilberforce Foundation:	\$ 17,500
		US Forest Service:	\$ 10,000

Products:

Dozens of Transboundary Data Sets 8 Project Reports

3 Workshops Many Webinars

Data from:

https://greatnorthernlcc.org/gnlcc_projects/prj_report.ht ml?PRJ_ID=362

LCD Budget Summary



USFWS: FY19 Allocation: \$41,831

Recipient: UM Flathead Lakes

Biological Station:

Analysis & Modeling: \$17,455

Travel: \$12,897

Hardware/Software: \$ 2,250

Meeting Space: \$ 3,000

Overhead: \$ 6,230

In-Kind (S Finn salary):

In-Kind (M Heller salary): \$15,000

In-Kind (Leadership Team,

Technical Team, etc):

A LOT

\$37,500

We are this close to getting funds allocated

Expect to make a similar request for FY20

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- Seek Compatibility with Other Planning Processes

Integration

Lake County Zoning Districts

Last time, Brian Marotz asked: How are you integrating existing plans? For example, how do you plan to use the 62 Subbasin plans in the US Columbia Basin?



FINAL MEMORANDUM II-3-C MIDDLE ROCKIES RAPID ECOREGIONAL ASSESSMENT





Forest Legacy Project Lost Trail Conservation Project Marion, Flathead County, Montana



2010

Climate Change Strategic Plan

Draft Comprehensive Conservation Plan and Environmental Impact

Statement

U.S. Fish & Wildlife Service

National Rison Re

Montana's

STATE WILDLIFE ACTION PLAN

MONTANA FISH, WILDLIFE & PARKS 2015

Ministry of **Resource Operations**

2014 - 2024

Amended May 2018

Waterton Lakes South Saskatchewan Regional Plan

Parks Parcs Canada Canada

General Management Plan

GLACIER NATIONAL PARK

A Portion of Waterton-Glacier International Peace Park Flathead and Glacier Counties, Montana

Forests, Lands, Natural and Rural Development

2019/20 - 2021/22 SERVICE PLAN

February 2019

Integration

Last time, Brian Marotz asked: How are you integrating existing plans? For example, how do you plan to use the 62 Subbasin plans in the US Columbia Basin?

- Very Carefully!
- Reading documents and seeking overlap on key landscape elements:
 - Focal Area
 - Goals & Objectives
 - Features
 - Key Attributes
 - Indicators
 - Costs



You can help us here: Identify your plans and documents in the Chat Box

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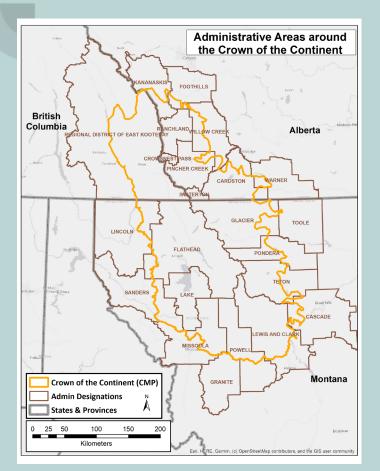
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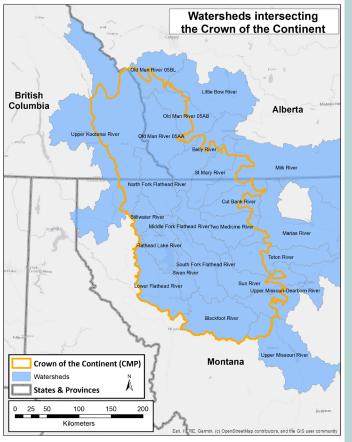


- Plan for Iteration
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- Assess Budgeting and Resources
- Seek Compatibility with Other Planning Processes
- Structure the Processes

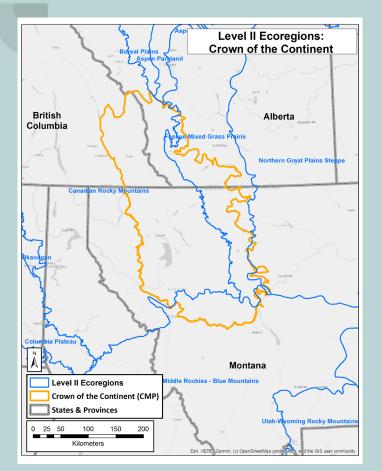
Defining the Geography



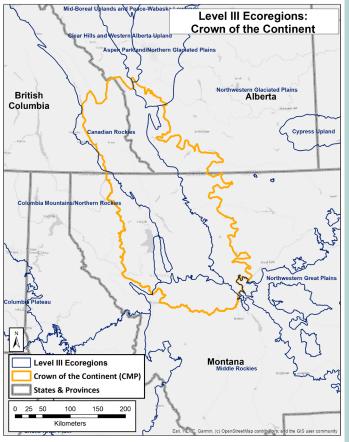
- > This is an item we need to decide upon
- Much that follows is contingent upon our Area of Interest



Defining the Geography



- This is an item we need to decide upon
- Much that follows is contingent upon our Area of Interest



Selecting Features

The Crown is a large, complex region. Our goal as we develop a meaningful, effective design is to envision, then create a future landscape that retains high function. However, the system is too complex to include everything of value in the Crown. **We will work to select representative features.**

Conservation Feature – a representative of biodiversity

Economic Feature – a representative of economic diversity

Social / Cultural Feature – also know as Human Well-being features, representation of human needs, pursuit of goals and sustained quality of life







... the hope is that if certain features are comprehensively represented (e.g., habitat types, vascular plants, birds or biophysical domains) then they will act as reasonable surrogates for the rest of biodiversity ... likewise for social or economic features

Selecting Features

Coarse Filter	Meso Filter	Fine Filter	Ser
	Mesic-Wet ¹		
	Xeric-Mesic ¹		
Conifer Forest ¹	Five Needle Pines ²	Whitebark Pine ^{2,3}	Wi
		Limber Pine ²	Eco
Alpine ¹	Grass & Shrub ¹		
	Sparse or Barren ¹		Eco
Deciduous Shrubland ¹			
Montane Grassland ¹		Spalding's Catchfly ³	
Floodplain / Riparian ¹		Yellow-billed Cuckoo ³	
		Lewis' Woodpecker ¹	
Wetlands ¹	Bog/Fen ¹	Water Howellia ³	
	Depressional Wetlands ¹	Waterfowl Production Areas ³	
Lotic Waters ¹	Intermountain Valley Rivers ¹		
	Intermountain Valley Streams ¹	Cutthroat Trout ¹	
	Mountain Streams (Headwaters) ¹	Bull Trout ^{1,2,3}	Eco
		Redband Trout ¹	
		Meltwater Lednian Stonefly ³	Wo
Lakes and Reservoirs ¹		Lake Trout ¹	
			Fisl
		Grizzly Bear ^{1,2,3}	Red
		Wolverine ^{1,2,3}	T.C.
Meso-Carnivores ²		Canada Lynx ^{1,2,3}	Lar
		Fisher ²	Lar

Sensitive Plants ⁴		Water Howellia ³
		Spalding's Catchfly ³
	Big Game Corridors ⁴	Mule Deer
Wildlife Habitat Integrity &		Rocky Mountain Elk
Ecological Connectivity ⁴		Pronghorn
	Productivity	Net Primary Productivity
Ecological Processes	Physical/Nutrient Cycles	Water Cycle
		Carbon Cycle
	Phenology	
	Disturbance Regimes	Fire on the Landscape
		Invasive Species
		Insects and Disease
Ecosystem Services	Watershed Integrity and Resilience	
144 1 1 1 1	Timehan Faanana 4	Fiber avent 4
Working Landscape ⁴	Timber Economy⁴	Fiber supply ⁴
Working Landscape	IImber Economy.	Quarry Rock ⁴
Fish and Wildlife-based	Hunting Access ³	
		Quarry Rock ⁴
Fish and Wildlife-based	Hunting Access ³	Quarry Rock ⁴
Fish and Wildlife-based	Hunting Access ³	Quarry Rock ⁴

... the hope is that if certain features are comprehensively represented (e.g., habitat types, vascular plants, birds or biophysical domains) then they will act as reasonable surrogates for the rest of biodiversity ... likewise for social or economic features

Discussion & Dialog

Please let us know what you're thinking!

You are unmuted ... we'd like to hear from you

You are also welcome to use the Chat Box

Bonus – those comments are sure to be included in project records!

If you prefer you can call me (208-426-2697) or email sean_finn@fws.gov

Next Steps

Vision for a Future Crown:

• Think about it ... we will return to this concept

Selecting Area of Interest:

- In the next few days I will send out a selection of maps
- Share with your colleagues and provide feedback
- Provide feedback
 - Can markup maps, use descriptive terms ("include watershed X") or draw your own
- Goal is to make a decision on the March 24 phone call

Conservation Features:

- Think critically about what's important to you, your organization and your community
- Technical Team and lead analysts will be evaluating existing documents and available data
- Deeper discussion & focus on the March 24 phone call

Your thoughts?