

Bryce Maxell







MSL Learn Webinar Series

Using the Montana Field Guide and Species Snapshot Websites
May 7, 2024

Today's Hosts

Bryce Maxell



Montana Natural Heritage Program Program Coordinator

Colet Bartow



MSL Continuing Education Coordinator

(Colet rhymes with Olay)



Today's Agenda

Montana Natural Heritage Program

Montana Field Guide

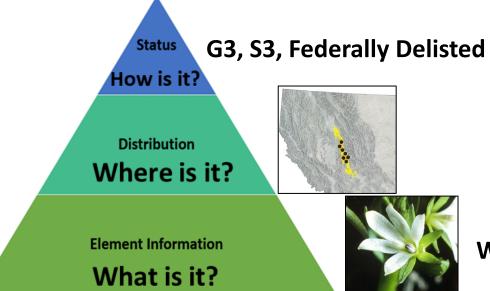
Species Snapshot

Accessing Information on Montana's Species & Habitats: Montana Field Guide and Species Snapshot websites

Why have a Natural Heritage Program?

- Common set of information available to everyone
- Inform species and habitat management decisions
- Inform environmental review, permitting, and planning processes
- Inform disaster response
- Make informed decisions quickly
- Avoid litigation
- Maintain local authority over species management

Save time and money





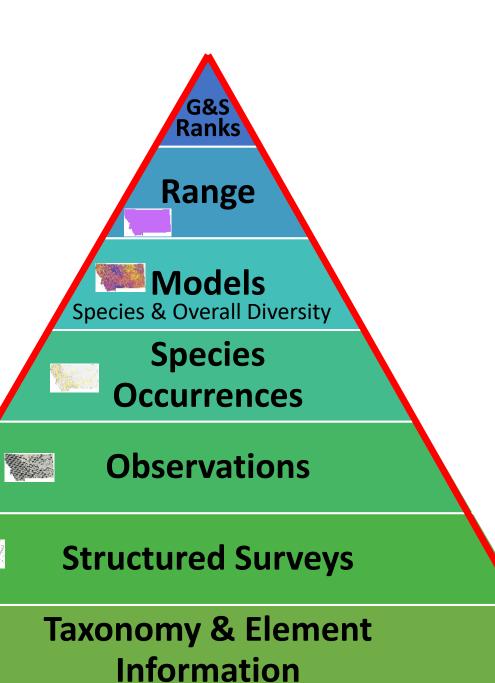
Water Howellia (Howellia aquatilis)





Species Data Products

16.7



2023 Counts (% Change)

4,846 (+<1%)

2,943 (+4%)

1,072 (+1%)

94,781 (+16%)

5,145,282 (+13%)

470,645 (+2%)

16,538 (+6%)

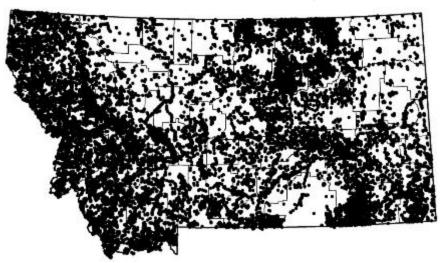
Distribution of 16,281 Species STATE LIBRARY



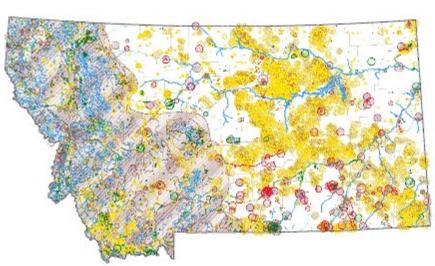
~5.2 Million Observations



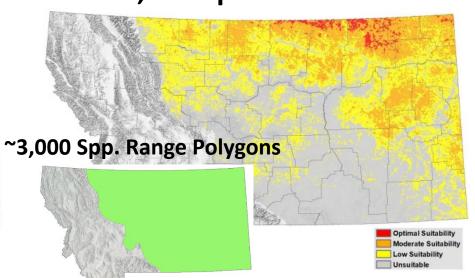
~471,000 Surveys



~95,000 Species of Concern Occurrences



~1,100 Species Modeled



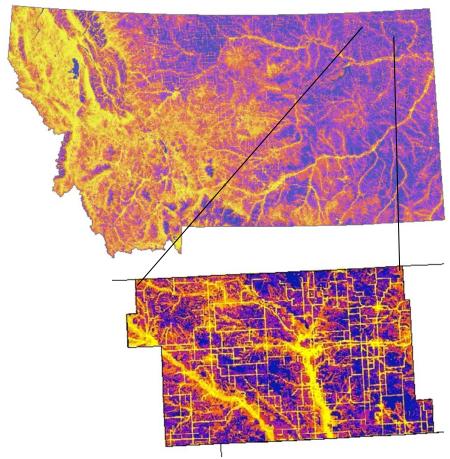
Predicted Biodiversity Models

MONTANA
STATE LIBRARY
NATURAL HERITAGE PROGRAM

- Montana Land Use Planning Act
- Prioritize weed survey & control
- State Wildlife Action Plan

Native Vertebrate Biodiversity (N = 462)

- Forest Plan Revisions
- BLM Resource Management Plans
- Tribal Management Plans



Cumulative Risk of Invasion by State-listed Noxious Weeds

Habitat Data Products

Land Cover



- * Moving toward NVC for July of 2024
- * Spatial Data Infrastructure Homepage

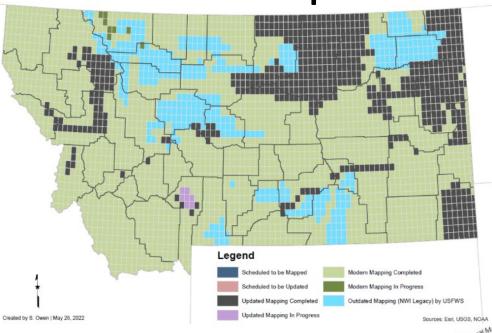
https://msl.mt.gov/geoinfo/msdi/land_use_land_cover/

- Story Map
- Downloads and Web Service
- Ecological Site Reviewer
- Land Cover Validation Tool Kit





Wetland & Riparian



- * 3.2 million + acres mapped
- * 87% of state is mapped
- * 385 quads at ~\$3,000/quad
- * Funding ready for ~15 quads

Environmental Summary Report

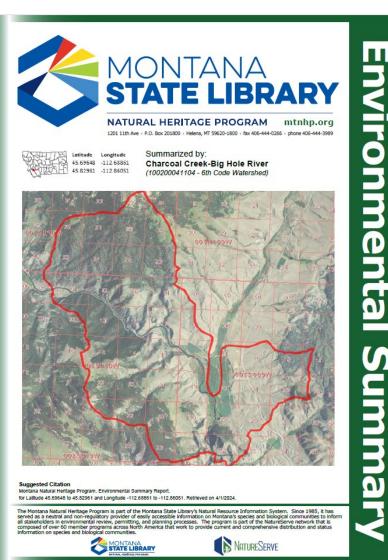
Standard report for all NEPA, MEPA, and permitting processes

Video on How to Interpret and Use Environmental Summary Reports

https://youtu.be/fbzUCGxrPD0?feature=shared

Table of Contents

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 - Introduction to Native Species
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 - Introduction to Land Management
 - Introduction to Invasive and Pest Species
 - Additional Information Resources



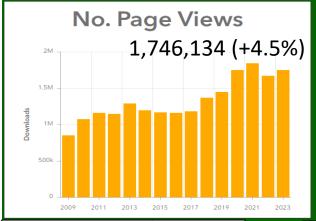
Field Guide Use

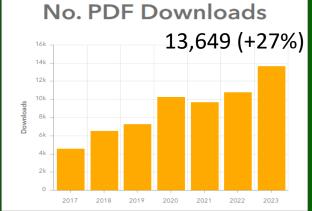


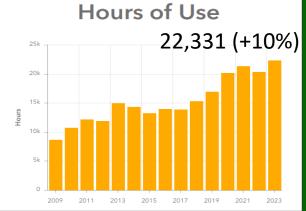






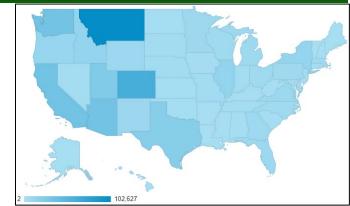






1.	United States	495,141 (86.13%)
2.	[◆] Canada	36,420 (6.34%)
3.	India India	5,965 (1.04%)
4.	United Kingdom	5,082 (0.88%)
5.	Philippines	3,486 (0.61%)
6.	■ Nigeria	2,043 (0.36%)
7.	Australia	1,872 (0.33%)
8.	Germany	1,508 (0.26%)
9.	France	1,390 (0.24%)
10.	Mexico	1,178 (0.20%)

1.	Montana	102,627 (19.71%)
2.	Colorado	61,448 (11.80%)
3.	California	35,036 (6.73%)
4.	Arizona	34,519 (6.63%)
5.	Washington	34,212 (6.57%)
6.	Utah	25,583 (4.91%)
7.	Texas	20,950 (4.02%)
8.	Illinois	14,198 (2.73%)
9.	Idaho	13,398 (2.57%)
10.	New York	12,811 (2.46%)



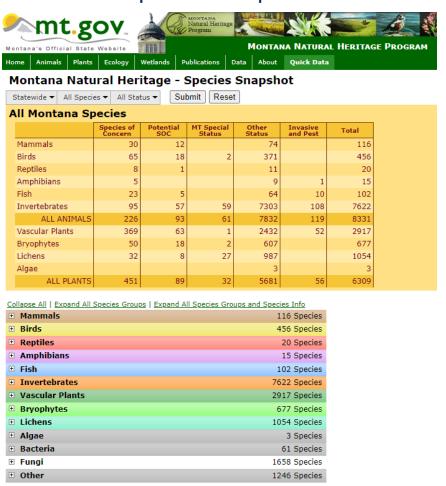
Website Demonstrations



Montana Field Guide



Species Snapshot



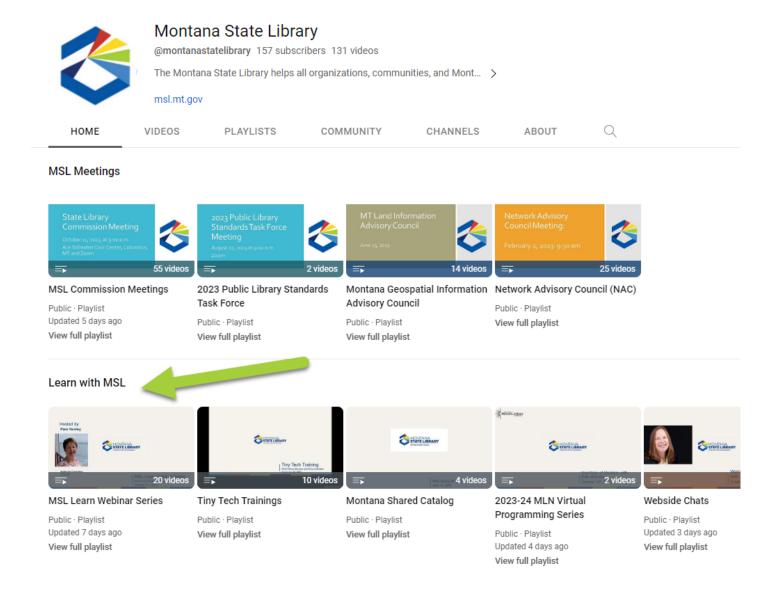
Links from Live Presentation

- Montana Natural Heritage Program
 - https://mtnhp.org/
- Montana Field Guide
 - https://fieldguide.mt.gov/
- Species Snapshot
 - https://mtnhp.org/SpeciesSnapshot/?Vector=&Species=&Rank
- How to Interpret and Use Environmental Summary Reports
 - https://youtu.be/fbzUCGxrPD0?feature=shared
- Habitat Data Products
 - https://storymaps.arcgis.com/stories/77e6bf223649419c95c596cbc2da9529
- Spatial Data Infrastructure Homepage
 - https://msl.mt.gov/geoinfo/msdi/land_use_land_cover/

Questions?

MSL YouTube Channel

- Look for the MSL Learn Webinar Series Playlist
- Access new recordings
- Subscribe!



MSL Evaluation Survey



Up Next – Check the ASPeN Calendar



May 14 - Montana Historic Newspaper Collections



May 15 – Connecting with Local Government Officials: How Libraries Add Value



May 17 – Webside Chat



June 11 – Automated Catalog Clean-Up!

Colet Bartow
Continuing Education Coordinator
Colet.Bartow@mt.gov
406-444-3365



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