

Guide to Publicly Available Information Resources at the Montana Natural Heritage Program

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Requests for Environmental Review, Permitting, or Planning Processes (Environmental Summary Reports)

Environmental Summary Reports contain information on native species, structured surveys, land cover, wetland and riparian and mapping, land management, biological reports, and invasive and pest species. They are designed to inform and be documents of record in environmental review, permitting, and planning processes across Montana. Requests filed at the following website will typically be filled within a business day: <https://mtnhp.mt.gov/requests/>

Information on Native & Non-Native Species & Habitats

MONTANA FIELD GUIDE™

<https://fieldguide.mt.gov/>

What is it?

Contains accounts on the status, distribution, general identification, biology, ecology, and management of over 18,000 different species and habitats found in Montana. There are separate guides that are organized by taxonomic hierarchy (or management status for invasive and pest species) for animals, plants, fungi, invasive and pest species, and ecological communities.

Different ways to use it:

- Click through the taxonomic, habitat, or management hierarchy until you get to a full species or habitat account.
- Download PDF guides with abbreviated accounts for major taxonomic or management groups under the “Take us with you!” links at the right.
- At any level of the taxonomic or management hierarchy for species click on the “View Images” or “PDF Click Me”   symbols at the upper right to view images or abbreviated accounts for the list of species in the group.
- Type the species’ or habitat’s common or scientific name in the search box at the upper right and click Go to get to a full species or habitat account.
- Use the Advanced Search at the upper right to search by taxonomy, status, or location to filter to a list of species or habitats then click on those of interest to see the full accounts.
- Create a custom portable PDF of abbreviated field accounts at the bottom of the Advanced Search by typing the scientific names of a list of species of interest.

Species Snapshot

<https://mtnhp.org/SpeciesSnapshot/>

What is it?

This application is an extension of the MONTANA FIELD GUIDE™. It can be used to generate lists of species known to occur in various spatial areas across the state that belong to different taxonomic or status/management groups. Lists of species can be explored online using various links and you can download abbreviated accounts or an excel spreadsheet of the list of species filtered.

How to Use it:

Using filters at the upper left, filter by spatial area (Statewide is default), species group (All Species is default), and various agency status listings (All Status is default) and then click the Submit button. In the resulting list of species, view summaries of agency status, numbers of observations, numbers of Species of Concern Occurrences and links to predicted habitat suitability model write ups, accounts, and Generalized Observations

and predicted habitat suitability model output (if available) in the Map Viewer web application. At the upper right of this application there are links to Download Custom Guide with abbreviated accounts or Export to Excel for the list of species filtered.

Map Viewer

<https://mtnhp.org/mapviewer/>

What is it?

Map Viewer displays spatial information on species, terrestrial, wetland, and riparian habitats, land management, and reports and documents in Montana as well as summary reports of this information for a variety of jurisdictional boundaries. All tasks include the ability to turn on and off a variety of map layers, search for locations, and zoom to areas of particular interest. Tasks available for use by anyone include:

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- *Generalized Observations*: Shows documented records of species by rectangles that are a quarter degree of latitude by a quarter degree of longitude as well as the predicted habitat suitability and range for species when available. Filter by one or more species and month and year.
- *Habitat Suitability for Biodiversity*: Maps show overall predicted habitat suitability for various biodiversity groups. Numbers and lists of species predicted for a variety of jurisdictional boundaries are displayed along with stewardship responsibility for individual species.
- *Land Cover*: Maps portrait natural habitats classified at the Group level of the National Vegetation Classification system, recently disturbed or modified habitats (e.g., fire, insect outbreak, timber harvest), and areas dominated by human land use. Select a geographic area to summarize acreage of various land cover classes and download a report. Links to the Ecological Communities Guide are provided for descriptions of the land cover classes.
- *Wetland and Riparian Mapping*: Maps portrait wetlands mapped according to the Cowardin classification system of the National Wetland Inventory and riparian areas according to the U.S. Fish and Wildlife Service's System for mapping riparian areas. Select a geographic area to summarize acreage of various wetland and riparian mapping types and download a report.
- *Land Management*: View ownership/management info for public lands, tribal lands conservation easements, administrative boundaries and cadastral info for private property boundaries. Select a geographic area to summarize acreage of various ownership/management classes and download a report.
- *Reports and Documents*: View biological reports and Montana Environmental Policy Act (MEPA) documents associated with an area of interest. Select a geographic area of interest to see reports and documents for the area and filter MEPA documents by agency, project type, document type, year received, and subject. Links are provided to look for National Environmental Policy Act (NEPA) documents on federal agency websites.
- *Photos*: See photos of habitats from species and habitat surveys with an emphasis on wetland surveys.

How to Use the Application and Each Task:

- Introductory video to the entire web application <https://www.youtube.com/watch?v=PKIAUH41gDo>
- Playlist of introductory videos for all tasks, as well as videos on how to use map controls and tools, map layers, and the search for location tool
<https://www.youtube.com/playlist?list=PLRaydtZpHu2qqYRhFT0mXvN5ehPOmNrVo>
- Interpreting and Using Environmental Summary Reports
<https://www.youtube.com/watch?v=fbzUCGxrPD0&list=PLRaydtZpHu2rAl8P7VJUloV4zoTu7eQFG&index=3>
- Introductory videos and step by step how-to-use documents can be accessed for each task by clicking on the question marks in the blue circles at the upper right of each task selection button or the Help link at the upper left of any task. Additional information such as story maps is also provided when available.

Dashboards and Tools

<https://mtnhp.mt.gov/webapps/dashboards>

What are they and how to use them:

Dashboards and tools are web applications that summarize specific types of information managed by the Montana Natural Heritage Program for a variety of audiences. These are either self-explanatory or have an introductory splash screen and/or video that describe how to use them. They include:

- *Native Species Conservation Status Dashboard*: Summarizes global and Montana conservation status ranks for the species that we track information on. Filter by taxonomic groups of interest.
- *Conservation Status Summary for Species*: Summarizes Rarity, Trend, and Threat rank factor scoring for vertebrate species in Montana. Filter by taxonomic group, conservation status, or SWAP status.
- *Zoology Data Dashboard*: Summarizes animal species tracked and major data products available for them.
- *Botany Data Dashboard*: Summarizes botanical species tracked and major data products available for them.
- *USGS NLCD Land Cover 1984-2024 Change By County*: Summarizes changes by county in major land cover types represented in the National Land Cover Dataset between user selected years from 1984 to 2024.
- *Ecological Site Reviewer*: Provides access to maps and attributes for basic environmental properties, ecological characteristics, and background reference information.
- *Invasive Weed Dashboard*: View summary information on non-native vascular plants statewide or within county, USFS, BLM, or tribal jurisdictional boundaries.
- *iNaturalist Non-Native Watch List*: Summarizes records of exotic species reported in the [iNaturalist](#) application that are not yet documented in Montana but are within an 800-kilometer radius from the center of Montana by counts, distances to the state border, and county and distance.
- *AIS Response Support*: Provides spatial information on boat access points, docks, ramps, hydrological features, land management, and species of concern occurrences to assist with AIS response efforts.
- *Montana Invasives to Watch*: Storymap on invasive species of greatest concern for Montana.
- *G1-G2 Species Location Tool*: Tool with accompanying brochure, spreadsheet, and resource links for supporting timber sourcing that meets Sustainable Forestry Initiative (SFI) certification requirements.
- *Grazing Boundary Information*: Storymap with individual maps for Taylor Grazing Act District, grazing allotment, state grazing district, and Bankhead-Jones Land boundaries.
- *County Species and Land Management Dashboard*: Provides summaries of species, land management, and conservation easements statewide or by a selected county.
- *Montana Beaver Restoration Hub*: A variety of tools to support beaver restoration and assessment, including a storymap, guides, overview video, the full BRAT model output, and component model dashboards for Dam Building Capacity, Potential Conflict, and Management Options.

Tools for Reporting Observations of Species

- Reporting species with [iNaturalist](#): https://mtnhp.mt.gov/submit/Citizen_Science
 - Videos on how to set up an iNaturalist account, collect observations, edit observations, make identifications, and subscribe to taxa places:
<https://www.youtube.com/playlist?list=PLRaydtZpHu2quc9abvi-6iLvwBNUs3tm9>
 - Powerpoint presentation on why and how to use iNaturalist:
https://mtnhp.mt.gov/submit/docs/How_To_Use_iNaturalist_20251117.pdf
 - iNaturalist business cards: https://mtnhp.mt.gov/submit/docs/iNaturalist_Business_Cards.pdf
- Other MTNHP Forms <https://mtnhp.mt.gov/submit/>
- You can also submit your local geodatabase, Excel, or hard copy files to bmaxell@mt.gov The MTNHP centralizes data reported from agency databases.

Other Montana Natural Heritage Program Web Pages of Potential Interest

- Wetland and Riparian Information <https://mtnhp.mt.gov/resources/ecology/wetlands/>
- Land Cover / Land Use Information [https://msl.mt.gov/geoinfo/msdi/land use land cover/](https://msl.mt.gov/geoinfo/msdi/land_use_land_cover/)
- Zoological Resources <https://mtnhp.mt.gov/resources/zoology/>
- Botanical Resources <https://mtnhp.mt.gov/resources/botany/>
- Wildlife Bibliographies for Recreational Effects and Subdivision Development
<https://mtnhp.mt.gov/resources/zoology/wildlifebib/>
- Native Plant Conservation Strategy <https://mtnhp.mt.gov/resources/botany/native-plant-conservation-strategy/>
- Related Websites for Natural Resources <https://mtnhp.mt.gov/resources/links/>
- Laws, executive orders, rules, regulations, and processes that use information from the Montana Natural Heritage Program <https://mtnhp.mt.gov/about/information-uses/>