

LCD Meeting Notes 2/11/2020

Attendees: Sean, Natalie, Phil, Matt, Aubin, Margot, Damaris, Adam

Introductions (all)

- *Matt Heller* - has worked extensively with sean; USFWS GIS Admin
- *Natalie Poremba* - Secretariat/ Conservation priorities coordinator for Crown Managers Partnership
- *Aubin Douglas* - Cartographer for USFWS; ACE fellow, background using Marxan
- *Damaris* - modeling regeneration of sagebrush ecosystems; 1st year master at Yale Forestry
- *Margot* - working with Damaris since September, Masters of Env't Mgmt; focus on water resources (quantity mgmt)
- *Phil Matson* - Flathead Lake Biological Station, research coordinator; GIS database manager for CMP
- *Adam Collingsworth* - Waterton AB, has both data mgmt and GIS analysis background

UHPSI Project Descriptions (Margot and Damaris)

- Goals for fall: characterization of the status of Bull Trout and Whitebark Pine
 - data collection has been inconsistent, so want a consistent way to evaluate
 - Using Nature Serve climate change index
- About the Nature Serve Climate Change Vulnerability index - guideline document accompanies an excel spreadsheet that has built in formulas
 - Finding climate data, species interactions, ability to disperse, disease factors, model population and range shifts - Looking for lots of data sets - Have been using our LCD data spreadsheet
 - geography used is the CCE boundary
 - 50 year timeframe is suggested; working in a smaller timeframe 1970-2000
 - **ACTION : Sean will send out the guidelines document and contact info of Margot and Damaris**
- Questions about Data availability
 - Is there a database on in-the-works projects to mitigate climate change?
 - Look for environmental assessments - take place before project construction would start - in CA there is a gov't website that posts EAs
 - Not many areas in the northern rockies are doing these sorts of projects - there may be some mitigation strategies, but not super concerned with carbon sequestration

- Modeled distribution and population data
 - Bull Trout
 - Researchers in glacier with USGS field station looking at BT populations
 - **Action: Phil will provide contact information to Margot and Demaris (mulfield and Deangelo)**
 - Whitebark Pine
 - cmp database; shannon blackadder's population models - Under gncc on sciencebase
 - **Action: Phil and Matt will send WBP links from sciencebase to Demaris and Margot**
- Finding data from Canada
 - Federal gov't open data portal
 - Google open data Canada - currently a little limited - in the process of trying to amalgamate everything into one portal
 - Contact adam directly for more CA data

[Data Layers and Tools spreadsheet](#) review (Sean and all)

- Leadership team will select features (ie. bt and WBP) - Spreadsheet will help wrap our heads about what data is available
- Spreadsheet will include Biological data as well as environmental factors that are limiting (ie. climate change)
- Used this spreadsheet in green river basin, so some data may be framed towards that geography
 - Geography - montana, canada, transboundary, north america, bc
 - When we decide on a geography, we may need to expand on Phil and Shannon's work - are some of shannon's data not clipped to the CCE in case the geography is larger than the current CCE boundary? - some data has 5 and 50km buffer
- Reference: base data - can be really valuable at the end of the analysis - who is poised to do what
- **Action Item: All review the data sheet and add/adjust**

1st Leadership Team call (Sean)

- First call on Feb 25th - expect a quick turn around

Next Meeting 3/10 at 1pm

- This is during the CMP fire forum - consider rescheduling or combining in some way?

