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### Vascular Plants of the Caribou-Targhee National Forest and Curlew National Grassland in Southeastern Idaho, Western Wyoming, and Northern Utah

Michael Daines

Pittsburg State University, [mdaines@gus.pittstate.edu](mailto:mdaines@gus.pittstate.edu)

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VASCULAR PLANTS OF THE CARIBOU-TARGHEE NATIONAL FOREST AND CURLEW  
NATIONAL GRASSLAND IN SOUTHEASTERN IDAHO,  
WESTERN WYOMING, AND NORTHERN UTAH

A Thesis Submitted to the Graduate School  
in Partial Fulfillment of the Requirements  
for the degree of  
Master of Science

Michael Weldon Daines

Pittsburg State University

Pittsburg, KS

April 2023

VASCULAR PLANTS OF THE CARIBOU-TARGHEE NATIONAL FOREST AND CURLEW  
NATIONAL GRASSLAND IN SOUTHEASTERN IDAHO,  
WESTERN WYOMING, AND NORTHERN UTAH

Michael Weldon Daines

APPROVED:

Thesis Advisor \_\_\_\_\_  
Dr. Neil Snow, Department of Biology

Committee Member \_\_\_\_\_  
Dr. Christine Brodsky, Department of Biology

Committee Member \_\_\_\_\_  
Dr. Alicia Mason Collins, Department of Communication

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An Abstract of the Thesis by  
Michael Weldon Daines

Due to a historical paucity of collections from and the absence of a comprehensive floristic treatment for parts of the Caribou-Targhee National Forest and Curlew National Grassland, an updated inventory for the area was needed. I present an annotated checklist of the vascular plants documented from the Caribou-Targhee National Forest and Curlew National Grassland. A total of new 3189 voucher specimens were collected for this project in 2021 and 2022. To compile the annotated checklist, I consulted both newly collected specimens and specimen data from online botanical databases. A total of 1557 taxa (species, subspecies, varieties, and hybrids), 1423 species (including hybrids), 481 genera, and 94 families are known to occur in the study area. At least three new state records (*Draba thompsonii* (C.L. Hitchc.) G. Mulligan & Al-Shehbaz, *Sphaeralca parvifolia* A. Nelson, and *Boechera lasiocarpa* (Rollins) Dorn) and 137 new county records were documented, a few of which were published previously. An additional 38 first records were discovered, of which approximately 21.1% were not native to the United States. A number of other important occurrences were documented, such as occurrences of rare taxa, Forest Service Region 4 Sensitive Species, and new reports of non-native taxa. The large number of documented county records supports the continued applicability of the Wallacean Shortfall in the flora of western North America. Employees of the U.S. Forest Service, academic researchers, and others will be able to use the annotated checklist to better understand, research, and conserve the flora of the Caribou-Targhee National Forest and Curlew National Grassland.

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## CHAPTER I

### INTRODUCTION

Floristic inventories and the collections produced thereby are considered by many to be a critical foundation for taxonomy (Heywood 2001), biodiversity conservation (Pimm and Lawton 1998, Greve et al. 2016), and other ecological studies (Pyke and Ehrlich 2010). In contrast, some have questioned the necessity or appropriateness of floristic inventories (Renner and Ricklefs 1994, Heywood 2001), especially in botanically well-studied areas like North America. Evidence supporting the importance of floristic inventories and basic biodiversity documentation includes the ongoing discovery of new species and numerous and important distributional records in North America, especially in the western and southeastern United States (Ertter 2000, Poindexter et al. 2011, Pryer et al. 2019, Weakley 2005 and 2020; Daines et al. 2022).

The Linnaean Shortfall embodies the idea that we still have an inadequate understanding of biological diversity on earth, as evidenced by many known but still-undescribed species. Some have gone extinct before ever being described (Tedesco et al. 2014). As evidence of the continued applicability of the Linnaean Shortfall in North America, 1197 new plant taxa were described from North America north of Mexico from 1975–1994 (Hartman and Nelson 1998), which averages 47 yearly overall. Approximately 126 (10.5%) of these new taxa were discovered as part of floristic inventories (Hartman and Nelson 1998), averaging about six new taxa per year. This relatively large number of new taxa highlights the ongoing importance of floristic inventories in filling the knowledge gap described by the Linnaean Shortfall. Citing a few recent examples, products of floristic inventories and other botanical forays and collecting have included a new species of *Phlox* L. from northern New Mexico (Legler 2011), a new species of *Polemonium* L. from east-central Idaho (Irwin et al. 2012), a new variety of *Montia parvifolia* (Moc. ex DC.) Greene from central Idaho (Ertter et al. 2021), a new species of *Townsendia* Hook. from east-central Idaho (Lee et al. 2022), and a new species of *Potentilla* L. from central Idaho (Ertter and Mansfield 2023).

These examples indicate the substantial contribution that floristic inventories continue to provide to biodiversity discovery in North America. In estimating the extent that the Linnaean shortfall is applicable in the flora of North America, Ertter (2000) predicted that future floristic inventories and taxonomic work would uncover additional novel plant species, and that up to 900 undescribed vascular plant species might remain in North America.

In addition to the discovery of new taxa, floristic inventories continue to fill critical gaps in our knowledge of plant distributions across North America (e.g., Legler 2010, Snow et al. 2017, Pryer et al. 2019, Hammesfahr et al. 2020, Daines et al. 2022). These distributional gaps are collectively referred to as the Wallacean Shortfall (Lomolino 2004). Distributional gaps were abundant in the Caribou-Targhee National Forest and Curlew National Grassland (**CTNF-CNG**) when this project commenced. For example, Schmidt and Kartesz (2015; Figures 1, 2) reported that four of the Idaho counties partly or entirely included in the study area (Bear Lake, Caribou, Franklin, and Power Counties) had only 63–72% native vascular plant collection *saturation*, a metric that measures “documented records versus expected species range continuity” (Schmidt and Kartesz 2015), indicating that that these four counties were “in great need of collecting” (Schmidt and Kartesz 2015). Additionally, Oneida County, in the southern part of the CTNF-CNG had only 54% saturation (as of 2015) and was considered among the “poorest collected counties” in the continental United States (Schmidt and Kartesz 2015). From a regional standpoint, the CTNF-CNG had been less densely collected than many parts of the western United States. For example, the five counties listed above each had a lower collection saturation value than any county in Arizona, California, Nevada, Utah, and Wyoming (Schmidt and Kartesz 2015). In short, the Wallacean Shortfall was evident in parts of the study area prior to this project. Consequently, the main objective of this study included compiling an annotated checklist of vascular plants that would help fill in gaps in our knowledge of species distributions and provide documentation on rare taxa.

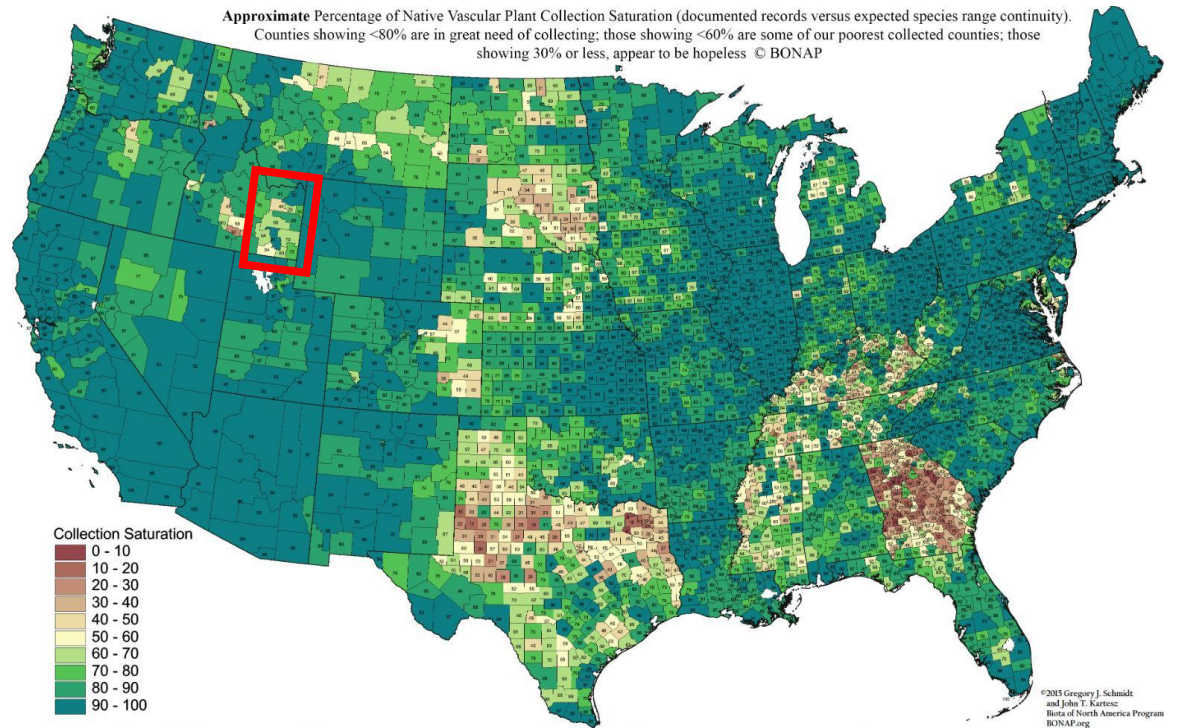


Figure 1. Vascular Plant Collection Saturation Map of the contiguous 48 United States. (Red box added to show approximate region containing the Caribou-Targhee National Forest and Curlew National Grassland; image credit: Schmidt and Kartesz 2015; copyright 2015 Gregory J. Schmidt and John T. Kartesz, Biota of North America Program)

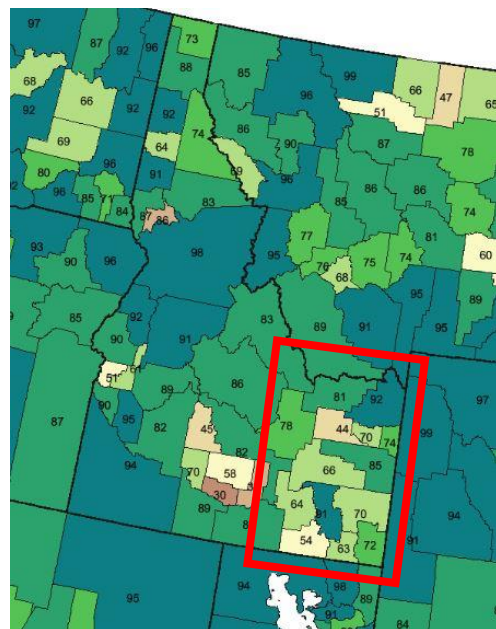


Figure 2. Detail of Vascular Plant Collection Saturation Map of the contiguous 48 United States. (Red box added to show approximate region containing the Caribou-Targhee National Forest and Curlew National Grassland; image credit: Schmidt and Kartesz 2015; copyright 2015 Gregory J. Schmidt and John T. Kartesz, Biota of North America Program)

### *Study Area Overview*

The Caribou-Targhee National Forest and Curlew National Grassland (CTNF-CNG) encompass about 10,839.5 km<sup>2</sup> (4185.2 mi<sup>2</sup>) of federally managed public land (USDA FS 2012) (See Figure 3, Results). It is ecologically and topographically diverse and situated near the junction of multiple major floristic regions (Ertter and Moseley 1992, Henderson 1992, Irwin 2014, Johnson 2019). Partly reflective of this diversity of influence, the Idaho portions of the CTNF-CNG are placed by Ertter and Moseley (1992) in three floristic areas: the Southeastern Mountains Division (Pocatello and Wasatch Units), the Yellowstone Plateau Division, and the East-Central Mountains Division (Borah Unit). Parts of the study area are included in five EPA Level III Ecoregions, including the Middle Rockies, Northern Basin and Range, Wasatch and Uinta Mountains, Wyoming Basin, and Central Basin and Range.

The flora of the CTNF-CNG and surrounding areas likely originated from multiple sources. Axelrod and Raven (1985) discussed the origins of the Cordilleran flora of western North America, which includes some of the present study area. Starting from the Eocene, they discussed the appearance and shifting geographical ranges of higher taxa (especially genera) in association with major geologic and climatic changes, such as the uplift of the Sierra Nevada, scattered volcanism, the uplift of the Rocky Mountains, sea level change, and changes in climate. Sources of floristic diversity in the CTNF-CNG include the ancient Madro-Tertiary geoflora, especially at lower elevations, and the Arcto-Tertiary geoflora, especially at alpine elevations (Axelrod and Raven 1985).

Parts of the study area have been treated in several regional Floras. The southern part of the CTNF-CNG (most of the Caribou portion of the Forest and the entire Curlew National Grassland) is covered by *Intermountain Flora* (Holmgren et al. 1972–2017), although the earliest volumes of that series now are four decades old. Some of the northern (Targhee) zone of the Forest is included in the geographic scope of *Flora of the Pacific Northwest, 2<sup>nd</sup> edition* (Hitchcock and Cronquist 2018), while some portions of the Targhee zone in Bonneville, Fremont, Madison, and Teton Counties, Idaho are not technically included in the geographic scope of either *Flora of the Pacific Northwest* or *Intermountain Flora*. The most recent regional botanical manual that included these areas was *Flora of Idaho* (Davis 1952), which is now taxonomically extensively dated and of little overall value. Peripheries of the Forest in Wyoming and Utah

are covered, respectively, by *Vascular Plants of Wyoming* (Dorn 2001) and *A Utah Flora* (Welsh et al. 2015).

#### *Previous Plant Collectors*

It is unclear when the first plant specimens were collected in the study area. John Charles Frémont headed an expedition in 1843–1844, a portion of which took the party through the southeastern corner of Idaho on the way to and from Fort Hall (Welsh 1998). However, they seem to have largely encountered plants of the low valleys surrounding the CTNF (Welsh 1998). While Frémont did collect about 1415 plant specimens on this journey, “about two-thirds of the collection was destroyed” (Welsh 1998). The geologist-turned-botanist John Merle Coulter collected in the study area near Island Park and the Teton Range on the 1872 Hayden expedition to the Yellowstone area (Osborne and Gronert 1932, Masson 1994, IRHN 2021–2023). A physician named F.E. Leonard collected near the study area around Oxford, Idaho, in 1885 (IRHN 2023). Around the turn of the twentieth century, additional specimens were collected at low elevations near the CTNF-CNG by early botanical explorers, such as Aven Nelson and J.F. MacBride (RMH 2023).

In the intervening century or so since these early botanical pioneers, many botanists have collected specimens in the CTNF-CNG. In approximate chronological order, some of these more important collectors were Edwin B. Payson, J.H. Christ, Arthur Cronquist, Ray J. Davis, William H. Baker, Loran C. Anderson, Delbert Lindsay, Thomas Dieffenbach, Noel and Patricia Holmgren, Charles Wellner, Fred Johnson, Robert Steele, N. Duane Atwood, Erwin F. Evert, Robert Moseley, Michael Mancuso, James F. Smith, Curtis Björk, Gary I. Baird, Don Mansfield, Ben Legler, and other participants at the recent Idaho Botanical Forays.

Several graduate students, their colleagues, and others also have contributed substantially to our current understanding of the flora of the area through focused floristic studies of specific areas. Gordon Whitehead carried out a floristic study of the Island Park area (Whitehead 1983). Ron Hartman and Ernie Nelson (University of Wyoming) collected some specimens in and near the CTNF in conjunction with various floristic inventories associated with the overall goal of documenting the flora of the greater Rocky Mountain area (Hartman 1992), which involved 52 graduate students in floristic projects (RMH 2022). One of these students, Stuart Markow, collected over 10,000 specimens for his master’s thesis on the floristics

of the Targhee National Forest (Markow 1994). The long, narrow section of the Caribou-Targhee National Forest in the southeastern Lemhi Range was not included in Markow (1994) but was included by Irwin (2014). Kesonie and Hartman (2011) included part of the CTNF in Wyoming northwest of Teton National Park, and Moseley et al. (1991) included some wetlands in and near the Targhee National Forest. Douglass Henderson (University of Idaho) and his students collected substantial numbers of specimens in east-central Idaho, including from the northwestern corner of the CTNF in the Lemhi and Beaverhead Ranges (Henderson 1992).

### *Climate*

Much of the study area generally has cold winters and moderately warm summers. Precipitation varies considerably across the study area, with relatively low amounts of precipitation falling in low elevations of the dry mountain ranges of east-central Idaho and increasing amounts of precipitation at moderate to high elevations in some of the other mountain ranges. However, little weather data is available for most of the higher elevation areas in CTNF boundaries. Snowpack melts at varying dates, based in part on the amount of snow, spring temperatures, and insolation. Given their high elevations, portions of the Teton Range typically retain snow longer than most or all of the other mountains in the study area. In addition, notable areas of late snow retention exist on the aptly named Snowdrift Mountain, on the Caribou/Bear Lake County border. I encountered snow as late as July 11 in 2022 that obscured portions of an ATV trail (Daines, pers. obsv.). It is possible this area receives considerable moisture in general, as the eastern slopes harbor significant areas of coniferous forest and received rain and generally were moist in late July 2021 (Daines, pers. obsv.).

### *Geology and Phytogeography*

Other than foothills near the edges of the CNG, 17 mountain ranges occur in part or in whole in the study area. These include (moving roughly counterclockwise from the southwest) the Malad Range, Bannock Range, Portneuf Range, Bear River Range (the northern extension of the Wasatch Range), Aspen Range, Preuss Range (including the Sheep Creek Hills), Gannett Hills, Webster Range, Wooley Range, Grays Range, Caribou Range, Snake River Range (including the Big Hole Mountains), Teton Range,

Henry's Lake Mountains, Centennial Range, Beaverhead Mountains (the southern-most portion of the Bitterroot Range), and the Lemhi Range.

The highest elevation in the CTNF-CNG is the summit of Diamond Peak (Lemhi Range), at 3718 m. Diamond Peak is also among the highest-elevation peaks in Idaho (generally viewed as the third or fourth highest-elevation peak in the state) and exhibits a large amount of vertical relief from the Birch Creek Valley to the east. The highest-growing plants in the CTNF-CNG that have been documented by herbarium specimens to date were collected by Bob Moseley on Diamond Peak from about 3566 m to 3658 m and include *Cymopterus nivalis* S. Wats., *Draba lonchocarpa* Rydb., *Penstemon montanus* Greene var. *montanus*, *Saxifraga cespitosa* L., and *Taraxacum officinale* G.H. Weber ex Wiggers.

Some notable low-elevation portions of the study area (<1600 m) include areas bordering the Snake River Plains, parts of the CNG, and low-elevation portions of the Malad Range. The Snake River descends to about 1545 m before leaving CTNF boundaries in Bonneville County. The federally threatened orchid *Spiranthes diluvialis* Sheviak is found along certain parts of the Snake River near here. Part of the Curlew NG south of Holbrook and part of the CTNF in the western foothills of the Malad Range are situated near 1400 m, which are likely the lowest-elevation areas in the CTNF-CNG.

As with Idaho and the Rocky Mountains overall, the geology in the CTNF-CNG is complex and its details are beyond the scope of this study. However, some taxa prefer one to a few soil types or rock types and can be used to highlight the distinctness of various substrates (e.g., limestone). The purpose of this section is to broadly highlight some geologic/geographical trends and notable outcrops (moving counterclockwise from south to north within the study area), because many substrate types in the area can harbor rare, endemic or disjunct plant species, some of which are noted.

The Curlew National Grassland is situated in and near the Curlew Valley in southern Idaho. The topography here is dominated by rolling hills and flat plains, some of which were once farmed but abandoned and transferred to federal stewardship with the onset of the Dust Bowl in the 1920's and 1930's (Beitia and Gunnell 1986). Consequently, a large share of non-native vegetation can be found in certain portions of the CNG, although some native communities remain partly to mostly intact. The regionally endemic and globally rare *Erigeron katiae* Welsh and Atwood has been collected in at least one location in the CNG, being known only from Oneida Co., Idaho and northern Utah (Kartesz 2022).

The Malad, Bannock, and Portneuf Ranges extend from northern Utah (Malad Range) to the area near Pocatello, Idaho (Portneuf and Bannock Ranges); parts of these ranges harbor noteworthy floristic elements from the south. These ranges are largely underlain by sedimentary and metamorphic rocks, including limestone and quartzite (Link et al. 2021). The highest peak in the Bannock Range (Oxford Peak) and the highest in the Portneuf Range (Bonneville Peak) ascend above 2750 m. Floristically, influences from the south are evident in the presence of at least a few taxa. *Mertensia brevistyla* S. Wats., more common to the south, is only present in Idaho in this region (Kartesz 2022) and occurs in the Malad and Bannock ranges (as well as the Bear River Range). *Oenothera coronopifolia* Torr. & Gray is found in the Malad Range, being more common in other regions to the south and east (Kartesz 2022). *Hydrophyllum occidentale* (S. Wats.) Gray is locally common to dominant in the understory of some forests dominated by *Acer grandidentatum* Nutt. var. *grandidentatum* in the central Bannock Range in Oneida County (see Appendix). *H. occidentale* is mostly known from regions to the south and west of the study area and in the central Bannock Range is at the northeastern end of the main part of the Utah/Arizona/Idaho portion of its distribution (Kartesz 2022).

The Bear River Range geologically is the north-most extension of the broader Wasatch Range of Utah. It is underlain largely by sedimentary rock (Link et al. 2021). The entire Bear River Range of Utah and Idaho is home to 13 locally endemic or sub-regionally endemic species, but the majority of these occur only in Utah (Shultz and Smith 2018). However, the rare and recently described *Musineon naomiensis* L.M. Shultz & F.J. Smith is found in both the Utah and Idaho portions of the Bear River Range (Shultz and Smith 2018). Other rare endemic taxa in the Idaho portion of the Bear River range include *Penstemon compactus* (Keck) Crosswhite and *Boechera lasiocarpa* (Rollins) Dorn (see Results).

Some of the siltstone and limestone outcrops in southwestern Wyoming also extend into Bear Lake and Caribou Counties, including formations like Twin Creek Limestone (Link et al. 2021). Consequently, one dominant trait of this area is shale slopes that appear to support quite different plant communities than do surrounding slopes. Some of these outcrops support disjunct or regionally endemic taxa such as *Ericameria winwardii* (Dorn & Delmatier) R.P. Roberts & Urbatsch, *Astragalus jejunus* S. Watson var. *jejunus*, and a *Lomatium* or relative of currently undetermined taxonomic assignment (M. Darrach, pers. comm., Nov. 2022).



The phosphate-rich Phosphoria Formation can be found in and near the Preuss and Caribou Ranges, where some areas are currently mined (Link et al. 2021). Despite the distinctness of substrate in terms of phosphate content, no endemic or disjunct plant taxa are known to occur specifically on this substrate. However, some rare taxa occur in this area, including *Botrychium lanceolatum* (Gmel.) Angstr. and *Thelypodium paniculatum* A. Nels.

Two of the highest peaks in the Preuss and Caribou Ranges are Meade Peak and Caribou Mountain. Meade Peak and the adjacent Snowdrift Mountain harbor some disjunct taxa that are otherwise uncommon or undocumented from the southeastern corner of Idaho, including *Oxytropis parryi* Gray, *Silene scouleri* Hook. subsp. *hallii* (S. Wats.) C.L. Hitchc. & Maguire, and *Juncus hallii* Engelm. (see results). Caribou Mountain may harbor some disjunct high-elevation species; also, a specimen was recently collected on a lower slope of Caribou Mountain that may represent *Cymopterus purpureus* S. Wats. (Cook 2020), a species previously unknown from Idaho but relatively widespread to the south (Kartesz 2022).

The Snake River Range rises roughly perpendicular to the Teton Range and generally appears as a continuation across the Snake River of the Salt River and Wyoming Ranges. Some subalpine/alpine plants that are rare in Idaho occur in higher portions of the Snake River Range, including *Astragalus shultziorum* Barneby and *Salix glauca* L. var. *villosa* (D. Don ex Hook.) Anderss. The northern extension of the Snake River Range, beyond Pine Creek Pass, is often locally referred to as the Big Hole Mountains and is capped by lower-elevation peaks than occur in the southern Snake River Range.

The high-elevation Teton Range contains a variety of rock types, including significant areas of granitic and sedimentary deposits (Love et al. 1992, Foster et al. 2010). Some high-elevation species found in alpine areas of the broader Rocky Mountains are found in this area, including *Androsace chamaejasme* Wulfen ex Host and *Draba globosa* Payson. Perhaps due to the relatively moist environment, some unusual plants also grow in montane forests in the Teton Range and neighboring plateaus in Teton Co., Wyoming, such as *Botrychium crenulatum* W.H. Wagner (Heidel and Kesonie 2008) and *Anemone lyallii* Britt. Also, the portion of the CTNF in Teton Co., Wyoming collectively boasts a relatively large share of certain groups of plants such as *Carex* (50 taxa) and Ericaceae (15 taxa); this could be linked to the relatively moist environment combined with large amounts of topographic relief, including significant tracts of both alpine habitat and lower-elevation wetlands.

The Island Park caldera is geologically dominated by igneous substrates such as rhyolite and basalt derived from the volcanic history of the area (Link et al. 2021). Some rare boreal wetland-obligate taxa occur in wetlands in the CTNF in this area and/or in the adjacent Idaho portion of Yellowstone National Park, including *Drosera anglica* Huds., *Cicuta bulbifera* L., and *Scheuchzeria palustris* L. subsp. *americana* (Fern.) Hultén.

The peaks locally referred to as the Henry's Lake Mountains represent the southern-most extent of the Madison Range of southwestern Montana (Markow 1994, Link et al. 2021). The Henry's Lake Mountains are floristically somewhat unique; some Rocky Mountain taxa reach this area and are unique in Idaho, including *Mertensia tweedyi* Rydb. Another rare Rocky Mountain taxon present here is *Trifolium parryi* Gray subsp. *montanense* (Rydb.) J. Gillett, occurring only in two areas in Idaho: the Henry's Lake Mountains and the nearby Centennial Range (Kartesz 2022, CPNWH 2023).

The Centennial Range is atypical among most ranges of the Western Cordillera because, as with the Uintah (Utah) and Owl Creek (Wyoming) Ranges, it trends east-west (Alt and Hyndman 1991, Markow 1994, Link et al. 2021); the Centennial Range forms the Continental Divide and the Idaho/Montana border for roughly 100 km. Mount Jefferson, at the eastern end of the Centennial Range, harbors a disjunct population of *Castilleja puberula* Rydb., which is otherwise only known from Colorado (Egger 2015). The western end of the Centennial Range is geologically unique and is often referred to as the Red Conglomerate Peaks. These peaks and ridges include the type locality of, and what was long thought to be the only habitat of *Ericameria parryi* (A. Gray) Nesom & Baird var. *montana* (L.C. Anderson) Nesom & Baird (see Results).

Geologic features of the Great Basin also occur in east-central Idaho, including the northwest corner of the study area in the Lemhi Range and Beaverhead Mountains (Ertter and Moseley 1992, Link et al. 2021). The geology of this area is largely dominated by limestone in the mountains and alluvial fans in the valleys below (Ertter and Moseley 1992). Whereas rocks in these mountains are similar to those in other areas in central Idaho (Link et al. 2021), the basin and range topography typical of the Great Basin dominates the Beaverhead Mountains, the Lemhi Range, and the Lost River Range and nearby valleys (Link et al. 1988, Ertter and Moseley 1992). Indeed, this region forms a northwest corner of the Basin and Range geologic province, which extends north from Nevada and Utah but was bisected by igneous rocks

formed by the more recent lava flows in the Snake River Plains (Link et al. 2021). The similarity in habitat and the historical geographic link likely contributed to the Great Basin/east-central Idaho disjunction of numerous plant taxa, such as *Anelsonia eurycarpa* (A. Gray) J.F. Macbr. & Payson and *Astragalus platytropis* A. Gray. Ertter and Moseley (1992) additionally point out that the broader region around the Lemhi and Lost River Ranges and Beaverhead Mountains harbors multiple endemic taxa and also contains the most concentrated, largest portion of alpine zone in Idaho.

## CHAPTER II

### MATERIALS AND METHODS

#### *Field Work*

As recommended by James et al. (2018), I consulted online botanical specimen databases (CPNWH 2021, IRHN 2021) by querying various parts of the study area in southeastern Idaho. This allowed me to record approximate collection densities and initially identify some apparent geographic gaps in past collections. The map produced by Schmidt and Kartesz (2015) also helped determine which counties merited more or less collecting effort based on collection saturation.

Several dozen areas within the study area were visited during April–August 2021 and May–August 2022. Some areas were targeted based on unique soils and geology, such as shale outcrops. Untimed versions of a modified meander search technique (Goff et al. 1982) were used to document a wide diversity of vascular plant communities and species at collection areas. Focal areas included wetland and riparian areas, given their typically high levels of plant diversity. I deposited a nearly complete set of all voucher specimens collected at the T.M. Sperry Herbarium (KSP; abbreviations follow IH 2023) at Pittsburg State University, with duplicates of some specimens to be distributed to herbaria in Idaho and/or neighboring regions. In one case, I sent a unicate specimen of *Draba thompsonii* to the Missouri Botanical Garden as a gift for its identification by Dr. Ihsan Al-Shehbaz. To the extent allowed by quality of the material collected and available time, references, and expertise, I (or other botanists) have determined nearly all specimens to the level of species or to infraspecific level. I used standard taxonomic references for identification and consulted some experts in various taxonomic groups for help with specimen identification or identification verification (see Acknowledgments).

### *Specimen Data and Collection*

Data fields for specimens generally followed DarwinCore standards, following best practices. Such data generally include collector, collector number, date, verbal description of locality, precise GPS coordinates, habitat type, and reproductive condition. Many specimens additionally included measures of relative abundance (e.g., locally common, locally uncommon, etc.) and other field observations. I recorded measures of abundance subjectively based on the number of individuals apparent at a glance but also in some cases I included the relative abundance in the general area (e.g., along a ridge or canyon bottom). Collection data, including GPS coordinates, for all collections have been uploaded and are available in online Symbiota-connected databases and consortium websites (e.g., IRHN 2023, SEINet 2023).

Collected specimens typically were placed in plastic freezer or storage bags on ice for 1–2 days before being pressed. Once pressed between newsprint and cardboard in plant presses, the specimens were dried for a minimum of two days in a horizontal, passive-air flow plant drier fitted with incandescent bulbs for heat.

### *Compilation of the Annotated Checklist*

To compile the final annotated checklist, I consulted the data from specimens newly collected for this project and species checklists and select supporting vouchered specimens searchable in online botanical databases (CPNWH 2023, IRHN 2023, RMH 2023). Many historical specimens were included and contributed data to the checklist, but some were excluded from consideration or considered with some reservation (especially those with doubtful identifications or imprecise localities). For an annotated checklist of this size, inadvertent omissions are inevitable; I have almost certainly missed some county presences and likely some taxa. The likelihood of omissions seems substantial given that data from some herbarium specimens are not yet available online, others are documented with only vague localities or are not georeferenced, and some are misidentified. However, future additions and corrections to the checklist can be accommodated in the Forest Service's working copy of the checklist derived from this research.

In addition to online specimen data portals, other modern databases and techniques were utilized in the production of the annotated checklist. For example, nomenclature largely follows the taxonomy employed in John Kartesz's Floristic Synthesis PC program (Kartesz 2022), with some exceptions.

Additionally, some of the copying-pasting and formatting work to generate the final formatted checklist was automated using a Python script generated with assistance from the online artificial intelligence software ChatGPT.

NatureServe conservation ranks (G, T, and S ranks) and USDA plant symbols are included in the annotated checklist. Most of the G and T ranks and USDA plant symbols are derived from Kartesz (2022), but in some instances I took G and/or T ranks from NatureServe ([natureserve.org](https://natureserve.org)), particularly when unavailable or of doubtful accuracy in Kartesz (2022). S ranks are derived either from the Idaho Native Plant Society Rare Plant List (INPS 2022), the Idaho Fish and Wildlife Information System website (IDFG 2023), the Wyoming Natural Diversity Database Wyoming Species List (WYNDD 2023) or NatureServe Explorer ([natureserve.org](https://natureserve.org)). In some cases, uncertainty may be expressed with a question mark in the checklist when there is disagreement between sources or when a source indicates uncertainty about the rank cited. Ranks that are listed as double ranks on [natureserve.org](https://natureserve.org) (indicating some uncertainty) are often rounded down (e.g., S3S4 being cited as S3), unless a double rank is specifically listed in INPS (2022) or when a double rank was determined to more accurately portray the conservation needs of the taxon, in which cases it is often listed as double in the Annotated Checklist.

Taxa included in the annotated checklist comprise those that have been documented as occurring in the CTNF-CNG, excluding low-elevation “islands” of USFS property, such as guard stations, work stations, or district offices. Counties included with a question mark after the county abbreviation indicate that the presence of that taxon in the CTNF-CNG in that county is possible but questionable. These questionable presences are often based on historical specimens, unverified literature reports, tentatively identified specimens, specimens with likely inaccurate identifications, or specimens with vague locality data. I verified the validity of each reported state and county record and each first report for the study area (e.g., absence of previous collections) with at least two or three data aggregators, often including Kartesz (2022), IRHN (2023), and CPNWH (2023).

## CHAPTER III

### RESULTS

#### *Summary*

A total of 1557 unique taxa (including species, subspecies, varieties, and hybrids), 1423 species (including hybrid species), 481 genera, and 94 families were represented in the vascular flora of the CTNF-CNG (see Annotated Checklist, Appendix). Approximately 68 additional taxa are known from old historical records, certain unvouchered literature reports, tentatively identified specimens, potentially incorrectly identified specimens, specimens with vague localities, and/or specimens collected just outside the CTNF-CNG borders. These 68 taxa were excluded from the above tally (1557) but are included in the Annotated Checklist and may be present in the CTNF-CNG. A total of at least three state records and 137 county records were documented, a few of which were reported previously (Daines et al. 2022). Approximately 142 taxa non-native to North America were documented from the CTNF-CNG, representing about 9.12% of the overall taxa present in the study area. This value was considerably lower than some parts of North America, which can have 20% or more non-native taxa by percentage.

Regional trends are apparent in the taxon richness patterns at the level of both family and genus in the vascular flora of the CTNF-CNG. The three richest families in the study area in terms of numbers of taxa are Asteraceae (Sunflower Family) – 239 taxa, Poaceae (Grass Family) – 151 taxa, and Brassicaceae (Mustard Family) – 106 taxa (Table 1). The three most taxon-rich genera in the study area are *Carex* L. (sedge) – 82 taxa, *Astragalus* L. (milk-vetch) – 37 taxa, and *Erigeron* L. (fleabane) – 30 taxa (Table 2). *Potentilla* L. (cinquefoil) and *Artemisia* L. (sagebrush) are tied for tenth place and are therefore both included.

Table 1. The ten most taxon-rich families in the vascular flora of the Caribou-Targhee National Forest and Curlew National Grassland.

Family	Number of taxa	Percentage of total taxa
Asteraceae (Sunflower Family)	239	15.40%
Poaceae (Grass Family)	151	9.70%
Brassicaceae (Mustard Family)	106	6.81%
Cyperaceae (Sedge Family)	95	6.11%
Fabaceae (Pea, Legume Family)	87	5.59%
Rosaceae (Rose Family)	68	4.37%
Ranunculaceae (Buttercup Family)	60	3.86%
Apiaceae (Carrot, Parsley Family)	46	2.96%
Plantaginaceae (Plantain Family)	46	2.96%
Boraginaceae (Borage Family)	45	2.89%

Table 2. The eleven most taxon-rich genera in the vascular flora of the Caribou-Targhee National Forest and Curlew National Grassland.

Genus	Number of taxa	Percentage of total taxa
<i>Carex</i> (sedge)	82	5.27%
<i>Astragalus</i> (milk-vetch)	37	2.38%
<i>Erigeron</i> (fleabane)	30	1.93%
<i>Poa</i> (bluegrass)	28	1.78%
<i>Ranunculus</i> (buttercup)	28	1.78%
<i>Penstemon</i> (beardtongue)	23	1.48%
<i>Salix</i> (willow)	23	1.48%
<i>Castilleja</i> (paintbrush)	22	1.41%
<i>Juncus</i> (rush)	21	1.35%
<i>Potentilla</i> (cinquefoil)	20	1.29%
<i>Artemisia</i> (sagebrush)	20	1.29%

Taxon richness varies considerably by county across the CTNF-CNG. The three counties with the most taxa recorded include Fremont Co., Idaho – 916, Teton Co., Wyoming – 791, and Clark Co., Idaho – 747 (Table 3). The counties with the three lowest values, Box Elder Co., Utah, Power Co., Idaho, and Cache Co., Utah, each harbor only a small portion of CTNF-CNG land; parcels of CTNF-CNG land also remain incompletely surveyed in these counties.



Table 3. Number and percentage of vascular plant taxa documented by county in the Caribou-Targhee National Forest and Curlew National Grassland.

County	Number of taxa	Percentage of total taxa
Fremont	916	58.9%
Teton, WY	792	50.9%
Clark	747	48.0%
Bonneville	699	44.9%
Bear Lake	537	34.5%
Teton, ID	529	34.0%
Caribou	506	32.5%
Franklin	419	26.9%
Bannock	404	26.0%
Madison	359	23.1%
Lincoln	303	19.5%
Oneida	299	19.2%
Lemhi	298	19.2%
Butte	233	15.0%
Box Elder, UT	32	2.1%
Power	31	2.0%
Cache, UT	3	0.2%

A total of 3189 new collections were made for this project in 2021–2022, with Neil Snow contributing 549 (Table 4). Collections were made in 11 counties in the study area but not in Cache Co., UT, Fremont Co., ID, Lincoln Co., WY, Madison Co., ID, Teton Co., ID, and Teton Co., WY, some of which had high historical collection densities and/or contain a small portion of CTNF land. Collections were concentrated largely in the Curlew National Grassland, the Caribou (south) zone of the CTNF, and the Lemhi Range and Beaverhead Mountains (Figure 3). Relevant collection numbers of Daines include 71–1392, 1442–2634 and 2641–2735, whereas those of Snow include 11432–11538, 11562–11672, and 11720–12040.

Table 4. Numbers of recent collections mostly at the T.M. Sperry Herbarium, Pittsburg State University (KSP) by county and collector in and near the Caribou-Targhee National Forest and Curlew National Grassland.

	Bannock	Bear Lake	Bonneville	Box Elder	Butte	Caribou	Clark	Franklin	Lemhi	Oneida	Power	Total
Daines	138	341	120	38	124	696	185	334	77	556	31	2640
Snow	0	90	70	0	0	0	289	58	0	42	0	549
Total	138	431	190	38	124	696	474	392	77	598	31	3189

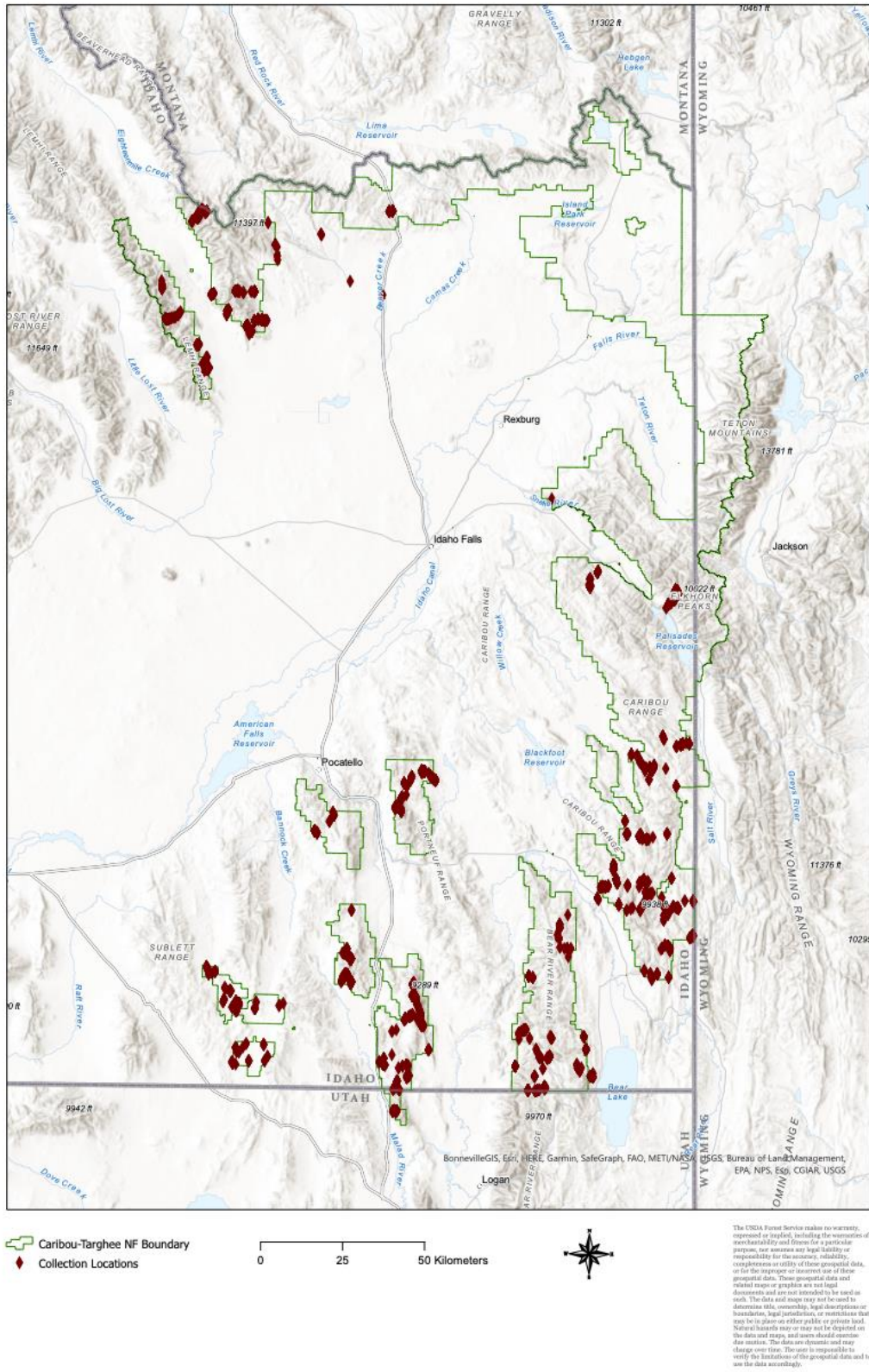


Figure 3. A map of locations of collections made by M. Daines and N. Snow in and near the Caribou-Targhee National Forest and Curlew National Grassland, 2021–2022.

### *State Records*

In connection with the present study, Daines et al. (2022) presented a new documentation in Idaho of *Sphaeralcea parvifolia* A. Nels. This species is more widespread to the south, but had been collected in Cache Co., Utah (Daines et al. 2022, Kartesz 2022). *Sphaeralcea parvifolia* had been used in a range planting study somewhere in the Curlew Valley (Pendery and Rumbaugh 1990), which may have been the source of this population (Daines et al. 2022). There is one specimen annotated as this species, collected in Custer Co., Idaho in 1941: *Marriage s.n.* (CHRB), however, the identification of this specimen may be questionable as this would be a disjunction of >175 km and Hitchcock and Cronquist (2018) and Kartesz (2022) do not recognize it there. The native status of this species in Idaho is still uncertain; without further collections or information, it may be best to tentatively view this species as an adventive taxon.

The following state records are new reports not yet reported in the literature. *Draba thompsonii* (C.L. Hitchc.) G. Mulligan & Al-Shehbaz was previously known only from Yukon, British Columbia, and the north Cascades of Washington (Kartesz 2022, I. Al-Shehbaz, pers. comm., Mar. 2022). The species may be known from < 30 collections globally (CPNWH 2023, Al-Shehbaz, pers. comm.) but does not appear to have been given a global NatureServe status rank at the species level. At the varietal level, the combination *Draba lonchocarpa* Rydb. var. *thompsonii* (C.L. Hitchc.) Rollins has been assigned a rank of T3T4 (natureserve.org). I found this species on the east slope of the Lemhi Range, Butte County, Idaho, approximately 700 km southeast of the nearest known populations in the central Cascade Range of Washington. The collection occurred at an elevation of 3296 m near the base of a small rock ridge running perpendicularly to the main ridge in the alpine zone of the Pass Creek drainage. My field notes indicate that this species was very uncommon at the collection locality. The one voucher specimen collected (Daines 2515) is housed at the Missouri Botanical Garden (MO). Individuals are quite small, but the species is somewhat distinctive due to its twisted fruits that are wider and fewer-seeded than the fruits of the common and similar *Draba lonchocarpa* Rydb (Hitchcock and Cronquist 2018). Al-Shehbaz (pers. comm., Mar. 2023) indicated that he believes this species may be more common than we realize, since it is easily overlooked. Targeted surveys for *D. thompsonii* in nearby alpine areas in the Lemhi Range as well as alpine areas of nearby mountain ranges (e.g., Lost River Range, Beaverhead Mountains, Pioneer Range, and others) may be useful to clarify the global and regional distribution of this *Draba*.

*Bochera lasiocarpa* (Rollins) Dorn was previously known only from northern Utah, including the Bear River Range (Kartesz 2022, IRHN 2023, Al-Shehbaz and Windham 2010) and is considered rare (S3) in Utah. This species was reported from Idaho by Rollins (1993) and Holmgren et al. (2005), possibly based on a what proved to be a then-undescribed species, *B. rollinsiorum* Windham & Al-Shehbaz (Al-Shehbaz and Windham 2010). I collected a specimen identifiable as *B. lasiocarpa* in a grassy subalpine rock outcropping on the south ridge of Sherman Peak, in the Bear River Range, Bear Lake County, Idaho: *Daines 2493* (KSP). Some morphologic traits of this specimen do not match *B. lasiocarpa* perfectly. For example, its pedicels are at the short end of the known range or somewhat shorter (*Daines 2493* has pedicels about 2.5–4 mm long), but this species seems to be the best fit. Future collections or verification by an expert in the genus could help confirm the identification of this state record.

*Astragalus oophorus* S. Watson var. *caulescens* (M.E. Jones) M.E. Jones is generally considered to be a taxon of Utah, Nevada, Arizona, and Colorado (Kartesz 2022). Two specimens from Idaho are known: *Anderson 121*, *Atwood 13642* (OGDF), but Kartesz (2022) records neither this variety nor any other variety of this species in Idaho. The identity of these two specimens was not confirmed. During the field work for this study, two or three specimens were collected that represent this taxon. The pertinent voucher specimens were collected in the Curlew National Grassland and are *Daines 104*, *221*, and *1960* (KSP). However, *Daines 1960* was collected in flower, not in fruit. Consequently, it may represent a variety of *Astragalus beckwithii* Torr. & A. Gray, which is difficult or impossible to reliably distinguish from *Astragalus oophorus* in the absence of fruits. If the two historical specimens are confirmed as *A. beckwithii* or another species, then the new collections (at least *Daines 104* and *221*) would represent a state record for this variety (and the species) in Idaho. At a minimum, my new collections serve to confirm the variety's presence in Idaho and represent a county record for Oneida County.

*Castilleja puberula* Rydb. was reported for the Montana flora for the first time in 2015 (Egger 2015), where it had been recognized from the Montana portion of Mount Jefferson in the Centennial Range (in the CTNF). Previously, this species had been known as a Colorado endemic (Egger 2015). In addition, in 2021, David Tank annotated two specimens at the University of Idaho Stillinger Herbarium as *C. puberula*: *D. Henderson 5887*, *Mancuso 2208* (ID). These two specimens appear to be the first documented records of *C. puberula* in Idaho and were collected just across the border from the Montana specimens

cited by Egger (2015). While the presence of *C. puberula* in Idaho does not appear to have been publicized, I include it here. Even though *C. puberula* is not tallied with the newly documented state records, I do symbolize this species as a state record in the Annotated Checklist to bring attention to its recently discovered presence in Idaho (see Appendix).

### *County Records*

During this project, at least 137 county records were documented (see Annotated Checklist, Appendix). County records were documented in 10 of the 11 counties where plants were collected (Table 5). Approximately 45% of the county records (61) were collected in Oneida County; over 12% of specimens collected in Oneida County (or about 1 in 8) represented a county record. In all, approximately 5% of specimens collected in the study area (or about 1 in 20) represented a county record. Over 20% of the flora of the CTNF-CNG in Oneida County was previously undocumented in that county (Table 5). State records are not counted in the tally of county records, following standard practice.

Table 5. Number and percent share of county records by county where new collections were made, Caribou-Targhee National Forest and Curlew National Grassland (2021-2022).

	# of county records	% of taxa in the CTNF-CNG in each county that are county records
Oneida	61	20.40%
Franklin	23	5.50%
Bear Lake	16	2.98%
Caribou	10	1.98%
Clark	10	1.34%
Bannock	6	1.49%
Bonneville	3	0.43%
Butte	3	1.29%
Power	3	9.68%
Box Elder	2	6.25%
Lemhi	0	0%
Total	137	N/A

### *CTNF-CNG First Records*

First records for the CTNF-CNG were made for at least 38 taxa (including some of the state and county records also tallied above; see Appendix). All three state records also represented first reports for the CTNF-CNG: *Boechera lasiocarpa*, *Draba thompsonii*, and *Sphaeralcea parvifolia*. These first reports also include some low-elevation species found on margins of the study area, some species found on geographical peripheries of the study area, and two found in subalpine or alpine areas. *Penstemon pumilus* Nutt. and *Astragalus calycosus* Torr. ex S. Watson var. *calycosus* are some examples of taxa found in low-elevation areas in and near the Beaverhead Mountains. Records for the study area reported here also include some disjunct taxa found near the Utah/Idaho border, including *Comandra umbellata* (L.) Nutt. subsp. *californica* (Eastw. Ex Rydb.) Piehl and *Prunus emarginata* (Douglas) Eaton. Our record of *C. umbellata* subsp. *californica* represents a range extension north and east of approximately 500 km from collections of this taxon in Nevada and Oregon. One notable new record for the study area, *Festuca viridula* Vasey, was found in the alpine zone of the Lemhi Range, near the collection locality for *Draba thompsonii*. *Juncus hallii* Engelm. was collected for the first time in the CTNF-CNG, being known from only one other location in Idaho (INPS 2022). *Pinus ponderosa* P. & C. Lawson was collected for the first time in the CTNF-CNG (Daines et al. 2022). This pine had previously not been collected in southeastern Idaho, despite being widespread in most other regions of the western US (Kartesz 2022). The population in Bannock County, Idaho was likely planted near a USFS guard station and campground (Daines et al. 2022). It is not presently known if populations in Bonneville and Fremont Counties, Idaho are of native origin.

Included in the tally of 38 CTNF-CNG first reports are eight non-native taxa that were found for the first time in the CTNF-CNG. Thus, about 21.1% of the new records to the study area are non-native taxa. One such species is *Bromus sterilis*, documented by *Snow 11803* (KSP). Collected in the southern Beaverhead Mountains, Clark Co., this specimen represents a range extension of >275 km from the nearest documented populations in northern Utah and western Idaho (IRHN 2023, Kartesz 2022). The provenance and method of introduction of this taxon into the study area is uncertain, although livestock operations and recreational vehicles are potential candidates for the conveyance of seed. Another notable non-native species found on the CTNF for the first time is *Polygonum aviculare* L. subsp. *neglectum* (Bess.) Arcang. This record is disjunct almost 150 km from the nearest specimen collected in Salt Lake County, Utah and

was not known previously in Idaho (Costea et al. 2005). Recently, however, it was also collected in 2021 in western Idaho: *Mansfield 21374* (CIC). The other six non-native taxa found for the first time in the CTNF-CNG include *Bromus briziformis* Fisch. & C.A. Mey, *Eremopyrum triticeum* (Gaertn.) Nevski, *Halogeton glomeratus* (Bieb.) C.A. Mey., *Holosteum umbellatum* L., *Hordeum murinum* L subsp. *glaucum* (Steud.) Tzvelev, and *Populus alba* L.

#### *Forest Service Sensitive Species*

Some Forest Service Region 4 Sensitive Species were collected, including *Astragalus jejunus* S. Watson var. *jejunus*, the Federally Threatened *Pinus albicaulis* Engelm., and the regionally endemic *Ericameria parryi* (A. Gray) Nesom & Baird var. *montana* (L.C. Anderson) Nesom & Baird. Specifically, a population of *E. parryi* var. *montana* was discovered on the divide between Rocky Canyon and Sawmill Canyon in the Lemhi Range (Butte County), representing a significant range extension and a county record. The presence of this taxon in the Lemhi Range came by surprise, since all previous literature reported the variety to be narrowly endemic to the Red Conglomerate Peak area (Gary Baird, pers. comm., Sept. 2022, e.g., Mancuso and Moseley 1990, Hitchcock and Cronquist 2018). Discussion with Dr. Gary Baird of BYU-Idaho (pers. comm., Sept. 2022) revealed that there is a specimen identified as *E. parryi* var. *montana* that was collected at lower elevations near the mouth of Meadow Canyon, also on the east side of the Lemhi Range: *Rosentreter 4324* (CIC), although in-person examination of the specimen suggested that this is likely a mis-identified specimen of *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *graveolens* (Nutt.) Reveal & Schuyler (D. Mansfield, pers. comm., Apr. 2023).

#### *Rare Taxa*

Collections were made of multiple species classified as rare (NatureServe conservation ranks S1–S3), some of which are specifically tracked in the Idaho Native Plant Society’s Rare Plant List (INPS 2022). In addition to some of the other records mentioned above, rare species that were collected include *Eriogonum mancum* Rydb., *Astragalus shultziorum* Barneby, and *Thelypodium paniculatum* A. Nels. As deemed necessary or helpful, reports on new collections of rare or potentially rare taxa will be submitted to

the Idaho Fish and Wildlife Information Service (IDFG 2023) for inclusion in their database of rare plant occurrences.



## CHAPTER IV

### DISCUSSION

Factoring in the previously documented diversity of the Caribou NF and Curlew NG, recent collections, non-native introductions, and taxonomic adjustments, the present study demonstrates a net increase of at least 452 taxa beyond what was documented from most of the Targhee NF and adjacent land by Markow (1994), for a total of 1556 taxa. The total number also exceeds the total of 1,347 taxa recorded by Irwin (2014) for the area in and near the adjacent Salmon-Challis NF. The thin portion of the CTNF in the southeastern Lemhi Range is the only shared area between this study and Irwin (2014). The larger number of taxa documented in this study is due partially to the geographically dispersed and ecologically varied nature of the CTNF-CNG, its wide expanse, and a greater number of taxa probably having moved north from the Madro-Tertiary geoflora (Axelrod and Raven 1985). Stated another way, the CTNF-CNG includes portions of more floristic regions than the area covered by Irwin (2014).

A taxon density of 0.143 taxa/km<sup>2</sup> has been documented for the CTNF-CNG, which is similar to the 0.142 taxa/km<sup>2</sup> that Markow (1994) documented in and near the Targhee NF. Irwin (2014) documented 0.049 taxa/km<sup>2</sup> for the areas in and near the adjacent Salmon-Challis NF. Kesonie and Hartman (2011) documented 0.485 taxa/km<sup>2</sup> in and near Grand Teton National Park, including part of the CTNF in Wyoming, but that general area had received focused attention from botanist for many decades (e.g., Shaw 1958). These taxon densities are difficult to accurately compare because smaller and/or topographically heterogeneous areas would be expected to generally exhibit greater diversity per square unit than larger and/or topographically homogeneous areas.

Despite the addition of 3189 additional collections, the collection density for this study was substantially lower than some other regional projects. For example, this study totaled about 0.29 collections/ km<sup>2</sup>, whereas Markow (1994) collected about 1.73 specimens/ km<sup>2</sup>. Kesonie and Hartman (2011) reported about 4.03 collections/km<sup>2</sup> and Irwin (2014) collected about 0.38 specimens/km<sup>2</sup>.

Differences in collection density between projects may in part reflect a trend toward increasingly integrative and synthetic floristic projects, as the data from relatively large numbers of specimens are now available in online databases for review and inclusion in floristic projects. Collecting philosophy and study area size are two factors that likely also influence collection density.

My results support the reality of the Wallacean Shortfall (Lomolino 2004), even in a well-studied region such as the western United States. The Wallacean Shortfall is the idea that we have an incomplete understanding of the geographic distribution of life on Earth (Lomolino 2004). The 134 county records and three state records reported here demonstrate that the Wallacean Shortfall is applicable to the flora of the CTNF-CNG. On a smaller scale, the fact that over 20% of the flora in the CTNF-CNG in Oneida County was previously undocumented at the county level is a further testament to the regional applicability of the Wallacean Shortfall.

The major product of this study is an updated annotated checklist (see Appendix), which will be of immediate value to employees of the USDA Forest Service, academic researchers, ecologists, conservationists, students, and others interested in the flora of the region. The checklist includes common names for families and species and USDA plant symbols for many taxa, which should extend its usefulness to those performing a variety of plant surveys where common names and plant symbols may be employed. In addition, the checklist provides current information on many recent records and rare taxa and should help further research on rare plants and other recently documented species in the area. Beyond rare taxa, additional information on a variety of taxa is included in the checklist. Also included are notes concerning taxa for which their reported presence on the CTNF-CNG remains questionable.

The name of each taxon listed is hyperlinked to the respective webpage on SEINet (2023), which provides images, links to a map of collections and other related resources, and often a species description. SEINet is powered by Symbiota, a biodiversity collections data infrastructure that allows for cross-consortium sharing of biodiversity data (Gries et al. 2014). Symbiota is hosted at Arizona State University and helps make available in a single online search the specimen data and images from hundreds of herbaria. The hyperlinks will help provide the user of the annotated checklist a more modern experience. Enhancing annotated checklists using hyperlinks and biodiversity informatics is not yet standard practice, so this

annotated checklist serves as an example of enhancing checklists using hyperlinks to online biodiversity information.

Future directions for research beyond the scope of this project could include distributional and other research on rare plants as well as continued collecting to fill in geographic collection gaps. Many rare plants occur in the CTNF-CNG; for many of these, distributional and population count data are lacking. Further field work would better document the extent of rare plant occurrences as well as current population sizes. Such field work on the CTNF-CNG would be especially useful for taxa with little or outdated distributional data, including *Botrychium crenulatum* W.H. Wagner, *Castilleja puberula* Rydb., *Cymopterus purpureus* S. Wats., *Draba thompsonii*, *Ericameria parryi* var. *montana*, and *Erigeron katiae* Atwood & Welsh. Some collection gaps still exist in portions of the CTNF-CNG, including small portions at the peripheries of the study area in Box Elder Co. and Cache Co., Utah. Additional collection gaps exist in areas where numerous historic specimens are known, but modern collections are somewhat fewer. As an example, Caribou Mountain in Bonneville County merits future concentrated collections. Other future focal areas include difficult-to-access alpine areas in the Lemhi Range, some of which remain under-sampled for vascular plants, as well as diverse wetlands on the plateaus bordering Yellowstone National Park that harbor disjunct and rare taxa.

## REFERENCES

- Al-Shehbaz, I.A. and J.F. Gaskin. 2010. *Lepidium*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 7, pp. 570–595.
- Al-Shehbaz, I.A. and M.D. Windham. 2010. *Boecheera*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 7, pp. 348–412.
- Alt, D.D. and D.W. Hyndman. 1991. Roadside Geology of Idaho, 1<sup>st</sup> edition. Mountain Press Publishing Co., Missoula, MT.
- Axelrod, D.I., P.H. Raven. 1985. Origins of the Cordilleran flora. *Journal of Biogeography* 12: 21–47.
- Baird, G.I. 2006. *Agoseris*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 19, pp. 323–335.
- Ball, P.W. and A.A. Reznicek. 2002. *Carex*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 23, pp. 254–572.
- Bayer, R.J. 2006. *Antennaria*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 19, pp. 388–415.
- Beitia, F. and F. Gunnell. 1986. Curlew National Grassland. *Rangelands* 8(5): 207–210.
- Brooks, R.E. and S.E. Clemants. 2000. *Juncus*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 22, pp. 211–255.
- Brouillet, L., J.C. Semple, G.A. Allen, K.L. Chambers, and S.D. Sundberg. 2006. *Symphyotrichum*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 20, pp. 465–539.
- CPNWH (Consortium of Pacific Northwest Herbaria). 2021–2023. Specimen Database. University of Washington Herbarium. Available at: [pnwherbaria.org/data/search.php](http://pnwherbaria.org/data/search.php).
- Cook, T. 2020. The 13<sup>th</sup> Annual Idaho Botanical Foray. *Sage Notes* 42(3): 1, 4-6.

- Costea, M., F.J. Tardif, and H.R. Hinds. 2005. *Polygonum*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 5, pp. 547–571.
- Cronquist, A. 1994. Intermountain Flora: Vascular Plants of the Intermountain West, U.S.A. Vol. 5: Asterales. New York Botanical Garden, Bronx, NY.
- Cronquist, A., N.H. Holmgren, and P.K. Holmgren. 1997. Intermountain Flora: Vascular Plants of the Intermountain West, U.S.A. Vol. 3, Part A: Subclass Rosidae (Except Fabales). New York Botanical Garden, Bronx, NY.
- Daines, M., A. Anzjon, M. Gay, L. Headings., J. Huckabee, M. Marine, T. Poolman, S. Scoggins, R. Styers, I. Villafañe, and N. Snow. 2022. Numerous distributional novelties collected by students for Idaho, Kansas, Missouri, Oklahoma, and Texas. *Journal of the Botanical Research Institute of Texas* 16(2): 551–558.
- Davis, R.J. 1952. Flora of Idaho. William C. Brown Company. Dubuque, IA.
- Dorn, R.D. 2001. Vascular Plants of Wyoming, 3<sup>rd</sup> edition. Mountain West Publishing, Cheyenne, WY.
- Egger, J. M. 2015. Range Extension and First Montana Records for *Castilleja puberula* Rydb. (Orobanchaceae). *Phytoneuron* 2015-62: 1–8.
- Ertter, B. 2000. Floristic surprises in North America north of Mexico. *Annals of the Missouri Botanical Garden* 87(1): 81–109.
- Ertter, B. and B. Moseley. 1992. Floristic regions of Idaho. *Journal of the Idaho Academy of Science* 28(2): 57–70.
- Ertter, B. and R. Elven. 2014. *Potentilla* sect. *Pensylvanicae*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 9, pp. 211–218.
- Ertter, B., C. Prentice, D.H. Mansfield, J. Kabins, and G.M. Johnson. 2021. A new variety of *Montia parvifolia* (Montiaceae) in the High Idaho Batholith of Central Idaho and adjacent Montana. *Journal of the Botanical Research Institute of Texas* 15(1): 5–22.
- Ertter, B. and D.H. Mansfield. 2023. A new species of *Potentilla* (Rosaceae) from central Idaho. *Phytoneuron* 2023-07: 1–9.

- Evert, E.R. 2010. Vascular Plants of the Greater Yellowstone Area: Annotated Catalog and Atlas.  
Published Privately by the author, Park Ridge, Illinois.
- Foster, D., S.H. Brocklehurst, R.L. Gawthorpe. 2010. Glacial-topographic interactions in the Teton Range, Wyoming. *Journal of Geophysical Research: Earth Surface* 115 (F01007): 1-20.
- Freeman, C.C. 2019. *Penstemon*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 17, pp. 82–255.
- Goff, F.G., G.A. Dawson, and J.J. Rochow. 1982. Site examination for threatened and endangered plant species. *Environmental Management* 6: 307–316.
- Greve, M., A.M. Lykke, C.W. Fagg, R.E. Gereau, G.P. Lewis, R. Marchant, A.R. Marshall, J. Ndayishimiye, J. Bogaert, and J.-C. Svenning. 2016. Realising the potential of herbarium records for conservation biology. *South African Journal of Botany* 105: 317–323.
- Gries, C., E.E. Gilbert, and N.M. Franz. 2014. Symbiota – A virtual platform for creating voucher-based biodiversity information communities. *Biodiversity Data Journal* (2): e1114.
- Hammesfahr, A., P. Witham, C. Campbell, and N. Snow. 2020. Another confirmation of *Cyperus flavescens* (Cyperaceae) from Kansas, U.S.A. *Journal of the Botanical Research Institute of Texas* 14(2): 411–412.
- Hartman, R.L. 1992. The Rocky Mountain Herbarium, associated floristic inventory, and the Flora of the Rocky Mountains Project. *Journal of the Idaho Academy of Science* 28(2): 22-43.
- Hartman, R.L., and B.E. Nelson. 1998. Taxonomic novelties from North America north of Mexico: A 20-year vascular plant diversity baseline. *Monographs in Systematic Botany* 67: 1–59.
- Hartman, R.L., R.K. Rabeler, and F.H. Utech. 2005. *Eremogone*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 5, pp. 56–70.
- Heidel, B. and D. Kesonie. 2008. Teton Canyon botanical survey, Caribou-Targhee National Forest. Unpublished report prepared for Targhee National Forest by the Wyoming Natural Diversity Database, Laramie, WY.
- Henderson, D.M. 1992. Flora of East-Central Idaho: The Project. *Journal of the Idaho Academy of Sciences* 28(2): 75–81.

- Heywood, V. 2001. Floristics and Monography—An Uncertain Future? *Taxon* 50(2): 361–380.
- Hitchcock, C.L. and A. Cronquist. 2018. *Flora of the Pacific Northwest*, 2<sup>nd</sup> Edition. eds: Giblin, D.E., B.S. Legler, P.F. Zika, and R.G. Olmstead. Burke Museum and University of Washington, Seattle, WA.
- Holmgren, N.H., P.K. Holmgren, and A. Cronquist. 2005. *Intermountain Flora: Vascular Plants of the Intermountain West, U.S.A. Vol. 2, Part B: Subclass Dilleniidae*. New York Botanical Garden, Bronx, NY.
- Holmgren, N.H., P.K. Holmgren, A. Cronquist, J.L. Reveal, A.H. Holmgren, and R.C. Barneby. 1972–2017. *Intermountain Flora: Vascular Plants of the Intermountain West*. 7 vols. New York Botanical Garden, Bronx, NY; Hafner Publishing Co., NY and London; and Columbia University Press, NY.
- IDFG (Idaho Department of Fish and Game). 2023. Idaho Fish and Wildlife Information System. Idaho Department of Fish and Game, Boise, ID. Available at: [idfg.idaho.gov/d7/data](http://idfg.idaho.gov/d7/data).
- IH (Index Herbariorum). 2023. New York Botanical Garden, Bronx, NY.
- INPS (Idaho Native Plant Society). 2022. Idaho Native Plant Society Rare Plant List. <https://idahonativeplants.org/rare-plants-list/>
- IRHN (Intermountain Region Herbarium Network). 2021–2023. Specimen Records. University of Utah. Available at: [intermountainbiota.org/portal/collections](http://intermountainbiota.org/portal/collections).
- Irwin, J.J. 2014. A Floristic Inventory of east-central Idaho, U.S.A. MS thesis, University of Wyoming, Laramie, WY.
- Irwin, J.J., R. Stubbs, R.L. Hartman. 2012. *Polemonium elusum* (Polemoniaceae), a new species from east-central Idaho, U.S.A. *Journal of the Botanical Research Institute of Texas* 6: 331–338.
- James, S.A., P.S. Soltis, L. Belbin, A.D. Chapman, G. Nelson, D.L. Paul, M. Collins. 2018. Herbarium data: Global biodiversity and societal botanical needs for novel research. *Applications in Plant Sciences* 6(2): e1024
- Johnson, L. A., L.M. Chan, K. Burr, and D. Hendrickson. 2012. *Navarretia furnissii* (Polemoniaceae), a new diploid species from the intermountain western United States distinguished from tetraploid *Navarretia saximontana*. *Phytotaxa* 42: 51–61.

- Johnson, G. M. 2019 Floristics and Biogeography of the High Idaho Batholith Ecoregion. MS Thesis, University of Idaho, Moscow, ID.
- Kartesz, J.T. 2022. Floristic Synthesis software (beta PC version), Biota of North America Program, Chapel Hill, NC.
- Kesonie, D.T.S. and R.L. Hartman. 2011. A floristic inventory of Grand Teton National Park, Pinyon Peak Highlands, and vicinity, Wyoming, U.S.A. *Journal of the Botanical Research Institute of Texas* 5(1): 357–388.
- Lee, C., C.R. Björk, and J. Whitton. 2022. *Townsendia lemhiensis* (Asteraceae, Astereae): A narrowly endemic new species from Idaho, USA. *Phytokeys* 193: 67–75.
- Legler, B.S. 2010. Additions to the vascular flora of New Mexico. *Journal of the Botanical Research Institute of Texas* 4: 777–784.
- Legler, B. S. 2011. *Phlox vermejoensis* (Polemoniaceae), A new species from northern New Mexico, U.S.A. *Journal of the Botanical Research Institute of Texas* 5(2): 397–403.
- Lewis, H. and P.C. Hoch. 2021. *Clarkia*. In: *Flora of North America* Editorial Committee, eds. 1993+. *Flora of North America North of Mexico*. 22+ vols. New York and Oxford. Vol. 10, pp. 160–189.
- Link, P.K., S. Willsey, and K. Schmidt. 2021. *Roadside Geology of Idaho*, 2<sup>nd</sup> edition. Mountain Press, Missoula, MT.
- Link, P.K., B. Skipp, M.H. Hait, Jr., S. Janecke, and B.R. Burton. 1988. Structural and stratigraphic transect of east-central Idaho: a field guide to the Lost River, White Knob, Pioneer, Boulder, and Smoky Mountains. In: Link, P.K. and W.R. Hackett, eds. *Guidebook to the Geology of Central and Southern Idaho*. Idaho Geological Survey Bulletin 27.
- Lomolino, M.V. 2004. Conservation Biogeography. In: *Frontiers of Biogeography: New Directions in the Geography of Nature*. eds.: M.V. Lomolino and L R. Heaney. Oxford University Press, Oxford, UK.
- Love, J.D., J.C. Reed, and A.C. Christiansen. 1992. Geologic map of Grand Teton National Park, Teton County, Wyoming. U.S. Geological Survey Miscellaneous Investigations Series Map I-2031.



- Mancuso, M. and R.K. Moseley. 1990. Field Investigation of *Chrysothamnus parryi* ssp. *montanus*: a Region 4 Sensitive Species on the Targhee National Forest. Idaho Department of Fish and Game, Boise, ID.
- Markow, S. 1994. A Floristic Survey of the Targhee National Forest and Vicinity. M.S. Thesis, University of Wyoming, Laramie, WY.
- Masson, V.J. 1994. Brief History of and Collector's index to the Wabash College Herbarium (WAB), Now Deposited at the New York Botanical Garden (NY). *Brittonia* 46(3): 211–224.
- Moseley, R.K., R. Bursik, and M. Mancuso. 1991. Floristic inventory of wetlands in Fremont and Teton Counties, Idaho. Conservation Data Center, Idaho Department of Fish and Game, Boise, Idaho. Available at: [https://www.idfg.idaho.gov/ifwis/idnhp/cdc\\_pdf/moser91d.pdf](https://www.idfg.idaho.gov/ifwis/idnhp/cdc_pdf/moser91d.pdf)
- O'Kane Jr., S.L. 2010. *Physaria*. In: Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 22+ vols. New York and Oxford. Vol. 7, pp. 616–665.
- Osborne, J.I. and T.G. Gronert. 1932. Wabash College. The first hundred years 1832–1932. R.E. Banta, Crawfordsville, IN.
- Pendery, B.M. and M.D. Rumbaugh. 1990. Survival and growth of globemallow [*Sphaeralcea*] species in dry land spaced-plant nurseries. *Journal of Range Management* 43(5): 428–432.
- Pimm, S.L. and J.H. Lawton. 1998. Planning for Biodiversity. *Science* 279(5359): 2068–2069.
- Poindexter, D.B., A.S. Weakley, and M.W. Denslow. 2011. New exotic additions and other noteworthy records for the flora of North Carolina. *Phytoneuron* 2011-42:1–14.
- Pryer, S.Y., N. Snow, and J. Kartesz. 2019. Floristic survey of vascular plants in Crawford and Cherokee Counties in southeastern Kansas, U.S.A. *Journal of the Botanical Research Institute of Texas* 13(2): 545–591.
- Pyke, G.H. and P.R. Ehrlich. 2010. Biological collections and ecological/environmental research: a review, some observations, and a look to the future. *Biological Reviews* 85: 247–266.
- Renner, S.S. and R.E. Ricklefs. 1994. Systematics and biodiversity. *Trends in Ecology and Evolution* 9(2): 78.
- RMH (Rocky Mountain Herbarium). 2022. Annual Report. University of Wyoming, Laramie.

- RMH (Rocky Mountain Herbarium). 2023. Specimen Database. University of Wyoming. Available at:  
[rmh.uwyo.edu](http://rmh.uwyo.edu).
- Rollins, R.C. 1993. The Cruciferae of Continental North America: Systematics of the Mustard Family from the Arctic to Panama. Stanford University Press, Stanford, CA.
- Rose, J. P. 2021. Taxonomy and Relationships Within *Polemonium foliosissimum* (Polemoniaceae): Untangling a Clade of Colorful and Gynodioecious Herbs. *Systematic Botany* 46(3): 519–537.
- Schmidt, G.J. and J.T. Kartesz. 2015. Approximate Percentage of Native Vascular Plant Saturation [map]. Biota of North America Program, Chapel Hill, NC. Available at:  
[http://bonap.org/2015\\_SpecialtyMaps/Density%20Gradient%202015/original/County\\_Saturation.png](http://bonap.org/2015_SpecialtyMaps/Density%20Gradient%202015/original/County_Saturation.png).
- SEINet. 2023. Data portal. Available online: <https://swbiodiversity.org/seinet/index.php>.
- Shaw, R.J. 1958. Vascular Plants of Grand Teton National Park. *The American Midland Naturalist* 59: 146–166.
- Shultz, L.M. and J.F. Smith. 2018. Novelties in *Musineon* (Apiaceae) and *Orthocarpus* (Orobanchaceae) in the Northern Wasatch Mountains of Utah and Idaho. *Madroño* 65(1): 60–64.
- Snow, N., S. Young, C. Curran, J. Kartesz. 2017. Vascular Plant Survey of the Neosho Bottoms Management Area (Grand River Dam Authority), Ottawa County, Oklahoma. *Phytoneuron* 2017-26: 1–27.
- Tedesco, P.A., R. Bigorne, A.E. Bogan, X. Giam, C. Jézéquel, and B. Hugueny. 2014. Estimating How Many Undescribed Species Have Gone Extinct. *Conservation Biology* 28(5): 1360–1370.
- USDA FS. 2012. Land Areas of the National Forest System. USDA Forest Service, Washington, D.C. Available online: [https://www.fs.usda.gov/land/staff/lar/LAR2011/LAR2011\\_Book\\_A5.pdf](https://www.fs.usda.gov/land/staff/lar/LAR2011/LAR2011_Book_A5.pdf)
- Weakley, A.S. 2005. change over time in our understanding of the flora of the southeastern United States: Implications for plant systematics, bioinformatics, and conservation. PhD Dissertation, Duke University.
- Weakley, A.S. 2020. Flora of the southeastern United States. University of North Carolina Herbarium, North Carolina Botanical Garden.

- Welsh, S.L. 1998. John Charles Frémont: Botanical Explorer. *Monographs in Systematic Botany* 66: i–viii, 1–450. Missouri Botanical Garden Press, St. Louis, MO.
- Welsh, S.L., N.D. Atwood, S. Goodrich, and L.C. Higgins (eds). 2015. *A Utah Flora*, 5<sup>th</sup> edition. Monte L. Bean Life Science Museum, Provo, UT.
- Whitehead, G. 1983. *Flora of the Island Park geothermal study area*. M.S. Thesis, Idaho State University.
- WYNDD (Wyoming Natural Diversity Database). 2023. Wyoming Species List. University of Wyoming, Laramie, WY. Available at: [https://wyndd.org/species\\_list/](https://wyndd.org/species_list/)

## APPENDIX

*Annotated Checklist Preface*

County abbreviations:

Bannock=BAN  
Bear Lake=BLK  
Bonneville=BON  
Box Elder=BOX  
Butte=BUT  
Cache=CCH  
Caribou=CAR  
Clark=CLK  
Franklin=FRN  
Fremont=FRT  
Lemhi=LEM  
Lincoln=LIN  
Madison=MAD  
Oneida=OND  
Power=POW  
Teton (ID)=TID  
Teton (WY)=TWY

Checklist entry format:

Genus species Authority var. or subsp. Authority; Common Name USDA abbreviation Global or T rank; county 1, county 2...; Comments (including some S ranks, synonyms, brief distributional information for selected taxa, selected voucher specimens, etc.).

**State record:** !, for example: ! *Genus species* L.; Common-name GESP G5; OND

**County record:** \*, for example: *Genus species* L.; Common-name GESP G5; \*OND

**First record for CTNF-CNG:** ~, for example: ~ *Genus species* L.; Common-name GESP G5; OND

**First record for CTNF-CNG and county record,** for example: ~ *Genus species* L.; Common-name GESP G5; \*OND

Voucher specimens of Daines and Snow often are cited to document a newly reported state or county record or a first documentation for the CTNF-CNG. Other selected voucher specimens are cited in some entries to highlight other important or unusual collections. Given the interstate nature of the CTNF-CNG boundaries, records could represent both a state record and a CTNF-CNG first report or only one or the other. Similarly, CTNF-CNG first reports may or may not also be county records. Thus, symbols may be combined. However, state records (which are necessarily also county records) are not marked as county records. In some cases, the data were not readily available to determine which variety or subspecies likely occurs in one or more counties. In these cases, the county is generally listed after the species (on the same line) but before the varieties or subspecies. For instance, in this example, it remains to be ascertained whether var. *angustifolia* or var. *latifolia* (or potentially some other variety) occurs in Oneida County:

*Genus species* L.; Common-name GESP G5; OND  
*Genus species* L. var. *angustifolia* L.; Common-name GESPA T5; CLK, CAR  
*Genus species* L. var. *latifolia* L.; Common-name GESPL T4; FRN, FRT

Taxon names are hyperlinked to the respective webpage on SEINet (2023). In some cases, especially when SEINet (2023) uses different accepted names than are used here, the link may redirect to a synonym. In addition, no SEINet webpage exists for at least a few taxa. However, these links should work in the future if SEINet (2023) updates their taxonomy to include these taxa.

NatureServe G, T, and S ranks are cited for many taxa. These conservation ranks indicate how at-risk a given taxon is. G ranks refer to a species' global range, T ranks refer to the global range of a subspecies or variety, and S ranks refer to the range of any species, subspecies, or variety within one state. Ranks are assigned a value of one to five, with one indicating imperiled and five indicating no conservation concern. At least in Idaho, taxa with S1, S2, and S3 ranks are generally included in the Idaho Native Plant Society's Rare Plant List (INPS 2022).

The distributional summaries included in the annotated checklist deal mostly with the ranges of species in the US and do not always consider their ranges in Canada or elsewhere. The taxonomic organization is by Ferns and Fern Allies, Gymnosperms, and Angiosperms. Families, genera, species and infraspecific taxa are arranged alphabetically within each.

Annotated Checklist

FERNS AND ALLIES

**Aspleniaceae: Spleenwort Family**

[\*Asplenium septentrionale\*](#) (L.) Hoffmann; Forked Spleenwort ASSE G4; FRN; S1 in ID; the only population of this species known in Idaho is found in the study area in Franklin Co., ID (Kartesz 2022); *Windham 95-196* (DUKE, UTC).

[\*Asplenium viride\*](#) Huds.; Bright-Green Spleenwort ASVI10 G4; BLK, TWY; S1 in ID; synonym: *A. trichomanes-ramosum* L.; uncommon, exhibits a scattered distribution in parts of the w US, also occurs in several counties in the Great Lakes area and ne US (Kartesz 2022).

**Athyriaceae: Lady Fern Family**

[\*Athyrium americanum\*](#) (Butters) Maxon; American Alpine Lady Fern ATAM G4; TWY

[\*Athyrium cyclosorum\*](#) Rupr.; Western Lady Fern G5; FRN, FRT; Also known as various varieties of *Athyrium filix-femina* (L.) Roth.

**Cystopteridaceae: Bladder Fern Family**

[\*Cystopteris fragilis\*](#) (L.) Bernh.; Brittle Bladder Fern CYFR2 G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, MAD, \*OND, TID, TWY; *Daines 289, 1508, 1928* (KSP040218, KSP041514, KSP041936).

**Dennstaedtiaceae: Bracken Fern Family**

[\*Pteridium aquilinum var. pubescens\*](#) Underwood; Hairy Northern Bracken Fern PTAQP2 G5T4; BAN, FRT, LIN, MAD, TID, TWY

**Dryopteridaceae: Wood Fern Family**

[\*Polystichum lonchitis\*](#) (L.) Roth; Northern Holly Fern POLO4 G5; BLK, BON, CAR, FRN, TID, TWY

**Equisetaceae: Horsetail Family**

[\*Equisetum arvense\*](#) L.; Field Horsetail EQAR G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY

[\*Equisetum laevigatum\*](#) A. Braun; Smooth Scouring-Rush EQLA G5; BAN, BLK, BON, CLK, FRN, FRT, MAD, \*OND, TID, TWY; *Daines 1301* (KSP041231).

[\*Equisetum praealtum\*](#) Raf.; Rough Horsetail EQPR3 G5; \*BLK, BON, FRN, FRT, TID, TWY; Synonym: *Equisetum hyemale* L.; *Daines 1518* (KSP041524).

[\*Equisetum scirpoides\*](#) Michx.; Dwarf Scouring-Rush EQSC G5; FRT; SNR in ID, but known from only one locality in the state, documented by *Markow 11053* (RM); somewhat scattered in the w US, from WA to the Black Hills of SD; more widespread in the ne and nc US.

[\*Equisetum variegatum var. variegatum\*](#) Variegated Scouring-Rush EQVAV G5T5; FRT

[\*Equisetum X ferrissii\*](#) Clute (pro sp.); [*hyemale* X *laevigatum*] EQFE; CLK, FRT

**Isoetaceae: Quillwort Family**

[\*Isoetes bolanderi\*](#) Engelm.; Bolander's Quillwort ISBO G4; FRN, TWY

### **Lycopodiaceae: Club-Moss Family**

[\*Lycopodiella inundata\*](#) (L.) Holub; Northern Bog Club-Moss LYIN2 G5; TWY; S2 in ID, SNR in WY; significantly disjunct in our area, otherwise known mostly from the e US and Pacific NW, including n ID and nw MT (Kartesz 2022).

### **Marsileaceae: Water-Clover Family**

[\*Marsilea oligospora\*](#) Goodding; Pacific Water-Clover MAOL3 G5; FRT

### **Ophioglossaceae: Adder's-Tongue Family**

[\*Botrychium crenulatum\*](#) W.H. Wagner; Scalloped Moonwort BOCR G3; TWY; S1 in WY; USFS Region 4 Sensitive Species; Heidel and Kesonie (2008) documented this plant via [photograph](#) in Teton Canyon, but apparently only one plant was seen (no voucher specimens are known for the study area); further field surveys are recommended.

[\*Botrychium lanceolatum\*](#) (Gmel.) Angstr.; Lance-Leaf Moonwort BOLA G4; CAR; S3 in ID; documented in s ID for the first time in 2020: *Antonelli 20038* (IDS); exhibits a somewhat scattered distribution in parts of the w US (Kartesz 2022).

[\*Botrypus virginianus\*](#) (L.) Michx.; Rattlesnake Fern G5; TWY; Synonym: *Botrychium virginianum* L. Sw.

[\*Sceptridium multifidum\*](#) (Gmel.) Nishida ex Tagawa; Leathery Grape Fern G5; FRT, TWY; Synonym: *Botrychium multifidum* (Gmel.) Trev.

### **Pteridaceae: Maidenhair Fern Family**

[\*Cryptogramma acrostichoides\*](#) R. Br.; American Rockbrake CRAC3 G5; BON, FRN, FRT, LIN, TWY  
[\*Cryptogramma stelleri\*](#) (Gmel.) Prantl; Fragile Rockbrake CRST2 G5; TWY; S1 in WY; a boreal sp. of scattered distribution in the w US, somewhat more widespread in the upper midwest and ne US (Kartesz 2022).

[\*Myriopteris gracilis\*](#) Fée; Slender Lip Fern G5; BUT, CLK, LEM; Synonym: *Cheilanthes feei* T. Moore.

[\*Pellaea breweri\*](#) D.C. Eat.; Brewer's Cliffbrake PEBR4 G5; BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, TWY

[\*Pellaea glabella var. occidentalis\*](#) (E. Nels.) Windham; Smooth Cliffbrake PEGLO3 G5T4; BON, TID?, TWY; Reported by Evert (2010) from Teton Co., ID, but no supporting voucher is available online (Kartesz 2022).

[\*Pellaea glabella var. simplex\*](#) (Butters) A.& D. Löve; Smooth Cliffbrake PEGLS3 G5T4; TWY; S1 in WY; of scattered distribution in the w US; disjunct in our area (and adjacent MT) from other populations by >200 km (Kartesz 2022).

### **Selaginellaceae: Spike-Moss Family**

[\*Selaginella densa\*](#) Rydb.; Dense Spike-Moss SEDE2 G5; BUT, \*CLK, FRT, TWY; *Daines 2016b* (KSP044878); synonym: *S. scopulorum* Maxon.

### **Woodsiaceae: Cliff Fern Family**

[\*Woodsia oregana\*](#) D.C. Eat.; Oregon Cliff Fern WOOR G5; FRN

[\*Woodsia oregana subsp. oregana\*](#) Oregon Cliff Fern WOORO G5T4; BON, CLK, \*POW, TWY; *Daines 1722* (KSP041728); *Snow 12040* (KSP046295) confirms that subsp. *oregana* is found in Clark Co.

[\*Woodsia scopulina\*](#) D.C. Eat.; Rocky Mountain Cliff Fern WOSC G5; BON, FRT, LEM, TWY

### **GYMNOSPERMS**

### **Cupressaceae: Cypress Family**

[\*Juniperus communis\*](#) L.; Common Juniper JUCO6 G5; FRN, OND



- [\*Juniperus communis\* var. \*depressa\*](#) Pursh; Low Common Juniper JUCOD G5T5; BAN, BLK, BON, BUT, CLK, FRT, LIN, TID, TWY
- [\*Juniperus communis\* var. \*kelleyi\*](#) R.P. Adams; Kelley's Common Juniper G5T4; BLK, BON, CLK, LEM; Relatively recently described, but widespread across much of the Pacific NW (Kartesz 2022).
- [\*Juniperus osteosperma\*](#) (Torr.) Little; Utah Juniper JUOS G5; BAN, BOX, BUT?, OND; Has not been collected in the CTNF in Butte Co., but satellite imagery reveals that *J. osteosperma* woodland at the southern end of the Lemhi Range likely extends up in elevation into the CTNF near Kyle Canyon.
- [\*Juniperus scopulorum\*](#) Sarg.; Rocky Mountain Juniper JUSC2 G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

### Pinaceae: Pine Family

- [\*Abies bifolia\* var. \*bifolia\*](#) Subalpine Fir G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, \*OND, TID, TWY; *Daines 2621* (KSP045485).
- [\*Larix occidentalis\*](#) Nutt.; Western Larch LAOC G5; TWY; Apparently historically planted or otherwise somehow naturalized in Darby Canyon, Teton Range; not native to the study area (Kartesz 2022, WYNDD 2023).
- [\*Picea engelmannii\*](#) Parry ex Engelm.; Engelmann's Spruce PIEN G5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, TID, TWY
- [\*Picea pungens\*](#) Engelm.; Blue Spruce PIPU G5; BON, CAR, LIN, TWY; Occurs in ID only in three counties, otherwise widespread from n WY to s NM (Kartesz 2022).
- [\*Pinus albicaulis\*](#) Engelm.; Whitebark Pine PIAL G3; BON, BUT, CLK, FRT, LEM, LIN, TWY; Recently listed as Threatened under the Endangered Species Act.
- [\*Pinus contorta\* var. \*latifolia\*](#) Engelm. ex S. Wats.; Rocky Mountain Lodgepole Pine PICOL G5T5; BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY
- [\*Pinus flexilis\*](#) James; Limber Pine PIFL2 G5; BAN, BLK, BON, CAR, CLK, FRT, LEM, LIN, MAD, \*OND, TID, TWY; *Daines 797, 1503* (KSP040724, KSP041509).
- ~ [\*Pinus ponderosa\*](#) P. & C. Lawson; Ponderosa Pine PIPO G5; \*BON, FRT; Recently documented from the CTNF from scattered localities; the origin of the Bonneville Co. population was not obvious, but it was about 0.5 km from a campsite: *Daines 2735* (KSP045601)-var. somewhat uncertain; the Fremont Co. record is based on 1 or 2 trees that may have been exposed during roadside cutting of *Pinus contorta* var. *latifolia* along US Hwy 20 on the Island Park Plateau (no voucher, var. uncertain).
- ~ [\*Pinus ponderosa\* var. \*ponderosa\*](#) Ponderosa Pine PIPOP G5T5; \*BAN; *Daines et al. (2022)* reported that the population in Bannock Co. is adjacent to a FS guard station and campground and appears to be naturalized: *Daines 1295, Daines 2059* (KSP041225, KSP044921).
- [\*Pseudotsuga menziesii\* var. \*glauca\*](#) (Beissn.) Franco; Interior Douglas-Fir PSMEG G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, \*OND, POW, TID, TWY; *Daines 343, 537, 1504* (KSP040272, KSP040465, KSP041510).

### ANGIOSPERMS

#### Alismataceae: Water-Plantain Family

- [\*Alisma gramineum\*](#) Lej.; Narrow-Leaf Water-Plantain ALGR G5; FRT
- [\*Alisma triviale\*](#) Pursh; Northern Water-Plantain ALTR7 G5; BAN, FRT, TWY
- [\*Sagittaria cuneata\*](#) Sheldon; Arum-Leaf Arrowhead SACU G5; BAN, BLK, CAR, FRN, FRT, TWY
- [\*Sagittaria latifolia\*](#) Willd.; Duck-Potato SALA2 G5; BLK

#### Amaranthaceae: Amaranth Family

- [\*Amaranthus blitoides\*](#) S. Wats.; Mat Amaranth AMBL GNR; BAN, BON
- [\*Bassia scoparia\*](#) (L.) A.J. Scott; Mexican-Fireweed BASC5 G5; FRT; Non-native
- [\*Blitum capitatum\* subsp. \*capitatum\*](#) Strawberry-Blite G5T5; BLK, CAR, LEM

[\*Blitum capitatum subsp. hastatum\*](#) (Rydb.) Mosyakin; Strawberry-Blite G5T5; BAN, BON, CAR, CLK, LIN, MAD, TWY; Synonyms: *Chenopodium overi* Aellen, *Chenopodium capitatum* (L.) Ambrosi var. *parvicapitatum* Welsh.

[\*Blitum nuttallianum\*](#) J.A. Schultes; Nuttall's Poverty-Weed G5; BUT, CLK, FRT

[\*Blitum virgatum\*](#) L.; Leafy Strawberry-Blite BLVI2 G5; BUT, MAD; Non-native

[\*Chenopodiastrum simplex\*](#) (Torr.) S. Fuentes, Uotila & Borsch; Giant-Seed Mock Goosefoot G5; BAN, OND

[\*Chenopodium album var. album\*](#) Lamb's-Quarters CHALA G5T5; BON, BUT, CAR, FRT, LEM; Non-native

[\*Chenopodium album var. missouriense\*](#) (Aellen) I.J. Bassett & C.W. Crompton; Missouri Lamb's-Quarters CHALM2 G5T5; MAD

[\*Chenopodium atrovirens\*](#) Rydb.; Pinyon Goosefoot CHAT G5; BLK, BON, CAR, CLK, FRN, MAD, TID, TWY

[\*Chenopodium berlandieri var. zschackei\*](#) (J. Murr) J. Murr; Pit-Seed Goosefoot CHBEZ G5T4; CLK, FRT, TWY

[\*Chenopodium fremontii\*](#) S. Wats.; Fremont's Goosefoot CHFR3 G5; CLK, FRT

~ [\*Halogeton glomeratus\*](#) (Bieb.) C.A. Mey.; Saltlover HAGL G5; CLK, \*OND; Non-native; Noxious in ID, fairly widespread in w US (Kartesz 2022); we collected what appear to be the first two records of this species for the CTNF-CNG: *Snow 12035-a*, *Daines 232* (KSP046289, KSP040161).

[\*Kali tragus subsp. tragus\*](#) Russian-Thistle G5T5; FRT; Non-native; Synonym: *Salsola tragus* L.

[\*Krascheninnikovia ceratoides subsp. lanata\*](#) (Pursh) Heklau; Winterfat G5T5; CLK

[\*Oxybasis chenopodioides\*](#) (L.) S. Fuentes, Uotila & Borsch; Low Eurasian-Goosefoot GNR; CAR

[\*Oxybasis glauca var. salina\*](#) (Standl.) Verloove; Oak-Leaf Eurasian Goosefoot G5T5; FRN, FRT, OND

[\*Oxybasis rubra var. rubra\*](#) Red Eurasian-Goosefoot G5T?; CAR; Synonym: *Chenopodium rubrum* L.

[\*Salicornia rubra\*](#) A. Nels.; Red Saltwort SARU G5; CAR; S2S3 in ID.

#### **Amaryllidaceae: Daffodil, Onion Family**

[\*Allium acuminatum\*](#) Hook.; Taper-Tip Onion ALAC4 G5; BAN, BLK, BON, BOX, CAR, FRN, LIN, MAD, OND, TWY

[\*Allium bisceptrum\*](#) S. Wats.; Aspen Onion ALBI2 G4; FRN; Reported from a historical specimen: *R.J. Davis s.n.* (NY) from "Cub River Canyon," recently confirmed as occurring within CTNF boundaries: *Daines 603* (KSP040531).

[\*Allium brandegeei\*](#) S. Wats.; Brandegees' Onion ALBR G4; BLK, BON, CAR, FRN, LIN

[\*Allium brevistylum\*](#) S. Wats.; Short-Stem Onion ALBR2 G4; BON, CLK, FRT, MAD, TID, TWY

[\*Allium cernuum\*](#) Roth; Nodding Onion ALCE2 G5; BUT, FRT, LEM

[\*Allium geveri var. geveri\*](#) Geyer's Onion ALGEG G4T4; FRT

[\*Allium geveri var. tenerum\*](#) M.E. Jones; Geyer's Onion ALGET G4T4; BLK, BON, CAR, CLK, FRN, FRT, TWY

[\*Allium parvum\*](#) Kellogg; Dwarf Onion ALPA3 G5; FRN; Reported as occurring in Franklin County: *J.F. Smith 5220* (OSC, SRP, WTU, USCH), somewhat disjunct from the majority of the species' range from sw MT through c ID, OR, NV, and w UT to s CA (Kartesz 2022); might represent a mis-identified *A. brandegeei*; more collections would be useful.

[\*Allium schoenoprasum\*](#) L.; Wild Chives ALSC G5; CLK, FRT, LIN, TWY

[\*Allium textile\*](#) A. Nels. & J.F. Macbr.; White Wild Onion ALTE G5; CLK, FRT, MAD, TID

#### **Anacardiaceae: Sumac, Cashew Family**

[\*Rhus aromatica var. trilobata\*](#) (Nutt.) Gray ex. S. Wats.; Skunkbush, Lemonade Sumac RHART2 G5T5; BOX, OND; Common in the sw US to the nw Great Plains (Kartesz 2022), uncommon in the mountains of the CTNF.

[\*Toxicodendron rydbergii\*](#) (Small ex Rydb.) Greene; Western Poison Ivy TORY G5; FRT

#### **Apiaceae: Carrot, Parsley Family**

[\*Angelica arguta\*](#) Nutt.; Lyall's Angelica ANAR3 G5; BON, CAR, CLK, FRT, LIN, MAD, TID, TWY

*Angelica pinnata* S. Wats.; Small-Leaf Angelica ANPI2 G5; BLK, FRT, TWY  
*Angelica roseana* Henderson; Rock Angelica ANRO G4; BON, BUT, CLK, FRT, LEM, LIN, TWY  
*Berula erecta* (Huds.) Coville; Cut-Leaf-Water-Parsnip BEER G4; FRT, OND  
*Bupleurum americanum* Coult. & Rose; American Thorow-Wax BUAM2 G5; CLK, FRT, LEM, TWY  
*Carum carvi* L.; Caraway CACA19 G5; TID; Non-native; A non-native crop plant that has become established in the study area: *Evert 37492* (RM).  
*Cicuta bulbifera* L.; Bulblet-Bearing Water-Hemlock CIBU G5; FRT, TWY; S2 in ID; a boreal disjunct, scattered in the w US but more common in the ne US (Kartesz 2022).  
*Cicuta douglasii* (DC.) Coult. & Rose; Western Water-Hemlock CIDO G5; BON, FRT?  
*Cicuta maculata* var. *angustifolia* Hook.; Western Spotted Water-Hemlock CIMAA G5T5; BAN, BLK, CLK, FRT, \*OND, TWY; *Daines 1510* (KSP041516).  
*Conium maculatum* L.; Poison-Hemlock COMA2 G5; CLK, FRN, OND; Non-native; Noxious in ID (Kartesz 2022).  
*Cymopterus glaucus* Nutt.; Waxy Spring-Parsley CYGL G4; BON, CAR, TWY?; *Dieffenbach TNF-0736* (IDS, NY, SRP) was collected in Teton Co., WY, but the species is not documented there in Kartesz (2022).  
*Cymopterus glomeratus* var. *glomeratus* Plains Spring-Parsley G5T2?; CLK, MAD  
*Cymopterus ibapensis* M.E. Jones; Ibapah Spring-Parsley CYIB G4; BLK, BON, BOX, BUT, CAR, OND; S2 in ID.  
*Cymopterus longilobus* (Rydb.) W.A. Weber; Long-Lobe Spring-Parsley CYLO10 G5; BAN, BON, TWY; Often called *C. hendersonii* (Coult. & Rose) Cronquist, but this name applies to a narrow endemic of c ID (Kartesz 2022).  
*Cymopterus longipes* S. Wats.; Long-Stalk Spring-Parsley CYLO G4; BLK, BON, CAR, FRN, LIN, OND, TID, TWY  
*Cymopterus nivalis* S. Wats.; Snowline Spring-Parsley CYNI3 G5; BUT, CLK, LEM  
*Cymopterus purpureus* S. Wats.; Purple Spring-Parsley CYPUI2 G5; BON?; A collection of what may be *C. purpureus* in early flower was made in 2020 on the slopes of Caribou Mountain: *J.F. Smith 16740* (CIC, IDS, SRP) (Cook 2020); this species was previously thought to be endemic to UT, CO, NM, AZ, and NV (Kartesz 2022); further collections would be helpful to confirm this record.  
*Cymopterus terebinthinus* var. *albiflorus* (Torr. & Gray) M.E. Jones; Turpentine Spring Parsley CYTEA G5T4; BAN, BLK, CAR, LIN, MAD, OND, TID, TWY; Flowers yellow, even though the varietal epithet indicates "white-flowered" (Cronquist et al. 1997); likely documented before but perhaps not very common in Bear Lake Co., where its presence is confirmed by *Daines 1640* (KSP041646).  
*Cymopterus terebinthinus* var. *foeniculaceus* (Nutt. ex Torr. & Gray) Cronq.; Fern-Leaf Turpentine Spring Parsley CYTEF TNR; BAN, BON, CAR, OND  
*Heracleum maximum* Bartr.; American Cow-Parsnip HEMA80 G5; BAN, BON, CAR, CLK, FRT, LIN, MAD, TID, TWY; Synonym: *H. lanatum* Michx.  
*Ligusticum canbyi* (Coult. & Rose) Coult. & Rose; Canby's Wild Lovage LICA2 G5; FRT?, TWY; Somewhat widespread in the Pacific NW and c ID, occurs disjunctly in Park and Teton Cos., WY (Kartesz 2022) and possibly Fremont Co., ID (no voucher; Evert 2010, Kartesz 2022)  
*Ligusticum filicinum* S. Wats.; Fern-Leaf Wild Lovage LIFI G4; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY  
*Ligusticum tenuifolium* S. Wats.; Slender-Leaf Wild Lovage LITE2 G5; \*FRN, TID; *Daines 1184* (KSP041114), which appears to represent this species (collected in Franklin Co.) records a disjunction between two main centers of the species' range: CO/UT and sw MT/ID/ne OR, also apparently disjunct in Box Elder County, UT (Kartesz 2022), likely outside the study area.  
*Lomatium ambiguum* (Nutt.) Coult. & Rose; Streambank Biscuitroot LOAM G4; BAN, BON, CLK, FRN, FRT, TWY  
*Lomatium bicolor* (S. Wats.) Coult. & Rose; Wasatch Desert-Parsley LOBI G3; BON, CAR, FRN, LIN, OND, TID; A regional endemic that occurs along the ID/WY border, s to n UT (Kartesz 2022).  
*Lomatium cous* (S. Wats.) Coult. & Rose; Cous-Root Biscuitroot LOCO4 G5; CLK, FRT, LEM, MAD, TID, TWY  
*Lomatium foeniculaceum* subsp. *foeniculaceum* Carrot-Leaf Biscuitroot LOFOF2 G5T5; TID; More common in the n Great Plains; the n Big Hole Mts. of Teton County harbor perhaps the only known population(s) in Idaho (Kartesz 2022).

[\*Lomatium foeniculaceum\* subsp. \*macdougalii\*](#) (Coult. & Rose) Theobald; Macdougall's Carrot-Leaf Biscuitroot LOFOM GT4; BAN, BUT, CLK

[\*Lomatium graveolens\* var. \*graveolens\*](#) King Desert-Parsley LOGRG G5T4; BLK, FRN

[\*Lomatium grayi\*](#) (Coult. & Rose) Coult. & Rose; Mountain Biscuitroot LOGR G5; BAN, BON, BOX, CAR, CLK, FRN, LIN, OND

[\*Lomatium leptocarpum\*](#) (Torr. & Gray) Coult. & Rose; Gumbo Biscuitroot LOLE2 G4; BON, FRN; Disjunct in several counties in se ID; otherwise known mostly from the inland Pacific NW and n Great Basin, as well as AZ and in and near nw CO (Kartesz 2022).

[\*Lomatium macrocarpum\*](#) (Nutt. ex Torr. & Gray) Coult. & Rose; Large-Fruit Biscuitroot LOMA3 G5; BAN, CLK

[\*Lomatium multifidum\*](#) (Nutt.) R.P. McNeill & Darrach; Fern-Leaf Biscuitroot G4; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

[\*Lomatium nuttallii\*](#) (Gray) J.F. Macbr.; Nuttall's Desert-Parsley LONU3 G3; BLK; Uncommon in ID; occurs mostly in s WY and several adjacent counties of neighboring states (Kartesz 2022).

[\*Lomatium triternatum\*](#) (Pursh) Coult. & Rose; Triternate Biscuitroot LOTR2 G5; BAN, BLK, BON, BUT, CAR, CLK, FRT, LEM, LIN, MAD, OND, TID, TWY

[\*Musineon naomiensis\*](#) L. Shultz & F.J. Sm.; Mt. Naomi Wild Parsley G2; BLK

[\*Orogenia linearifolia\*](#) S. Wats.; Great Basin Turkey-Peas ORLI G4; BAN, BLK, CAR, FRN, MAD, TWY

[\*Osmorhiza berteroi\*](#) DC.; Mountain Sweet-Cicely OSBE G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY; Synonym: *O. chilensis* Hook. & Arn.

[\*Osmorhiza depauperata\*](#) Phil.; Blunt-Fruit Sweet-Cicely OSDE G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, MAD, TID, TWY

[\*Osmorhiza occidentalis\*](#) (Nutt. ex Torr. & Gray) Torr.; Sierran Sweet-Cicely OSOC G4; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

[\*Osmorhiza purpurea\*](#) (Coult. & Rose); Suksdorf Purple Sweet-Cicely OSPU G4; BON, CAR, CLK, \*FRN, FRT, MAD, OND, TID; *Daines 1175, 2229* (KSP041105, KSP045091).

[\*Perideridia bolanderi\* var. \*bolanderi\*](#) Bolander's Yampah PEOB G5T5; BAN, BON, CLK, FRN, FRT, LIN, TID, TWY

[\*Perideridia gairdneri\* subsp. \*borealis\*](#) Chuang & Constance; Common Yampah PEGAB G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY; Synonym: *Perideridia montana* (Blank.) Dorn.

[\*Sanicula marilandica\*](#) L.; Maryland Black-Snakeroot SAMA2 G5; FRT?, TWY; Reported by Evert (2010) from Fremont Co., but no voucher has been seen (Kartesz 2022).

[\*Sium suave\*](#) Walt.; Hemlock Water-Parsnip SISU2 G5; CLK, FRT, TWY

~ [\*Vesper purpurascens\*](#) (Gray) R.L. Hartman & Nesom; Wide-Wing Venus-Parsley G4; OND; *Daines 112* (KSP040042); first documented occurrence on the CTNF-CNG (two nearby occurrences are at lower elevations); apparently rare, but SNR in ID; known from a few counties in ID, but more widespread in UT and NV (Kartesz 2022); sometimes placed in *Cymopterus*.

[\*Zizia aptera\*](#) (Gray) Fern.; Heart-Leaf Alexanders ZIAP G5; BON, CAR, FRT

#### Apocynaceae: Dogbane Family

[\*Apocynum androsaemifolium\*](#) L.; Spreading Dogbane APAN2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

[\*Apocynum cannabinum\*](#) L.; Indian-Hemp APCA G5; BLK, OND; Synonym: *A. sibiricum* Jacq.

[\*Asclepias speciosa\*](#) Torr.; Showy Milkweed ASSP G5; CLK, FRT

#### Araceae: Arum Family

[\*Lemna minor\*](#) L.; Common Duckweed LEMI3 G5; BAN, BON, CAR, CLK, FRT; Kartesz (2022) does not list this species for any of the study area counties; further research recommended.

[\*Lemna minuta\*](#) Kunth; Least Duckweed LEMI6 G4; BLK, \*OND; *Daines 1296, Snow 11482* (KSP041226, KSP041374); of sparsely scattered distribution throughout the s and w US and near Lake Michigan, more widespread in CA (Kartesz 2022).

[\*Lemna turionifera\*](#) Landolt; Turion Duckweed LETU2 G5; BAN

*Spirodela polyrhiza* (L.) Schleid.; Common Duckmeat SPPO G5; FRT, TID; Somewhat scattered in our area, but more common in the e and c US (Kartesz 2022).

#### Asparagaceae: Asparagus Family

*Camassia quamash* (Pursh) Greene; Small Camas CAQU2 G5; BLK, BON

*Camassia quamash* subsp. *quamash* Small Camas CAQUQ G5T4; CLK, FRT

*Camassia quamash* subsp. *utahensis* Gould; Utah Small Camas CAQUU2 G5T4; CAR, FRT, TWY

*Maianthemum amplexicaule* (Nutt.) W.A. Weber; Western False Solomon's-Seal MAAM6 G5; BAN, BLK, BON, BOX, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

*Maianthemum stellatum* (L.) Link; Starry False Solomon's-Seal MAST4 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, \*OND, TID, TWY; *Daines 1737* (KSP041743).

*Triteleia grandiflora* Lindl.; Large-Flower Triplet-Lily TRGR7 G4; BLK, BON, CAR, CLK, FRN, FRT, TID, TWY

#### Asteraceae: Aster, Sunflower Family

*Achillea millefolium* L.; Common Yarrow ACMI2 G5; BAN, BLK, BON, BOX, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, POW, TID, TWY

*Agoseris aurantiaca* var. *aurantiaca* Orange-Flower Goat-Chicory AGAUA G5T4; BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, \*OND, TID, TWY; *Daines 809* (KSP040736).

*Agoseris aurantiaca* var. *carnea* (Rydb.) Lesica; Lackschewitz's, Pink Agoseris G5T4?; CLK; S1S2 in ID; synonym: *A. lackschewitzii* D. Henderson & R. Moseley; a FS R4 Sensitive Species; not recognized by Baird (2006) as a valid taxon.

*Agoseris glauca* var. *dasycephala* (Torr. & Gray) Jepson; Pale Goat-Chicory AGGLD G5T5; BAN, BON, CAR, CLK, FRT, LIN, MAD, OND, TID, TWY

*Agoseris glauca* var. *glauca* Pale Goat-Chicory AGGLG G5T5; BLK, BON, CAR, CLK, FRN, LEM, MAD, OND, TID, TWY

*Agoseris grandiflora* var. *grandiflora* Large-Flower Goat-Chicory G5; CLK?; Reported by *Henderson 3184* (ID) from Clark Co., but not recorded there by Kartesz (2022) or Markow (1994).

*Agoseris parviflora* (Nutt.) D. Dietr.; Small-Flower Goat-Chicory AGPA14 G4; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, OND, TID, TWY; Synonym: *A. glauca* (Pursh) Raf. var. *laciniata* (D.C. Eat.) Smiley.

*Anaphalis margaritacea* (L.) Benth. & Hook. f.; Pearly-Everlasting ANMA G5; BLK, CLK, FRT, TWY

*Antennaria alpina* (L.) Gaertn.; Alpine Pussytoes ANAL4 G5; BON; Somewhat disjunct in Bonneville Co.; an arctic/boreal species that is somewhat widespread in the US from nw WY and c ID to sw and nw MT (Kartesz 2022).

*Antennaria anaphaloides* Rydb.; Tall Pussytoes ANAN2 G5; CAR, CLK, FRT, LEM, TID

*Antennaria aromatica* Evert; Scented Pussytoes ANAR10 G4; FRT, TWY; SNR in ID, S3 in WY, also occurs in MT; Fremont Co. is the only ID county harboring this species (Kartesz 2022).

*Antennaria corymbosa* E. Nels.; Flat-Top Pussytoes ANCO G5; CLK, FRT, TWY

*Antennaria dimorpha* (Nutt.) Torr. & Gray; Cushion Pussytoes ANDI2 G5; BAN, BLK, BON, \*CAR, CLK, \*FRN, OND, TID; *Daines 482, 928* (KSP040410, KSP040858).

*Antennaria howellii* subsp. *neodioica* (Greene) Bayer; Small Pussytoes ANHON G5T5; BLK; Widespread in the e U.S., but also grows in the w U.S. (Kartesz 2022, Bayer 2006); disjunct in our range in Bear Lake Co., ID (Cronquist 1994, Kartesz 2022) in Red Pine Canyon of the Aspen Range: *Shultz 2736* (BRY, COLO, IDS, NY, RENO).

*Antennaria lanata* (Hook.) Greene; Woolly Pussytoes ANLA3 G5; BAN, CLK; Kartesz (2022) does not list this species for Bannock Co.

*Antennaria luzuloides* var. *luzuloides* Silver-Brown Pussytoes ANLUL G5T4; BLK, BON, CAR, CLK, FRN, FRT, TID, TWY

*Antennaria media* Greene; Rocky Mountain Pussytoes ANME2 G5; BLK, FRT, TWY

*Antennaria microphylla* Rydb.; Small-Leaf Pussytoes ANMI3 G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, MAD, OND, TID, TWY

[\*Antennaria monocephala subsp. angustata\*](#) (Greene) Hultén; Pygmy, Single-Head Pussytoes ANMOA G5T5; TWY; S2 in WY; a boreal species that occurs as far south as MT and WY, but apparently not in ID (Kartesz 2022).

[\*Antennaria parvifolia\*](#) Nutt.; Little-Leaf Pussytoes ANPA4 G5; BLK, LIN, TID

[\*Antennaria pulcherrima subsp. pulcherrima\*](#) Showy Pussytoes G5; BON, FRT, TWY

[\*Antennaria racemosa\*](#) Hook.; Hooker's Pussytoes ANRA G5; CLK, FRT, TID, TWY

[\*Antennaria rosea\*](#) Greene; Rosy Pussytoes ANRO2 G5; BON, CLK, FRT, LEM, LIN, MAD, TID, TWY

[\*Antennaria rosea subsp. confinis\*](#) (Greene) Bayer; Rosy Pussytoes ANROC G5T4; FRN

[\*Antennaria rosea subsp. rosea\*](#) Rosy Pussytoes ANROR G5T4; BLK, CAR

[\*Antennaria umbrinella\*](#) Rydb.; Brown-Bract Pussytoes ANUM G5; BON, BUT, CAR, CLK, FRT, LEM, MAD, \*OND, TWY; *Daines 532* (KSP040460).

[\*Anthemis cotula\*](#) L.; Stinking Chamomile ANCO2 G5; BUT, CLK, FRT; Non-native

[\*Arctium minus\*](#) (Hill) Bernh.; Lesser Burdock ARMI2 G5; BON, TWY; Non-native; Noxious in WY (Kartesz 2022).

[\*Arnica chamissonis\*](#) Less.; Leafy Leopardbane ARCH3 G5; CLK, FRT, LIN, TWY

[\*Arnica cordifolia\*](#) Hook.; Heart-Leaf Leopardbane ARCO9 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

[\*Arnica fulgens\*](#) Pursh; Shining Leopardbane ARFU3 G5; BON?, FRT, TID?; Reported for Bonneville Co. by a 1927 collection: *Phinney 106* (IDS), but not recognized there by Kartesz (2022); reported by Evert (2010) from Teton Co., ID, but no specimen is known (Kartesz 2022).

[\*Arnica gracilis\*](#) Rydb.; Slender Leopardbane ARGR14 G5; BAN, BLK, BON, FRN, TWY

[\*Arnica latifolia\*](#) Bong.; Daffodil Leopardbane ARLA8 G5; BAN, BLK, BON, FRN, FRT, TID, TWY

[\*Arnica longifolia\*](#) D.C. Eat.; Spear-Leaf Leopardbane ARLO6 G5; BLK, BON, FRT, LEM, TID, TWY

[\*Arnica mollis\*](#) Hook.; Cordilleran Leopardbane ARMO4 G5; BLK, BON, CLK, FRT, LEM, TID, TWY

[\*Arnica ovata\*](#) Greene; Sticky-Leaf Leopardbane; FRT

[\*Arnica parryi\*](#) Gray; Nodding Leopardbane ARPA13 G5; BON, CAR, FRT, LIN, TID, TWY

[\*Arnica rydbergii\*](#) Greene; Subalpine Leopardbane ARRY G5; BON, FRT, TWY; Kartesz (2022) does not recognize this in ID.

[\*Arnica sororia\*](#) Greene; Twin Leopardbane ARSO2 G4; BAN, BLK, BON, CAR, CLK, FRN, TID

[\*Artemisia absinthium\*](#) L.; Oldman ARAB3 G5; FRT; Non-native

[\*Artemisia arbuscula\*](#) Nutt.; Dwarf Sagebrush ARAR8 G5; BAN, FRN

[\*Artemisia arbuscula subsp. arbuscula\*](#) Dwarf Sagebrush ARARA G5T4; CLK, FRT, LIN

[\*Artemisia arbuscula subsp. thermopola\*](#) Beetle; Dwarf Sagebrush ARART G5T3; BLK, CAR; Sparsely distributed from n CA and OR through parts of ID, nw WY, and parts of UT (Kartesz 2022).

[\*Artemisia biennis\*](#) Willd.; Biennial Wormwood ARBI2 G5; BLK, BON, FRT; Non-native

[\*Artemisia cana subsp. viscidula\*](#) (Osterhout) Beetle; Mountain Silver Sagebrush ARCAV2 G5T4; BAN, BLK, CAR, CLK, FRN, FRT

[\*Artemisia dracunculus\*](#) L.; Dragon Wormwood ARDR4 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TWY

[\*Artemisia frigida\*](#) Willd.; Prairie Sagebrush ARFR4 G5; BUT, CLK, FRT, LEM

[\*Artemisia ludoviciana\*](#) Nutt.; White Sagebrush ARLU G5; CAR

[\*Artemisia ludoviciana subsp. candicans\*](#) (Rydb.) Keck; White Sagebrush ARLUC8 G5T5; BAN, BLK, BON, CLK, FRN, FRT, TID, TWY

[\*Artemisia ludoviciana subsp. incompta\*](#) (Nutt.) Keck; White Sagebrush ARLUI2 G5T4; BLK, BON, CLK, FRN, LEM, TWY

[\*Artemisia ludoviciana subsp. ludoviciana\*](#) White Sagebrush ARLUL2 G5T5; BAN, BLK, BON, CLK, FRN, FRT, TID, TWY

[\*Artemisia michauxiana\*](#) Bess.; Michaux's Wormwood ARMI4 G4; CLK, LEM

[\*Artemisia nova\*](#) A. Nels.; Black Sagebrush ARNO4 G5; BAN, BUT, CLK, FRN

[\*Artemisia scopulorum\*](#) Gray; Alpine Sagebrush ARSC G4; TWY; Occurs from MT s to NM and w into UT; has not been collected in ID (Kartesz 2022).

[\*Artemisia tilesii\*](#) Ledeb.; Tilesius' Wormwood ARTI G5; BON; Recorded for the first time from our area by a 2020 collection near Caribou Mt.: *J.F. Smith 16724* (SRP, IDS); this largely arctic/alpine species exhibits a scattered distribution in the w US (Kartesz 2022).

[\*Artemisia tridentata nothosubsp. bonnevillensis\*](#) H.D. Garrison, L. Shultz & McArthur; [*tridentata* subsp. *wyomingensis* X *tridentata* subsp. *vaseyana*] Bonneville Sagebrush G5T?; OND; Fairly recently described; occurs in Oneida Co., ID (incl. in the CNG) and Rich Co., UT (Kartesz 2022).

[\*Artemisia tridentata subsp. spiciformis\*](#) (Osterhout) Kartesz & Gandhi; Spike Sagebrush ARTRS2 G5T3; FRN

[\*Artemisia tridentata subsp. tridentata\*](#) Basin Big Sagebrush ARTRT G5T4; BLK, BON, BUT, CLK, FRT, LEM, OND, TID, TWY

[\*Artemisia tridentata subsp. vaseyana\*](#) (Rydb.) Beetle; Mountain Big Sagebrush ARTRV G5T4; BAN, BLK, BON, CCH, CAR, CLK, FRN, FRT, OND, TID, TWY; Synonym: *Artemisia tridentata* var. *pauciflora*.

[\*Artemisia tridentata subsp. wyomingensis\*](#) Beetle & Young; Wyoming Big Sagebrush ARTRW8 G5T5; CAR, OND

[\*Artemisia tripartita subsp. tripartita\*](#) Three-Tip Sagebrush ARTRT2 G5T4; BAN, BLK, BON

[\*Askellia pygmaea subsp. ramosa\*](#) (Babcock) K.L. Chambers & S.C. Meyers; Dwarf Elegant-Hawksbeard G5T5; BUT, CLK, LEM

[\*Balsamorhiza hookeri\*](#) Nutt.; Hairy Balsamroot BAHO G5; BAN, \*OND; *Daines 224* (KSP040153).

[\*Balsamorhiza incana\*](#) Nutt.; Hoary Balsamroot BAIN G4; FRT

[\*Balsamorhiza macrophylla\*](#) Nutt.; Cut-Leaf Balsamroot BAMA4 G4; BAN, BLK, BON, CAR, CLK, FRN, FRT, OND, POW, TID, TWY

[\*Balsamorhiza sagittata\*](#) (Pursh) Nutt.; Arrow-Leaf Balsamroot BASA3 G4; BAN, BLK, BON, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

[\*Bidens cernua\*](#) L.; Nodding Burr-Marigold BICE G5; FRT, TWY

[\*Bidens tripartita\*](#) L.; Three-Lobe Beggarticks BITR G5; FRT?; Reported from Fremont Co.: *Evert 26266* (RM), but not recognized there by Kartesz (2022).

[\*Brickellia grandiflora\*](#) (Hook.) Nutt.; Tassel-Flower Brickellbush BRGR G5; BAN, BON, MAD, TWY

[\*Canadanthus modestus\*](#) (Lindl.) Nesom; Canada-Aster CAMO32 G5; BUT, FRT

[\*Carduus nutans\*](#) L.; Nodding Plumeless-Thistle CANU4 G5; BLK, BON, CAR, CLK, FRT, TWY; Non-native; Noxious (Kartesz 2022).

[\*Centaurea stoebe subsp. australis\*](#) (Pancic & A. Kern.) Greuter; Spotted Knapweed G5T5; CLK, FRT; Non-native; Noxious (Kartesz 2022).

[\*Chaenactis douglasii var. alpina\*](#) Gray; Alpine Dusty-Maiden CHDOA2 G5T5; FRT, LEM

[\*Chaenactis douglasii var. douglasii\*](#) Dusty-Maiden CHDOD G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

[\*Chrysothamnus viscidiflorus subsp. viscidiflorus\*](#) Twist-Leaf Rabbitbrush CHVIV2 G5T5; BAN, BLK, CLK, LEM, MAD, OND, TID

[\*Chrysothamnus viscidiflorus subsp. lanceolatus\*](#) (Nutt.) Hall & Clements; Twist-Leaf Rabbitbrush CHVIL4 G5T5; BLK, BON, BUT, CAR, CLK

[\*Chrysothamnus viscidiflorus subsp. puberulus\*](#) (D.C. Eat.) Hall & Clements; Twist-Leaf Rabbitbrush CHVIP4 G5T4; BLK, LEM

[\*Cirsium arvense\*](#) (L.) Scop.; Canada Thistle CIAR4 G5; BLK, BON, CAR, CLK, FRT, LIN, TID, TWY; Non-native; A noxious weed, widespread in much of the n and w US (Kartesz 2022).

[\*Cirsium cymosum var. canovirens\*](#) (Rydb.) Keil; Peregrine Thistle G4T4; CAR, CLK; Native.

[\*Cirsium eatonii var. eatonii\*](#) Eaton's Thistle G4TNR; BLK; Known in ID only from Bear Lake Co.; more widespread in NV and UT (Kartesz 2022); *J.F. Smith 10557* (CIC, IDS, SRP).

[\*Cirsium eatonii var. murdockii\*](#) Welsh; Murdock's and Eaton's, Northern Mountain Thistle CIEAM G4TNR; FRT, LIN, TWY; Native.

[\*Cirsium hookerianum\*](#) Nutt.; White Thistle CIHO G4; CLK; A native thistle of relatively narrow distribution in ID, but more widespread in WY and MT (Kartesz 2022).

[\*Cirsium inamoenum var. davisii\*](#) (Cronq.) Keil; Jackson Hole Thistle G4?T4?; BLK, BON, CLK, FRT, LIN, MAD; Native.

[\*Cirsium inamoenum var. inamoenum\*](#) Jackson Hole Thistle G4?T4; BON, CLK, LEM, LIN, TWY; Native.

[\*Cirsium scariosum\*](#) Nutt.; Meadow Thistle CISC2 G5; BLK, BON, CAR, CLK, FRT, TWY; Native.

[\*Cirsium undulatum\*](#) (Nutt.) Spreng.; Wavy-Leaf Thistle CIUN G5; BLK, BON, CLK, FRN; Native.

[\*Cirsium vulgare\*](#) (Savi) Ten.; Bull Thistle CIVU G5; BAN, BON, CAR, CLK, FRT, OND, TID, TWY; Non-native; Widespread in most of the n and w US, considered noxious in UT, but not in ID and WY (Kartesz 2022).

*Crepis acuminata* Nutt.; Long-leaf or Taper-tip Hawk's-Beard CRAC2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

*Crepis atribarba* Heller; Slender Hawk's-Beard CRAT G5; BLK, BUT, CLK, TID, TWY

*Crepis intermedia* Gray; Limestone Hawk's-Beard CRIN4 G5; CLK, LEM, TWY

*Crepis modocensis subsp. modocensis* Siskiyou Hawk's-Beard CRMOM G4T4; BAN, BON, CLK, FRN, FRT, LEM, MAD, OND, TID, TWY; *Daines 451* (KSP040379).

*Crepis occidentalis* Nutt.; Large-Flower Hawk's-Beard CROC G5; BAN, BON, FRN, OND, TID

*Crepis runcinata subsp. glauca* (Nutt.) Babcock & Stebbins; Fiddle-Leaf Hawk's-Beard CRRUG G5T4; FRT

*Crepis tectorum* L.; Narrow-Leaf Hawk's-Beard CRTE3 G5; TID, TWY; Non-native; Relatively uncommon, sparsely distributed in the n US (Kartesz 2022).

*Dieteria canescens var. canescens* Hairy False Tansy-Aster G5T5; BAN, BLK, BON, CLK, FRN, FRT, LEM, LIN, MAD, TID, TWY

*Doellingeria elegans* (Nutt.) Semple, L. Brouillet & G.A. Allen; Elegant Wayside-Aster G5; BAN, BON, CAR, CLK, FRN, FRT, LEM, LIN, TID, TWY; Often placed in *Eucephalus*.

*Doellingeria engelmannii* (D.C. Eat.) Semple, L. Brouillet & G.A. Allen; Engelmann's Wayside-Aster G4; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY; Often placed in *Eucephalus*.

*Ericameria nauseosa var. graveolens* (Nutt.) Reveal & Schuyler; Felt-Stem Rabbitbrush ERNAG3 G5T5; BLK, CLK, FRT, OND, LEM?

*Ericameria nauseosa var. nauseosa* Felt-Stem Rabbitbrush ERNAN5 G5T5; BLK, FRT

*Ericameria nauseosa var. oreophila* (A. Nels.) Nesom & Baird; Felt-Stem Rabbitbrush ERNAO G5T4; BAN, FRT, OND

*Ericameria nauseosa var. speciosa* (Nutt.) Nesom & Baird; Showy Felt-Stem Rabbitbrush ERNAS2; FRT

*Ericameria parryi var. montana* (L.C. Anders.) Nesom & Baird; Centennial Rabbitbrush ERPAM4 G5T2; \*BUT, CLK; S2 in ID, also a FS Region 4 Sensitive Species; *Daines 2664, 2680* (KSP045529, KSP045545, also duplicates to be distributed to RICK and elsewhere); a rare regionally endemic perennial shrub that occurs in subalpine/low alpine areas in the Lemhi Range and the Red Conglomerate Peaks area; *Rosentreter 4324* (CIC), collected in Lemhi Co., had been identified as this taxon, but it likely represents *E. nauseosa var. graveolens* (D. Mansfield, pers. comm., Apr. 2023).

*Ericameria suffruticosa* (Nutt.) Nesom; Single-Head Goldenbush ERSU13 G5; BON, BUT, CLK, FRT, LEM, TWY

*Ericameria winwardii* (Dorn & Delmatier) R.P. Roberts & Urbatsch; Winward's Goldenbush G1; BLK; S1 in ID; a rare, regionally endemic perennial shrub known to grow only in se ID and sw WY (Kartesz 2022).

*Erigeron acris* L.; Bitter Fleabane ERAC2 G5; CLK

*Erigeron asperugineus* (D.C. Eat.) Gray; Idaho Fleabane ERAS G4; CLK

*Erigeron caespitosus* Nutt.; Tufted Fleabane ERCA2 G5; BUT, CLK, FRT, LEM; *J.H. Christ 18842* (ID), collected in Bear Lake or Caribou Co., and *C. Björk 6621c* (ID), collected in Bonneville Co., were previously identified as *E. caespitosus*, but actually represent *E. ursinus* D.C. Eat.

*Erigeron canadensis* L.; Canadian Horseweed ERCA20 G5; BLK, BON, FRT; Non-native; previously placed by most authors in the genus *Conyza*.

*Erigeron compositus* Pursh; Dwarf Mountain Fleabane ERCO4 G5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, MAD, \*OND, TID, TWY; *Daines 793* (KSP040720).

*Erigeron concinnus var. concinnus* Navajo Fleabane ERCOC3 G4TNR; FRT

*Erigeron corymbosus* Nutt.; Long-Leaf Fleabane ERCO5 G5; BAN, BON, BUT, CLK, FRT, LEM, LIN, MAD, OND, TID

*Erigeron divergens* Torr. & Gray; Spreading Fleabane ERDI4 G5; BAN, BLK, BON, CLK, FRN, FRT, MAD, OND, TID, TWY

*Erigeron eatonii var. eatonii* Eaton's Fleabane EREA E G5T5; BLK, BON, CAR, FRN, LIN, TID, TWY

*Erigeron engelmannii* A. Nels.; Engelmann's Fleabane EREN G4; BLK, CAR, FRN, OND

*Erigeron formosissimus* Greene; Beautiful Fleabane ERFO3 G5; BLK, BON, CAR, MAD, TWY

*Erigeron glabellus var. glabellus* Streamside Fleabane ERGLG G5T4; BON, CAR, CLK, FRT, LEM

*Erigeron glacialis var. glacialis* Glacier Fleabane G5T4; BLK, BON, CLK, FRN, FRT, MAD, TID, TWY

*Erigeron gracilis* Rydb.; Quill Fleabane ERGR2 G4; CLK, LEM; Occurs from w ID through east-central ID and sw MT to w WY (Kartesz 2022).



[\*Erigeron grandiflorus\*](#) Hook.; Large-Flower Fleabane ERGR3 G4; FRT, TWY

[\*Erigeron katieae\*](#) Welsh & Atwood; Katie's Fleabane G1G2; OND; S1 in ID; *N.H. Holmgren 5286* (BRY, NY), collected in the CNG; a rare regional endemic known only from n UT and Oneida Co., ID (Kartesz 2022).

[\*Erigeron leiomerus\*](#) Gray; Rockslide Fleabane ERLE6 G4; BAN, BLK, BON, BUT, CLK, FRN, LEM, LIN, TWY

[\*Erigeron lonchophyllus\*](#) Hook.; Short-Ray Fleabane ERLO G5; BLK, BON, CAR, CLK, FRT

[\*Erigeron nivalis\*](#) Nutt.; Scotter's Fleabane ERNI6 G4; FRT, TWY

[\*Erigeron poliospermus\* var. \*poliospermus\*](#) Purple Cushion Fleabane ERPOP G4T4; BAN; Widely disjunct in Bannock Co., otherwise known from sw ID, OR, and WA (Kartesz 2022).

[\*Erigeron pumilus\*](#) Nutt.; Shaggy Fleabane ERPU2 G5; BON, FRN

[\*Erigeron pumilus\* subsp. \*intermedius\*](#) Cronq.; Shaggy Fleabane ERPUI G5T4; BAN, BON, CAR, CLK, FRN, FRT, OND

[\*Erigeron pumilus\* subsp. \*pumilus\*](#) Shaggy Fleabane ERPUP3 G5T5; \*BLK, BON, TID; *Daines 195* (KSP040124).

[\*Erigeron radicans\*](#) Hook.; Tap-Root Fleabane ERRA2 G3; FRT, LEM

[\*Erigeron rydbergii\*](#) Cronq.; Rydberg's Fleabane ERRY G4; FRT

[\*Erigeron speciosus\*](#) (Lindl.) DC.; Aspen, Showy Fleabane ERSP4 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

[\*Erigeron strigosus\* var. \*strigosus\*](#) Prairie Fleabane ERSTS2 G5T5; FRT

[\*Erigeron subtrinervis\*](#) Rydb. ex Porter & Britt.; Three-Nerve Fleabane ERSU2 G5; BON

[\*Erigeron tener\*](#) (Gray) Gray; Slender Fleabane ERTE6 G4; BLK, FRN

[\*Erigeron tweedyi\*](#) Canby; Tweedy's Fleabane ERTW G4; BLK?, BUT, CLK, LEM; A broadly regional endemic that occurs in east-central ID, sw MT, and nw WY (Kartesz 2022); at least one duplicate of *J.H. Christ 18760* (ID, WTU), from Bloomington Lake in the Bear River Range, Bear Lake Co, has been identified as *E. tweedyi*, but the collection at ID, at least, appears to not represent this species.

[\*Erigeron ursinus\*](#) D.C. Eat.; Bear River Fleabane ERUR2 G4; BLK, BON, CAR?, CLK, FRN, FRT, TID, TWY

[\*Eriophyllum lanatum\* var. \*integrifolium\*](#) (Hook.) Smiley; Common Woolly-Sunflower ERLAI G5T4; BAN, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

[\*Eriophyllum lanatum\* var. \*lanatum\*](#) Common Woolly-Sunflower ERLAL3 G5T5; FRT

[\*Eurybia conspicua\*](#) (Lindl.) Nesom; Western Showy Wood-Aster EUCO36 G5; FRT

[\*Eurybia integrifolia\*](#) (Nutt.) Nesom; Thick-Stem Wood-Aster EUIN9 G5; BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

[\*Eurybia merita\*](#) (A. Nels.) Nesom; Behring Wood-Aster EUME17 G5; BON, FRT

[\*Gnaphalium palustre\*](#) Nutt.; Western Marsh Cudweed GNPA G5; FRN, FRT, TID

[\*Grindelia nana\* var. \*nana\*](#) Idaho Gumweed G5T5; MAD

[\*Grindelia squarrosa\*](#) Nutt.; Western Marsh Cudweed GNPA G5; CAR, CLK, FRT, OND, TWY

[\*Gutierrezia sarothrae\*](#) (Pursh) Britt. & Rusby; Broom Snakeweed, Kindlingweed GUSA2 G5; BAN, CLK, LEM

[\*Helenium autumnale\*](#) L.; Autumn Sneezeweed HEAU G5; FRT

[\*Helianthella quinquenervis\*](#) (Hook.) Gray; Nodding Dwarf-Sunflower HEQU2 G5; BON, FRT, TID, TWY

[\*Helianthella uniflora\* var. \*douglasii\*](#) (Torr. & Gray) W.A. Weber; Rocky Mountain Dwarf-Sunflower HEUND G5T4; CLK

[\*Helianthella uniflora\* var. \*uniflora\*](#) Rocky Mountain Dwarf-Sunflower HEUNU G5T4; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

[\*Helianthus annuus\*](#) L.; Common Sunflower HEAN3 G5; BON, FRT, TWY

[\*Helianthus nuttallii\* subsp. \*nuttallii\*](#) Nuttall's Sunflower HENUN G5T5; CLK, FRN, FRT

[\*Helimeris multiflora\* var. \*multiflora\*](#) Showy Goldeneye HEMUM G4T4; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

[\*Herrickia glauca\* var. \*glauca\*](#) Gray Wood Daisy GNRT4; BLK, TID, TWY

[\*Heterotheca villosa\*](#) (Pursh) Shinnery; Hairy False Golden-Aster HEVI4 G5; \*CAR; *Daines 1237* (KSP041167) is difficult to determine to variety; further collections and expert input warranted.

[\*Heterotheca villosa\* var. \*depressa\*](#) (Rydb.) Semple; HEVID G5T3; BLK?, FRT; A regional endemic that occurs mostly in the counties along the ID/WY border, n to sc MT (Kartesz 2022).

[\*Heterotheca villosa\* var. \*minor\*](#) (Hook.) Semple; HEVIM3 G5T4; BLK, FRT

[\*Hieracium albiflorum\*](#) Hook.; White-Flower Hawkweed HIAL2 G4; BLK, BON, CAR, CLK, FRT, LIN, MAD, TID, TWY

[\*Hieracium scouleri\*](#) Hook.; Woollyweed HISC2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY; Synonym: *Hieracium cynoglossoides* Arv.-Trouw.

[\*Hieracium triste\*](#) Willd. ex Spreng.; Woolly Hawkweed HITR2 G5; BON, FRT, TID, TWY

[\*Hulsea algida\*](#) Gray; Pacific Alpinegold HUAL G4; BUT, CLK, FRT?, LEM; Reported by Evert (2010) from Fremont Co., but no specimen known (Kartesz 2022).

[\*Hymenopappus filifolius\* var. \*idahoensis\*](#) B.L. Turner; Idaho Fine-Leaf Woollywhite HYFII G5T3; CLK; S3 in ID; endemic to five counties in c ID (Kartesz 2022); reported for the CTNF (supported by one specimen) by Markow (1994), confirmed by a recent collection: *Snow 12005* (KSP046354).

[\*Hymenoxys grandiflora\*](#) (Torr. & Gray) Parker; Old-Man-of-the-Mountain HYGR5 G4; CLK, FRT, LEM, TWY

[\*Hymenoxys hoopesii\*](#) (Gray) Bierner; Owl's-Claws, Orange Sneezeweed HYHO G5; BLK, BON, CAR, LIN

[\*Ionactis alpina\*](#) (Nutt.) Greene; Lava Ankle-Aster IOAL G5; CLK

[\*Iva axillaris\*](#) Pursh; Poverty Weed, Deer-Root IVAX G5; BLK, BUT, CLK

[\*Lactuca serriola\*](#) L.; Prickly Lettuce LASE G5; BON, CAR, FRT, MAD, TID, TWY; Non-native; Widespread in N America (Kartesz 2022).

[\*Leucanthemum vulgare\*](#) Lam.; Ox-Eye Daisy LEVU G5; BLK, CLK, FRT, MAD, TID, TWY; Non-native; Synonym: *Chrysanthemum leucanthemum* L.; considered noxious in ID, UT, WY, and some other states (Kartesz 2022); seeds sometimes unfortunately marketed as "wildflower" seed.

[\*Madia glomerata\*](#) Hook.; Mountain Tarplant MAGL2 G5; BAN, BLK, BON, CLK, FRN, FRT, LIN, MAD, TID, TWY

[\*Matricaria discoidea\*](#) DC.; Pineapple-Weed MADI6 G5; BLK, BON, CLK, FRN, FRT, LIN, MAD, TID, TWY

[\*Microseris nutans\*](#) (Hook.) Schultz-Bip.; Nodding Silverpuffs MINU G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

[\*Mulgedium oblongifolium\*](#) (Nutt.) Reveal; Blue Milk-Lettuce G5T5; BON, BUT, CLK, FRT, TID, TWY; Often known as *Mulgedium pulchellum* (Pursh) G. Don.

[\*Nestotus stenophyllus\*](#) (Gray) Urbatsch, R.P. Roberts & Neubig; Narrow-Leaf Golden-Matweed G5; LEM

[\*Nothocalais nigrescens\*](#) (Henderson) Heller; Black-Hair Prairie-Dandelion NONI G4; BAN, CLK, FRT, TWY

[\*Nothocalais troximoides\*](#) (Gray) Greene; Weevil Prairie-Dandelion NOTR2 G5; BAN, CAR?, LEM

[\*Oreostemma alpigenum\* var. \*haydenii\*](#) (Porter) Nesom; Tundra Mountaincrown ORALH G5T4; BAN, TWY; Somewhat disjunct in Bannock Co. (Kartesz 2022).

[\*Packera cana\*](#) (Hook.) W.A. Weber & A. Löve; Silver-Woolly Groundsel PACA15 G5; BON, BUT, CAR, CLK, FRN, FRT, LEM, \*OND; *Daines 510, 799* (KSP040438, KSP040726).

[\*Packera dimorphophylla\* var. \*dimorphophylla\*](#) Two-Leaf Groundsel PADID3 G4T3; TWY

[\*Packera dimorphophylla\* var. \*pavsonii\*](#) (T.M. Barkl.) D.K. Trock & T.M. Barkl.; Payson's Two-Leaf Groundsel PADIP2 G4T4; BON, CAR, CLK, FRT, TWY

[\*Packera indecora\*](#) (Greene) A. & D. Löve; Rayless Mountain Groundsel PAIN11 G5; BLK, FRN, FRT?; Two specimens from our area were initially confused with *P. multilobata* (Torr. & Gray) W.A. Weber & A. Löve and *P. dimorphophylla* (Greene) W.A. Weber & A. Löve; exhibits a scattered distribution in parts of the w US and is also found near Lake Superior (Kartesz 2022).

[\*Packera multilobata\*](#) (Torr. & Gray) W.A. Weber & A. Löve; Lobe-Leaf Groundsel PAMU11 G5; BAN, BLK, BON, BOX, CAR, FRN

[\*Packera paupercula\* var. \*paupercula\*](#) Balsam Groundsel G5T?; BON, CAR, FRT, MAD, TWY

[\*Packera pseud aurea\* var. \*pseud aurea\*](#) Streambank Groundsel PAPSP2 G5T5; BON, FRT, TWY

[\*Packera streptanthifolia\*](#) (Greene) W.A. Weber & A. Löve; Rocky Mountain Groundsel PAST10 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

[\*Packera subnuda\* var. \*subnuda\*](#) Buek's Groundsel G5T5; BON, CAR, FRT, TWY

[\*Packera werneriiifolia\*](#) (Gray) W.A. Weber & A. Löve ex D.K. Trock; Rocky Alpine Groundsel PAWE4 G5; BUT, CLK, FRT, LEM

[\*Petradoria pumila\*](#) (Nutt.) Greene; Grassy Rock-Goldenrod PEPU7 G5; BAN, BLK, BOX, CCH, FRN

[\*Pseudognaphalium macounii\*](#) (Greene) Kartesz; Macoun's Rabbit-Tobacco PSMA11; FRT, TWY

[\*Psilocarphus brevissimus\* var. \*brevissimus\*](#) Dwarf Woollyheads PSBRB G4T4; BLK

*Pyrrocoma integrifolia* (Porter ex Gray) Greene; Smooth Goldenweed PYIN3 G4; CLK, FRT; S1 in ID; a regional endemic that occurs in sw MT, e ID, and parts of WY (Kartesz 2022).

*Pyrrocoma uniflora* var. *uniflora* Plantain Goldenweed PYUNU G5T4; CLK

*Rudbeckia occidentalis* Nutt.; Western Coneflower RUOC2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

*Senecio amplexens* var. *holmii* (Greene) Harrington; Showy Alpine Ragwort SEAMH G4T4; TWY

*Senecio crassulus* Gray; Thick-Leaf Ragwort SECR G5; BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, TID, TWY

*Senecio fremontii* Torr. & Gray; Dwarf Mountain Ragwort SEFR3 G5; BLK, BUT, FRT, LEM, TWY

*Senecio hydrophiloides* Rydb.; Stout Meadow Ragwort SEHY G4; LEM

*Senecio hydrophilus* Nutt.; Alkali-Marsh Ragwort SEHY2 G5; FRT, TWY

*Senecio integerrimus* var. *exaltatus* (Nutt.) Cronq.; Lamb-Tongue Ragwort SEINE G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, POW, TID, TWY; A widespread species in low to middle elevations in much of the CTNF.

*Senecio lugens* Richards.; Small Black-Tip Ragwort SELU G5; CLK, FRT; An arctic/boreal species that occurs in the US mostly in WA, MT and WY, plus in a few counties in ID (Kartesz 2022).

*Senecio serra* var. *serra* Tall, Sawtooth Ragwort SESES G5T4; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, TID, TWY

*Senecio sphaerocephalus* Greene; Mountain-Marsh Ragwort SESP4 G4; CLK, FRT, LEM

*Senecio triangularis* Hook.; Arrow-Leaf Ragwort SETR G5; BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, \*OND, TID, TWY; *Daines 847* (KSP040774).

*Solidago elongata* Nutt.; Cascade Canada Goldenrod SOEL4; BON; Somewhat uncommon in our area, but more widespread in the Pacific NW and CA.

*Solidago gigantea* Ait.; Late Goldenrod SOGI G5; BAN?, LIN?; Reported for our area by some specimens, but Kartesz (2022) does not recognize it in se ID; more research on the best disposition of these specimens would be helpful.

*Solidago glutinosa* Nutt.; Western Sticky Goldenrod SOGL6 G5; BLK, FRT, LEM; *Solidago simplex* Kunth, misapplied.

*Solidago lepida* var. *salebrosa* (Piper) Semple; Western Canada Goldenrod G5T5; BAN, BON, CAR, CLK, FRT, LIN, TID, TWY

*Solidago missouriensis* Nutt.; Missouri Goldenrod SOMI2 G5; BAN, BON, CAR, CLK, FRT, LIN, MAD, TID, TWY

*Solidago multiradiata* var. *scopulorum* Gray; Rocky Mountain Goldenrod SOMUS G5T5; BON, BUT, CAR, CLK, FRT, LEM, MAD, TID, TWY

*Solidago nana* Nutt.; Baby Goldenrod SONA G5; BON?, FRN, FRT; S3 in ID.

*Solidago velutina* DC.; Three-Nerve Goldenrod SOVE6 G5; BON, CAR, FRN; Synonym: *S. sparsiflora* Gray.

*Sonchus arvensis* L.; Field Sow-Thistle SOAR2 G5; TWY; Non-native; Noxious in ID and WY (Kartesz 2022).

*Sonchus arvensis* subsp. *uliginosus* (Bieb.) Nyman; Field Sow-Thistle SOARU G5T5; CLK, FRT; Non-native; Noxious in ID and WY (Kartesz 2022).

*Sonchus asper* (L.) Hill; Spiny-Leaf Sow-Thistle SOAS G5; FRT; Non-native

*Sonchus oleraceus* L.; Common Sow-Thistle SOOL G5; TWY; Non-native

*Stenotus acaulis* (Nutt.) Nutt.; Stemless Mock Goldenweed STAC G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

*Stephanomeria tenuifolia* (Raf.) Hall; Lesser Wire-Lettuce STTE2 G5; BUT, CLK

*Symphotrichum ascendens* (Lindl.) Nesom; Western American-Aster SYAS3 G5; BAN, BLK, BON, CAR, CLK, FRT, MAD, TID, TWY

*Symphotrichum bracteolatum* (Nutt.) Nesom; Bracted American-Aster SYBR2 G5; BAN, BLK, BON, CAR, CLK, FRT, TID, TWY. Synonym: *S. eatonii* (Gray) Nesom.

*Symphotrichum campestre* (Nutt.) Nesom; Western Meadow American-Aster SYCA3 G5; BON, BUT, CLK, FRT

*Symphotrichum cusickii* (Gray) Nesom; Cusick's American-Aster SYCU2 G4; TWY?; Reported from Teton Pass on the border of the study area: *Merrill and Wilcox 1178* (RM), also from more recent collections nearby, such as *Hartman 86714* (RM). Not recognized as occurring in Wyoming by Kartesz (2022) or Brouillet et al. (2006).

*Symphotrichum ericoides* var. *pansum* (Blake) Nesom; White Heath American-Aster SYERP2 G5T5; BLK, FRT; Somewhat disjunct in the Bear River Range, Bear Lake Co.: *J.F. Smith 10549* (CIC, IDS, SRP) (see also Kartesz 2022).

*Symphotrichum foliaceum* (Lindl. ex DC.) Nesom; Leafy-Head American-Aster SYFO2 G5; BON, BUT, CAR

*Symphotrichum foliaceum* var. *apricum* (Gray) Nesom; Alpine Leafy-Head American-Aster SYFOA G5T4; CLK, FRT, TID, TWY

*Symphotrichum foliaceum* var. *canbyi* (Gray) Nesom; Canby's Leafy-Head American-Aster SYFOC G5T4; BAN, BON, BUT, CLK, FRT, TID, TWY

*Symphotrichum foliaceum* var. *foliaceum* Leafy-Head American-Aster SYFOF G5T5; FRT

*Symphotrichum foliaceum* var. *parryi* (D.C. Eat.) Nesom; Parry's Leafy-Head American-Aster SYFOP G5T4; BON, CLK, FRN, FRT, TID, TWY

*Symphotrichum laeve* var. *geyeri* (Gray) Nesom; Smooth Blue American-Aster SYLAG G5T5; BON?; Kartesz (2022) shows that this taxon's presence in Bonneville Co. is questionable.

*Symphotrichum lanceolatum* subsp. *hesperium* (Gray) Nesom; White Panicked American-Aster SYLAH6 G5T5; BON, FRT, TWY

*Symphotrichum spathulatum* var. *intermedium* (Gray) Nesom; Mountain American-Aster SYSPI G5T5; FRT, TID

*Symphotrichum spathulatum* var. *spathulatum* Mountain American-Aster SYSPS G5T5; BLK, CAR, CLK, FRT, TWY

*Symphotrichum subspicatum* (Nees) Nesom; Leafy-Bract American-Aster SYSU4 G5; BAN, FRT?

*Symphotrichum welshii* (Cronq.) Nesom; Welsh's American-Aster SYWE G2; TWY; Reported from the Ashton Ranger District in Teton Co., WY: *Hartman 86827* (RM); known from a few other WY collections; otherwise mostly known from s UT (also in n UT, n AZ, n ID; Kartesz 2022).

*Tanacetum vulgare* L.; Common Tansy TAVU G5; CLK, FRT; Non-native

*Taraxacum erythrospermum* Andr. ex Bess.; Red-Seed Dandelion TAER3 G5; BON, CLK, \*FRN, FRT, LIN, MAD, TID, TWY; Non-native; Somewhat sparsely distributed, widespread across much of N America (Kartesz 2022); *Daines 138* (KSP040068).

*Taraxacum officinale* G.H. Weber ex Wiggers; Common Dandelion TAOF G5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, POW, TID, TWY; Non-native

*Taraxacum scopulorum* (Gray) Rydb.; Rock Dandelion TASC3 G5; BUT, LEM, TWY; A native dandelion.

*Tetradymia canescens* var. *canescens* Spineless Horsebrush TECAC? G5T5?; BAN, BLK, BON, CLK, FRT, MAD, OND, TID

*Tetranneuris acaulis* var. *arizonica* (Greene) Parker; Arizona Stemless Four-Nerve Daisy TEACA G5TNR; BLK, CAR

*Townsendia condensata* Parry; Cushion Townsend Daisy TOCO2 G4; BUT, CLK, LEM; SNR in ID; exhibits a scattered distribution over parts of the w US; it is perhaps most widespread in its US range in and near our area in east-central ID (Kartesz 2022, CPNWH 2023).

*Townsendia florifer* (Hook.) Gray; Showy Townsend Daisy TOFL5 G5; LEM, OND

*Townsendia hookeri* Beaman; Hooker's Townsend Daisy TOHO G5; BUT, CLK; Synonym: *T. nuttallii* Dorn.

*Townsendia leptotes* (Gray) Osterhout; Common Townsend Daisy TOLE G4; CLK, LEM

*Townsendia montana* M.E. Jones; Wyoming Townsend Daisy TOMO G4; BON, CLK, FRT, LEM, LIN, TID, TWY; Synonym: *Townsendia alpigena* Piper.

*Townsendia parryi* D.C. Eat.; Parry's Townsend Daisy TOPA2 G4; BUT, CLK, FRT, LEM

*Tragopogon dubius* Scop.; Meadow Goat's-Beard TRDU G5; BAN, BLK, BON, BUT, CLK, FRN, FRT, LEM, MAD, OND, TID, TWY; Non-native

*Tragopogon porrifolius* L.; Salsify TRPO G5; FRN; Non-native

*Tragopogon pratensis* L.; Jack-Go-To-Bed-At-Noon TRPR G5; BLK, BON, CAR, CLK; Non-native

*Tripleurospermum inodorum* (L.) Schultz-Bip.; Scentless False Mayweed TRIN11 G5; CLK, FRT, MAD, TWY; Non-native; Somewhat widespread over the w US (Kartesz 2022).

*Wyethia amplexicaulis* (Nutt.) Nutt.; Northern Mule's-Ears WYAM G4; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, MAD, OND, TID, TWY

*Wyethia helianthoides* Nutt.; White-Ray Mule's-Ears WYHE2 G4; BAN, BON, BUT, CLK, FRT, TWY

[\*Wyethia X cusickii\*](#) Piper (pro sp.); [*amplexicaulis X helianthoides*] Cusick's Mule's-Ears WYCU; CLK, FRT, TWY?; Reported from Teton Co., WY by *Dorn 10155* (RM), but not recognized in WY by Kartesz (2022).

[\*Xanthium strumarium\*](#) L.; Rough Cocklebur XAST G5; OND

#### **Berberidaceae: Barberry Family**

[\*Mahonia repens\*](#) (Lindl.) G. Don; Creeping Oregon-Grape MARE11 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, POW, TID, TWY

#### **Betulaceae: Birch Family**

[\*Alnus alnobetula subsp. sinuata\*](#) (Regel) Raus; Sitka Alder G5T5; BON?, FRT?, TID, TWY; Reported from Bonneville and Fremont Counties (Kartesz 2022, Whitehead 1983), but these reports may be based on misidentified specimens.

[\*Alnus incana subsp. tenuifolia\*](#) (Nutt.) Breitung; Western Speckled Alder ALINT G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY; Synonym: *A. incana* (L.) Moench var. *occidentalis* (Dippel) C.L. Hitchc.

[\*Betula glandulosa\*](#) Michx.; Resin Birch BEGL G5; BLK, BON, BUT, CAR, CLK, FRT, TWY

[\*Betula occidentalis\*](#) Hook.; River Birch BEOC2 G4; BAN, BLK, BON, CAR, CLK, FRN, TWY

[\*Betula pumila\*](#) L.; Bog Birch BEPU4 G5; FRT; S2 in ID; a widespread arctic/boreal species that reaches its southeastern Rocky Mountain distribution in Fremont Co., ID (Kartesz 2022), in the Island Park Caldera, but only known from one historic specimen: *Baker 9905* (WTU); further collections and research would be useful.

#### **Boraginaceae: Borage Family**

[\*Amsinckia menziesii\*](#) (Lehm.) A. Nels. & J.F. Macbr.; Small-Flower Fiddleneck AMME G5; CLK, TWY

[\*Amsinckia tessellata var. tessellata\*](#) Devil's-Lettuce AMTET G5T5?; BAN; Disjunct in Bannock Co., more widespread to the s and w, from WA to NM (Kartesz 2022).

[\*Anchusa officinalis\*](#) L.; Common Alkanet ANOF G5; LEM; Non-native

[\*Asperugo procumbens\*](#) L.; German-Madwort ASPR G5; BAN, BON, FRN, OND; Non-native

[\*Buglossoides arvensis\*](#) (L.) I.M. Johnston; Corn-Gromwell BUAR3 G5; BLK, BON, CAR?, FRN; Non-native; A tentatively identified specimen could represent this sp. (Caribou Co.): *Daines 410* (KSP040339), but it is of somewhat uncertain phenology and not readily identifiable.

[\*Cryptantha affinis\*](#) (Gray) Greene; Quill Cat's-Eye CRAF G4; BON, CLK, FRT, MAD, TID, TWY

[\*Cryptantha ambigua\*](#) (Gray) Greene; Basin Cat's-Eye CRAM3 G4; CLK

[\*Cryptantha kelseyana\*](#) Greene; Kelsey's Cat's-Eye CRKE G4; CLK

[\*Cryptantha torreyana var. torreyana\*](#) Torrey's Cats-Eye G5T5?; BAN, BLK, BON, BUT, CLK, FRT, LIN, MAD, TID, TWY

[\*Cryptantha watsonii\*](#) (Gray) Greene; Watson's Cat's-Eye CRWA2 G5; CAR, CLK, FRT, MAD, TID, TWY

[\*Cynoglossum officinale\*](#) L.; Hound's Tongue CYOF G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

[\*Eritrichium argenteum\*](#) W. Wight; Pale Alpine-Forget-Me-Not G4; CLK, FRT, LEM, TWY; Frequently known as *Eritrichium nanum* (L.) Schrad. ex Gaudin.

[\*Hackelia cinerea\*](#) (Piper) I.M. Johnston; Gray Stickseed HACI2 G4; FRT

[\*Hackelia deflexa var. americana\*](#) (Gray) Fern. & I.M. Johnston; Nodding Stickseed HADEA G5T5; CLK

[\*Hackelia floribunda\*](#) (Lehm.) I.M. Johnston; Many-Flower Stickseed HAFL2 G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

[\*Hackelia micrantha\*](#) (Eastw.) J.L. Gentry; Blue Stickseed HAMI G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

[\*Hackelia patens var. patens\*](#) Spotted Stickseed HAPAP G5T5; BAN, BLK, BON, BOX, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

~ [\*Lappula longispina\*](#) Rolfsmeier, ined.; Long-Spine Sheepburr; \*CLK, \*OND; *Snow 11790, 11869, Daines 1895, 1982, 2010* (KSP046404, KSP046449, KSP041903, KSP041990, KSP044871); this

species is not yet formally named; from collections on the CTNF and other recent collections (CPNWH 2023) it appears to be somewhat more common in s ID than previously thought.

*Lappula montana* Greene; Montane Sheepburr GNR; MAD; A rare, sparsely distributed taxon.

*Lappula occidentalis* var. *occidentalis* Montane Sheepburr LAOCO G5T5; BON, CLK, FRT, LIN, MAD, TID

*Lappula occidentalis* var. *stricta* (S. Wats.) Rolfsmeier, ined.; G5T5; CLK, MAD

*Lappula squarrosa* (Retz.) Dumort.; Bristly Sheepburr LASQ G5; BLK, BON, BUT, CAR, CLK, FRT, MAD, OND, TID, TWY; Non-native; Relatively widespread in the n US (Kartesz 2022).

*Lithospermum ruderale* Dougl. ex Lehm.; Columbian Puccoon, Common Stoneseed LIRU4 G5; BAN, BLK, BON, BOX, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

*Mertensia amoena* A. Nels.; Beautiful Bluebells; \*BLK, BUT?, CLK; Duplicates of *Henderson 8004* (SRP), collected in the Lemhi Range in Butte Co., have been annotated as *Mertensia* aff. *amoena*; *Daines 1545* (KSP041551).

*Mertensia brachycalyx* Piper; Short-Sepal Bluebells; CAR; Uncommon, very sparsely scattered across WA, OR, ID, and possibly MT (Kartesz 2022).

*Mertensia brevistyla* S. Wats.; Short-Style Bluebells MEBR G4; \*BAN, FRN, OND; Occurs in three counties in se ID, otherwise somewhat widespread from e NV to CO and WY (Kartesz 2022); *Daines 2210* (KSP045072).

*Mertensia ciliata* var. *ciliata* Tall Fringed Bluebells MECIC2 G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

*Mertensia coriacea* A. Nels.; Green Bluebells; BUT, CAR, CLK, FRT, LEM, TID; Synonym: *M. viridis* (A. Nels.) A. Nels.

*Mertensia foliosa* A. Nels.; Sagebrush Bluebells G5; BAN, BLK, BON, BUT?, CAR, FRN, LEM, LIN, MAD, OND, TID; Our common low-elevation sagebrush bluebells; traditionally, *M. oblongifolia* (Nutt.) G. Don has been applied to this taxon, but *M. oblongifolia* is actually endemic to sw MT (Hitchcock and Cronquist 2018, Kartesz 2022).

*Mertensia paniculata* (Ait.) G. Don; Tall Bluebells MEPA G5; FRN?; *J. H. Christ 16197* (NY) from Franklin Co. was identified as this sp., but Kartesz (2022) does not recognize it there.

*Mertensia tweedyi* Rydb.; Tweedy's, Alpine Bluebells. Synonym: *M. alpina* (Torr.) G. Don; documented from only one specimen in ID: *Moseley 833* (ID) from the Henry's Lake Mts.; otherwise, distributed mostly in the Rocky Mts. from MT to n NM (Kartesz 2022).

*Myosotis asiatica* (Vesterg.) Schischkin & Sergievskaja; Asian Forget-Me-Not MYAS2 G5; CLK, FRT, LEM, TWY; The name *Myosotis alpestris* F.W. Schmidt is sometimes misapplied to this taxon.

*Myosotis scorpioides* L.; True Forget-Me-Not MYSC G5; BLK, FRT; Non-native

*Myosotis stricta* Link ex Roemer & J.A. Schultes; Blue Scorpion-Grass MYST2 G5; BAN; Non-native; *Myosotis micrantha* Pallas ex Lehm., misapplied.

*Myosotis sylvatica* Ehrh. ex Hoffmann; Woodland Forget-Me-Not MYSY G5; LEM; Non-native

*Oreocarya caespitosa* A. Nels.; Tufted Perennial Cat's-Eye ORCA8 G4; BLK, CAR; S1 in ID; occurs in four counties in the se corner of ID (Kartesz 2022).

~ *Oreocarya flavoculata* A. Nels.; Rough-Seed Perennial Cat's-Eye ORFL3 G5; OND; SNR in ID; first report for the CTNF-CNG: *Daines 1966* (KSP041974) from Meadow Brook Creek Canyon in the CNG; only occurs in three ID counties, more widespread from the Great Basin to NM, CO, and WY (Kartesz 2022).

*Oreocarya glomerata* (Pursh) Greene; Buttecandle ORGL G5; BLK; Somewhat uncommon in our area; different than *Cryptantha glomerata* Lehm. ex G. Don (Kartesz 2022).

*Oreocarya humilis* (Gray) Greene; Round-Spike Perennial Cat's-Eye ORHU2 G4; BAN, BLK, CAR, \*FRN, LEM, OND; *Daines 947* (KSP040877).

*Oreocarya interrupta* Greene; Elko Perennial Cat's-Eye G4; CLK

*Oreocarya sobolifera* (Payson) R.B. Kelley; Waterton Lakes Perennial Cat's-Eye G4; BUT, CLK, LEM

~ *Oreocarya spiculifera* Piper; Snake River Perennial Cat's-Eye ORSP3 G4; BOX, CLK, OND; *Snow 11654, 11849, Daines 1490, 1702, 1750, 2422* (KSP046094, KSP046388, KSP041496, KSP041708, KSP041757, KSP045282); occurs mostly in lower-elevation areas.

*Pectocarya penicillata* (Hook. & Arn.) A. DC.; Short-Leaf Combseed PEPE26 G5; BON; Uncommon in the CTNF-CNG; only known in the study area from one collection in the Caribou Range: *Dieffenbach TNF-0061* (IDS).

[\*Plagiobothrys cusickii\*](#) (Greene) I.M. Johnston; Cusick's Popcorn-Flower PLCU2; CAR; Known from a 1952 collection: *Baker 9507* (A) and recently collected (as confirmation of presence in the state) in the CTNF in 2020: *J.F. Smith 16635* (SRP) and *S.L. Love SL2020-2* (IDS); widely disjunct in ID from the rest of the species' range; widespread in CA and NV (Kartesz 2022).

[\*Plagiobothrys hispidulus\*](#) (Greene) I.M. Johnston; Harsh Popcorn-Flower PLHI7 G5; BLK, CAR, FRN, FRT, MAD, OND, TID, TWY

[\*Plagiobothrys leptocladus\*](#) (Greene) I.M. Johnston; Alkali Popcorn-Flower PLLE G4; CLK, FRT

### Brassicaceae: Mustard Family

[\*Alyssum alyssoides\*](#) (L.) L.; Pale Madwort ALAL3 G5; BAN, BON, CAR, LIN, OND, TID, TWY

[\*Alyssum desertorum\* var. \*desertorum\*](#) Desert Madwort ALDED G5T5; BAN, BLK, BON, BOX, BUT, CAR, CLK, OND; Non-native

[\*Anelsonia eurycarpa\*](#) (Gray) J.F. Macbr. & Payson; Daggerpod ANEU G4; BUT, CLK, LEM; An alpine species; occurs in CA, w NV, and east-central ID and adjacent sw MT (Kartesz 2022).

[\*Arabidopsis thaliana\*](#) (L.) Heynh.; Thalecress ARTH G5; BLK, FRN; Non-native; A widespread non-native used as a model organism; the first naturalized population in s ID was documented in the Bear River Range in 2020 by Noel and Patricia Holmgren: *Holmgren 17200* (IDS, RENO, UTC).

[\*Arabis eschscholtziana\*](#) Andrz.; Pacific-Coast Eared Rockcress ARES5 G4; BON, BUT, CLK, FRT, LEM, TWY

[\*Arabis nuttallii\*](#) (Kuntze) B.L. Robins.; Nuttall's Eared Rockcress ARNU G5; BAN, BON, CAR, FRT, LEM, LIN, TWY

[\*Arabis pycnocarpa\*](#) M. Hopkins; Hairy Eared Rockcress ARPY4 G5; BUT, CAR, CLK, TID, TWY

[\*Barbarea orthoceras\*](#) Ledeb.; American Yellow-Rocket BAOR G5; BAN, BON, CLK, FRN, FRT, TID, TWY

[\*Barbarea vulgaris\*](#) Ait. f.; Garden Yellow-Rocket BAVU G5; FRT; Non-native

[\*Berteroa incana\*](#) (L.) DC.; Hoary False Madwort BEIN2 G5; FRT; Non-native; Noxious in ID (Kartesz 2022).

[\*Boecheira acutina\*](#) (Greene) Windham & Al-Shehbaz; Pointed Rockcress; CAR?; A specimen that seems to match this taxon was recently collected near Dry Ridge in the Caribou Range: *Daines 2267* (KSP045127); however, this species occurs in CA and OR (Kartesz 2022); further research will be required to clarify the identity of this specimen, which could represent a significant range extension of *B. acutina* or perhaps an undescribed apomictic taxon.

[\*Boecheira calderi\*](#) (G. Mulligan) Windham & Al-Shehbaz; Calder's Rockcress G4; BLK, CLK; Apparently disjunct in Bear Lake Co., on Meade Peak: *C.A. Wellner 2425* (ID); otherwise somewhat widespread in WA, OR, c ID, and MT and some nearby areas (Kartesz 2022).

[\*Boecheira cobrensis\*](#) (M.E. Jones) Dorn; Masonic Rockcress BOCO6 G5; BLK, \*OND; Uncommon in the CTNF-CNG; only known from two collections in the study area: *Daines 822* (KSP040749) and *J.F. Smith 10563* (CIC, IDS); occurs from OR to e CA, through parts of NV and ID to WY (Kartesz 2022).

[\*Boecheira collinsii\*](#) (Fern.) A. & D. Löve; Collins' Rockcress BOCO4 G5; BON, FRT, TID

[\*Boecheira divaricarpa\*](#) (A. Nels.) A. & D. Löve; Spreading-Pod Rockcress BODI4; BAN, BLK, BON, CAR, CLK, FRT, LEM, TWY

[\*Boecheira drepanoloba\*](#) (Greene) Windham & Al-Shehbaz; GNR; BLK, \*CAR, CLK, FRT; Kartesz (2022) synonymizes this with *B. lemmonii* (S. Wats.) W.A. Weber, but it is accepted by Al-Shehbaz and Windham (2010); *Daines 1350* (KSP041280).

[\*Boecheira grahamii\*](#) (Lehm.) Windham & Al-Shehbaz; Limestone Rockcress G4; \*BLK, BON, CAR, CLK, FRT, MAD, TID, TWY; *Daines 678* (KSP040606).

!~ [\*Boecheira lasiocarpa\*](#) (Rollins) Dorn; Wasatch Rockcress G3; BLK; Previously reported from ID in error (Rollins 1993, Holmgren et al. 2005, see Al-Shehbaz and Windham 2010); a new collection does appear to represent *B. lasiocarpa*, collected in the Bear River Range of Bear Lake Co. on a subalpine ridge near Sherman Peak: *Daines 2493* (KSP050000); expert concurrence would be useful to confirm this state record; this species was previously understood to be endemic to the Bear River Range and other mountains in n UT (Kartesz 2022).

[\*Boecheira lemmonii\*](#) (S. Wats.) W.A. Weber; Lemmon's Rockcress BOLE5 G5; BLK, BON, BUT, CAR, \*FRN, FRT, LEM, TWY; *Daines 1193* (KSP041123).

[\*Boecheira lignifera\*](#) (A. Nels.) W.A. Weber; Owens Valley Rockcress BOLI6 G5; BLK?, BON, BUT, CLK  
[\*Boecheira lyallii\*](#) (S. Wats.) Dorn; Lyall's Rockcress BOLY G5; BAN, CLK, FRN, FRT, TWY  
[\*Boecheira microphylla\*](#) (Nutt.) Dorn; Small-Leaf Rockcress BOMI3 G4; BON, FRT, TWY  
[\*Boecheira pauciflora\*](#) (Nutt.) Windham & Al-Shehbaz; Columbia Rockcress G4; BON, CLK, LIN, TID, TWY

[\*Boecheira pendulocarpa\*](#) (A. Nels.) Windham & Al-Shehbaz; Danglepod Rockcress G5; BAN, BLK, BON, CAR, FRT, MAD, \*OND, TID, TWY; *Daines 800* (KSP040727).  
[\*Boecheira puberula\*](#) (Nutt.) Dorn; Blue Mountain Rockcress G5; BAN?, BUT?; Reported by Irwin (2014) from east-central ID, but not reported in any east-central ID counties by Kartesz (2022).  
[\*Boecheira retrofracta\*](#) (Graham) A. & D. Löve; Reflexed Rockcress BORE6 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY  
~ [\*Boecheira saximontana\*](#) (Rollins) Windham & Al-Shehbaz; Rocky Mountain Rockcress G3; \*BON; SNR in ID; *Daines 2709* (KSP045575), found on a subalpine ridge near Sheep Creek Peak in the Snake River Range; mostly distributed in parts of c and s ID, s MT, and w WY (Kartesz 2022).  
[\*Boecheira sparsiflora\*](#) (Nutt.) Dorn; Elegant Rockcress BOSP7 G4; BAN, BLK, \*FRN, OND; *Daines 2436* (KSP045296).  
[\*Boecheira stricta\*](#) (Graham) Al-Shehbaz; Canadian Rockcress G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, MAD, TID, TWY

[\*Brassica rapa\*](#) L.; Rape BRRA G5; FRT; Non-native  
[\*Camelina microcarpa\*](#) Andr. ex DC.; Little-Pod False Flax CAMI2 G5; BAN, \*BLK, BON, CLK, FRT, OND, TID; *Daines 206* (KSP040135).  
[\*Capsella bursa-pastoris\*](#) (L.) Medik.; Shepherd's-Purse CABU2 G5; BAN, BLK, BON, CAR, CLK, FRT, LEM, LIN, MAD, OND, TID, TWY; Non-native; Widespread in N America (Kartesz 2022).  
[\*Cardamine breweri\*](#) S. Wats.; Sierran Bittercress CABR6 G5; BON, CAR, CLK, FRN, FRT, MAD, TID, TWY  
[\*Cardamine cordifolia\*](#) Gray; Large Mountain Bittercress CACO6 G5; FRN  
[\*Cardamine oligosperma\*](#) Nutt.; Little Western Bittercress CAOL G5; BAN, BON, BUT, FRT  
[\*Cardamine pennsylvanica\*](#) Muhl. ex Willd.; Quaker Bittercress CAPE3 G5; CLK, FRT, TWY  
[\*Chorispora tenella\*](#) (Pallas) DC.; Crossflower CHTE2 G5; BAN, BON, CLK, FRN, OND, POW, TID; Non-native; Resembles and can be confused with *Strigosella africana* (L.) Botsch.  
[\*Conringia orientalis\*](#) (L.) Dumort.; Hare's-Ear-Mustard COOR G5; BAN; Non-native  
[\*Crucihimalaya virgata\*](#) (Nutt.) D.A. German & A.L. Ebel; Wand False Fissurewort G4; LEM; Sometimes placed in *Transberingia* or *Halimolobos*.  
[\*Descurainia californica\*](#) (Gray) O.E. Schulz; Sierran Tansy-Mustard DECA6 G5; BAN, BLK, BON, CAR, FRT, MAD, \*OND, TID; *Daines 834* (KSP040761).  
[\*Descurainia incana\*](#) (Bernh. ex Fisch. & C.A. Mey.) Dorn; Mountain Tansy-Mustard DEIN5 G5; BLK, BON, BUT, CAR, CLK, FRT, LEM, MAD, TID, TWY  
[\*Descurainia incisa subsp. incisa\*](#) Cut-Leaf Tansy-Mustard DEIN13 G5T4; BLK, BON, BUT, CAR, CLK, FRT, LEM  
[\*Descurainia longepedicellata\*](#) (Fourn.) O.E. Schulz; Long-Pedicellate Tansy-Mustard G5; BON, CAR, CLK, LIN, OND, TID  
[\*Descurainia nelsonii\*](#) (Rydb.) Al-Shehbaz & Goodson; Nelson's Tansy-Mustard G4; BLK, BON, CLK, FRN, LEM, MAD, TID, TWY  
[\*Descurainia pinnata subsp. brachycarpa\*](#) (Richards.) Detling; DEPIB G5T5; BAN, BON, CLK, TWY  
[\*Descurainia sophia\*](#) (L.) Webb ex Prantl; Herb-Sophia, Flixweed DESO2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, OND, TID, TWY; Non-native; Widespread in the w US (Kartesz 2022).  
[\*Draba albertina\*](#) Greene; Slender Whitlow-Grass DRAL4 G4; BLK, BON, CAR, CLK, FRT, LEM, MAD, TID, TWY  
[\*Draba aurea\*](#) Vahl ex Hornem.; Golden Whitlow-Grass DRAU G5; BON, BUT, CLK, LEM, TWY  
[\*Draba cana\*](#) Rydb.; Hoary Whitlow-Grass DRCA4 G5; BUT  
[\*Draba crassifolia\*](#) Graham; Snowbed Whitlow-Grass DRCR2 G5; BLK, BON, CLK, LEM, TWY  
[\*Draba densifolia\*](#) Nutt.; Dense-Leaf Whitlow-Grass DRDE G5; CAR, LEM, MAD  
[\*Draba fladnizensis\*](#) Wulfen; Austrian Whitlow-Grass DRFL G4; TWY; S2 in WY; an alpine *Draba*, rare across parts of its range (Kartesz 2022).



*Draba globosa* Payson; Beaver-Tip Whitlow-Grass DRGL6 G3; TWY; S2 in ID, S2S3 in WY, USFS R4 Sensitive Species; an alpine *Draba*, rare across its entire range from c ID and s MT, south to c UT and c CO (Kartesz 2022).

*Draba incerta* Payson; Yellowstone Whitlow-Grass DRIN2 G5; BLK, CLK, FRT, TWY; S2 in ID, S3 in WY.

*Draba lonchocarpa* Rydb.; Lance-Pod Whitlow-Grass DRLO G5; BLK, BON, BUT, CLK, LEM, TWY

*Draba nemorosa* L.; Woodland Whitlow-Grass DRNE G5; BAN, BLK, BON, CAR, CLK, LIN, MAD, TID, TWY

*Draba novolympica* Payson & St. John; Alpine-Crest Whitlow-Grass DRNO2 G4; CAR; Apparently disjunct in the northern Bear River Range of Caribou Co., otherwise somewhat widespread in c ID and w MT and scattered in other parts of the w US (Kartesz 2022).

*Draba oligosperma* Hook.; Few-Seed Whitlow-Grass DROL G5; BAN, BLK, BUT, CLK, FRN, FRT, LEM, TID, TWY

*Draba oreibata* J.F. Macbr. & Payson ex Payson; Limestone Whitlow-Grass DROR G4; BUT, LEM; S4 in ID; endemic to east-central ID (Kartesz 2022).

*Draba praealta* Greene; Tall Whitlow-Grass DRPR G5; BAN, BUT, LEM

*Draba stenoloba* Ledeb.; Alaska Whitlow-Grass DRST2; BON, CAR

!~ *Draba thompsonii* (C.L. Hitchc.) G. Mulligan & Al-Shehbaz; Thompson's Whitlow-Grass; BUT; *Daines* 2515 (MO) was verified by I. Al-Shehbaz as *D. thompsonii*; this species was previously only known from Yukon, British Columbia, and WA (Kartesz 2022; pers. comm., I. Al-Shehbaz, Mar. 2023); its presence in the alpine zone of the Lemhi Range, Butte Co., ID represents a significant disjunction of about 700 km from the populations in the Cascade Range of WA; rare, exhibits a very sparsely scattered distribution, but could be more common than we realize because it is easy to overlook (pers. comm., I. Al-Shehbaz, Mar. 2023).

*Draba verna* L.; Spring Whitlow-Grass DRVE2 G5; BAN, FRT; Non-native

*Erucastrum gallicum* (Willd.) O.E. Schulz; Common Dog-Mustard ERGA G5; CLK; Non-native

*Erysimum capitatum* (Dougl. ex Hook.) Greene; Sand-Dune Wallflower ERCA14 G5; BAN, BLK, BON, BOX, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

*Erysimum cheiranthoides* L.; Worm-Seed Wallflower ERCH9 G5; BLK, BON, CAR, CLK, FRT, LIN; Non-native

*Erysimum inconspicuum* (S. Wats.) MacMill.; Shy Wallflower ERIN7 G5; CAR, CLK, LEM

*Hesperis matronalis* L.; Dame's Rocket HEMA3 G4; TWY; Non-native

*Isatis tinctoria* L.; Dyer's-Woad ISTI G5; BAN, BLK, BOX, CAR, FRN, FRT, OND; Non-native; Noxious in ID, UT, and WY (Kartesz 2022)

*Lepidium campestre* (L.) Ait. f.; Cream-Anther Field Pepperwort LECA5 G5; BON, CAR, FRN, TWY; Non-native

*Lepidium densiflorum* Schrad.; Miner's Pepperwort LEDE G5; BLK, CAR, CLK, FRT, MAD, TID

*Lepidium draba* L.; Heart-Pod Pepperwort LEDR G5; TID; Non-native; Noxious in ID, UT, and WY (Kartesz 2022).

*Lepidium latifolium* L.; Broad-Leaf Pepperwort LELA2 G5; BON; Non-native; Noxious in ID, UT, and WY (Kartesz 2022).

*Lepidium paysonii* Rollins; Payson's Pepperwort LEPA42 G3; BLK; S1 in ID; exhibits a scattered distribution in a few counties in CO, ID, and WY (Al-Shehbaz and Gaskin 2010, Kartesz 2022).

*Lepidium perfoliatum* L.; Claspig Pepperwort LEPE2 G5; BAN, OND; Non-native

*Lepidium ramosissimum* A. Nels.; Branched Pepperwort LERA2 G5; BLK, BON, CLK, LIN, TID, TWY

*Lepidium virginicum subsp. menziesii* (DC.) Thellung; Poorman's Pepperwort G5T4; BLK, BON, CAR, FRT, MAD, TID, TWY

*Nasturtium officinale* Ait. f.; Watercress NAOF G5; BON, CAR, CLK, FRT, MAD, OND; Non-native

*Noccaea fendleri subsp. glauca* (A. Nels.) Al-Shehbaz & M. Koch; Alpine Pennycress G5T4; BLK, BON, CAR, FRN, LIN, TID, TWY

*Noccaea fendleri subsp. idahoense* (Payson) Al-Shehbaz & M. Koch; Idaho Alpine Pennycress G5T3; BON; Endemic to ID or nearly so; putative population(s) in Bonneville Co. are disjunct from the main part of the species' range by >200 km, but this taxon is tentatively accepted as occurring in the CTNF based on *Snow 12001* (KSP046350, MO), pending expert input; more widespread in c ID (Kartesz 2022, IRHN 2023).

*Physaria acutifolia* Rydb.; Sharp-Leaf Bladderpod PHAC4 G5; BLK, BON, CAR

[\*Physaria carinata\*](#) (Rollins) O'Kane & Al-Shehbaz; Keeled Bladderpod G3; BUT, CLK

[\*Physaria carinata subsp. paysonii\*](#) (Rollins) O'Kane; Payson's Keeled Bladderpod G3T3; BON, LEM, TID, TWY; S2 in ID; a FS Region 4 sensitive species (as *Lesquerella paysonii* Rollins); a rare regional endemic known from w WY and c and se ID (Kartesz 2022).

[\*Physaria carinata subsp. pulchella\*](#) (Rollins) O'Kane; Beautiful Keeled Bladderpod G3T3; LEM; SNR in ID; relatively narrowly endemic to Lemhi Co., ID and Granite and Beaverhead Cos., MT (Kartesz 2022).

[\*Physaria didymocarpa var. didymocarpa\*](#) Common Bladderpod PHDID G5T4; BLK, BON, BUT, CLK, LEM, LIN, OND

[\*Physaria didymocarpa var. lyrata\*](#) (C.L. Hitchc.) O'Kane; Lyrate Bladderpod G5T1; LEM; A FS Region 4 sensitive species; a local endemic known only from Lemhi and Butte Counties, ID (Kartesz 2022); known from rare plant documentation from the CTNF-CNG in one or two canyons in the s Beaverhead Mts, but not documented by a voucher there, as far as I have seen.

[\*Physaria integrifolia\*](#) (Rollins) Lichvar; Snake River Bladderpod PHIN19 G3; BLK, BON, LIN, MAD, TWY; A FS Region 4 sensitive species (as *P. integrifolia var. monticola* Lichvar); a regional endemic known from w WY, se ID, and one county in w MT (Kartesz 2022); *Daines 2095* (KSP044957) may confirm the presence of this species in Bear Lake Co. (documented before by *Rollins 8692* (UTC)).

[\*Physaria multiceps\*](#) (Maguire) O'Kane & Al-Shehbaz; Many-Head Bladderpod G3; BLK, BON, CAR, FRN, LIN; A regional endemic of relatively narrow distribution in se ID, w WY, and n UT (Kartesz 2022).

[\*Physaria occidentalis subsp. cinerascens\*](#) (Maguire & A. Holmgren) O'Kane & Al-Shehbaz; Western Ashen Bladderpod G4T3; FRN; Previously thought to be endemic to NV and UT (O'Kane 2010), but a specimen collected in Franklin Basin was determined to represent this variety by experts: *J.F. Smith 5206* (NY).

[\*Physaria occidentalis subsp. occidentalis\*](#) Western Bladderpod G4TNR; BAN, BLK, BON, BUT, CAR

[\*Physaria prostrata\*](#) (A. Nels.) O'Kane & Al-Shehbaz; Low Bladderpod G2; BON; A rare regional endemic known from sw WY, n UT, and c and se ID (Kartesz 2022).

[\*Rorippa alpina\*](#) (S. Wats.) Rydb.; Alpine Yellowcress ROAL G4; BLK, BON, FRN

[\*Rorippa curvipes\*](#) Greene; Blunt-Leaf Yellowcress ROCU2 G5; BLK, BON, CLK, \*FRN, FRT, LIN, MAD, TID, TWY; *Daines 549, 1166* (KSP040477, KSP041096).

[\*Rorippa curvisiliqua\*](#) (Hook.) Bess. ex Britt.; Curve-Pod Yellowcress ROCU G5; \*BLK, CLK, FRN, FRT, MAD, TWY; *Daines 1081, 2483* (KSP041011, KSP045344).

[\*Rorippa palustris subsp. hispida\*](#) (Desv.) Jonsell; Bristly Bog Yellowcress ROPAH G5T5; FRT, TWY

[\*Rorippa palustris subsp. palustris\*](#) Bog Yellowcress ROPAP G5T5; BLK, BON, CAR, FRT, TWY

[\*Sinapis arvensis\*](#) L.; Corn-Mustard SIAR4 G5; TWY; Non-native; Noxious in WY (Kartesz 2022).

[\*Sisymbrium altissimum\*](#) L.; Tall Hedge-Mustard SIAL2 G5; CLK, FRT, MAD, OND; Non-native; A widespread weed occurring in much of the U.S., especially the w U.S. (Kartesz 2022).

[\*Sisymbrium linifolium\*](#) (Nutt.) Nutt. ex Torr. & Gray; Lava Hedge-Mustard SILI5 G5; BUT, CLK, \*OND; *Daines 257, 1965* (KSP040186, KSP041973); a native *Sisymbrium*; sometimes placed in *Schoenocrambe*.

[\*Sisymbrium loselii\*](#) L.; False London Rocket SILO3 G5; CLK, FRT; Non-native

[\*Smelowskia americana\*](#) Rydb.; American False Candytuft G4; BON, CAR, FRT, LEM, TWY

[\*Stanleya viridiflora\*](#) Nutt.; Green Prince's-Plume STVI G4; BUT, CLK

[\*Streptanthus cordatus var. cordatus\*](#) Heart-Leaf Jewelflower STCOC G5T4; BLK, FRN, OND

[\*Strigosella africana\*](#) (L.) Botsch.; African Adder's-Mouth G5; CLK, \*OND; Non-native; *Daines 1983* (KSP041991); synonym: *Malcolmia africana* (L.) Ait. f.; superficially resembles and can be confused with *Chorispora tenella*.

[\*Thelypodium paniculatum\*](#) A. Nels.; Northwestern Thelypody THPA6 G2; CAR, FRT?; Rare, S1 in ID; known mostly from WY and surrounding counties in other states, but some occurrences may be extirpated or historical only (Kartesz 2022).

[\*Thelypodium sagittatum subsp. sagittatum\*](#) Arrowhead Thelypody THSAS G4T4; CAR, OND; Documented by *S.L. Welsh 16664* (NY) in the CNG (Oneida Co.).

[\*Thlaspi arvense\*](#) L.; Field Pennycress THAR5 G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, MAD, OND, TID, TWY; Non-native

[\*Tomostima reptans\*](#) (Lam.) Al-Shehbaz, M. Koch & Jordon-Thaden; Carolina Stonecress G5; CLK;  
Synonym: *Draba reptans* (Lam.) Fern.; widespread through much of the c US (Kartesz 2022).  
[\*Turritis glabra\*](#) L.; Tower-Mustard TUGL G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN,  
MAD, TID, TWY

#### **Cactaceae: Cactus Family**

[\*Opuntia fragilis\*](#) (Nutt.) Haw.; Pygmy Prickly-Pear OPFR G4; BON; Documented from Bonneville Co., ID:  
*Dieffenbach 387* (UTC), but the duplicate specimen at ID is identified as *O. polyacantha*.  
[\*Opuntia polyacantha\* var. \*polyacantha\*](#) Hair-Spine Prickly-Pear OPPOP G5T5; BON, CLK  
[\*Pediocactus simpsonii\*](#) (Engelm.) Britt. & Rose; Simpson's Stubtoe Cactus, Snowball Cactus PESI G4;  
CLK, LEM, OND?; S3 in ID, possibly documented near the CNG by *Klott s.n.* (UTC).

#### **Campanulaceae: Bellflower Family**

[\*Campanula rotundifolia\*](#) L.; Bluebell-of-Scotland CARO2 G5; BON, CLK, FRT, LIN, MAD, TID, TWY  
[\*Heterocodon rariflorum\*](#) Nutt.; Western Pearlflower HERA3 G5; TWY?; Known from a 1956 collection in  
Teton Canyon: *L.C. Anderson 423* (RM), but not collected since.  
[\*Porterella carnosula\*](#) (Hook. & Arn.) Torr.; Porterplant POCA15 G4; BLK, CAR, CLK, FRN, FRT, TWY;  
S1 in WY.

#### **Caprifoliaceae: Honeysuckle Family**

[\*Linnaea borealis\* subsp. \*longiflora\*](#) (Torr.) Piper & Beattie; American Twinflower LIBOL2 G5T5; FRT,  
TWY  
[\*Lonicera involucrata\* var. \*involucrata\*](#) Four-Line Honeysuckle LOINI G4T4; BAN, BLK, BON, CAR,  
CLK, FRN, FRT, LIN, MAD, TID, TWY  
[\*Lonicera tatarica\*](#) L.; Twinsisters LOTA G5; CAR, FRT; Non-native  
[\*Lonicera utahensis\*](#) S. Wats.; Rocky Mountain Honeysuckle LOUT2 G5; BLK, BON, CAR, CLK, FRN,  
FRT, LIN, MAD, TID, TWY  
[\*Plectritis macrocera\*](#) Torr. & Gray; White Seablush PLMA4 G5; BAN; More widespread in WA, OR, CA,  
NV, w UT, w MT, and w ID (Kartesz 2022); apparently disjunct in Mink Creek Canyon near  
Pocatello.  
[\*Symphoricarpos albus\* var. \*albus\*](#) Common Snowberry SYALA G5T5; FRT, TWY  
[\*Symphoricarpos albus\* var. \*laevigatus\*](#) (Fern.) Blake; Common Snowberry SYALL G5T5; BON, FRT,  
MAD, TID, TWY  
[\*Symphoricarpos mollis\*](#) Nutt.; Creeping Snowberry SYMO G5; FRT?; J.H. Christ 5611 (MO) was  
annotated from *S. albus* to *S. mollis*, but Kartesz (2022) does not recognize *S. mollis* in e ID; if  
really *S. mollis*, this would be a disjunct record since this species mostly occurs in CA, OR, WA,  
and n ID.  
[\*Symphoricarpos occidentalis\*](#) Hook.; Western Snowberry SYOC G5; FRT  
[\*Symphoricarpos rotundifolius\* var. \*vaccinioides\*](#) (Rydb.) A. Nels.; Round-Leaf Snowberry G5T5; BAN,  
BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY; Synonym: *S. oreophilus* Gray  
*var. utahensis* (Rydb.) A. Nels, misapplied.  
[\*Valeriana dioica\* var. \*sylvatica\*](#) S. Wats.; Marsh Valerian VADIS G5T4; BAN, BON, BUT, CLK  
[\*Valeriana edulis\* var. \*edulis\*](#) Tobacco-Root VAEDE G5T5; BLK, BON, CAR, CLK, FRT, LIN, TWY  
[\*Valeriana occidentalis\*](#) Heller; Small-Flower Valerian VAOC2 G5; BAN, BLK, BON, CAR, CLK, FRN,  
FRT, LIN, MAD, OND, POW, TID, TWY  
[\*Valeriana pubicarpa\*](#) Rydb.; Hairy-Fruit Valerian VAPU G4; BAN, BLK, BON, CAR, CLK, FRN, FRT,  
LIN, MAD, OND, TID, TWY  
[\*Valeriana scouleri\*](#) Rydb.; Scouler's Valerian VASC2 G4; FRT; Only known in the CTNF-CNG from one  
historical specimen: *R.H. Hall RH-72* (IDS), further study recommendable; somewhat disjunct in  
our area; more common in the Pacific NW (especially Cascades and w coast), but also in n and c  
ID.  
[\*Valeriana sitchensis\*](#) Bong.; Sitka Valerian VASI G5; BLK, BON, BUT, CAR, CLK

**Caryophyllaceae: Pink Family**

- [\*Cerastium arvense subsp. strictum\*](#) Gaudin; Field Mouse-Ear Chickweed CEARS2 G5T5; BON, BUT, CAR, CLK, FRT, LEM, LIN, TID, TWY
- [\*Cerastium beeringianum\*](#) Cham. & Schlecht.; Bering Sea Mouse-Ear Chickweed CEBE2 G5; BON, BUT, CLK, LEM, TWY
- [\*Cerastium fontanum subsp. vulgare\*](#) (Hartman) Greuter & Burdet; CEFOV2 G5T5; CLK, FRN, FRT, MAD, TID, TWY
- [\*Cerastium nutans var. nutans\*](#) Nodding Mouse-Ear Chickweed CENUN G5T5; BAN
- [\*Cherleria obtusiloba\*](#) (Rydb.) A.J. Moore & Dillenb.; Alpine Stitchwort G5; \*BON, BUT, FRT, LEM, TWY; Synonym: *Minuartia obtusiloba* (Rydb.) House; *Daines 2701* (KSP045566) is an early-flowering specimen that appears to represent a county record of this species in Bonneville Co.
- [\*Eremogone congesta var. cephaloidea\*](#) (Rydb.) R.L. Hartman & Rabeler; Ball-Head Matted Sandwort G5T4; BON, CLK, FRN
- [\*Eremogone congesta var. congesta\*](#) Ball-Head Matted Sandwort G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY
- [\*Eremogone congesta var. lithophila\*](#) (Rydb.) Dorn; Ball-Head Matted Sandwort ERCOL5 G5T4; FRT?, LEM?; Not recognized in ID by Kartesz (2022).
- [\*Eremogone congesta var. prolifera\*](#) (Maguire) R.L. Hartman & Rabeler; Ball-Head Matted Sandwort G5T4; FRN, \*OND; Previously documented in the CTNF by *Wellner 3341* (NY) from Franklin Co., but this specimen was initially identified as and is still filed under *E. congesta* (Nutt.) Ikonn. *var. subcongesta* (S. Wats.) R.L. Hartman & Rabeler; it appears to me to represent *var. prolifera* based on its long basal leaves (see Hartman et al. 2005); *Daines 2626* (KSP045490) was collected near Oxford Peak, not far from where *Wellner 3341* (NY) was collected.
- [\*Eremogone congesta var. subcongesta\*](#) (S. Wats.) R.L. Hartman & Rabeler; Ball-Head Matted Sandwort G5T4; FRN?; A specimen with no collector at IDS from the Caribou NF in Caribou Co. may represent this variety, but locality details are missing; this variety is mostly known from NV, CA, and UT (Kartesz 2022).
- [\*Eremogone kingii var. glabrescens\*](#) (S. Wats.) Dorn; King's Matted Sandwort ERKIG TNR; BAN, BUT, CAR, CLK, \*FRN, \*OND; *Daines 446, 792, 1892* (KSP040374, KSP040719, KSP041900).
- ~ [\*Holosteum umbellatum\*](#) L.; Jagged-Chickweed HOUM G5; \*BLK, BOX; Non-native; *Daines 200, 1474, 1494* (KSP040129, KSP041479, KSP041500).
- [\*Moehringia lateriflora\*](#) (L.) Fenzl; Blunt-Leaf Grove-Sandwort MOLA6 G5; BON, CAR, CLK, FRT, LIN, MAD, TID, TWY
- [\*Moehringia macrophylla\*](#) (Hook.) Fenzl; Large-Leaf Grove-Sandwort MOMA3 G4; BON; Reported from Bonneville Co., ID: *Dieffenbach TNF-0122* (IDS, NY), but otherwise known from c ID, to the n and w, also CA, CO, and NM, Canada, and e US (Kartesz 2022).
- [\*Pseudostellaria jamesiana\*](#) (Torr.) W.A. Weber & R.L. Hartman; Sticky-Starwort PSJA2 G5; BAN, BLK, BON, CAR, CLK, FRN, LIN, OND, TID, TWY
- [\*Sabulina austromontana\*](#) (S.J. Wolf & Packer) Dillenb. & Kadereit; Columbian Mock Sandwort G4; LEM
- [\*Sabulina nuttallii var. nuttallii\*](#) Brittle Mock Sandwort G5T4; BLK, BON, BUT, CLK, FRT, LEM, LIN, TWY
- [\*Sabulina rubella\*](#) (Wahlenb.) Dillenb. & Kadereit; Boreal Mock Sandwort G5; BUT, CLK, FRT, LEM, TWY
- [\*Sagina saginoides\*](#) (L.) Karst.; Alpine Pearlwort SASA G5; CAR, FRN, FRT, \*OND, TWY; *Daines 844* (KSP040771).
- [\*Silene acaulis\*](#) (L.) Jacq.; Cushion-Pink SIAC G5; FRT, TWY
- [\*Silene douglasii var. douglasii\*](#) Seabluff Catchfly SIDOD G4T4; BAN, BLK, FRN, FRT, OND, TID
- [\*Silene drummondii\*](#) Hook.; Drummond's Catchfly SIDR G5; CLK
- [\*Silene latifolia\*](#) Poir.; Bladder-Campion SILA21 G5; BON, CLK, FRT, MAD, TID, TWY; Non-native; Relatively widespread in much of the n U.S. (Kartesz 2022); *Snow 11966* (KSP046296) confirms that this species occurs in Bonneville Co.; see also *J.F. Smith 4822* (ID, SRP, OSC, WTU).
- [\*Silene menziesii\*](#) Hook.; White Catchfly SIME G5; BAN, BLK, BON, BUT, CAR, CLK, FRT, LIN, MAD, OND, TID, TWY
- [\*Silene nuda\*](#) (S. Wats.) C.L. Hitchc. & Maguire; Western Fringed Catchfly SINU G4; BON?, BUT, CLK, LEM; S3 in ID (as a synonym: *S. scaposa* B.L. Robins. *var. lobata* C.L. Hitchc. & Maguire);

occurs in OR, NV, and s and c ID (Kartesz 2022); *Daines 2699b* (KSP045564) was found growing with *Silene parryi* and appears to potentially represent *S. nuda*, but with some uncertainty.

[\*Silene oregana\*](#) S. Wats.; Oregon Catchfly SIOR3 G5; FRT, TID, TWY

[\*Silene parryi\*](#) (S. Wats.) C.L. Hitchc. & Maguire; Parry's Catchfly SIPA4 G5; BAN, BON, BUT, CLK, FRT, LEM, MAD, TID, TWY

[\*Silene repens\*](#) Patr. ex Pers.; Pink Catchfly SIRE3 G5; CLK, LEM; An arctic/alpine sp.; relatively narrowly distributed in the US (also occurs to the n): c ID, sw MT, w WY, and possibly also in nw NV (Kartesz 2022).

[\*Silene scouleri subsp. hallii\*](#) (S. Wats.) C.L. Hitchc. & Maguire; Hall's Simple Catchfly SISCH G5TNR; \*CAR, FRT, TWY; Distribution bi-parted: 1) n ID/MT/nw WY and 2) CO/NM (Kartesz 2022); a recently collected specimen demonstrates presence of this species on Meade Peak in Caribou Co., disjunct from the nearest populations in the Teton Range, WY by > 100 km: *Daines 1337* (KSP041267).

[\*Spergularia rubra\*](#) (L.) J. & K. Presl; Ruby Sandspurry SPRU G5; BLK, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY; Non-native; relatively widespread in the ne and w US (Kartesz 2022).

[\*Stellaria borealis subsp. borealis\*](#) Boreal Starwort STBOB G5T5; BON, FRT, MAD, TID, TWY

[\*Stellaria borealis subsp. sitchana\*](#) (Steud.) Piper & Beattie; Sitka Boreal Starwort STBOS G5T5; BON

[\*Stellaria calycantha\*](#) (Ledeb.) Bong.; Northern Bog Starwort STCA G5; TWY; Somewhat widespread in the w US, but largely absent from the CTNF-CNG, except in Teton Co., WY (Kartesz 2022).

[\*Stellaria crispa\*](#) Cham. & Schlecht.; Ruffled Starwort STCR2 G5; MAD, TWY; S2 in WY; only documented in WY from Park and Teton Cos, but more widespread to the w (Kartesz 2022).

[\*Stellaria irrigua\*](#) Bunge; Colorado Starwort STIR G5; BLK, FRN, TID, TWY; Synonym: *Stellaria umbellata* Turcz. Ex Kar. & Kir.

[\*Stellaria longifolia\*](#) Muhl. ex Willd.; Long-Leaf Starwort STLO G5; FRT, TID, TWY

[\*Stellaria longipes subsp. longipes\*](#) Long-Stalk Starwort G5T5; BON, BUT, CAR, CLK, FRN, FRT, LEM, MAD, TID, TWY

[\*Stellaria media\*](#) (L.) Vill.; Common Chickweed STME2 G5; BAN; Non-native

[\*Stellaria obtusa\*](#) Engelm.; Rocky Mountain Starwort STOB G5; BON, CAR, CLK, FRN, MAD, TID, TWY

#### **Celastraceae: Bittersweet Family**

[\*Parnassia cirrata var. intermedia\*](#) (Rydb.) P. & N. Holmgren; Cascade Grass-of-Parnassus PACII G3T3; BAN; Disjunct in Bannock Co., known from a 1952 specimen collected on Scout Mt.: *W.H. Baker* 9583 (WTU); otherwise known from a relatively scattered range in three other counties in ID, plus parts of NV, OR, CA, and WA (Kartesz 2022).

[\*Parnassia fimbriata\*](#) Koenig; Fringed Grass-of-Parnassus PAFI3 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, TID, TWY

[\*Parnassia parviflora\*](#) DC.; Small-Flower Grass-of-Parnassus PAPA9 G4; BON, FRT

[\*Paxistima myrsinites\*](#) (Pursh) Raf.; Mountain-Lover, Oregon Boxleaf PAMY G4; BAN, BLK, BON, CAR, FRN, LIN, MAD, OND, POW, TID, TWY; A relatively common shrub on the CTNF, where it is often found in coniferous forests (often those dominated by *Pseudotsuga menziesii* var. *glauca*).

#### **Ceratophyllaceae: Hornwort Family**

[\*Ceratophyllum demersum\*](#) L.; Coon's-Tail CEDE4 G5; TWY

#### **Cleomaceae: Spider-Flower Family**

[\*Cleomella serrulata\*](#) (Pursh) Roalson & J.C. Hall; Rocky Mountain Beeplant G5; OND; Synonym: *Peritoma serrulata* (Pursh) DC.; documented in and near the CNG: *W.H. Baker* 9223 (ID, WS, WTU), *Morton s.n.* (ID), *Daines 1311* (KSP041241).

### **Convolvulaceae: Morning-Glory Family**

[\*Convolvulus arvensis\*](#) L.; Field Bindweed COAR4 G5; BON, OND; Non-native; Noxious (Kartesz 2022); present mainly in lower-elev., disturbed areas, thus somewhat uncommon on the CTNF.

### **Cornaceae: Dogwood Family**

[\*Cornus alba subsp. occidentalis\*](#) (Torr. & Gray) Kartesz, ined.; Western Red Osier Dogwood G5T4; BAN?; Documented in or near the CTNF: *J.H. Christ 19916* (ID).

[\*Cornus alba subsp. stolonifera\*](#) (Michx.) Wangerin; Red Osier Dogwood COALS G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

### **Crassulaceae: Stonecrop Family**

[\*Rhodiola integrifolia subsp. integrifolia\*](#) Entire-Leaf Rosewort RHINI G5T5; FRT

[\*Sedum debile\*](#) S. Wats.; Weak-Stem Stonecrop SEDE G4; BAN, BLK, BON, CAR, FRN, LEM, LIN, MAD, TWY

[\*Sedum lanceolatum\*](#) Torr.; Lance-Leaf Stonecrop SELA G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

[\*Sedum stenopetalum subsp. stenopetalum\*](#) Worm-Leaf Stonecrop SESTS2 G4T4; BON, MAD, \*OND, TID; *Daines 789* (KSP040716); somewhat widespread in CA, OR, WA, ID, and MT, disjunct in the Black Hills (Kartesz 2022); in Oneida Co. it is roughly at the se edge of its main distribution (Kartesz 2022).

### **Cyperaceae: Sedge Family**

[\*Carex abrupta\*](#) Mackenzie; Abrupt-Beak Sedge CAAB2 G5; FRT; S1 in ID; may also occur just outside the CTNF boundary in Bear Lake Co., ID: *J.F. Smith 10534* (CIC); disjunct in our area from the main range of the sp., mostly in c ID, s OR, CA, and NV (Kartesz 2022).

[\*Carex albonigra\*](#) Mackenzie; Black-and-White-Scale Sedge CAAL6 G4; TWY

[\*Carex amplifolia\*](#) Boott; Big-Leaf Sedge CAAM10 G4; BAN; Apparently disjunct in Bannock County, where known from 2 historical collections; more widespread in the Pacific NW and CA (Kartesz 2022).

[\*Carex aquatilis var. aquatilis\*](#) Leafy Tussock Sedge CAAQA G5T5; BLK, CAR, CLK, FRT, TID, TWY

[\*Carex arcta\*](#) Boott; Northern Cluster Sedge CAAR2 G5; FRT?, TWY?; Reported by Evert (2010) from Fremont Co., but no voucher has been seen (Kartesz 2022); also reported from Teton Co., WY: *Bursik 1504* (ID), but not recognized there by Kartesz (2022).

[\*Carex atherodes\*](#) Spreng.; Wheat Sedge CAAT2 G5; FRT

[\*Carex athrostachya\*](#) Olney; Slender-Beak Sedge CAAT3 G5; \*BLK, CAR, FRT, MAD, TID, TWY; *Daines 2399* (KSP045259).

[\*Carex aurea\*](#) Nutt.; Golden-Fruit Sedge CAAU3 G5; BAN, CAR, FRT, TWY

[\*Carex bebbii\*](#) Olney ex Fern.; Bebb's Sedge CABE2 G5; FRT, TWY

[\*Carex bolanderi\*](#) Olney; Bolander's Sedge CABO2 G5; FRT, TID

[\*Carex brunnescens subsp. brunnescens\*](#) Brownish Sedge CABRB3 G5T5; FRT?; Reported by Evert (2010) from Fremont Co., but no voucher has been seen (Kartesz 2022).

[\*Carex buxbaumii\*](#) Wahlenb.; Brown Bog Sedge CABU6 G5; FRT, TWY; S3 in ID.

[\*Carex canescens subsp. canescens\*](#) Hoary Sedge CACAC6 G5T5; FRT, TWY

[\*Carex capillaris\*](#) L.; Hair-Like Sedge CACA12 G5; TWY

[\*Carex concinnaoides\*](#) Mackenzie; Northwestern Sedge CACO11 G5; FRT

[\*Carex cordillerana\*](#) Saarela & B.A. Ford; Cordilleran Sedge CACO81 GNR; TWY; S2 in WY.

[\*Carex crawfordii\*](#) Fern.; Crawford's Sedge CACR4 G5; FRT

[\*Carex cusickii\*](#) Mackenzie ex Piper & Beattie; Cusick's Sedge CACU5 G5; FRT

[\*Carex deflexa var. boottii\*](#) Bailey; Boott's Northern Sedge G5; TWY

[\*Carex deweyana var. deweyana\*](#) Dewey's Sedge CADED4; FRT?, TID?, TWY?; Reported from Fremont Co.: *Whitehead 994* (IDS); Evert (2010) reports it from Fremont and Teton Cos., ID and Teton

Co., WY (no other vouchers available; Kartesz 2022); not recognized in ID by Ball and Reznicek (2002).

*Carex diandra* Schrank; Lesser Tussock Sedge CADI4 G5; FRT

*Carex disperma* Dewey; Soft-Leaf Sedge CADI6 G5; BAN, FRT, TWY

*Carex douglasii* Boott; Douglas' Sedge CADO2 G5; BAN, BLK, BON, CLK, FRT, TID, TWY

*Carex duriuscula* C.A. Mey.; Spike-Rush Sedge CADU6 G5; CLK, TID

*Carex ebenea* Rydb.; Ebony Sedge CAEB G5; BLK, FRN?, FRT?, TID?; Uncommon in Idaho; more widespread in CO and UT and surrounding areas (Kartesz 2022); *A. Davis 190* (SRP, USCH, UTC), if correctly identified, demonstrates the species' presence in Bear Lake (or Franklin) Co.; *J.H Christ 5221* and *5690* (PAC) from Fremont and Teton Counties, Idaho (likely CTNF) were tentatively annotated as *C. ebenea*; not recognized in ID by Ball and Reznicek (2002); further study needed to clarify its range in the CTNF.

*Carex echinata subsp. echinata* Star Sedge CAECE G5T5; TWY

*Carex elynoides* Holm; Black-Root Sedge CAEL3 G5; BUT, CLK, FRT, LEM, TWY; Common to dominant in some alpine "turf" communities in the Lemhi Range and Beaverhead Mts.

*Carex engelmannii* Bailey; Engelmann's Sedge CAEN3 G4; TWY

*Carex filifolia* Nutt.; Thread-Leaf Sedge CAFI G5; CLK, FRT, TID

*Carex foenea* Willd.; Bronze-Head Oval Sedge CAFO3 G5; FRT; SNR in ID; a boreal disjunct (disjunct by >300 km from other disjunct occurrences in MT and WY/SD), more common in the ne US (Kartesz 2022).

*Carex geveri* Boott; Geyer's Sedge CAGE2 G5; BAN, BON, CAR, CLK, FRT, MAD, TID, TWY

*Carex gynocrates* Wormsk. ex Drej.; Northern Bog Sedge CAGY2 G5; BAN, TID?; Exhibits a somewhat scattered distribution in the w US (uncommon in e ID), also in the ne US and Great Lakes area (Kartesz 2022).

*Carex haydeniana* Olney; Hayden's Sedge CAHA6 G4; CLK, FRT, LIN, TID, TWY

*Carex heteroneura var. epapilosa* (Mackenzie) F.J. Herm.; CAHEE G5T5; BLK, FRT, TWY

*Carex hoodii* Boott; Hood's Sedge CAHO5 G5; BAN, BLK, BON, CAR, CLK, FRT, LEM, LIN, MAD, TID, TWY

*Carex idaho* Bailey; Idaho Sedge CAID G2; CAR; S2 in ID; uncommon throughout its scattered range in ID, MT, WY, UT, OR, and CA (Kartesz 2022).

*Carex illota* Bailey; Small-Head Sedge CAIL G4; FRT, TWY

*Carex incurviformis* Mackenzie; Coastal-Sand Sedge CAIN8 G4; FRT, LEM?; S1 in ID; an alpine sedge, relatively uncommon in the w US (Kartesz 2022); documented in Lemhi Co. (Salmon-Challis NF), near the w border of the CTNF: *Hendersson 4952* (ID); should be searched for on nearby ridges in Lemhi and Butte Cos. in the CTNF portion of the Lemhi Range.

*Carex infirminevia* Naczi; Weak-Nerve Sedge G5; TWY; S2 in WY; relatively sparsely distributed in the w US (Kartesz 2022).

*Carex interior* Bailey; Inland Sedge CAIN11 G5; BAN, LIN, TID, TWY

*Carex jonesii* Bailey; Jones' Sedge CAJO G5; BON, TID?

*Carex kelloggii var. kelloggii* Kellogg's Sedge G5T5; BON, FRT, LIN, MAD, TID, TWY; Synonym: *Carex lenticularis* Michx. var. *pallida* (W. Boott) Dorn.

*Carex laeviculmis* Meinsh.; Smooth-Stem Sedge CALA13 G5; BON, FRT

*Carex lasiocarpa var. americana* Fern.; Woolly-Fruit Sedge CALAA G5T5; FRT, TWY

*Carex leporinella* Mackenzie; Sierran Hare Sedge CALE9 G5; \*CAR, TWY; *Daines 2133a, 2156* (KSP044995, KSP045019) appear to represent this species, but expert verification would be helpful.

*Carex leptalea subsp. leptalea* Wahlenb.; Bristly-Stalk Sedge CALEL4 G5T5; FRT, TWY; S3 in ID; of somewhat scattered distribution in parts of the w US, but more common in the e US (Kartesz 2022).

*Carex limosa* L.; Mud Sedge CALI7 G5; TWY

*Carex livida var. radicaulis* Paine; Livid Sedge CALIR G5T5; FRT; S3 in ID; distribution scattered in the w US, also occurs in the ne US and Great Lakes area (Kartesz 2022).

*Carex luzulina* Olney; Woodrush Sedge CALU7 G5; FRT, TWY; S2 in WY.

*Carex macloviana* d'Urv.; Falkland Island Sedge CAMA9; TWY?; Kesonie and Hartman (2011) documented this species in Grand Teton Nat. Park, on Moose Mt. near the border with the CTNF: *Scott 4985* (RM) ; it could be found on nearby slopes and ridges in the CTNF.

*Carex mertensii* Prescott ex Bong.; Mertens' Sedge CAME6 G5; FRN; Documented in Franklin Co. by the Cub River (likely in the CTNF) by *J.H. Christ 19859* (ID); disjunct from the main portions of the species' range in CA, OR, WA, n ID, and MT (Kartesz 2022).

*Carex micropoda* C.A. Mey.; Pyrenean Sedge CAMI16 G4; TWY; Synonym: *C. pyrenaica* Wahlenb.

*Carex microptera* Mackenzie; Small-Wing Sedge CAMI7 G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

*Carex nardina* var. *hepburnii* (Boott) Kük.; Nard Sedge CANAH G4T4; CLK, FRT, LEM, TWY

*Carex nebrascensis* Dewey; Nebraska Sedge CANE2 G5; BAN, BLK, BON, BUT, CAR, CLK, FRT, LIN, OND, TID, TWY

*Carex neurophora* Mackenzie; Alpine Nerve Sedge CANE6 G4; CAR, TWY; Reported disjunctly from Caribou Co.: *Dieffenbach 00545, 00546* (IDS).

*Carex nigricans* C.A. Mey.; Black Alpine Sedge CANI2 G4; TWY

*Carex nova* Bailey; New Sedge CANO3 G5; FRT?; Reported by Evert (2010) from Fremont Co., but no voucher specimen has been seen (Kartesz 2022).

*Carex occidentalis* Bailey; Western Sedge CAOC2 G4; CLK; S2 in ID.

*Carex pachycarpa* Mackenzie; Furrowed Sedge; BLK, BON, CAR, CLK

*Carex pachystachya* Cham. ex Steud.; Thick-Head Sedge CAPA14 G5; CLK, FRT, TWY

*Carex parryana* Dewey; Parry's Sedge CAPA18 G4; CAR; Known from at least one specimen collected in the CTNF: *Padgett 593-84* (OGDF).

*Carex paysonis* Clokey; Payson's Sedge CAPA31 G4; CAR, FRT, TWY; Recently collected (somewhat disjunct) in Caribou Co.: *J.F. Smith 16670* (SRP); more widespread in c ID, w and sw MT, and nw WY (Kartesz 2022).

*Carex pellita* Muhl. ex Willd.; Woolly Sedge CAPE42 G5; BON, FRT, TWY

*Carex pelocarpa* F.J. Herm.; Dusky-Seed Sedge CAPE5 G4; FRT, LEM, TWY; Synonym: *Carex nova* Bailey var. *pelocarpa* (F.J. Herm.) Dorn.

*Carex petasata* Dewey; Liddon Sedge CAPE7 G5; BAN, BON, CLK, FRT, TWY

*Carex phaeocephala* Piper; Mountain Hare Sedge CAPH2 G4; BLK, FRT, LEM, TWY

*Carex praegracilis* W. Boott; Clustered Field Sedge CAPR5 G5; BLK, FRT

*Carex praticola* Rydb.; Northern Meadow Sedge CAPR7 G5; BON, FRT, LEM, TID, TWY

*Carex preslii* Steud.; Presl's Sedge CAPR8 G4; BON?, FRT?; Recorded for Bonneville Co. by an immature historical (1929) collection in the Fall Creek Basin: *T.D. Phinney 119* (IDS); also reported by Evert (2010) from Fremont Co., but with no voucher seen (Kartesz 2022); would be somewhat peripheral in our area, otherwise mostly being known from WA to CA, c ID, and nearby regions (Kartesz 2022).

*Carex raynoldsii* Dewey; Raynolds' Sedge CARA6 G5; BLK, BON, CAR, CLK, FRT, MAD, TID, TWY

*Carex rossii* Boott; Ross' Sedge CARO5 G5; BLK, BON, CAR, CLK, FRT, LIN, MAD, TID, TWY

*Carex rupestris* All.; Curly Sedge CARU3 G5; CLK, FRT, LEM

*Carex scirpoidea* ssp. *pseudoscirpoidea* (Rydb.) Dunlop; Canadian Single-Spike Sedge CASCP3 G5T5; FRT

*Carex scoparia* Schkuhr ex Willd.; Pointed Broom Sedge CASC11 G5; BAN; Reported from Mink Cr. Canyon: *R.L. Lingenfelter 658* (ID); disjunct from main portions of the range in e US and scattered portions of the w US (Kartesz 2022).

*Carex scopulorum* var. *bracteosa* (Bailey) F.J. Herm.; Holm's Rocky Mountain Sedge CASCB G5T4; BLK?, FRN?, TWY

~*Carex scopulorum* var. *scopulorum* Holm's Rocky Mountain Sedge CASCS2 G5TNR; \*BLK, FRT?; *Daines 2481* (KSP045342) appears to represent this variety, pending expert confirmation; disjunct in Bear Lake Co., reported by Evert (2010) from Fremont Co., but no voucher is known (Kartesz 2022); this variety is relatively widespread in the Rocky Mts. from n NM to sw MT/west-central ID (Kartesz 2022).

*Carex sheldonii* Mackenzie; Sheldon's Sedge CASH G4; BAN?; Known only from two 1953 collections: *R. Taylor s.n., G. Day s.n.* (IDS); never recollected.

*Carex simulata* Mackenzie; Analogue Sedge CASI2 G5; BUT, FRT, TWY

*Carex spectabilis* Dewey; Northwestern Showy Sedge CASP5 G5; FRT?; Reported by Evert (2010) from Fremont Co., but no voucher specimen has been seen (Kartesz 2022).

*Carex stenoptila* F.J. Herm.; River-Bank Sedge CAST4 G3; FRN, FRT; SNR in ID; occurs in three counties in ID and in scattered counties from WA to CO (Kartesz 2022).



[\*Carex stevenii\*](#) (Holm) Kalela; Steven's Sedge CAST22 GNR; TWY

[\*Carex stipata\* var. \*stipata\*](#) Stalk-Grain Sedge CASTS3 G5T5; FRT

[\*Carex straminiformis\*](#) Bailey; Mt. Shasta Sedge CAST7 G5; BLK; S3 in ID; *Mansfield 12-716* (CIC, IDS, SRP) was collected near Bloomington Lake; this occurrence is somewhat disjunct from nearby portions of the range in UT and c ID; otherwise, also occurs in CA, NV, OR, WA, and MT (Kartesz 2022).

[\*Carex subfusca\*](#) W. Boott; Rusty Sedge CASU6 G5; TWY?; Reported from 2021 collections in Teton Co., WY: *Rink 16911*, *Rink 16896* (ASC); however, not documented in WY by Kartesz (2022).

[\*Carex subnigricans\*](#) Stacey; Dark Mountain Sedge CASU7 G5; FRT

[\*Carex tahoenis\*](#) Smiley; Lake Tahoe Sedge CATA G5; BON?; Recorded for Bonneville Co. by an immature historical (1978) collection from near Caribou Mt.: Dieffenbach 00518 (IDS).

[\*Carex utriculata\*](#) Boott; Northwest Territory Sedge CAUT G5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY; Many of our specimens of this species are likely mislabeled *Carex rostrata* Stokes, which does not occur in our area (Ball and Reznicek 2002, Kartesz 2022).

[\*Carex vallicola\*](#) Dewey; Valley Sedge CAVA3 G5; BAN, BON, CAR, CLK, FRT, LEM, MAD, TID, TWY

[\*Carex vernacula\*](#) Bailey; Native Sedge CAVE5 G5; FRT, LEM?; S3 in ID; known on the CTNF from at least one location, in the Henry's Lake Mts.: *Moseley 840* (NY); also known from near the w border of the CTNF near Bell Mt.: *D. Henderson s.n.* (NY); could be found on nearby ridges in CTNF boundaries.

[\*Carex vesicaria\*](#) L.; Lesser Bladder Sedge CAVE6 G5; BAN, BON, CLK, FRT, TID, TWY

[\*Carex viridula\* subsp. \*viridula\*](#) Little Green Sedge CAVIV G5T5; FRT, TWY; Sometimes *Carex oederi* Retz. has been misapplied to this taxon (Kartesz 2022).

[\*Eleocharis acicularis\*](#) (L.) Roemer & J.A. Schultes; Needle Spike-Rush ELAC G5; FRT, TWY

[\*Eleocharis bella\*](#) (Piper) Svens.; Delicate Spike-Rush ELBE G5; FRT

[\*Eleocharis bolanderi\*](#) Gray; Bolander's Spike-Rush ELBO G4; FRT?; Known from one disjunct historical specimen: *R.H. Hall RH 47* (SRP), but apparently not recollected since.

[\*Eleocharis elliptica\*](#) Kunth; Elliptic Spike-Rush ELEL4 G5; FRT?, TWY; Reported by Evert (2010) from Fremont Co., but no voucher has been seen (Kartesz 2022); known from Teton Co., WY, supported by *Bursik 780* (ID).

[\*Eleocharis obtusa\*](#) (Willd.) J.A. Schultes; Blunt Spike-Rush ELOB2 G5; FRT?, TWY; Reported by Evert (2010) from Fremont Co., but no voucher has been seen (Kartesz 2022).

[\*Eleocharis palustris\*](#) (L.) Roemer & J.A. Schultes; Common Spike-Rush ELPA3 G5; BAN, BON, CLK, FRN, FRT, LIN, TID, TWY

[\*Eleocharis parvula\*](#) (Roemer & J.A. Schultes) Link ex Bluff, Nees & Schauer; Little-Head Spike-Rush ELPA5 G5; FRT

[\*Eleocharis quinqueflora\*](#) (F.X. Hartmann) Schwarz; Few-Flower Spike-Rush ELQU2 G5; FRT, LEM, TWY

[\*Eleocharis rostellata\*](#) (Torr.) Torr.; Beaked Spike-Rush ELRO2 G5; BON

[\*Eriophorum angustifolium\* subsp. \*angustifolium\*](#) Tall Cotton-Grass ERANA3 G5T5; TWY; S3 in ID.

[\*Eriophorum gracile\*](#) W.D.J. Koch; Slender Cotton-Grass ERGR8 G5; TWY; S3 in WY.

[\*Schoenoplectus acutus\* var. \*occidentalis\*](#) (S. Wats.) S.G. Sm.; Hard-Stem Wood Club-Rush SCACO2 G5T4; BLK, TWY

[\*Schoenoplectus americanus\*](#) (Pers.) Volk. ex Schinz & R. Keller; Chairmaker's Wood Club-Rush SCAM6 G5; BON

[\*Schoenoplectus pungens\* var. \*longispicatus\*](#) (Britt.) S.G. Sm.; Long-Spike Three-Square SCPUL4 G5T5; BON, CLK

[\*Schoenoplectus subterminalis\*](#) (Torr.) Soják; Swaying Wood Club-Rush SCSU10 G4G5; FRT?; S3 in ID; reported by Moseley et al. (1991) from wetlands in Yellowstone Nat. Park, Fremont Co., ID, <1.6 km from CTNF boundaries; disjunct in our area, but more common in the Pacific NW and ne US (Kartesz 2022).

[\*Scirpus microcarpus\*](#) J.& K. Presl; Red-Tinge Bulrush SCMI2 G5; BAN, FRT

### **Droseraceae: Sundew Family**

[\*Drosera anglica\*](#) Huds.; English Sundew DRAN G5; TWY; S3 in WY, SNR in ID, documented from the CTNF in Teton Co., WY by several specimens at RM and also near the study area in the Fremont Co., ID portion of Yellowstone Nat. Park: *Bursik 1951* (ID).

### **Elaeagnaceae: Oleaster Family**

[\*Elaeagnus commutata\*](#) Bernh. ex Rydb.; American Silver-Berry ELCO G5; BON; S3 in ID; occurs in margins of the CTNF along the Snake River; more widespread in WY, MT, ND, and other scattered localities to Canada (Kartesz 2022).

[\*Shepherdia canadensis\*](#) (L.) Nutt.; Russet Buffalo-Berry SHCA G5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

### **Ericaceae: Heath Family**

[\*Arctostaphylos uva-ursi\*](#) (L.) Spreng.; Red Bearberry, Kinnikinnick ARUV G5; BUT, CLK, FRT, LEM  
[\*Chimaphila umbellata subsp. occidentalis\*](#) (Rydb.) Hultén; Western Pipsissewa CHUMO2 G5T5; BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

[\*Gaultheria humifusa\*](#) (Graham) Rydb.; Alpine Spicy-Wintergreen GAHU G5; TWY

[\*Kalmia microphylla\*](#) (Hook.) Heller; Alpine-Laurel KAMI G5; FRT, TWY

[\*Moneses uniflora\*](#) (L.) Gray; Single-Delight MOUN2 G5; FRT, TWY

[\*Orthilia secunda\*](#) (L.) House; Sidebells ORSE G5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY; Synonym: *Pyrola secunda* L.

[\*Phyllodoce empetriformis\*](#) (Sm.) D. Don; Pink Mountain-Heath PHEM G5; FRT, TWY

[\*Pterospora andromedea\*](#) Nutt.; Woodland Pinedrops PTAN2 G5; BON, CAR, CLK, FRN, FRT, LIN, TWY

[\*Pyrola asarifolia var. asarifolia\*](#) Pink Wintergreen PYASA G5T5; BAN, BON, BUT, CAR, CLK, FRT, TID, TWY

[\*Pyrola chlorantha\*](#) Sw.; Green-Flower Wintergreen PYCH G5; BON, \*CAR, CLK, FRT, TID, TWY; *Daines 1241* (KSP041171).

[\*Pyrola minor\*](#) L.; Snowline Wintergreen PYMI G5; FRT, TWY

[\*Pyrola picta\*](#) Sm.; White-Vein Wintergreen PYPI2 G4; CAR, FRT, TID

[\*Rhododendron menziesii subsp. glabellum\*](#) (Gray) Craven; Inland Fool's-Huckleberry, Menziesia G5; TWY; Synonym: *Menziesia ferruginea* Sm. subsp. *glabella* (Gray) Calder & Taylor.

[\*Vaccinium cespitosum\*](#) Michx.; Dwarf Huckleberry VACA13 G5; FRT, TWY

[\*Vaccinium deliciosum\*](#) Piper; Rainier Huckleberry VADE G4; FRT?, MAD?, TID?; Indicated by Kartesz (2022) from Fremont and Teton Cos., ID, but with no voucher information; also documented by *Pearson s.n.* (BRIT) from Moody Meadows in Madison Co.; otherwise known mostly from the Cascade-Sierran axis in CA, OR, and WA (Kartesz 2022); further collections and research would be helpful to clarify the status of this species in our area.

[\*Vaccinium membranaceum\*](#) Dougl. ex Torr.; Huckleberry VAME G5; BLK, BON, CAR, FRN, FRT, LIN, MAD, TID, TWY

[\*Vaccinium myrtilus\*](#) L.; Bilberry, Myrtle Whortleberry VAMY2 G5; BLK, FRN, FRT; In Red Pine Canyon, Aspen Range: *Shultz 2737* (IDS, UTC, WTU) and Strawberry Canyon, Bear River Range: *Leidolf 2201* (UTC); disjunct in our area between two broad centers of US distribution in the s Rocky Mts. and n ID/w MT/WA (Kartesz 2022).

[\*Vaccinium scoparium\*](#) Leiberg ex Coville; Grouse Whortleberry VASC G5; BLK, BON, CAR, FRN, FRT, TID, TWY

[\*Vaccinium uliginosum subsp. uliginosum\*](#) Alpine Blueberry G5; TWY

### **Euphorbiaceae: Spurge Family**

[\*Euphorbia glyptosperma\*](#) Engelm.; Rib-Seed Sandmat EUGL3 G5; BAN

[\*Euphorbia serpillifolia var. serpillifolia\*](#) Thyme-Leaf Sandmat G5T5; FRN

[\*Euphorbia virgata\*](#) Waldst. & Kit.; Leafy Spurge EUVI7 G5; BAN, CAR, CLK, FRT, OND; Non-native; *Euphorbia esula* L., misapplied; noxious in ID, UT, and WY (Kartesz 2022).

**Fabaceae: Pea, Legume Family**

[\*Astragalus agrestis\*](#) Dougl. ex G. Don; Field Milk-Vetch ASAG2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, MAD, OND, TID, TWY

[\*Astragalus alpinus\* var. \*alpinus\*](#) Alpine Milk-Vetch ASALA4 G5T5; CLK, FRT, TWY

[\*Astragalus aquilonius\*](#) (Barneby) Barneby; Lemhi Milk-Vetch ASAQ2 G3; CLK?; A flowering specimen from the s Beaverhead Mts. was tentatively identified as this species, but with low confidence: *Daines 2026* (KSP044888); further field work in the area to collect fruiting material would be useful to determine if this taxon occurs on the CTNF.

[\*Astragalus argophyllus\* var. \*argophyllus\*](#) Silver-Leaf Milk-Vetch ASARA G5T4; BLK, \*CAR; *Daines 2128* (KSP044990).

[\*Astragalus argophyllus\* var. \*martinii\*](#) M.E. Jones; Martin's Silver-Leaf Milk-Vetch ASARM G5T4; BLK, CAR, FRN

[\*Astragalus atropubescens\*](#) Coult. & Fisher; Kelsey's Milk-Vetch ASAT2 G5; CLK, FRT

[\*Astragalus australis\*](#) (L.) Lam.; Eastern Milk-Vetch ASAU4 G5; CAR, LEM, LIN, TWY

~ [\*Astragalus beckwithii\* var. \*beckwithii\*](#) Beckwith's Milk-Vetch ASBEB G5T4; BOX, OND; *Daines 1470, 1480a, 1949, 1986* (KSP041475, KSP041485, KSP041957, KSP041994); more common in w UT; also occurs in ne NV, but occurs in only three counties in s ID (Kartesz 2022).

[\*Astragalus beckwithii\* var. \*weiserensis\*](#) M.E. Jones; Weiser Milk-Vetch ASBEW G5T5; OND

[\*Astragalus bisulcatus\*](#) Two-Groove Milk-Vetch ASBIB G5T5; CLK; S2 in ID; spills over the Continental Divide into our area from MT; quite widespread in the n Great Plains and s Rocky Mts. (Kartesz 2022).

~ [\*Astragalus calycosus\* var. \*calycosus\*](#) Torrey's Milk-Vetch; ASCAC5 G5T4; CLK; Two recent collections reported here document this taxon in the CTNF for the first time: *Daines 1681, 1706* (KSP041687, KSP041712); occurs mostly in lower-elevation areas.

[\*Astragalus canadensis\* var. \*brevidens\*](#) (Gandog.) Barneby; Canadian Milk-Vetch ASCAB G5T5; BLK, CLK

[\*Astragalus cibarius\*](#) Sheldon; Browse Milk-Vetch ASCI2 G4; BAN, BLK, BON, BUT, CAR, CLK, MAD, OND, POW, TID

[\*Astragalus convallarius\* var. \*convallarius\*](#) Lesser Rushy Milk-Vetch ASCOC9 G5T5; BAN, BLK, BON, CAR, FRN, FRT, MAD, OND, POW, TID

[\*Astragalus drummondii\*](#) Dougl. ex Hook.; Drummond's Milk-Vetch ASDR3 G5; CLK; Mostly a n Great Plains and s Rocky Mt. species, spilling into e Idaho in 3 Counties (Kartesz 2022).

[\*Astragalus filipes\*](#) Torr. ex Gray; Basalt Milk-Vetch ASFI G5; CLK, FRT

[\*Astragalus flexuosus\* var. \*flexuosus\*](#) Pliant Milk-Vetch ASFLF G5T5; CLK; Mostly a n Great Plains and s Rocky Mt. species; occurs in Idaho in two counties (Kartesz 2022).

[\*Astragalus gilviflorus\* var. \*gilviflorus\*](#) Plains Milk-Vetch ASGIG G5T5; FRT; S2 in ID; occurs mostly in the n Great Plains, but spills over the Continental Divide into e ID and n UT outside our area (Kartesz 2022).

[\*Astragalus jejunus\* var. \*jejunus\*](#) Starveling Milk-Vetch ASJEJ G3T3; BLK, CAR?; S2 in ID; reported from a 1929 collection from Caribou Co.: *A. Peterson 85* (IDS); a FS Region 4 Sensitive Species, mostly regionally endemic to areas in and near sw WY but also disjunct in ne NV (Kartesz 2022).

[\*Astragalus kentrophyta\* var. \*tegetarius\*](#) (S. Wats.) Dorn; Spiny Milk-Vetch ASKET G5T5; BLK, BON, BUT, CAR, CLK, FRT, LEM, LIN, TWY

[\*Astragalus laxmannii\* var. \*robustior\*](#) (Hook.) Barneby & Welsh; Laxmann's Milk-Vetch ASLAR G5T5; BUT; Mostly a n Great Plains and s Rocky Mt. species, but also occurs in ID, UT, and WA in two to several counties each (Kartesz 2022).

[\*Astragalus lentiginosus\* var. \*chartaceus\*](#) M.E. Jones; Papery Freckled Milk-Vetch ASLEC G5T4; MAD, OND

[\*Astragalus lentiginosus\* var. \*salinus\*](#) (T.J. Howell) Barneby; Salty Freckled Milk-Vetch ASLES G5T5; CLK, \*FRN; *Daines 2241* (KSP045103).

[\*Astragalus miser\* var. \*decumbens\*](#) (Nutt. ex Torr. & Gray) Cronq.; Timber Milk-Vetch ASMID G5T4; BAN?, BON, LEM; Reported from Bannock Co.: *R.J. Davis 163-32* (IDS), but not recognized there by Kartesz (2022).

[\*Astragalus miser\* var. \*hylophilus\*](#) (Rydb.) Barneby; Timber Milk-Vetch ASMIH G5T5; BON, BUT, CLK, FRT, LEM, TID, TWY

[\*Astragalus miser\* var. \*oblongifolius\*](#) (Rydb.) Cronq.; Timber Milk-Vetch ASMIO G5T5; BLK, CLK, FRN, FRT

[\*Astragalus miser\* var. \*praeteritus\*](#) Barneby; Timber Milk-Vetch ASMIP2 G5T4; CLK, FRT, MAD, TID

[\*Astragalus miser\* var. \*tenuifolius\*](#) (Nutt.) Barneby; Timber Milk-Vetch ASMIT G5T3; BON, BUT, CAR, CLK, FRT, LIN, MAD, TID; SNR in ID.

[\*Astragalus multiflorus\*](#) (Pursh) Gray; Loose-Flower Milk-Vetch G5; BLK, FRN, \*OND; *Daines 933, 2634* (KSP040863, KSP045498); synonym: *Astragalus tenellus* Pursh.

[\*Astragalus oophorus\* var. \*caulescens\*](#) (M.E. Jones) M.E. Jones; Egg Milk-Vetch ASOOC G4T4; CAR?, \*OND; *Daines 104, 221, 1960?* (KSP040034, KSP040150, KSP041968); occurs in UT, CO, AZ, and NV; reported from ID by *Anderson 121, Atwood 13642* (OGDF); however, this species is not recognized in ID by Kartesz (2022).

[\*Astragalus paysonii\*](#) (Rydb.) Barneby; Payson's Milk-Vetch ASPA16 G3; BON; S3 in ID; a FS Region 4 Sensitive Species; known from historical collections in our area; also occurs in a few counties in n and c ID and w WY (Kartesz 2022).

[\*Astragalus platytropis\*](#) Gray; Broad-Keel Milk-Vetch ASPL3 G5; CLK; S3(?) in ID; occurs in east-central ID/sw MT and also in the Great Basin mostly in NV and w UT (Kartesz 2022).

[\*Astragalus purshii\* var. \*concinus\*](#) Barneby; Pursh's Milk-Vetch ASPUC G5T3; BUT, CLK; SNR in ID; endemic to c ID and sw MT (Kartesz 2022).

~ [\*Astragalus purshii\* var. \*glareosus\*](#) (Dougl. ex Hook.) Barneby; Pursh's Milk-Vetch ASPUG2 G5T4; \*OND; *Daines 496* (KSP040424), collected in the Malad Range; more widespread at lower elevations, especially on the Snake River Plains in w and sc ID (IRHN 2023), occurs from UT to WA (Kartesz 2022).

[\*Astragalus purshii\* var. \*purshii\*](#) Pursh's Milk-Vetch ASPUP7 G5T5; BAN, BON, CLK, LIN, MAD, OND, TID

[\*Astragalus scaphoides\*](#) (M.E. Jones) Rydb.; Bitter-Root Milk-Vetch ASSC4 G3; CLK?; S3(?) in ID; reported from our area only from one flowering collection with no fruit: *D. Henderson 3733* (ID, IDS), not recognized for the area by Markow (1994); endemic to a few counties in east-central ID and sw MT (Kartesz 2022).

[\*Astragalus shultziorum\*](#) Barneby; The Shultzes' Milk-Vetch ASSH7 GNR; BON, TWY; SNR in ID (but a rank of S1 likely is forthcoming); a rare dwarf subalpine/alpine milkvetch known from 3 counties in w WY and Bonneville Co. in ID (Kartesz 2022); *Dieffenbach TNF-0426, TNF-0970* (IDS) (collected before this species was described) have been identified as *Astragalus leptaleus* Gray but likely represent *A. shultziorum*.

[\*Astragalus spatulatus\*](#) Sheldon; Tufted Milk-Vetch ASSP6 G5; CAR; S3(?) in ID; largely a species of the nw Great Plains, but its distribution extends sw into s ID and ne UT (Kartesz 2022); only known from the CTNF in the n Bear River Range and the Gray's Range.

[\*Astragalus terminalis\*](#) S. Wats. Railhead Milk-Vetch ASTE9 G3; CLK?; Documented with a flowering specimen: *D. Henderson 2353* (ID) from Peterson Canyon in the Beaverhead Mts.; recognized by Kartesz (2022) but not by Markow (1994); not collected on the CTNF since; more research recommended.

[\*Astragalus utahensis\*](#) (Torr.) Torr. & Gray; Utah Milk-Vetch ASUT G4; BAN, BLK, BON, BOX, FRN, OND, TID

[\*Caragana arborescens\*](#) Lam.; Siberian Peashrub CAAR18 G5; FRT, TWY; Non-native

[\*Glycyrrhiza lepidota\*](#) Pursh; American Licorice GLE3 G5; BAN, CLK

[\*Hedysarum americanum\*](#) (Michx.) Britt.; Alpine Sweet-Vetch HEAM9 G5; BON, TID, TWY; *Hedysarum alpinum* L., misapplied.

[\*Hedysarum boreale\* var. \*boreale\*](#) Boreal Sweet-Vetch HEBOB2 G5T5; BAN, BLK, CLK, LEM, TWY

[\*Hedysarum occidentale\* var. \*occidentale\*](#) Western Sweet-Vetch HEOCO2 G5T5; BLK, BON, CAR, LIN, MAD, TID, TWY

[\*Hedysarum sulphurescens\*](#) Rydb.; Yellow Sweet-Vetch HESU G4; BON, CLK, FRT; SNR in ID; more common in the n Rocky Mts., s to WY (Kartesz 2022).

~ *Lathyrus laetivirens* Greene ex Rydb.; Aspen Vetchling LALA6 G4; \*FRN, \*OND; *Daines* 295, 310, 479, 1764 (KSP040224, KSP040239, KSP040407, KSP041771); uncommon in ID, apparently only documented previously in Gooding Co. (Kartesz 2022) and Blaine County (Irwin 2014); fairly widespread from s WY to ne NV, s to AZ (Kartesz 2022).

*Lathyrus lanszwertii* var. *lanszwertii* Nevada Vetchling LALAL2 G4T4; BAN, \*BLK, FRN; *Daines* 2462 (KSP045323).

*Lupinus arbustus* subsp. *calcaratus* (Kellogg) D. Dunn; Long-Spur Lupine LUARC G5T3; BLK

*Lupinus arbustus* subsp. *pseudoparviflorus* (Rydb.) D. Dunn; Long-Spur Lupine LUARP G5T2; OND; Disjunct in s ID and n NV, also n CO; more widespread in n ID, MT, and WA (Kartesz 2022).

*Lupinus argenteus* subsp. *argenteus* Silver-Stem Lupine LUARA5 G5T5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, POW, TID, TWY

*Lupinus argenteus* subsp. *rubricaulis* (Greene) Hess & D. Dunn; Red and Silver-Stem Lupine LUARR G5T5; BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

*Lupinus argenteus* subsp. *spathulatus* (Rydb.) Hess & D. Dunn; Spatula Silver-Stem Lupine LUARS3 G5T5; BLK, CLK

*Lupinus burkei* subsp. *burkei* Large-Leaf Lupine LUBUB G4T4; TID?; *Green* 102 (F, RICK?), locality of this collection is uncertain; not documented in Teton Co. by Kartesz (2022).

*Lupinus caespitosus* Nutt.; Stemless Dwarf Lupine LUCA3 G5; BLK, FRN, FRT; Synonym: *L. Lepidus* Dougl. ex Lindl. var. *utahensis* (S. Wats.) C.L. Hitchc.

*Lupinus caudatus* subsp. *argophyllus* (Gray) L. Phillips; Kellogg's Spurred Lupine LUCAA G5T5; BLK, CAR, CLK, FRN

*Lupinus caudatus* var. *caudatus* Kellogg's Spurred Lupine LUCAC3 G5T4; BAN, BLK, CLK; Synonym: *L. argenteus* Pursh var. *utahensis* (S. Wats.) Barneby.

*Lupinus depressus* Rydb.; Depressed Lupine LUDE3 G4; CLK, FRT, LEM, TWY

*Lupinus evermannii* Rydb.; Evermann's Lupine LUEV GU; FRT?; *J.H. Christ* 15476 (NY), but not recorded for Fremont Co. by Kartesz (2022).

*Lupinus holosericeus* Nutt.; Nuttall's Silky Lupine LUHO2 G5; BLK, FRT, OND

*Lupinus leucophyllus* subsp. *leucophyllus* Woolly-Leaf Lupine LULEL4 G5T4; BON, CAR, FRT, TID

*Lupinus parviflorus* subsp. *parviflorus* Lodgepole Lupine LUPAP4 G5T4; BAN, BLK, BON, CAR, CLK, LEM, MAD, OND, TID

*Lupinus prunophilus* M.E. Jones; Hairy Big-Leaf Lupine LUPR2 G5; BON?, FRN?, TWY?; Reported from Bonneville Co. (*Markow* 514 (RM)) and Teton Co., WY, but taxonomy may be complicated - not recorded there by Kartesz (2022); reported from near CTNF boundaries in Franklin Co., so may be present in low-elev. foothills within CTNF boundaries there.

*Lupinus sericeus* subsp. *sericeus* Pursh's Silky Lupine LUSES2 G5T5; BLK, BON, CAR, CLK, FRN, FRT, LIN, OND, TWY

*Lupinus wyethii* subsp. *wyethii* Wyeth's Lupine LUWYW G5T4; BUT, CLK, LEM, LIN; Synonym: *L. polyphyllus* Lindl. var. *humicola* (A. Nels.) Barneby.

*Medicago lupulina* L.; Black Medick MELU G5; BAN, BLK, BON, CAR, CLK, FRT, LIN, MAD, OND, TID, TWY; Non-native; Widespread across the US; can be confused for a yellow-flowered *Trifolium* (clover).

*Medicago sativa* subsp. *sativa* Cultivated alfalfa MESAS G5T5; BON, CLK, FRT, MAD; Non-native; A crop that is more widespread in the lowlands, but is occasionally found growing as a weed on the CTNF.

*Medicago sativa* var. *falcata* (L.) Arcang.; Sickle, Yellow Alfalfa MESAF G5T5; CLK; Non-native

*Melilotus officinalis* (L.) Lam.; Yellow Sweet-Clover MEOF G5; BAN, BON, CLK, FRN, FRT, MAD, \*OND, TID, TWY; Non-native; *Daines* 1326 (KSP041256); synonym: *M. albus* Medik. (a white-flowered variant sometimes recognized as a separate species); widespread (Kartesz 2022).

*Onobrychis viciifolia* Scop.; Sainfoin ONVI G5; CAR; Non-native; Has been reported from near Caribou Mt. in Bonneville Co.: *J.F. Smith* 16696 (IDS, SRP), but this is likely a misidentified *Hedysarum occidentale* var. *occidentale*.

*Oxytropis besseyi* var. *argophylla* (Rydb.) Barneby; Bessey's Locoweed OXBEA G5T4; LEM

*Oxytropis borealis* var. *viscida* (Nutt.) Welsh; Boreal Locoweed OXBOV G5T4; CLK, LEM

*Oxytropis campestris* var. *cusickii* (Greenm.) Barneby; Cusick's Field Locoweed OXCAC3 G5T5; BUT, FRT, LEM

*Oxytropis campestris* var. *spicata* Hook.; Spicate Field Locoweed OXCAS3 G5T5; BON, CLK, FRT, LEM, TID; Synonym: *O. campestris* (L.) DC. var. *gracilis* (A. Nels.) Barneby.

*Oxytropis deflexa* var. *foliolosa* (Hook.) Barneby; Leafy Pendant-Pod Locoweed OXDEF G5T4; BUT, FRN?, LEM, TWY; Documented from Franklin Co. by R.J. Davis s.n. (IDS), with Preston on the label for the locality; annotated by Barneby, who noted “this is normally a high alpine [species]... Perhaps from the Bear River Range...”

*Oxytropis deflexa* var. *sericea* Torr. & Gray; Silky Pendant-Pod Locoweed OXDES G5T5; BON, BUT, CLK

*Oxytropis lagopus* var. *atropurpurea* (Rydb.) Barneby; Purple Hare-Foot Locoweed OXLAA G4T4; CLK, FRT, TID

*Oxytropis lagopus* var. *lagopus* Hare-Foot Locoweed OXLAL G4T3; BON, LEM, TID

~ *Oxytropis parryi* Gray; Parry's Locoweed OXPA2 G5; \*BLK, LEM?; Of somewhat scattered distribution in the w US (Kartesz 2022); Bear Lake County records and first records for the CTNF-CNG (Snowdrift Mt./Meade Peak area, Preuss Range): *Daines* 1359, 2322 (KSP041289, KSP045182); might occur on the Caribou Co. side of Snowdrift Mt. but not yet documented there; has also been documented very near the nw border of the CTNF in the Lemhi Range, Lemhi Co.: *S. & P. Brunfeld* 325 (ID) and *D. Henderson* 1937 (ID).

*Oxytropis sericea* var. *sericea* Nutt.; Rocky Mountain Locoweed OXSES G5T5; BUT, CLK, LEM

*Thermopsis montana* var. *montana* Montane Golden-Banner THMOM3 G4T4; CAR, FRN, LEM

*Trifolium arvense* L.; Rabbit-Foot Clover TRAR4 G5; FRT; Non-native

~ *Trifolium gymnocarpon* Nutt.; Holly-Leaf Clover TRGY G5; BLK, CAR; Apparently the first records for the CTNF-CNG: *Daines* 1609, 1633, 1641, 1646, 1843, 1849 (KSP041615, KSP041639, KSP041647, KSP041652, KSP041851, KSP041857).

*Trifolium haydenii* Porter; Hayden's Clover TRHA G3G4; BUT, CLK, FRT, LEM; SNR in ID; a regional endemic that occurs from east-central ID through parts of MT to nw WY (Kartesz 2022).

*Trifolium hybridum* L.; Alsike Clover TRHY G5; BAN, BON, CLK, FRT, LIN, MAD, TID, TWY; Non-native

*Trifolium longipes* subsp. *pedunculatum* (Rydb.) J. Gillett; Idaho Long-Stalk Clover TRLOP G5T4; LEM, MAD; S4 in ID; endemic to moist montane meadows in ID; disjunct in Madison Co., otherwise known mostly from c ID (Kartesz 2022).

*Trifolium longipes* subsp. *reflexum* (A. Nels.) J. Gillett; Reflexed Long-Stalk Clover TRLOR3 G5T5; BLK, BON, CAR, CLK, FRN, FRT, TWY

*Trifolium parryi* subsp. *montanense* (Rydb.) J. Gillett; Parry's Mountain Clover TRPAM G5T4; FRT; SNR in ID, but of quite restricted distribution there; somewhat narrowly distributed in a band from sw MT, Fremont Co., ID, w WY, and e UT (Kartesz 2022).

*Trifolium pratense* L.; Red Clover TRPR2 G5; BLK, BON, CAR, CLK, FRT, MAD, TID, TWY; Non-native

*Trifolium repens* L.; White Clover TRRE3 G5; BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY; Non-native

*Vicia americana* subsp. *americana* American Purple Vetch VIAMA3 G5T5; BAN, BON

*Vicia americana* subsp. *minor* (Hook.) C.R. Gunn; Little American Purple Vetch VIAMM3 G5T5; CLK

*Vicia villosa* subsp. *villosa* Winter Vetch VIVIV G5T5; FRT

### Gentianaceae: Gentian Family

*Frasera speciosa* Dougl. ex Griseb.; Elkweed, Monument-Plant FRSP G4; BLK, BON, CAR, CLK, FRN, FRT, LEM, MAD, TID, TWY

*Gentiana affinis* Griseb.; Pleated Gentian GEAF G5; BON, BUT, CAR, CLK, FRN, FRT, LEM

*Gentiana calycosa* Griseb.; Rainier Pleated Gentian GECA G4; BON, LEM, MAD, TID, TWY

*Gentiana fremontii* Torr. Moss Gentian GEFR G4; CLK?; R.J. Davis s.n. (IDS, NY, UTC) was collected "3 miles from Medicine Lodge Cr.", possibly in or near the CTNF; one or more of these records is filed under *G. prostrata* Haenke, likely because *G. prostrata* has been misapplied to *G. fremontii* in the past, as has *G. aquatica* L. (Kartesz 2022).

*Gentianella amarella* subsp. *acuta* (Michx.) J. Gillett; Autumn Dwarf-Gentian GEAMA G5T5; CAR, CLK, FRT, LEM, LIN, TID, TWY

[\*Gentianopsis simplex\*](#) (Gray) Iltis; One-Flower Fringed-Gentian GESI3 G5; FRT?; Reported from near the CTNF in Fremont Co. in Harriman State Park and Yellowstone Nat. Park: *Hansen H-121-75* (IDS) and *Bursik 1964, 1999* (ID); it might eventually be found in appropriate habitats in the CTNF near the Yellowstone border.

[\*Gentianopsis thermalis\*](#) (Kuntze) Iltis; Rocky Mountain Fringed-Gentian GETH G4; FRT, TWY  
[\*Swertia perennis\*](#) L.; Felwort SWPE G5; FRT?, TWY; Reported from near the border of the CTNF in Fremont Co.: *Bursik 2020* (ID).

#### **Geraniaceae: Geranium Family**

[\*Erodium cicutarium\*](#) (L.) L'Hér. ex Ait.; Red-Stem Stork's-Bill ERCI6 G5; \*BLK, FRN, OND; *Daines 2098* (KSP044960).

[\*Geranium bicknellii\*](#) Britt.; Northern Crane's-Bill GEBI2 G5; CAR; Scattered and somewhat uncommon in the area (Kartesz 2022).

[\*Geranium richardsonii\*](#) Fisch. & Trautv.; White Geranium GERI G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY

[\*Geranium viscosissimum\*](#) Fisch. & C.A. Mey.; Sticky Purple Geranium GEVI2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

#### **Grossulariaceae: Currant, Gooseberry Family**

[\*Ribes aureum\* var. \*aureum\*](#) Golden Currant RIAUA G5T4; BAN, BLK, BON, CAR, CLK, FRN, FRT, MAD, OND, TID

[\*Ribes cereum\* var. \*cereum\*](#) Wax Currant RICEC2 G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRT, LEM, LIN, MAD, OND, TID, TWY

[\*Ribes hudsonianum\* var. \*petiolare\*](#) (Dougl.) Jancz.; Northern Black Currant RIHUP G5T4; BAN, BLK, BON, CLK, MAD, TID, TWY

[\*Ribes inerme\* var. \*inerme\*](#) White-Stem Gooseberry RIINI G5T5; BLK, BON, BUT, CAR, CLK, FRN, FRT, TID, TWY

[\*Ribes lacustre\*](#) (Pers.) Poir.; Bristly Black Gooseberry RILA G5; BAN, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

[\*Ribes montigenum\*](#) McClatchie; Western Prickly Gooseberry RIMO2 G4; BAN, BLK, BON, CLK, FRN, FRT, LEM, LIN, MAD, \*OND, TID, TWY; *Daines 2619* (KSP045483).

[\*Ribes oxyacanthoides\* subsp. \*cognatum\*](#) (Greene) Sinnott; Cognate Canadian Gooseberry RIOXC G5T4; BON; Disjunct in our area; more widespread in n ID and adjacent OR, WA, and MT (Kartesz 2022).

[\*Ribes oxyacanthoides\* subsp. \*hendersonii\*](#) (C.L. Hitchc.) Sinnott; Henderson's Canadian Gooseberry RIOXH G5TNR; BUT, CLK, LEM; Occurs in east-central ID and parts of w MT, disjunct in two counties in NV (Kartesz 2022).

~[\*Ribes oxyacanthoides\* subsp. \*irriguum\*](#) (Dougl.) Sinnott; Well-Watered Canadian Gooseberry RIOXI G5T4; \*BUT; Documented from Pass Creek Canyon in the Butte Co. portion of the Lemhi Range: *Daines 2547* (KSP045408); otherwise somewhat widespread to the n, mostly in WA, n ID, and MT (Kartesz 2022).

[\*Ribes oxyacanthoides\* subsp. \*setosum\*](#) (Lindl.) Sinnott; Bristly Canadian Gooseberry RIOXS G5T4; BAN, BON, BUT, CLK, FRN, FRT, TID

[\*Ribes viscosissimum\*](#) Pursh; Sticky Currant RIVI3 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, MAD, OND, TID, TWY

#### **Haloragaceae: Water-Milfoil Family**

[\*Myriophyllum quitense\*](#) Kunth; Andean Water-Milfoil MYQU G4; FRT; SNR in ID; exhibits a sparsely scattered distribution in parts of the w US (Kartesz 2022).

[\*Myriophyllum sibiricum\*](#) Komarov; Siberian Water-Milfoil MYSI G5; FRT, TWY

## Hydrocharitaceae: Frog's-Bit, Tape-Grass Family

[\*Elodea canadensis\*](#) Michx.; Canadian Waterweed ELCA7 G5; FRT, TWY

## Hydrophyllaceae: Waterleaf Family

[\*Ellisia nyctelea\*](#) (L.) L.; Aunt Lucy ELNY G5; BAN?, FRT; Widespread in the n Midwest and Great Plains; in ID, occurs only in Bannock and Fremont Counties (Kartesz 2022); the Bannock County occurrence from Mink Creek Canyon is historical and may or may not occur within CTNF boundaries.

[\*Hesperochiron pumilus\*](#) (Dougl. ex Griseb.) Porter; Dwarf Monkey-Fiddle HEPU6 G4; BLK, BON, CAR, CLK, FRT, TWY

[\*Hydrophyllum capitatum\* var. \*capitatum\*](#) Ballhead Water-Leaf, Cat's-Breeches HYCAC G4T4; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, POW, TID, TWY

~ [\*Hydrophyllum occidentale\*](#) (S. Wats.) Gray; Western Water-Leaf, Squaw-Lettuce HYOC G4; OND; SNR or S3 in ID; first reports for the CTNF-CNG: *Daines 316, 1511* (KSP040245, KSP041517); uncommon in ID (although locally dominant in some places where present in deciduous forest understories on the CTNF), present only in a few ID counties, more widespread in two regions: w UT/AZ and nw NV/CA/w OR (Kartesz 2022); readily distinguished from the common *H. capitatum*: in *H. occidentale*, the inflorescence typically surpasses the leaves.

[\*Nemophila breviflora\*](#) Gray; Great Basin Baby-Blue-Eyes NEBR G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, POW, TID, TWY

[\*Nemophila parviflora\* var. \*austiniiae\*](#) (Eastw.) Brand; Small-Flower Baby-Blue-Eyes; NEPAA G5T4; BAN?, FRN?, FRT?, \*POW; *Daines 1732* (KSP041738); *H.J. Rust 688, J.H. Christ 14168* (ID), and *R.L. Lingenfelter 684* (SRP) may have been collected in or near CTNF boundaries (locality lacking or vague); uncommon in e ID, apparently more common in w ID (CPNWH 2023, IRHN 2023).

[\*Phacelia franklinii\*](#) (R. Br.) Gray; Franklin's Scorpion-Weed PHFR G5; BUT, CLK, LEM

[\*Phacelia hastata\* var. \*hastata\*](#) Silver-Leaf Scorpion-Weed PHHAH G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY; Synonym: *P. hastata* Dougl. ex Lehm. var. *alpina* (Rydb.) Cronq.

[\*Phacelia heterophylla\*](#) Pursh; Variable-Leaf Scorpion-Weed PHHE2 G4; BAN, BLK, BON, CLK, FRN, FRT, MAD, TID, TWY

[\*Phacelia incana\*](#) Brand; Hoary Scorpion-Weed PHIN9 G3; CLK; SNR in ID; disjunct in east-central ID/sw MT from the largest portion of the species' range in sw ID, NV, and w UT (Kartesz 2022).

[\*Phacelia linearis\*](#) (Pursh) Holz.; Thread-Leaf Scorpion-Weed PHLI G5; BAN; Somewhat uncommon in e ID, but widespread in the nw US (Kartesz 2022).

[\*Phacelia sericea\* var. \*ciliosa\*](#) (Rydb.) Gillett; Ciliate Purplefringe PHSEC G5T5; BON, LEM, LIN, TID, TWY

[\*Phacelia sericea\* var. \*sericea\*](#) Silky Purplefringe PHSES G5T4; BON, BUT, CLK, FRT, LEM, TWY

## Hypericaceae: St. John's-Wort Family

[\*Hypericum perforatum\*](#) L.; Common St. John's-Wort HYPE G5; FRT; Non-native; Noxious in ID (Kartesz 2022).

[\*Hypericum scouleri\*](#) Hook.; Scouler's St. John's-Wort HYSC5 G5; CAR, FRT, LIN, TWY

## Iridaceae: Iris Family

[\*Iris missouriensis\*](#) Nutt.; Rocky Mountain Iris IRMI G5; BON, CLK, FRT, LEM, TID

[\*Sisyrinchium idahoense\* var. \*idahoense\*](#) Idaho Blue-Eyed Grass SIIDI G5T4; FRT, TWY

[\*Sisyrinchium idahoense\* var. \*occidentale\*](#) (E.P. Bicknell) D. Henderson; Western Blue-Eyed Grass SIIDO G5T4; BLK, BON, CAR, FRT

[\*Sisyrinchium montanum\* var. \*montanum\*](#) Strict Blue-Eyed Grass SIMOM G5T4; BON?, FRT



## Juncaceae: Rush Family

*Juncus articulatus* L.; Joint-Leaf Rush JUAR4 G5; TWY

*Juncus balticus* subsp. *ater* (Rydb.) Snogerup; Baltic Rush JUBAA(?) G5T?; BLK, BON, BUT, CAR, CLK, FRT, LEM, OND, TID, TWY; Likely the most common rush in the study area.

*Juncus brevicaudatus* (Engelm.) Fern.; Narrow-Panicle Rush JUBR4 G5; FRT, TWY; S2 in ID, S3 in WY; synonym: *Juncus tweedyi* Rydb.; of very sparsely scattered distribution in the w US, but more common in the ne US and Great Lakes area (Kartesz 2022).

*Juncus bryoides* F.J. Herm.; Moss Dwarf Rush JUBR5 G4; FRN; S2 in ID; occurs in Franklin Co. and 4 counties in w ID; scattered in nearby states, sw to CA (Kartesz 2022).

*Juncus bufonius* var. *bufonius* Toad Rush G5T5; BAN, BLK, BON

*Juncus confusus* Coville; Colorado Rush JUCO2 G5; BLK, BON, CLK, FRN, FRT, MAD, TID, TWY

*Juncus drummondii* E. Mey.; Drummond's Rush JUDR G5; BLK, FRT, TWY

*Juncus dudleyi* Wieg.; Dudley's Rush JUDU2 G5; BAN, BON, FRT

*Juncus ensifolius* Wikstr.; Dagger-Leaf Rush JUEN; BAN, BLK, BON, CLK, FRN, FRT, MAD, TID, TWY

*Juncus filiformis* L.; Thread Rush JUFI G5; TWY

~ *Juncus hallii* Engelm.; Hall's Rush JUHA G4; \*BLK; S1 in ID; *Daines 2353* (KSP045213) documents this species for the first time in both Bear Lake County and the CTNF-CNG (subalpine meadows near a small creek on Snowdrift Mt., Preuss Range); expert input and/or further collections would be helpful to confirm that this is indeed *J. hallii*; only known in ID from one other locality, in an alpine area in Custer County (INPS 2022, Kartesz 2022); one other specimen has been reported from Bear Lake County: *C.F. Williams 712* (IDS), but this presumably would have been at least a duplicate of one of the collections determined by P. Zika and D. Mansfield to not represent *J. hallii* when that species was being reviewed by the Southern Idaho Rare Plant Working Group (INPS 2022).

*Juncus interior* Wieg.; Inland Rush JUIN2 G4; FRT

*Juncus longistylis* Torr.; Long-Style Rush JULO G5; BON, CLK, FRT, MAD, TWY

*Juncus mertensianus* Bong.; Mertens' Rush JUME3 G5; FRN, FRT, TWY

*Juncus nevadensis* var. *nevadensis* Sierran Rush JUNEN G5T4; BAN, FRT, TWY

*Juncus nodosus* L.; Knotted Rush JUNO2 G5; TWY

*Juncus parryi* Engelm.; Parry's Rush JUPA G4; BLK, BON, CLK, FRN, FRT, LIN, TID, TWY

*Juncus regelii* Buch.; Regel's Rush JURE G4; BON, FRT; Somewhat scattered in the Pacific NW to CA, UT, and WY (Kartesz 2022).

*Juncus saximontanus* A. Nels.; Rocky Mountain Rush JUSA G5; BAN, BON, CLK, FRN, FRT, TID, TWY

*Juncus tenuis* Willd.; Lesser Poverty Rush JUTE G5; CLK

*Juncus triglumis* L.; Three-Flower Rush JUTR4 G5; BON?; Reported from our area by one collection: *Dieffenbach 00870* (IDS), but not recognized there by Kartesz (2022) or Brooks and Clemants (2000); otherwise not known from ID; occurs in scattered areas in the Rocky Mts. from MT to NM (Kartesz 2022).

*Juncus vaseyi* Engelm.; Vasey's Rush JUVA G5; FRT; SNR in ID; of sparsely scattered distribution in the Rocky Mts., also somewhat scattered in nc and ne US (Kartesz 2022).

*Luzula comosa* var. *laxa* Buch.; Pacific Wood-Rush LUCOL G5; BON

*Luzula hitchcockii* Hämet-Ahti; Hitchcock's Wood-Rush LUHI4 G4; TID, TWY

*Luzula multiflora* subsp. *multiflora* Common Wood-Rush LUMUM2 G5T5; BON, FRT, TWY

*Luzula parviflora* (Ehrh.) Desv.; Small-Flower Wood-Rush LUPA4 G5; BON, CLK, FRT, TID, TWY

*Luzula piperi* (Coville) M.E. Jones; Piper's Wood-Rush LUPI2 G4; CLK, TWY

*Luzula spicata* (L.) DC.; Spiked Wood-Rush LUSP4 G5; FRT, TWY

## Juncaginaceae: Arrow-Grass Family

*Triglochin maritima* L.; Seaside Arrow-Grass TRMA20 G5; BON, CAR, FRT

## Lamiaceae: Mint Family

- [\*Agastache cusickii\*](#) (Greenm.) Heller; Cusick's Horse-Mint, Giant-Hyssop AGCU G3; CLK, LEM; S2 in ID; typically grows on talus at low to high elevations; somewhat sparsely distributed: mostly in e OR, portions of NV, east-central ID, and adjacent sw MT (Kartesz 2022).
- [\*Agastache urticifolia\*](#) (Benth.) Kuntze; Nettle-Leaf Horse-Mint, Giant-Hyssop AGUR G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY
- [\*Dracocephalum parviflorum\*](#) Nutt.; American Dragonhead DRPA2 G5; BON, CAR, CLK, TID, TWY
- [\*Dracocephalum thymiflorum\*](#) L.; Thyme-Leaf Dragonhead DRTH G5; FRT; Non-native
- [\*Galeopsis ladanum\*](#) L.; Red Hemp-Nettle GALA G5; FRT; Non-native; Uncommon; of very sparsely scattered distribution in the US (Kartesz 2022).
- [\*Leonurus cardiaca\*](#) L.; Motherwort LECA2 G5; OND; Non-native
- [\*Lycopus asper\*](#) Greene; Rough Water-Horehound LYAS G5; TWY?; Teton Co., WY occurrence reported as doubtful in Kartesz (2022).
- [\*Lycopus uniflorus\* var. \*uniflorus\*](#) Northern Water-Horehound LYUNU2 G5T5; TWY; Disjunct in our area, more common in the e US and the Pacific NW (Kartesz 2022); also documented from the Fremont Co., ID portion of Yellowstone Nat. Park near the CTNF: *Bursik 1974* (ID).
- [\*Mentha arvensis\*](#) L.; American Wild Mint MEAR4 G5; BON, CAR, CLK, FRT, LIN, \*OND, TID, TWY; *Daines 1307* (KSP041237).
- [\*Mentha X piperita\*](#) L. (pro sp.); [*aquatica X spicata*] MEPI G5; BLK
- [\*Monardella odoratissima\* subsp. \*glauca\*](#) (Greene) Epling; Glaucous Alpine Mountainbalm MOODG2 G4T4; BAN, BLK, FRN
- [\*Monardella odoratissima\* subsp. \*odoratissima\*](#) Alpine Mountainbalm MOODO G4T4; BLK, FRN?
- [\*Nepeta cataria\*](#) L.; Catnip NECA2 G5; FRT; Non-native
- [\*Prunella vulgaris\*](#) L.; Common Selfheal PRVU G5; CAR
- [\*Prunella vulgaris\* subsp. \*lanceolata\*](#) (W. Bart.) Hultén; Common American Selfheal PRVUL2 G5T5; BLK, BON, CAR, CLK, FRT, LIN, MAD, TID, TWY
- [\*Scutellaria galericulata\*](#) L.; Hooded Skullcap SCGA G5; FRT, TWY
- [\*Stachys pilosa\* var. \*pilosa\*](#) Hairy Hedge-Nettle STPIP5 G5T5; FRT

## Lentibulariaceae: Bladderwort Family

- [\*Utricularia gibba\*](#) L.; Humped Bladderwort UTGI G5; FRT; S1 in ID; disjunct in our area, scattered in the w US, but more common in the se and ne US (Kartesz 2022).
- [\*Utricularia macrorhiza\*](#) Le Conte; Greater Bladderwort UTMA G5; FRT, TWY; Synonym: *U. vulgaris* L.
- [\*Utricularia minor\*](#) L.; Lesser Bladderwort UTMI G5; TWY; SNR in ID, S3 in WY.

## Liliaceae: Lily Family

- ~ [\*Calochortus bruneaunis\*](#) A. Nels. & J.F. Macbr.; Bruneau Mariposa-Lily CABR4 G5; BUT, CLK; Pending future collections, two newly-collected specimens from the CTNF-CNG were tentatively identified as *C. bruneaunis* (the first record of this species from the CTNF-CNG: *Daines 2541*, *Snow 11840* (KSP045402, KSP046379); this species ranges from sw MT to s NV and e CA (Kartesz 2022).
- [\*Calochortus eurycarpus\*](#) S. Wats.; Big-Pod Mariposa-Lily CAEU G4; BON, CAR, CLK, FRT, LIN, OND
- [\*Calochortus gunnisonii\*](#) S. Wats.; Gunnison's Mariposa-Lily CAGU G5; FRT?; Reported by Evert (2010) from Fremont Co., but with no voucher specimen (Kartesz 2022).
- [\*Calochortus macrocarpus\* var. \*macrocarpus\*](#) Sagebrush Mariposa-Lily CAMAM9 G5T5; CLK, LEM
- [\*Calochortus nuttallii\*](#) Torr. & Gray; Segoe-Lily CANU3 G5; BAN, BLK, BON, CAR, CLK, LIN, MAD, OND, TID, TWY; Widespread from the nw Great Plains to NV, AZ, and NM (Kartesz 2022).
- [\*Erythronium grandiflorum\* subsp. \*grandiflorum\*](#) Yellow Avalanche-Lily, Glacier Lily ERGRG3 G5T5; BAN, BLK, CLK, FRN, FRT, \*OND, POW, TWY; *Daines 1450* (KSP041455).
- [\*Fritillaria atropurpurea\*](#) Nutt.; Spotted Missionbells FRAT G5; BAN, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY
- [\*Fritillaria pudica\*](#) (Pursh) Spreng.; Yellow Missionbells FRPU2 G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, MAD, OND, POW, TID, TWY

[\*Gagea serotina\* var. \*serotina\*](#) Alp-Lily G5; CLK, FRT, LEM, TWY  
[\*Prosartes trachycarpa\*](#) S. Wats.; Rough-Fruit Fairybells PRTR4 G5; BLK, BON, CAR, CLK, FRT, LIN, MAD, OND, TID, TWY  
[\*Streptopus amplexifolius\*](#) (L.) DC.; Claspig Twistedstalk STAM2 G5; BON, CAR, CLK, FRN, FRT, LIN, TID, TWY

#### **Limnanthaceae: Meadowfoam Family**

[\*Floerkea proserpinacoides\*](#) Willd.; False Mermaidweed FLPR G5; BLK, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY

#### **Linaceae: Flax Family**

[\*Linum kingii\*](#) S. Wats.; Uinta Mountain Flax LIKI2 G5; BLK, \*CAR, FRN; Of somewhat limited distribution in s ID, more widespread to the s and e, from WY to s NV; *Daines 1031* (KSP040961).

[\*Linum lewisii\* var. \*lewisii\*](#) Prairie Flax LILEL2 G5T5; BAN, BLK, BON, BUT, CLK, FRN, FRT, LEM, LIN, MAD, OND, POW, TID, TWY

#### **Loasaceae: Blazingstar Family**

[\*Mentzelia albicaulis\*](#) (Dougl. ex Hook.) Dougl. ex Torr. & Gray; White-Stem Blazingstar MEAL6 G5; BAN, OND; *J.H. Christ 14150* (NY).

[\*Mentzelia dispersa\*](#) S. Wats.; Nevada Blazingstar MEDI G5; BAN, BON, CAR, \*CLK, OND; *Snow 11808* (KSP046422).

#### **Malvaceae: Mallow Family**

[\*Iliamna rivularis\*](#) (Dougl. ex Hook.) Greene; Streambank Wild Hollyhock ILRI G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, MAD, OND, TID, TWY

[\*Malva neglecta\*](#) Wallr.; Common Musk Mallow MANE G5; BON, FRT; Non-native; A widespread weed, found across much of the US (Kartesz 2022).

[\*Malva pusilla\*](#) Sm.; Low Mallow MAPU5 G5; FRN; Non-native

[\*Malvella leprosa\*](#) (Ortega) Krapov.; Alkali-Mallow MALE3 G5; OND; More widespread in the sw US; occurs in ID only in Oneida Co. and several counties in w ID (Kartesz 2022).

~ [\*Sidalcea neomexicana\* subsp. \*crenulata\*](#) (A. Nels.) C.L. Hitchc.; Intermountain Checkerbloom SINEC2 G4TNR; \*OND; It seems that the only other specimen of this species thought to be collected in Oneida Co. was actually collected in present day Power Co. near American Falls: *A. Nelson 1386* (GH, NY, WS); *Daines 1328* (KSP041258) demonstrates this taxon does occur in Oneida Co., in the CNG.

[\*Sidalcea oregana\* subsp. \*oregana\*](#) Oregon Checkerbloom SIORO G5T4; BLK, FRN

[\*Sphaeralcea munroana\*](#) (Dougl. ex Lindl.) Spach; White-Stem Globe-Mallow SPMU2 G4; BON, CAR, CLK, FRT, LEM, OND

!~ [\*Sphaeralcea parvifolia\*](#) A. Nels.; Small-Leaf Globe-Mallow SPPA2 G5; OND; Reported by Daines et al. (2022) as a state record; perhaps best viewed as an adventive taxon in ID until we know more.

#### **Melanthiaceae: False Hellebore Family**

[\*Anticlea elegans\* subsp. \*elegans\*](#) Mountain False Deathcamas G5T5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, TID, TWY

[\*Toxicoscordion paniculatum\*](#) (Nutt.) Rydb.; Sand-Corn, Panicle Deathcamas TOPA5 G5; BAN, BON, CAR, CLK, FRN, LIN, MAD, OND, TID, TWY

[\*Toxicoscordion venenosum\* var. \*gramineum\*](#) (Rydb.) Brasher; Meadow Poison Camas, Deathcamas G5T5; BON, \*BOX, CLK, FRT, LEM, MAD, \*OND, TID, TWY; *Daines 229, 1475, 1884* (KSP040158, KSP041480, KSP041892).

[\*Veratrum californicum\* var. \*californicum\*](#) California False Hellebore VECAC2 G5T4; BON, FRN, TID, TWY

[\*Xerophyllum tenax\*](#) (Pursh) Nutt.; Common Beargrass, Western Turkeybeard XETE G4; TWY

#### **Menyanthaceae: Buck-Bean Family**

[\*Menyanthes trifoliata\*](#) L.; Buck-Bean METR3 G5; FRT, TID, TWY

#### **Montiaceae: Candy-Flower Family**

[\*Calyptridium umbellatum\*](#) (Torr.) Greene; Mt. Hood Mock Pussypaws CAUM2 G4; FRT, LEM, TWY;  
Synonym: *Cistanthe umbellata* (Torr.) Hershkovitz.

[\*Claytonia lanceolata\* var. \*lanceolata\*](#) Western Lanceleaf Springbeauty G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, OND, POW, TID, TWY

[\*Claytonia perfoliata\*](#) Donn ex Willd.; Miner's-Lettuce CLPE G5; BAN, BOX

[\*Claytonia perfoliata\* subsp. \*intermontana\*](#) J.M. Miller & K.L. Chambers; Intermountain Miner's Lettuce CLPEI G5TNR; CAR, TWY

[\*Lewisia pygmaea\*](#) (Gray) B.L. Robins.; Alpine Bitter-Root LEPY2 G5; BLK, BON, \*CAR, CLK, FRT, LEM, TWY; *Daines 895* (KSP041892).

[\*Lewisia rediviva\* var. \*rediviva\*](#) Oregon Bitter-Root LERER G5T4; BUT, CLK

[\*Lewisia triphylla\*](#) (S. Wats.) B.L. Robins.; Three-Leaf Bitter-Root LETR2 G4; FRN, TWY

[\*Montia chamissoi\*](#) (Ledeb. ex Spreng.) Greene; Chamisso's Candy-Flower MOCH G5; BLK, CAR, CLK, FRN, FRT, TWY

[\*Montia parvifolia\* var. \*parvifolia\*](#) Little-Leaf Candy-Flower G4T4; CLK?; Collected in 1941 at "Moist banks of Continental Mountains, north of Kilgore": *J.H. Christ 12858* (ID, WS); locality may be in the CTNF, but this species has not been collected anywhere in Clark Co. since.

#### **Nymphaeaceae: Water-Lily Family**

[\*Nuphar polysepalum\*](#) Engelm.; Rocky Mountain Pond-Lily NUPO2 G5; FRT, TWY

#### **Onagraceae: Evening-Primrose Family**

[\*Chamaenerion angustifolium\* subsp. \*angustifolium\*](#) Narrow-Leaf Fireweed G5T5; BON, BUT, CLK, FRT, LIN, MAD, \*OND, TWY; *Daines 2622* (KSP045486).

[\*Chamaenerion angustifolium\* subsp. \*circumvagum\*](#) (Mosquin) Moldenke; CHANC2 G5T5; BAN, BON, CAR, CLK, FRT, LIN, MAD, TID, TWY

[\*Circaea alpina\* subsp. \*alpina\*](#) Small Enchanter's-Nightshade CIALA G5T5; FRT

[\*Circaea alpina\* var. \*pacifica\*](#) (Aschers. & Magnus) Raven; Pacific Small Enchanter's-Nightshade CIALP2 G5T4; BAN, BON, FRT, LIN, MAD, TID, TWY

[\*Clarkia pulchella\*](#) Pursh; Pinkfairies CLPU G5; BAN; *J.F. Smith 5115* (OSC, SRP, UTC), a disjunct record; this sp. is mostly known from the Pacific NW (w ID, OR, and WA, northward) (Kartesz 2022, 2021).

[\*Clarkia rhomboidea\*](#) Dougl. ex Hook.; Diamond Fairyfan CLRH G5; FRN

[\*Epilobium anagallidifolium\*](#) Lam.; Pimpernel Willowherb EPAN4 G5; BLK, BON, CAR, FRN, FRT, TWY

[\*Epilobium brachycarpum\*](#) K. Presl; Tall Annual Willowherb EPBR3 G5; BAN, BON, CAR, CLK, FRT, LIN, MAD, TID, TWY

[\*Epilobium canum\* subsp. \*garrettii\*](#) (A. Nels.) Raven; Garrett's Hummingbird-Trumpet, Firechalice EPCAG G5T4; BON, FRN, TID; S1 in ID; mostly occurs in a band from nw WY to s CA (Kartesz 2022).

[\*Epilobium ciliatum\* subsp. \*ciliatum\*](#) Fringed Willowherb EPCIC G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, \*OND, TID, TWY; *Daines 1305* (KSP041235).

[\*Epilobium ciliatum\* subsp. \*glandulosum\*](#) (Lehm.) Hoch & Raven; Glandular Fringed Willowherb EPCIG G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRT, TID, TWY

[\*Epilobium clavatum\*](#) Trel.; Talus Willowherb EPCL G5; BON, BUT, FRT, LEM, TWY

[\*Epilobium glaberrimum\*](#) Barbey; Glaucous Willowherb EPGL G5; BAN, BON

*Epilobium hallianum* Hausskn.; Glandular Willowherb EPHA G5; BLK, BON, CAR, FRN, FRT, LEM, TWY

*Epilobium hornemannii* var. *hornemannii* Hornemann's Willowherb EPHOH G5T5; BLK, BON, FRT, MAD, TID, TWY

*Epilobium lactiflorum* Hausskn.; White-Flower Willowherb EPLA3 G5; BLK, CAR, CLK, FRN, FRT, LEM, MAD, TWY

*Epilobium minutum* Lindl. ex Lehm.; Chaparral Willowherb EPMI G5; BLK, CAR

*Epilobium palustre* L.; Marsh Willowherb EPPA G5; FRT, TWY

*Epilobium saximontanum* Hausskn.; Rocky Mountain Willowherb EPSA G5; BLK, FRT, TID, TWY

*Eremothera minor* (A. Nels.) W.L. Wagner & Hoch; Green River Mooncup G4; BLK

*Gayophytum decipiens* Lewis & Szweykowski; Deceptive Groundsmoke GADE2 G5; BLK, CAR, \*FRN; *Daines 1210* (KSP041140); possibly the first or second specimen of this species collected in Caribou Co.: *Daines 1112* (KSP041042).

*Gayophytum diffusum* subsp. *diffusum* Spreading Groundsmoke GADID G5T5; FRT

*Gayophytum diffusum* subsp. *parviflorum* Lewis & Szweykowski; Short-Flower Spreading Groundsmoke GADIP G5T5; BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, \*OND, TID, TWY; *Daines 942* (KSP040872); synonym: *G. diffusum* Torr. & Gray var. *strictipes* (Hook.) Dorn.

*Gayophytum racemosum* Torr. & Gray; Black-Foot Groundsmoke GARA G5; CLK, \*FRN, \*OND; *Daines 515, 2225* (KSP040443, KSP045087).

*Gayophytum ramosissimum* Torr. & Gray; Pinyon Groundsmoke GARA2 G5; BLK, FRN, FRT, MAD, \*OND, TWY; *Daines 1942* (KSP041950).

*Neoholmgrenia andina* (Nutt.) W.L. Wagner & Hoch; Blackfoot River Lemondrops G4; BON

*Oenothera cespitosa* Nutt.; Tufted Evening-Primrose OECA10 G5; FRN

*Oenothera cespitosa* subsp. *cespitosa* Tufted Evening-Primrose OECAC2 G5T5; BLK, BON, BUT, CAR, CLK, FRT, LEM, TWY

*Oenothera cespitosa* subsp. *marginata* (Nutt. ex Hook. & Arn.) Munz; Fragrant Evening-Primrose OECAM4 G5T4; BOX, OND; Uncommon on the CTNF-CNG (more widespread at lower elevations: IRHN (2023)), possibly not documented in the study area before: *Daines 258* (KSP040187) was collected on the CNG and *Daines 1486* (KSP041492) was collected in the southern Malad Range in Box Elder Co., UT.

~ *Oenothera coronopifolia* Torr. & Gray; Hairy-Throat Evening-Primrose OECA2 G5; OND; SNR in ID (but likely to be S1 or S2 if ranked); *Daines 505* (KSP040433); in the CTNF-CNG, only known from a newly-documented location in the Malad Range; present in ID in three counties, but more widespread from NM and AZ to SD (Kartesz 2022).

*Oenothera curtiflora* W.L. Wagner & Hoch; Velvetweed G4; CLK

*Oenothera flava* (A. Nels.) Garrett; Long-Tube Evening-Primrose OEFL G5; BLK, CAR, CLK, FRN, FRT

*Oenothera pallida* subsp. *pallida* Pale Evening-Primrose OEPAP G5T4; BON?, MAD?, OND; *Daines 1945* (KSP041953) may represent the first documentation of this low-elevation species in the CNG; only known from one other collection in the CTNF-CNG: *Millard 13* (OGDF), labeled Jefferson Co. (likely either Madison or Bonneville Co.).

*Oenothera villosa* subsp. *strigosa* (Rydb.) W. Dietr. & Raven; Hairy Evening-Primrose OEVIS G5T4; BAN, BON, CLK, OND

*Taraxia breviflora* (Torr. & Gray) Nutt. ex Small; Nested Goldeneggs TABR5 G5; BON, CLK, FRT

*Taraxia subacaulis* Rydb.; Spreading Goldeneggs G5; BAN, BLK, BON, CAR, FRT, MAD, OND, TID

#### Orchidaceae: Orchid Family

*Calypso bulbosa* var. *americana* (R. Br.) Luer; American Fairy-Slipper Orchid CABUA G5T5; CLK, TID, TWY

*Calypso bulbosa* var. *occidentalis* (Holz.) Boivin; Western Fairy-Slipper Orchid CABUO G5T5; BON, CLK, FRT

*Corallorhiza maculata* (Raf.) Raf.; Summer Coralroot COMA25 G5; BAN, FRT, MAD, TID

*Corallorhiza maculata* var. *maculata* Summer Coralroot COMAM7 G5T4; BLK, BON, CAR, FRN, TWY

*Corallorhiza maculata* var. *occidentalis* (Lindl.) Ames; Western Summer Coralroot COMAO5 G5T4; BON, LIN, TWY

*Corallorhiza mertensiana* Bong.; Pacific Coralroot COME17 G4; CLK, FRT, MAD, TID, TWY

[\*Corallorhiza striata\* var. \*striata\*](#) Striped Coralroot COSTS3 G5T4; BAN, BLK, CAR, MAD, \*OND, TID, TWY; *Daines 846* (KSP040773).

[\*Corallorhiza striata\* var. \*vreelandii\*](#) (Rydb.) L.O. Williams; Vreeland's Striped Coralroot COSTV2 G5TNR; BON?; Collected at an undocumented locality in Bonneville Co. in "moist woods near stream," which would indicate it may be in the CTNF there: *W.L. Bodie 32* (WS).

[\*Corallorhiza trifida\*](#) Chatelain; Yellow Coralroot COTR18 G5; CAR, CLK, FRT, TWY

[\*Corallorhiza wisteriana\*](#) Conrad; Spring Coralroot COWI5 G5; BLK, BON, CAR, FRT, MAD, TID; Rare in Idaho (present in the se-most tier of counties near WY plus Madison and Shoshone Cos.), more widespread in the se US and MT s to AZ and NM (Kartesz 2022).

[\*Epipactis gigantea\*](#) Dougl. ex Hook.; Giant Helleborine EPGI G3; CLK; S2S3 in ID.

[\*Goodyera oblongifolia\*](#) Raf.; Green-Leaf Rattlesnake-Plantain GOOB2 G5; CAR, FRN, FRT, LIN, TID, TWY

[\*Neottia banksiana\*](#) (Lindl.) Rchb. F.; Northwestern Twayblade G4; BON, CAR, TID, TWY; Disjunct in the Greater Yellowstone Area, otherwise somewhat widespread in the Pacific NW (Kartesz 2022).

[\*Neottia borealis\*](#) (Morong) Szlach.; Northern Twayblade NEBO2 G4; BON, TID, TWY; S3 in ID.

[\*Neottia convallarioides\*](#) (Sw.) Rich; Broad-Lip Twayblade G5; BAN, BON, TID, TWY; S2S3 in WY.

[\*Neottia cordata\*](#) (L.) Rich; Heart-Leaf Twayblade G5; FRT, TWY

[\*Platanthera aquilonis\*](#) Sheviak; Bog Orchid PLAQ2 G5; BAN, BLK, BON, BUT, CAR, CLK, FRT, TWY

[\*Platanthera dilatata\* var. \*albiflora\*](#) (Cham.) Ledeb.; White-Flowered Scentbottle PLDIA G5T4; BAN, BON, CLK, FRN, FRT, TID, TWY

[\*Platanthera dilatata\* var. \*dilatata\*](#) Scentbottle PLDID G5T5; BAN, BLK, BON, CAR, FRT, MAD, TID, TWY

[\*Platanthera dilatata\* var. \*leucostachys\*](#) (Lindl.) Luer; Scentbottle PLDIL G5T5; BAN

[\*Platanthera huronensis\*](#) (Nutt.) Lindl.; Lake Huron Green Orchid PLHU2 G5; BON, CLK?, FRT, TWY

[\*Platanthera obtusata\*](#) (Banks ex Pursh) Lindl.; Blunt-Leaf Orchid PLOB G5; FRT; S1 in ID; peripheral in ID but somewhat widespread in the Rocky Mts. and ne US (Kartesz 2022).

[\*Platanthera stricta\*](#) Lindl.; Slender Bog Orchid PLST4 G5; TWY; More widespread in the Pacific NW, but occurs se as far as the Greater Yellowstone Area (Kartesz 2022).

[\*Platanthera unalascensis\*](#) (Spreng.) Kurtz; Alaska Rein Orchid PLUN3 G5; BAN, BON, CAR, CLK, FRT, LIN, MAD, TID, TWY

[\*Spiranthes diluvialis\*](#) Sheviak; Ute Ladies'-Tresses SPDI6 G2; BON; Listed as Threatened under the Endangered Species Act; exhibits a scattered distribution through parts of the w US in NE, CO, WY, UT, NV, ID, MT, and WA (Kartesz 2022).

[\*Spiranthes romanzoffiana\*](#) Cham.; Hooded Ladies'-Tresses SPRO G5; BLK, FRT, TWY

### **Orobanchaceae: Broom-Rape Family**

[\*Aphyllon fasciculatum\*](#) (Nutt.) Torr. & Gray; Clustered Broomrape APFA G4; BON, CLK, LIN

[\*Aphyllon purpureum\*](#) (Heller) Holub; Purple Broomrape; \*BAN, BON, CLK, FRT, TWY; Synonym: *Orobanche uniflora* L. var. *occidentalis* (Green) Taylor & MacBryde; *Daines 2176* (KSP045039).

[\*Castilleja angustifolia\* var. \*angustifolia\*](#) Northwestern Paintbrush CAANA3 G5T5; BAN, BLK, BON, BUT, CLK, MAD, OND, TID

[\*Castilleja applegatei\* var. \*pinetorum\*](#) (Fern.) N. Holmgren; Wavy-Leaf Pine Paintbrush CAAPP2 G5T4; BAN, BLK, BON?

[\*Castilleja applegatei\* var. \*viscida\*](#) (Rydb.) Ownbey; Sticky Wavy-Leaf Paintbrush CAAPV; BAN?, BLK, FRN; *Daines 896* (KSP040823) was tentatively identified as this taxon, but not with high confidence; if indeed this variety, it represents a county record for Bannock Co.

[\*Castilleja chromosa\*](#) A. Nels.; Desert Paintbrush CACH7 G5; BAN, BLK, BOX, BUT, CLK, \*FRN, MAD, OND, TID?; *Daines 444, 578* (KSP040372).

[\*Castilleja covilleana\*](#) Henderson; Rocky Mountain Paintbrush CACO36 G3; CLK, LEM, MAD; Endemic to ID and w MT (Kartesz 2022).

[\*Castilleja crista-galli\*](#) Rydb.; Cock-Comb Paintbrush CACR13 G4; BUT, CLK, FRT, LEM

[\*Castilleja cusickii\*](#) Greenm.; Cusick's Paintbrush CACU7 G4; CAR, FRT, TID

[\*Castilleja flava\* var. \*flava\*](#) Lemon-Yellow Paintbrush CAFLF3 G4T4; BLK, BON, CAR, CLK, TID

[\*Castilleja flava\* var. \*rustica\*](#) (Piper) N. Holmgren; Rustic Lemon-Yellow Paintbrush CAFLR G4T3; BUT, CLK, LEM

*Castilleja gracillima* Rydb.; Slender Paintbrush CAGR16 G3Q?; FRT; SNR in ID; might merit investigation as a fairly rare taxon; mostly occurs in MT and ID (Kartesz 2022).

*Castilleja hispida* Benth.; Harsh Paintbrush CAHI9 G5; CLK, FRT, TID; Our subsp. is likely subsp. *acuta* (Pennell) Pennell, which is ranked T3.

*Castilleja linariifolia* Benth.; Wyoming Paintbrush CALI4 G5; BAN, BLK, BON, CAR, LEM, LIN, OND, TID, TWY

~ *Castilleja lutescens* (Greenm.) Rydb.; Stiff Yellow Paintbrush CALU14 G4; \*CLK; *Snow 11841* (KSP046380); somewhat widespread to the n, in n ID, WA, and MT (Kartesz 2022).

*Castilleja miniata* var. *miniata* Great Red Paintbrush CAMIM5 G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, TID, TWY

*Castilleja minor* var. *exilis* (A. Nels.) J.M. Egger; Slender Alkali Paintbrush G5TNR; CLK

*Castilleja pallescens* var. *inverta* (A. Nels. & J.F. Macbr.) Edwin; Pale Veined Paintbrush CAPAI G4T3; BUT, CLK, FRT, LEM; Populations from the Lemhi Range with red-purple flower coloration may merit investigation as a possibly distinct taxon (Hitchcock and Cronquist 2018); such plants appear to be present in the CTNF at least in Butte Co., i.e., *Daines 2528* (KSP045389).

*Castilleja pallescens* var. *pallescens* Pale Paintbrush CAPAP7 G4T4; CLK, FRT, LEM, TWY

*Castilleja pilosa* var. *longispica* (A. Nels.) N. Holmgren; Parrot-Head Paintbrush CAPIL G4T4; BON, CLK, FRT, MAD, TID, TWY

! *Castilleja puberula* Rydb.; Short-Flower Paintbrush CAPU19 G2; FRT; Will very likely qualify as S1 in ID (not yet ranked); reported by Egger (2015) from the MT side of Mount Jefferson in the Centennial Range and documented from the ID part of Mount Jefferson by two specimens annotated by David Tank: *D. Henderson 5887*, *Mancuso 2208* (ID); otherwise known only from CO (Egger 2015, Kartesz 2022).

*Castilleja pulchella* Rydb.; Showy Paintbrush CAPU10 G3; FRT, TWY; S2 in ID.

*Castilleja rhexiifolia* Rydb.; Rosy Paintbrush CARH4 G5; \*BAN, BLK, BON, CAR, CLK, FRN, FRT, TID, TWY; *Daines 2178* (KSP045041).

*Castilleja septentrionalis* Lindl.; Labrador Paintbrush CASE4 G5; \*BAN, BON, CAR, FRT, LIN, MAD, TID, TWY; Synonym: *C. sulphurea* Rydb.; *Daines 1114* (KSP041044).

*Cordylanthus ramosus* Nutt. ex Benth.; Bushy Bird's-Beak CORA5 G5; BAN, CLK, MAD, OND; *N.H. Holmgren 16970* (NY), collected in 2019, documents this species in the CNG.

*Orthocarpus holmgreniorum* (Chuang & Heckard) L. Shultz & F.J. Sm.; The Holmgrens' Owl-Clover G3; BLK?, CAR?; A regional endemic (rare in ID, more common in n UT; Kartesz (2022)), recognizable by its purple flowers; also known from a 2020 collection <500 m outside the CTNF border in Bear Lake Co.: *Love 2021-1* (UTC); this species might occur in nearby low-elev. areas within CTNF boundaries.

*Orthocarpus luteus* Nutt.; Golden-Tongue Owl-Clover ORLU2 G5; BLK, BON, CAR, FRN, FRT, TID, TWY

*Orthocarpus tolmiei* Hook. & Arn.; Tolmie's Owl-Clover ORTO G4; BAN, BLK, BON, CAR, FRN, TID, TWY

*Pedicularis bracteosa* var. *paysoniana* (Pennell) Cronq.; Payson's Towering Lousewort PEBRP2 G5T4; BLK, BON, CAR, FRN, FRT, LIN, MAD, TID, TWY

*Pedicularis contorta* var. *contorta* White Coil-Beak Lousewort PECOC2 G5T4; BON, LIN, TID, TWY

*Pedicularis contorta* var. *ctenophora* (Rydb.) A. Nels. & J.F. Macbr.; Montana White Coil-Beak Lousewort PECOC G5T3; CLK, LEM; SNR in ID; of somewhat narrow distribution, known only from several counties each in ID, MT, and WY (Kartesz 2022).

*Pedicularis groenlandica* Retz.; Bull Elephant's-Head PEGR2 G4; BLK, BON, CAR, CLK, FRN, FRT, LIN, TWY

*Pedicularis parryi* subsp. *parryi* Parry's Lousewort PEPAP4 G5T4; CLK; Uncommon in ID but SNR; only known in ID from Clark Co., otherwise occurs from MT to NM and AZ (Kartesz 2022).

*Pedicularis parryi* subsp. *purpurea* (Parry) G.D. Carr; Parry's Purple Lousewort PEPAP5 G5T3; CLK, FRT, LEM, TWY

*Pedicularis racemosa* subsp. *alba* Pennell; Parrot's-Beak PERAA G5T4; BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

### **Paeoniaceae: Peony Family**

[\*Paeonia brownii\*](#) Dougl. ex Hook.; Western Peony PABR G5; BAN, BON, FRT, TWY

### **Papaveraceae: Poppy Family**

[\*Corydalis aurea subsp. aurea\*](#) Scrambledeggs G5T5; BLK, BUT, CAR, CLK, LEM, TWY

[\*Dicentra uniflora\*](#) Kellogg; Long-Horn Steer's-Head DIUN G4; BAN, BON, FRN, FRT, TID, TWY

[\*Papaver kluanense\*](#) D. Löve; Rocky Mountain Poppy PAKL G3; LEM?; S1 in ID; one historical collection demonstrates this taxon occurred near the w border of the CTNF: *D. Henderson 4846* (ID); could be found in the CTNF.

### **Phrymaceae: Lopseed Family**

[\*Diplacus nanus\*](#) (Hook. & Arn.) Nesom; Dwarf Purple Bush-Monkey-Flower G4; FRT

[\*Erythranthe breviflora\*](#) (Piper) Nesom; Short-Flower Mock Monkey-Flower G4; CLK, FRT; S2 in ID.

[\*Erythranthe breweri\*](#) (Greene) Nesom & N.S. Fraga; Brewer's Mock Monkey-Flower G5; TWY

[\*Erythranthe floribunda\*](#) (Lindl.) Nesom; Purple-Stem Mock Monkey-Flower G5; CLK, OND

[\*Erythranthe guttata\*](#) (DC.) Nesom; Seep Mock Monkey-Flower G5; BAN, BLK, BON, BUT, CAR, FRN, FRT, LIN, MAD, OND, TID, TWY; A widespread riparian forb; perhaps the second specimen collected in Oneida Co.: *Daines 848* (KSP040775).

[\*Erythranthe lewisii\*](#) (Pursh) Nesom & N.S. Fraga; Great Purple Mock Monkey-Flower G5; BON, CLK, FRT, MAD, TID, TWY

[\*Erythranthe moschata\*](#) (Dougl. ex Lindl.) Nesom; Muskflower G5; BAN, BLK, BON, CLK, FRN, FRT, MAD, TID, TWY

[\*Erythranthe patula\*](#) (Pennell) Nesom; Stalk-Leaf Mock Monkey-Flower G3?; TWY; SNR in WY; known in the CTNF only from a 1956 coll.: *L.C. Anderson 366* (RM); in the Teton Range, this species is near the se-most portion of its range; it is mostly known from n ID, e WA, and w MT, n into Canada (Kartesz 2022).

[\*Erythranthe tilingii\*](#) (Regel) Nesom; Large Mountain Mock Monkey-Flower G5; BLK, FRN

### **Plantaginaceae: Plantain Family**

[\*Callitriche hermaphroditica\*](#) L.; Autumn Water-Starwort CAHE2 G5; FRT, TWY

[\*Callitriche heterophylla var. heterophylla\*](#) Greater Water-Starwort CAHEH G5T5; TID?, TWY?; Reported from our area: *Hartman 30836, 86567* (RM), but not recognized in our area by Kartesz (2022).

[\*Callitriche palustris\*](#) L.; Vernal Water-Starwort; CAPA52 G5; BLK, FRT, TWY

[\*Callitriche stenoptera\*](#) Lansdown; Narrow-Wing Water-Starwort GNR; FRT; Uncommon but SNR in ID; distribution somewhat scattered in the w US.

[\*Collinsia parviflora\*](#) Lindl.; Small-Flower Blue-Eyed Mary COPA3 G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, POW, TID, TWY

[\*Hippuris vulgaris\*](#) L.; Common Mare's-Tail HIVU2 G5; BLK, CAR, FRT, TWY

[\*Linaria dalmatica\*](#) (L.) P. Mill.; Dalmatian Toadflax LIDA G5; BON; Non-native; Noxious (Kartesz 2022).

[\*Linaria vulgaris\*](#) P. Mill.; Greater Butter-and-Eggs LIVU2 G5; CAR, FRT, TID, TWY; Non-native; Noxious (Kartesz 2022).

[\*Penstemon albertinus\*](#) Greene; Alberta Beardtongue PEAL11 G4; CAR?; Recently collected (2020) as a significant disjunct from MT and n and w ID: *J.F. Smith 16675* (IDS, SRP) (Kartesz 2022); further collections would be helpful to confirm its presence in the CTNF.

[\*Penstemon aridus\*](#) Rydb.; Stiff-Leaf Beardtongue PEAR2 G5?; BUT, CLK

[\*Penstemon attenuatus var. militaris\*](#) (Greene) Cronq.; Military Sulphur Beardtongue PEATM2 G4T4; \*BLK, CLK, LEM; *Daines 2357* (KSP045217) was collected on Snowdrift Mt. in Bear Lake County, disjunct from the taxon's main range farther w and n in ID by >150 km (Kartesz 2022); expert confirmation would be helpful to confirm this county record.

[\*Penstemon attenuatus var. pseudoprocerus\*](#) (Rydb.) Cronq.; False Pincushion Beardtongue PEATP5 G4T4; BON, CLK, FRT, LEM, LIN, MAD, TID, TWY



*Penstemon compactus* (Keck) Crosswhite; Cache Beardtongue PECO10 G2; FRN; S2 in ID; endemic to n UT and se ID, in and near the Bear River Range (Kartesz 2022, IRHN 2023).

*Penstemon cyananthus* Hook.; Wasatch Beardtongue PECY2 G4; FRT, MAD, TID

*Penstemon cyananthus* var. *cyananthus* Wasatch Beardtongue PECYC2 G4T4; \*BAN, BLK, BON, BOX, CAR, FRN, LIN, OND, TWY; *Daines 2186* (KSP045049).

*Penstemon cyananthus* var. *subglaber* (Gray) N. Holmgren; PECYS2 G4T3?; BAN, \*BLK, BON, CAR, OND, TWY; *Daines 2370* (KSP045230).

*Penstemon cyaneus* Pennell; Platte River Beardtongue PECY3 G5; BAN, BON, CLK, FRN, FRT, LEM, TID, TWY

*Penstemon deustus* var. *deustus* Hot-Rock Beardtongue PEDED2 G5T4; BAN, BON, CLK, FRT, LIN, MAD, TID, TWY

*Penstemon eriantherus* var. *redactus* Pennell & Keck; Fuzzy-Tongue Beardtongue PEERR G4T2?; CLK

*Penstemon fruticosus* var. *fruticosus* Shrubby Beardtongue PEFRF4 G4T4; CLK, FRT

*Penstemon humilis* var. *brevifolius* Gray; Short-Leaf Low Beardtongue PEHUB2 G5T4; BLK?, BON?, CAR?, FRN?, OND?; Not recorded for ID by Kartesz (2022) or Freeman (2019); reported from ID by several specimens (including some recent collections), some of which appear to match this variety in Freeman (2019); expert input would clarify whether this variety occurs in ID or not.

*Penstemon humilis* var. *humilis* Low Beardtongue PEHUH G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, OND, TWY

*Penstemon laxus* A. Nels. Loose Beardtongue PELA17 G2; BON?; Kartesz (2022) does not recognize this species in Bonneville Co., but shows it to be endemic to sc ID; INPS (2022) does recognize it in Bonneville Co., likely based on *C.G. Brown CGB 73-505* (ID, SRP); further field research recommended.

*Penstemon leonardii* var. *leonardii* Leonard's Beardtongue PELEL3 G5T4; BLK, FRN; Endemic to a relatively narrow band in UT and ID; reaches its n-most extent in se ID (Kartesz 2022).

*Penstemon montanus* var. *montanus* Cord-Root Beardtongue PEMOM2 G4T4; BAN, BON, BUT, CLK, FRN, FRT, LEM, LIN, TID, TWY

*Penstemon palmeri* var. *palmeri* Scented, Palmer's Beardtongue PEPAP9 G4T4; TWY; This species is native to the sw US, but has been planted farther north, in ID and WY (Freeman 2019, Kartesz 2022).

*Penstemon payettensis* A. Nels. & J.F. Macbr.; Payette Beardtongue PEPA29 G4; CAR, TID; More widespread in west-central Idaho; known from the "Wooley Valley Phosphate Mine" in Caribou Co.: *Chambers s.n.* (RENO), as well as from the Big Hole Mts. in Teton Co., ID: *R.J. Taylor 2696* (WWB).

*Penstemon perpulcher* A. Nels.; Minidoka Beardtongue PEPE12 G3; TID?; SNR in ID. Reported by Kartesz (2022) from Teton Co., ID, likely based on *R.J. Taylor 3989* (WWB); not reported from the TNF by Markow (1994).

*Penstemon procerus* var. *procerus* Pincushion Beardtongue PEPRP G5T5; BLK, BON, CAR, CLK, FRT

~ *Penstemon pumilus* Nutt.; Salmon River Beardtongue PEPUI2 G4; CLK; S4 in ID; *Daines 1995* (KSP044856); endemic to east-central ID (Kartesz 2022, Freeman 2019); grows in sagebrush steppe habitats (Freeman 2019).

*Penstemon radicosus* A. Nels.; Mat-Root Beardtongue PERA2 G5; BAN, BLK, BON, BUT, CAR, CLK, \*FRN, LEM, LIN, OND, TID, TWY; *Daines 453, 2240* (KSP040381, KSP045102).

*Penstemon rydbergii* A. Nels.; Meadow Beardtongue PERY G4; BON, CAR, LIN

*Penstemon rydbergii* var. *aggregatus* (Pennell) N. Holmgren; Clustered Meadow Beardtongue PERYA TNR; BON, CAR

*Penstemon rydbergii* var. *rydbergii* Meadow Beardtongue PERYR G4T4; BON?, CAR?, FRT?, OND?, TWY; Not reported from ID by Kartesz (2022) or Freeman (2019).

*Penstemon strictus* Benth.; Rocky Mountain Beardtongue PEST2 G5; TWY?; Reported from a 2021 collection in Teton Co., WY: *Rink 16927* (ASC); however, not documented from Teton Co., WY in Kartesz (2022).

*Penstemon subglaber* Rydb.; Utah Smooth Beardtongue PESU2 G3?; BAN, CAR, FRN

*Penstemon watsonii* Gray; Watson's Beardtongue PEWA G5; BLK

*Penstemon whippleanus* Gray; Dark Beardtongue PEWH G5; BLK, BON, MAD, TID, TWY

*Plantago eriopoda* Torr.; Red-Woolly Plantain PLER G5; CLK, FRN, FRT, MAD, TID, TWY

[\*Plantago lanceolata\*](#) L.; English Plantain PLLA G5; BAN, CAR, CLK; Non-native; Noxious in ID (Kartesz 2022).

[\*Plantago major\*](#) L.; Great Plantain PLMA2 G5; BAN, BLK, BON, CAR, CLK, FRT, TID, TWY; Non-native; Widespread in the n and w US (Kartesz 2022).

[\*Plantago tweedyi\*](#) Gray; Tweedy's Plantain PLTW G4; BLK, FRN, FRT, MAD, TID, TWY

[\*Veronica americana\*](#) Schwein. ex Benth.; American-Brooklime VEAM2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, MAD, OND, TID, TWY

[\*Veronica anagallis-aquatica\*](#) L.; Blue Water Speedwell VEAN2 G5; BON, \*OND; Non-native; *Daines* 1968 (KSP041976).

[\*Veronica argute-serrata\*](#) Regel & Schmalh.; Saw-Tooth Speedwell; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY; Non-native; Long known under the name *V. biloba* L., which is misapplied in the U.S. (Hitchcock and Cronquist 2018, Kartesz 2022).

~ [\*Veronica catenata\*](#) Pennell; Chain Speedwell VECA7; \*BLK; *Daines* 2097 (KSP044959).

[\*Veronica dissecta subsp. dissecta\*](#) Cut-Leaf Kitten's-Tail G4T4; BLK, BON, CLK, TWY?; Synonym: *Synthyris dissecta* Rydb., *S. pinnatifida* S. Wats. var. *canescens* (Pennell) Cronq.; this subspecies is endemic to ID and sw MT; reported from Teton Co., WY by *Dieffenbach TNF-0680* (IDS), but this may be a misidentified specimen of *V. paysonii*.

[\*Veronica intercedens\*](#) Bornm.; Iranian Speedwell; FRN?; Documented for the first time in North America in 2017 in Franklin Co., ID, <1 km from the CTNF: *Ertter 22830* (CIC), thus it may also occur on the CTNF; it at least superficially resembles the widespread *V. argute-serrata* and *Ertter* noted that the two species were growing together at the collection site.

[\*Veronica paysonii\*](#) (Pennell & Williams) M.M. Mart.Ort. & Albach; Feather-Leaf Kitten's-Tail G3?; BLK, BON, CAR, CLK, FRN, LIN, TWY; Synonym: *Synthyris pinnatifida* S. Wats.

[\*Veronica peregrina subsp. xalapensis\*](#) (Kunth) Pennell; Neckweed VEPEX2 G5T5; BLK, BON, FRN, FRT

[\*Veronica rubra\*](#) (Dougl. ex Hook.) M.M. Mart. Ort. & Albach; Red Coraldrops G5; FRT; Historically placed in *Besseyia* or *Synthyris*.

[\*Veronica scutellata\*](#) L.; Grass-Leaf Speedwell VESC2 G5; FRT, TWY

[\*Veronica serpyllifolia subsp. humifusa\*](#) (Dickson) Syme; Thyme-Leaf Speedwell VESEH2 G5T5; BLK, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY

[\*Veronica wormsjoldii subsp. nutans\*](#) (Bong.) Pennell; American Alpine Speedwell G4; FRT, LIN, TWY

[\*Veronica wyomingensis\*](#) (A. Nels.) M.M. Mart. Ort. & Albach; Wyoming Coraldrops G5; BUT, CLK, FRT, LEM, MAD, TID, TWY; Historically placed in *Besseyia* or *Synthyris*.

## Poaceae: Grass Family

[\*Agropyron cristatum subsp. pectinatum\*](#) (Bieb.) Tzvelev; AGCRP8 G5T5; BLK, BON, CLK, FRT, MAD, OND; Non-native

[\*Agropyron fragile\*](#) (Roth) P. Candargy; Siberian Wheat Grass AGFR G5; BON, \*OND; Non-native; *Daines* 219, 243 (KSP040148, KSP040172).

[\*Agrostis exarata\*](#) Trin.; Spiked Bent AGEX G5; BAN, BON, CLK, FRN, FRT, LIN, TID, TWY

[\*Agrostis gigantea\*](#) Roth; Black Bent AGGI2 G4; BLK, BON, FRT, TWY

[\*Agrostis idahoensis\*](#) Nash; Idaho Bent AGID G5; FRT

[\*Agrostis scabra\*](#) Willd.; Rough Bent AGSC5 G5; BAN, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY

[\*Agrostis stolonifera\*](#) L.; Spreading Bent AGST2 G5; BAN, BLK, BON, CAR, CLK, FRT, LIN, MAD, OND, TID, TWY; Non-native

[\*Agrostis variabilis\*](#) Rydb.; Alpine Bent AGVA G5; FRT, TWY

[\*Alopecurus aequalis var. aequalis\*](#) Short-Awn Meadow-Foxtail ALAEA G5T5; BAN, BLK, FRT, TID, TWY

[\*Alopecurus arundinaceus\*](#) Poir.; Creeping Meadow-Foxtail ALAR G5; BON, FRT, TWY; Non-native

[\*Alopecurus carolinianus\*](#) Walt.; Tufted Meadow-Foxtail ALCA4 G5; BAN, CAR

[\*Alopecurus magellanicus\*](#) Lam.; Alpine Meadow-Foxtail G5; CLK, FRT

[\*Alopecurus pratensis\*](#) L.; Field Meadow-Foxtail ALPR3 G5; BON, CAR, FRT, LIN, TID, TWY; Non-native

[\*Anthoxanthum hirtum\*](#) (Schrank) Y. Schouten & Veldkamp; Northern Sweet Vernal Grass ANHI8 G5; BON, CLK, FRT; S2 in ID; synonym: *Hierochloa hirta* (Schrank) Borbás.

[\*Arrhenatherum elatius var. elatius\*](#) Tall Oat Grass ARELE G5T5; BON, FRT

*Avena fatua* L.; Wild Oat AVFA G5; FRT; Non-native; Noxious in ID (Kartesz 2022).

*Avena sativa* L.; Oat AVSA G5; BON; Non-native

*Beckmannia syzigachne* (Steud.) Fern.; American Slough Grass BESY G5; FRT

*Bromus arvensis* L.; Field Brome BRAR5 G5; CLK, FRT, TWY; Non-native

~ *Bromus briziformis* Fisch. & C.A. Mey.; Rattlesnake Brome BRBR5 G5; BOX; Non-native; *Daines 1488* (KSP041494); uncommon in the CTNF-CNG and in se ID in general (Kartesz 2022).

*Bromus catharticus* var. *catharticus* Rescue Grass G5T5; BLK; Non-native

*Bromus ciliatus* L.; Fringed Brome BRCI2 G5; BON, CLK, FRT, LIN, TID, TWY

*Bromus inermis* Leyss.; Smooth Brome BRIN2 G5; BAN, BLK, BON, BUT, CAR, CLK, FRT, LIN, MAD, OND, TID, TWY; Non-native; A widespread rhizomatous brome grass (Kartesz 2022).

*Bromus porteri* (Coul.) Nash; Porter's Brome BRPO2 G5; BLK, BON, BUT, CLK, FRT, LEM, MAD, TID, TWY; *Bromus anomalus* Rupr. ex Fourn., misapplied.

*Bromus pumpellianus* subsp. *pumpellianus* Arctic Brome G5T4; FRT

*Bromus racemosus* L.; Bald Brome BRRA2 G5; BAN, BON, \*CLK, FRT, OND; Non-native; *Snow 11735* (KSP046126); synonym: *Bromus commutatus* Schrad.

*Bromus sitchensis* Trin.; Mountain Brome BRSI G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY; Synonym: *Bromus carinatus* Hook. & Arn.; more collections could help clarify the distribution of each variety of this species.

~ *Bromus sterilis* L.; Poverty Brome BRST2 G5; \*CLK; Non-native; *Snow 11803* (KSP046417).

*Bromus suksdorfii* Vasey; Suksdorf's Brome BRSU2 G5; BON?; Recently documented in Bonneville Co.: *J.F. Smith 16734* (IDS, SRP), but this would represent a significant disjunction from most or all of the other populations in CA, OR, WA, and c and w ID (Kartesz 2022, CPNWH 2023); further research and collections recommended.

*Bromus tectorum* L.; Cheat Grass BRTE G5; BAN, BLK, BON, CLK, FRT, LIN, MAD, OND, TID, TWY; Non-native; A very widespread annual (Kartesz 2022).

*Bromus vulgaris* (Hook.) Shear; Colombian Brome BRVU G5; \*FRN, TID, TWY; *Snow 11582* (KSP046022).

*Calamagrostis canadensis* var. *canadensis* Bluejoint CACAC10 G5T5; BAN, BON, CAR, CLK, FRT, MAD, TID, TWY

*Calamagrostis montanensis* (Scribn.) Scribn.; Plains Reed Grass CAMO G5; FRT; Spills over the Continental Divide into three counties in ID; otherwise mostly known from the n Great Plains (Kartesz 2022).

*Calamagrostis purpurascens* R. Br.; Purple Reed Grass CAPU G5; CLK, FRT, LEM

*Calamagrostis rubescens* Buckl.; Pine Grass CARU G5; BAN, BLK, BON, CLK, FRT, LIN, TID, TWY

*Calamagrostis stricta* (Timm) Koel.; Slim-Stem Reed Grass CAST36 G5; TID, TWY

*Calamagrostis stricta* subsp. *inexpansa* (Gray) C.W. Greene; Slim-Stem Reed Grass CASTI3 G5T5; BAN, BON, CLK, FRT

*Calamagrostis stricta* subsp. *stricta* Slim-Stem Reed Grass CASTS5 G5T5; CAR, FRT

*Catabrosa aquatica* (L.) Beauv.; Water Whorl Grass CAAQ3 G5; BON, BUT, CLK

*Cinna latifolia* (Trev. ex Goepp.) Griseb.; Slender Wood-Reed CILA2 G5; FRT, LIN, TWY

*Dactylis glomerata* subsp. *glomerata* Orchard Grass DAGLG G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

*Danthonia californica* Boland.; California Wild Oat Grass DACA3 G5; BLK, BON, CAR, CLK, FRT, MAD, TID

*Danthonia intermedia* Vasey; Timber Wild Oat Grass DAIN G5; CLK, FRN, FRT, LEM, TID, TWY

*Danthonia unispicata* (Thurb.) Munro ex Macoun; Few-Flower Wild Oat Grass DAUN G5; CAR, CLK, FRN, FRT, TID, TWY

*Deschampsia cespitosa* subsp. *cespitosa* Tufted Hair Grass G5T5; BLK, BON, CAR, CLK, FRN, FRT, LIN, OND, TID, TWY

*Deschampsia elongata* (Hook.) Munro; Slender Hair Grass DEEL G5; BLK, BON, FRN, FRT, MAD, TID, TWY

*Digitaria ischaemum* (Schreb. ex Schweig.) Schreb. ex Muhl.; Smooth Crab Grass DIIS G5; BAN; Non-native

*Elymus alaskanus* subsp. *latiglumis* (Scribn. & J.G. Sm.) A. Löve; Alaska Wild Rye ELALL G5T5; BAN?, BON, CAR?, FRN; Synonym: *Elymus violaceus* (Hornem.) Böcher ex J. Feilberg; *Daines 1069*

(KSP040999) from Caribou Co. and *Daines 1116* (KSP041046) from Bannock Co. were tentatively identified as this species.

[\*Elymus elymoides\*](#) (Raf.) Swezey; Western Squirrel Tail, Bottle-Brush Grass ELEL5 G5; BAN, BON

[\*Elymus elymoides subsp. brevifolius\*](#) (J.G. Sm.) Barkworth; Western Squirrel Tail, Bottle-Brush Grass ELELB2 G5T4; FRT, LEM, \*OND, TWY; *Daines 1313* (KSP041243).

[\*Elymus elymoides subsp. elymoides\*](#) Western Squirrel Tail, Bottle-Brush Grass ELELE G5T5; BLK, CLK, FRN, FRT, OND, TID, TWY; Synonym: *Elymus elymoides* (Raf.) Swezey subsp. *californicus* (J.G. Sm.) Barkworth.

[\*Elymus glaucus subsp. glaucus\*](#) Blue Wild Rye ELGLG G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, TID, TWY

[\*Elymus lanceolatus subsp. lanceolatus\*](#) Streamside Wild Rye ELLAL G5T5; BAN, BLK, BON, CAR, CLK, FRT, LEM, OND, TID

[\*Elymus repens\*](#) (L.) Gould; Creeping Wild Rye ELRE4 G5; BAN, BON, CLK, FRT, TWY; Non-native; Noxious in ID, UT, and WY (Kartesz 2022).

[\*Elymus scribneri\*](#) (Vasey) M.E. Jones; Scribner's Wild Rye ELSC4 G5; BUT, CLK, FRT, LEM, TID, TWY

[\*Elymus trachycaulus subsp. subsecundus\*](#) (Link) A. & D. Löve; Slender Wild Rye ELTRS G5T5; BAN, BLK, BON, CAR, FRN

[\*Elymus trachycaulus subsp. trachycaulus\*](#) Slender Wild Rye ELTRT G5T5; BLK, BON, BUT, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

[\*Elymus virginicus var. virginicus\*](#) Virginia Wild Rye ELVIV G5T5; TWY; Very widespread in the e US, but disjunct in scattered areas in parts of the w US (Kartesz 2022).

[\*Elymus X saundersii\*](#) Vasey (pro sp.); [*elymoides X trachycaulus*] ELSA4; BLK

~ [\*Eremopyrum triticeum\*](#) (Gaertn.) Nevski; Annual False Wheat Grass ERTR13 G5; \*OND; Non-native; *Daines 1984* (KSP041992).

[\*Eriocoma hymenoides\*](#) (Roemer & J.A. Schultes) Rydb.; Indian Rice Grass G5; BAN, BON, BUT, CAR, CLK, LEM, OND, TID; Often placed in *Achnatherum* or *Oryzopsis*.

[\*Eriocoma lemmonii subsp. lemmonii\*](#) Lemmon's Rice Grass G5T5; BAN, CAR, CLK, \*OND, TID; *Daines 811, 939* (KSP040738, KSP040869).

[\*Eriocoma lettermanii\*](#) (Vasey) Romasch.; Letterman's Rice Grass G5; BLK, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY

[\*Eriocoma nelsonii subsp. dorei\*](#) (Barkworth & Maze) Romasch.; Nelson's Rice Grass G5T5; BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

[\*Eriocoma nelsonii subsp. nelsonii\*](#) Nelson's Rice Grass G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRT, LIN, MAD, TID, TWY

[\*Eriocoma nevadensis\*](#) (B.L. Johnson) Romasch.; Nevada Rice Grass G4; FRT, LEM

[\*Eriocoma occidentalis subsp. californica\*](#) (Merr. & Burt-Davy) Romasch.; Western Rice Grass G5T5; BAN; *J.F. Smith 5187* (SRP, UTC, WTU); more widespread to the w of our study area (Kartesz 2022).

[\*Eriocoma occidentalis subsp. occidentalis\*](#) Western Rice Grass G5T5; BON, FRT, MAD

[\*Eriocoma pinetorum\*](#) (M.E. Jones) Romasch.; Pine-Forest Rice Grass G4; FRT

[\*Eriocoma richardsonii\*](#) (Link) Romasch.; Richardson's Rice Grass G5; LEM

[\*Eriocoma webberi\*](#) Thurb.; Webber's Rice Grass G4; BON

[\*Festuca baffinensis\*](#) Polunin; Baffin Fescue FEBA G5; TWY

[\*Festuca brachyphylla subsp. brachyphylla\*](#) Short-Leaf Fescue FEBRB G5T5; FRT, LEM, TWY

[\*Festuca brachyphylla subsp. coloradensis\*](#) Frederiksen; Colorado Short-Leaf Fescue FEBRC G5TNR; TWY

[\*Festuca idahoensis\*](#) Elmer; Bluebunch, Idaho Fescue FEID G5; BON, CAR, CLK, FRT, LEM, MAD, TID, TWY

[\*Festuca occidentalis\*](#) Hook.; Western Fescue FEOC G5; LIN, TID

[\*Festuca rubra\*](#) L.; Red Fescue FERU2 G5; \*CLK, LEM; *Snow 11877* (KSP046457).

[\*Festuca rubra subsp. rubra\*](#) Red Fescue FERUR2 G5T4; FRT, TWY

[\*Festuca saximontana var. saximontana\*](#) Rocky Mountain Fescue FESAS G5T5; CLK, FRT, LEM, TWY

[\*Festuca subulata\*](#) Trin.; Bearded Fescue FESU G5; BON, CAR, CLK, FRN, FRT, MAD, TID

[\*Festuca trachyphylla\*](#) (Hack.) Krajina; Hard Fescue FETR3 G5; CAR, CLK, FRT, LEM; Non-native; *Festuca ovina* L., misapplied.

~ *Festuca viridula* Vasey; Green-Leaf Fescue FEVI G5; \*BUT; Pending expert identification of a duplicate, a newly-collected specimen has been tentatively identified as this species: *Daines 2507* (KSP045367); not very widespread in e ID, more common in an arc from n MT to CA (Kartesz 2022).

*Glyceria borealis* (Nash) Batchelder; Small Floating Manna Grass GLBO G5; FRT, TID, TWY  
*Glyceria elata* (Nash ex Rydb.) M.E. Jones; Tall Manna Grass GLEL; BLK, BON, CLK, FRT, LIN, TWY  
*Glyceria grandis* var. *grandis* American Manna Grass GLGRG G5T5; CAR, FRT, TWY  
*Glyceria striata* (Lam.) A.S. Hitchc.; Fowl Manna Grass GLST G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY  
*Graphophorum wolfii* (Vasey) Vasey ex Coult.; Wolf's Melic-Oats G4; CLK?, FRT, LIN; Synonym: *Trisetum wolfii* Vasey. Reported from Clark Co.: *Mutz 833* (UT), but not recognized there by Kartesz (2022).

*Hesperostipa comata* var. *comata* Needle-and-Thread HECOC8 G5T5; CLK  
*Hesperostipa comata* var. *intermedia* (Scribn. & Tweedy) Barkworth; Intermediate Needle-and-Thread HECOI G5T5; BON, CLK, FRT  
*Hordeum brachyantherum* subsp. *brachyantherum* Meadow Barley HOBRB2 G5T5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, MAD, OND, TID, TWY  
*Hordeum jubatum* var. *jubatum* Fox-Tail Barley HOJUG G5T5; BLK, BON, CLK, FRT, MAD, TID, TWY  
*Hordeum marinum* subsp. *gussoneanum* (Parl.) Thellung; HOMAG G5T5; FRT; Non-native  
~ *Hordeum murinum* subsp. *glaucum* (Steudel) Tzvelev Wall Barley HOMUG G5T5; \*OND; Non-native; *Daines 244* (KSP040173).  
*Hordeum vulgare* L.; Common Barley HOVU G5; BON; Non-native  
*Koeleria macrantha* (Ledeb.) J.A. Schultes; Prairie Koeler's Grass, June Grass KOMA G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY  
*Koeleria spicata* (L.) Barberá, Quintanar, Soreng & P.M. Peterson; Narrow Koeler's Grass, Spike Trisetum G5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, TID, TWY; Synonyms: *Trisetum spicatum* (L.) Richter, *Trisetum montanum* Vasey.  
*Leucopoa kingii* (S. Wats.) W.A. Weber; Spiked False Fescue LEKI2 G5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY  
*Leymus cinereus* (Scribn. & Merr.) A. Löve; Great Basin Wildrye, Lyme Grass LECI4 G5; BAN, BLK, BON, BUT, CLK, FRT, MAD, OND, TID, TWY  
*Leymus salinus* subsp. *salmonis* (Scribn. & Merr.) A. Löve; Salmon Wildrye LESAS2 G5T3; BUT; SNR in ID; Disjunct in east-central ID, otherwise somewhat scattered in the Great Basin (Kartesz 2022).  
*Lolium arundinaceum* (Schreb.) S.J. Darbyshire; Tall Rye Grass LOAR10 G5; BON, FRT, TID, TWY  
*Lolium pratense* (Huds.) S.J. Darbyshire; Meadow Rye Grass LOPR7 G5; BON, FRT, MAD, TID, TWY  
*Melica bulbosa* Geyer ex Porter & Coult.; Onion Grass MEBU G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY  
*Melica smithii* (Porter ex Gray) Vasey; Smith's Melic Grass MESM G4; TID; Exhibits a relatively sparsely scattered distribution in parts of the n US; in se ID apparently only known from Teton Co. (Kartesz 2022).  
*Melica spectabilis* Scribn.; Showy Melic Grass MESP G5; BAN, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY  
*Melica subulata* (Griseb.) Scribn.; Alaska Melic Grass MESU G5; BON, TID, TWY  
*Muhlenbergia filiformis* (Thurb. ex S. Wats.) Rydb.; Pullup Muhly MUF12 G5; BLK, FRT, TID, TWY  
*Muhlenbergia richardsonis* (Trin.) Rydb.; Matted Muhly MURI G5; CLK, FRT  
*Nassella viridula* (Trin.) Barkworth; Green Tussock Grass NAVI4 G5; CLK, FRT; S2 in ID; more widespread in the n Great Plains and s Rocky Mts. (Kartesz 2022).  
*Panicum capillare* L.; Common Panic Grass PACA6 G5; BAN, FRN  
*Pascopyrum smithii* (Rydb.) A. Löve; Western-Wheat Grass PASM G5; BUT, CLK, TID  
*Phalaris arundinacea* L.; Reed Canary Grass PHAR3 G5; BON, CLK, FRT  
*Phleum alpinum* L.; Mountain Timothy PHAL2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY  
*Phleum pratense* L.; Common Timothy PHPR3 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY; Non-native; A perennial grass, widespread across the n and w US (Kartesz 2022).

*Phragmites australis* (Cav.) Trin. ex Steud.; Common Reed PHAU7 G5; FRT; Non-native; Noxious in ID (Kartesz 2022).

*Piptatheropsis exigua* (Thurb.) Romasch., P.M. Peterson & Soreng; Little Mountain-Rice Grass G5; BON, FRT, TWY

*Poa abbreviata subsp. marshii* Soreng; Marsh's Northern Blue Grass POABM G5T2; LEM?; S1 in ID; documented near the w border of the CTNF in the alpine zone of the Lemhi Range; could occur in the CTNF nearby.

*Poa abbreviata subsp. pattersonii* (Vasey) A. & D. Löve & Kapoor; Patterson's Northern Blue Grass POABP G5T5; BUT, FRT, TWY

*Poa alpina subsp. alpina* Alpine Blue Grass G5T5; BON, BUT, FRT, LEM, TWY

*Poa annua* L.; Annual Blue Grass POAN G5; BON, CLK, FRT, MAD, TID, TWY; Non-native

*Poa arctica subsp. arctica* Arctic Blue Grass POARA2 G5T4; FRT, LEM

*Poa arida* Vasey; Prairie Blue Grass POAR3 G5; CLK

*Poa arnowiae* Soreng; Arnov's Blue Grass POAR21 G4; BON, CAR, \*FRN, MAD, TID, TWY; *Daines* 555 (KSP040483); a regional endemic that occurs along the ID/WY border, south to c UT (plus disjunct occurrences in west-central ID), synonym: *Poa curta* Rydb. (Kartesz 2022).

*Poa bolanderi* Vasey; Bolander's Blue Grass POBO G5; BLK, FRN; A native annual bluegrass; more widespread in CA and the Pacific NW, but apparently disjunct in se ID/n UT and s UT (Kartesz 2022).

*Poa bulbosa subsp. vivipara* (Koel.) Arcang.; Bulbous Blue Grass G5T5; BAN, BLK, BON, CAR, CLK, FRN, LIN, MAD, OND, POW, TID, TWY; Non-native

*Poa compressa* L.; Flat-Stem Blue Grass POCO G5; BLK, BON, CAR, CLK; Non-native

*Poa cusickii subsp. cusickii* Cusick's Blue Grass POCUC4 G5T4; CLK, FRT, LEM

*Poa cusickii subsp. epilis* (Scribn.) W.A. Weber; Cusick's Blue Grass POCUE2 G5T5; BON, CLK, FRN, FRT, LIN, TID, TWY

*Poa cusickii subsp. pallida* Soreng; Cusick's Pale Blue Grass POCUP3 G5T4; BLK, BON, CAR, CLK, FRT, LEM, TID, TWY

*Poa cusickii subsp. purpurascens* (Vasey) Soreng; Cusick's Purple Blue Grass POCUP4 G5T4; BON?; A specimen that seemed identifiable to this variety was recently collected on a subalpine ridge near Sheep Creek Peak in Bonneville Co.: *Daines* 2705 (KSP045571); its presence in the CTNF-CNG seems unlikely, since all known US populations occur in CA, OR, and WA (Kartesz 2022); expert input pending.

*Poa fendleriana subsp. fendleriana* Mutton Grass POFEF G5T5; TWY; *L.C. Anderson* 97 (UTC), collected at Treasure Mt. Scout Camp in Teton Canyon, is likely the only specimen of this subsp. known definitively from the study area.

*Poa fendleriana subsp. longiligula* (Scribn. & Williams) Soreng; Mutton Grass POFEL G5TNR; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN, OND, POW?, TID, TWY; It is assumed that most of our material of this species belongs to subsp. *longiligula* (widespread in our area; Kartesz 2022) until further information indicates otherwise.

*Poa glauca subsp. glauca* White Blue Grass POGLG G5T5; BUT?, CLK?, LEM?; Not recognized in these counties by Kartesz (2022).

*Poa glauca subsp. rupicola* (Nash) W.A. Weber; White Blue Grass POGLR2 G5T4; CLK, FRT, LEM

*Poa interior* Rydb.; Inland Blue Grass POIN G5; BLK, BON, BUT, CAR, CLK, FRT, LEM, LIN, TID, TWY

*Poa leptocoma* Trin.; Marsh Blue Grass POLE2 G5; BAN, BON, CAR, CLK, MAD, TWY

*Poa lettermanii* Vasey; Letterman's Blue Grass POLE3 G4; BUT

*Poa nemoralis* L.; Forest Blue Grass PONE G5; BON, BUT?, CAR?, CLK?, FRT?, LEM?; Not recognized in most of our counties by Kartesz (2022).

*Poa palustris* L.; Fowl Blue Grass POPA2 G5; BON, CAR, CLK, FRT, LIN, MAD, TID, TWY

*Poa paucispicula* Scribn. & Merr.; Alaska Blue Grass POPA26 G5; BON; S1 in ID; known from scattered occurrences in ID and MT and also occurs from WA n to AK (Kartesz 2022).

*Poa pratensis subsp. pratensis* Kentucky Blue Grass POPRP2 G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY; Non-native

*Poa reflexa* Vasey & Scribn.; Nodding Blue Grass PORE G5; BLK, BON, CLK, FRN, FRT, TID, TWY

*Poa secunda subsp. juncifolia* (Scribn.) Soreng; Curly Blue Grass POSEJ G5; BON, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

*Poa secunda subsp. secunda* Sandberg's Blue Grass G5; BAN, BLK, BON, BOX, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

*Poa stenantha var. stenantha* Narrow-Flower Blue Grass G5; FRT

*Poa wheeleri* Vasey; Wheeler's Blue Grass POWH2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, POW, TID, TWY

*Poa X nematophylla* Rydb. (pro sp.); [*cusickii* X *fendleriana*] PONE18; CAR, CLK

*Podagrostis humilis* (Vasey) Björkman; Alpine False Bent POHU G5; FRT

*Polypogon monspeliensis* (L.) Desf.; Annual Rabbit's-Foot Grass POMO5 G5; BON, OND; Non-native

*Psathyrostachys juncea* (Fisch.) Nevski; Russian Wild Rye PSJU3 G5; CLK; Non-native

*Pseudoroegneria spicata* (Pursh) A. Löve; Bluebunch Wheat Grass PSSP6 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

*Puccinellia nuttalliana* (J.A. Schultes) A.S. Hitchc.; Nuttall's Alkali Grass PUNU2 G5; BON; Fairly widespread in the w US; somewhat scattered in e ID (uncommon in the CTNF-CNG), generally occurs at lower elevations near springs or in alkaline meadows (IRHN 2023, CPNWH 2023).

*Schizachne purpurascens* (Torr.) Swallen; False Melic Grass SCPU G5; TID?; Somewhat widespread in the ne US, Rocky Mts., and adjacent areas, but only known in ID from one or two counties (Kartesz 2022); the Teton Co. record is based on *Evert 37475* (RM), which is a vegetative specimen of some grass (does not likely represent *S. purpurascens*).

*Secale cereale* L.; Cultivated Rye SECE G5; BAN, \*OND; Non-native; *Daines 1912* (KSP041920).

*Setaria viridis* (L.) Beauv.; Green Bristle Grass SEVI4 G5; BAN, BON; Non-native

*Thinopyrum intermedium* (Host) Barkworth & D.R. Dewey; Intermediate Wheat Grass THIN6 G5; BAN, BLK, BON, CLK, FRN, FRT, MAD, OND, TID, TWY; Non-native

*Thinopyrum ponticum* (Podp.) Barkworth & D.R. Dewey; Eurasian Quack Grass THPO7 G5; TWY; Non-native

*Torreyochloa pallida var. pauciflora* (J. Presl) J.I. Davis; Pale False Manna Grass TOPAP3 G5T5; BON, CLK, FRT, TWY

*Trisetum cernuum subsp. canescens* (Buckl.) Calder & Taylor; Tall False Oat TRCEC3 G5T5; BLK

*Triticum aestivum* L.; Bread Wheat TRAE G5; BON; Non-native

*X Pseudelymus saxicola* (Scribn. & J.G. Sm.) Barkworth & D.R. Dewey; [*Elymus elymoides* X *Pseudoroegneria spicata*] PSSA2; OND?; Reported by A.C. Hull Jr. 208 (NY) from the Curlew Valley; it is unclear whether this was collected within the CNG boundaries.

#### **Polemoniaceae: Phlox Family**

~ *Aliciella leptomeria* (Gray) J.M. Porter; Sand Cheat Gily-Flower ALLE7 G5; \*CLK, \*OND; *Snow 11807, Daines 1944* (KSP046421, KSP041952).

*Collomia debilis var. debilis* Alpine Mountain-Trumpet CODED G5T4; BON, CLK, LEM

*Collomia debilis var. trifida* Payson; Alpine Mountain-Trumpet CODET G5T4; LEM; Somewhat narrowly distributed in an arc from wc WY through sw MT to c ID, disjunct in ne NV (Kartesz 2022).

*Collomia grandiflora* Dougl. ex Lindl.; Large-Flower Mountain-Trumpet COGR4 G5; BAN

*Collomia linearis* Nutt.; Narrow-Leaf Mountain-Trumpet COLI2 G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

*Collomia tenella* Gray; Diffuse Mountain-Trumpet COTE G4; BAN, BLK

*Eriastrum wilcoxii* (A. Nels.) Mason; Wilcox's Woollystar ERWI G5; FRT

~ *Gilia inconspicua* (Sm.) Sweet; Shy Gily-Flower GIIN2 G5; \*CLK; *Snow 11829, Daines 1684, 2025, 2052* (KSP046368, KSP041690, KSP044887, KSP044914).

*Gymnosteris parvula* Heller; Small-Flower Starlet GYP2 G4; CLK

*Ipomopsis aggregata subsp. aggregata* Scarlet Skyrocket IPAGA3 G5T4; BAN, BLK, BON, BOX, CAR, FRN, FRT, LEM, LIN, MAD, OND, TID, TWY

*Ipomopsis aggregata subsp. attenuata* (Gray) V. & A. Grant; Scarlet Skyrocket IPAGA2 G5T4; CAR, FRT, LIN, \*OND, TWY; *Daines 260* (KSP040189).

*Ipomopsis congesta subsp. crebrifolia* (Nutt.) Day; Ball-Head Skyrocket IPCOC G5T3; CLK; S1S2 in ID.

*Ipomopsis spicata var. cephaloidea* (Rydb.) Wilken & R.L. Hartman; Spiked Skyrocket IPSPC2 G5TNR; CLK

*Ipomopsis spicata var. orchidacea* (Brand) Dorn; Spiked Skyrocket IPSPO3 G5T2?; CLK, LEM

[\*Ipomopsis tenuituba subsp. tenuituba\*](#) Slender-Tube Skyrocket IPTET2 G4TNR; BLK, FRN; The taxonomy may be somewhat complicated; this may be the taxon referred to in some regional Floras as *Ipomopsis aggregata* (Pursh) V. Grant var. *macrosiphon* (Kearney & Peebles) Dorn.

[\*Lathrocasis tenerrima\*](#) (Gray) L.A. Johnson; Annual Gily-Flower LATE6 G5; BON, FRT, LIN, TID, TWY

[\*Leptosiphon harknessii\*](#) (Curran) J.M. Porter & L.A. Johnson; Three-Seed Perennial Gily-Flower LEHA11 G4; BLK, CAR, CLK, FRT

[\*Leptosiphon nuttallii subsp. nuttallii\*](#) Nuttall's Perennial Gily-Flower LENUN G5T5; BLK, BON, CAR, FRN, LIN, TID, TWY

[\*Leptosiphon septentrionalis\*](#) (Mason) J.M. Porter & L.A. Johnson; Northern Gily-Flower LESE17 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, \*OND, TID, TWY; *Daines 841* (KSP040768).

[\*Linanthus pungens subsp. pungens\*](#) Granite Desert-Trumpets G5; BLK, BON, CLK, FRT, LEM, OND

[\*Linanthus watsonii subsp. watsonii\*](#) Watson's Desert-Trumpets G4; BLK, BOX, CLK, OND

[\*Microsteris gracilis\*](#) (Hook.) Greene; Annual-Phlox MIGR G5; BAN, BLK, BON, CAR, FRN, FRT, LIN, MAD, OND, TID, TWY

[\*Navarretia capillaris\*](#) (Kellogg) Kuntze; Miniature Pincushion-Plant NACA6 G4; FRN; More widespread in CA and OR; disjunct in Clark Co., ID and in the Bear River Range in se ID and n UT (Kartesz 2022, IRHN 2023).

[\*Navarretia furnissii\*](#) L.A. Johnson & L.M. Chan; Furniss's Pincushion-Plant; BLK, BON, CLK, FRT, TID; A recently described species that occurs mostly in e ID and n UT, with occurrences in one county each in WY and CO (Johnson et al. 2012, Kartesz 2022).

[\*Navarretia intertexta\*](#) (Benth.) Hook.; Needle-Leaf Pincushion-Plant NAIN2 G5; BON

[\*Navarretia propinqua\*](#) Suksdorf; Spreading Pincushion-Plant NAPR3 G5; CLK, FRT, TID

[\*Phlox austromontana\*](#) Coville; Desert Mountain Phlox PHAU3 G5; \*BOX, CLK, FRT; *Daines 1493* (KSP041499); known from only a few records in the CTNF-CNG; more widespread in OR, w and c ID, and the sw US (Kartesz 2022).

[\*Phlox canescens\*](#) Torr. & Gray; Hoary Phlox PHCA24 G4; BAN, BLK, BON, BOX, BUT, CLK, LIN?, MAD, OND, TID

[\*Phlox diffusa\*](#) Benth.; Spreading Phlox PHDI3 G5; BON; It is unclear which variety of this species occurs in the CTNF-CNG; further field work to recollect this or a close look at existing specimens could help clarify the situation.

[\*Phlox hoodii\*](#) Richards.; Carpet Phlox PHHO G5; LIN?; This species is mostly found east of our study area (Kartesz 2022).

[\*Phlox longifolia\*](#) Nutt.; Long-Leaf Phlox PHLO2 G5; BAN, BLK, BON, BOX, BUT, CAR, CLK, FRT, LEM, LIN, OND, POW, TID; A common, very widespread spring to summer-flowering forb in the CTNF (Kartesz 2022).

[\*Phlox multiflora\*](#) A. Nels.; Rocky Mountain Phlox PHMU3 G4; BON, BUT, CAR, CLK, FRT, LEM, MAD, TID, TWY

[\*Phlox muscoides\*](#) Nutt.; Square-Stem Phlox PHMU4 G5; BUT, \*CLK, LEM; Synonym: *P. bryoides* Nutt.; *Snow 11667* (KSP046107).

[\*Phlox pulvinata\*](#) (Wherry) Cronq.; Cushion Phlox PHPU5 G5; CLK, FRT, LEM

[\*Polemonium albiflorum\*](#) Eastw.; White-Flower Jacob's-Ladder; BLK, BON, CAR, CLK, FRN, LIN, TID; Often referred to *Polemonium foliosissimum* (Rose 2021).

[\*Polemonium occidentale subsp. occidentale\*](#) Western Jacob's-Ladder POOCO G5T5; BLK, BON, CAR, CLK, FRN, FRT, TWY

[\*Polemonium viscosum\*](#) Nutt.; Sticky Jacob's-Ladder POVI G5; BUT, CLK, FRT, LEM, LIN, TWY

#### **Polygonaceae: Buckwheat, Knotweed Family**

[\*Bistorta bistortoides\*](#) (Pursh) Small; American Bistort BIBI5 G5; BLK, BON, CAR, CLK, FRN, FRT, LEM, MAD, TID, TWY

[\*Eriogonum brevicaulis var. bannockense\*](#) (S. Stokes) Reveal; Short-Stem Wild Buckwheat G4TNR; BAN, BLK, BON, CAR?, FRN, LIN

[\*Eriogonum brevicaulis var. laxifolium\*](#) (Torr. & Gray) Reveal; Short-Stem Wild Buckwheat ERBRL G4T4; BLK, BON, CAR?; Difficult to distinguish from var. *bannockense*; *Daines 1334* (KSP041264) would represent a county record for Caribou Co. if actually var. *laxifolium*.



[\*Eriogonum caespitosum\*](#) Nutt.; Matted Wild Buckwheat ERCA8 G5; BAN

[\*Eriogonum flavum\* var. \*flavum\*](#) Alpine Golden Wild Buckwheat ERFLF G5T4; FRT, TWY

[\*Eriogonum flavum\* var. \*piperi\*](#) (Greene) M.E. Jones; Piper's Alpine Golden Wild Buckwheat ERFLP G5T4; FRT, TWY

[\*Eriogonum heracleoides\* var. \*heracleoides\*](#) Parsnip-Flower Wild Buckwheat ERHEH3 G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, OND, TID, TWY

[\*Eriogonum mancum\*](#) Rydb.; Imperfect Wild Buckwheat ERMA3 G4; CLK, LEM; S2 in ID.

[\*Eriogonum microthecum\* var. \*laxiflorum\*](#) Hook.; Slender Wild Buckwheat ERMIL2 G5T4; BAN, BLK, CAR, CLK

[\*Eriogonum ovalifolium\* var. \*depressum\*](#) Blank.; Low Cushion Wild Buckwheat EROVD G5T4; BUT, FRT, LEM

[\*Eriogonum ovalifolium\* var. \*nivale\*](#) (Canby ex Coville) M.E. Jones; Snowline Cushion Wild Buckwheat EROVN G5T4; BUT?; Some specimens resembling var. *nivale* have been reported from c ID, but their assignment to this variety may be incorrect (D. Mansfield, pers. comm. Jan. 2023); these might be better referred to var. *depressum* until further research clarifies the situation.

[\*Eriogonum ovalifolium\* var. \*ochroleucum\*](#) (Small ex Rydb.) M.E. Peck; Off-White Cushion Wild Buckwheat EROVO4 G5T3?; CLK; Reported by Markow (1994) from one specimen collected near or in the CTNF, confirmed as occurring in the study area with two recent collections: *Snow 11828* and *Daines 2417* (KSP046442, KSP045277).

[\*Eriogonum ovalifolium\* var. \*ovalifolium\*](#) Cushion Wild Buckwheat EROVO5 G5T4; BAN, CAR, CLK, FRT, MAD, OND

[\*Eriogonum ovalifolium\* var. \*purpureum\*](#) (Nutt.) Dur.; Purple Cushion Wild Buckwheat EROVP2 G5T5; BUT, CLK, FRT, LEM, MAD, TID

[\*Eriogonum umbellatum\* var. \*aureum\*](#) (Gandog.) Reveal; Sulphur-Flower Wild Buckwheat ERUMA3 G5T4; CLK, LEM, TID

[\*Eriogonum umbellatum\* var. \*desereticum\*](#) Reveal; Sulphur-Flower Wild Buckwheat ERUMD G5TNR; CAR?, TWY; This variety is disjunct in the Greater Yellowstone area from much of its range; more common in n UT; *Daines 977* (KSP040907) was tentatively identified as this var.; if indeed this, it would represent a county record for Caribou Co.

[\*Eriogonum umbellatum\* var. \*dichrocephalum\*](#) Gandog.; Sulphur-Flower Wild Buckwheat ERUMD3 G5T4; BLK, BON, CAR, CLK, FRN, FRT, LEM, MAD, OND, TID, TWY

[\*Eriogonum umbellatum\* var. \*majus\*](#) Hook.; Sulphur-Flower Wild Buckwheat ERUMM G5T5; BLK, BON, CAR, CLK, FRT, LIN, MAD, TID, TWY

[\*Eriogonum umbellatum\* var. \*stragulum\*](#) Reveal; Sulphur-Flower Wild Buckwheat G5TNR; BAN, MAD; Mostly endemic to ID, but extends into WY and NV (Kartesz 2022).

[\*Eriogonum umbellatum\* var. \*umbellatum\*](#) Sulphur-Flower Wild Buckwheat ERUMU2 G5T4; BAN, BON, BUT, CAR, CLK, FRT, LEM, MAD, OND

[\*Oxyria digyna\*](#) (L.) Hill; Mountain-Sorrel OXDI3 G5; BLK, BON, BUT, CLK, FRN, FRT, LEM, TWY

[\*Persicaria amphibia\*](#) (L.) S.F. Gray; Water Smartweed PEAM8 G5; FRT, TID, TWY

[\*Persicaria hydropiperoides\*](#) (Michx.) Small; Swamp Smartweed PEHY7 G5; FRT; Quite scattered in our area, but much more widespread in the e US (Kartesz 2022).

[\*Polygonum achoreum\*](#) Blake; Leathery Knotweed POAC3 G5; BUT, FRT

[\*Polygonum aviculare\*](#) L.; Sidewalk Knotweed POAV G5; BLK, BUT, CLK, FRT, TID, TWY

~ [\*Polygonum aviculare\* subsp. \*neglectum\*](#) (Bess.) Arcang.; Sidewalk Knotweed G5T5; \*FRN; Non-native; *Daines 1213* (KSP041143, WLU); pending expert confirmation, this specimen appears to confirm that this subspecies is present in ID; also see *Mansfield 21374* (CIC).

[\*Polygonum douglasii\*](#) Greene; Douglas' Knotweed PODO4 G5; BAN, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, TID, TWY

[\*Polygonum kelloggii\* var. \*kelloggii\*](#) Kellogg's Knotweed G4T4; CAR, FRN, FRT

[\*Polygonum kelloggii\* var. \*watsonii\*](#) (Small) Reveal; Kellogg's Knotweed G4T3?; CLK, \*FRN, FRT, TID, TWY; Synonym: *P. polygaloides* Wallich ex Meisn. subsp. *confertiflorum* (Nutt. ex Piper) Hickman; *Daines 1168* (KSP041098).

[\*Polygonum majus\*](#) (Meisn.) Piper; Wiry Knotweed POMA9 G4; BAN?, FRT, OND?; Disjunct in our area from the majority of the species' range in w ID, WA, OR, and CA (Kartesz 2022).

[\*Polygonum minimum\*](#) S. Wats.; Zigzag Knotweed POMI2 G5; TWY

[\*Polygonum polycnemoides\*](#) Jaubert & Spach; Himalayan Knotweed POPO3 G5; CAR, FRT; Non-native

[\*Polygonum polygaloides\*](#) Wallich ex Meisn.; White-Margin Knotweed POPO4 GNR; BON, FRT  
[\*Polygonum sawatchense subsp. sawatchense\*](#) Sawatch Knotweed GNRT4; FRN  
[\*Rumex acetosella\*](#) L.; Common Sheep Sorrel RUAC3 G5; BLK, CLK, FRT, TID, TWY; Non-native  
[\*Rumex crispus subsp. crispus\*](#) Curly Dock RUCRC G5T5; BON, BUT, CAR, CLK, FRT, MAD, TID, TWY; Non-native; Noxious in WY (Kartesz 2022).  
[\*Rumex fueginus\*](#) Phil.; Tierra del Fuego Dock RUFU3; FRT, TID  
[\*Rumex occidentalis\*](#) S. Wats.; Western Dock RUOC3 G5; BLK, FRT, MAD  
[\*Rumex patientia\*](#) L.; Patience Dock RUPA5 G5; LIN; Non-native; Documented in scattered counties throughout much of the n and w US (Kartesz 2022).  
[\*Rumex paucifolius\*](#) Nutt.; Alpine Sheep Sorrel RUPA6 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY  
[\*Rumex triangulivalvis\*](#) (Danser) Rech. f.; Triangular-Valved Dock RUTR3 G5; BLK?, BON, BUT, CAR, CLK, FRN, FRT, LEM, MAD, TID, TWY  
[\*Rumex utahensis\*](#) Rech. f.; Utah Willow Dock RUUT; BON, CLK, FRN, FRT, LIN, MAD, TID, TWY

### **Potamogetonaceae: Pondweed Family**

[\*Potamogeton alpinus\*](#) Balbis; Reddish Pondweed POAL8 G5; FRT, TWY  
[\*Potamogeton berchtoldii subsp. berchtoldii\*](#) Little Aguja Pondweed G5T5; FRT, TWY  
[\*Potamogeton epihydrus\*](#) Raf.; Ribbon-Leaf Pondweed POEP2 G5; FRT, TWY  
[\*Potamogeton friesii\*](#) Rupr.; Flat-Stalk Pondweed POFR3 G4; TWY; S2 in WY; of somewhat scattered distribution in the w US, but more widespread in the ne US (Kartesz 2022).  
[\*Potamogeton gramineus\*](#) L.; Grassy Pondweed POGR8 G5; FRT  
[\*Potamogeton illinoensis\*](#) Morong; Illinois Pondweed POIL G5; FRT  
[\*Potamogeton natans\*](#) L.; Broad-Leaf Pondweed PONA4 G5; BON, BUT, FRT, TWY; *Irwin 8232* (RM) was labeled Custer Co. but actually collected in Butte Co. in the Lemhi Range.  
[\*Potamogeton nodosus\*](#) Poir.; Long-Leaf Pondweed PONO2 G5; FRT  
[\*Potamogeton praelongus\*](#) Wulfen; White-Stem Pondweed POPR5 G5; FRT  
[\*Potamogeton richardsonii\*](#) (A. Benn.) Rydb.; Clasp-Leaf Pondweed PORI2 G5; CAR, FRT  
[\*Stuckenia filiformis subsp. alpina\*](#) (Blytt) Haynes, D.H. Les, & M. Kral; Slender-Leaf False Pondweed STFIA2 G5T5; FRT  
[\*Stuckenia pectinata\*](#) (L.) Böerner; Sago False Pondweed STPE15 G5; FRT, TWY  
[\*Stuckenia vaginata\*](#) (Turcz.) Holub; Sheathed False Pondweed STVA8 G5; FRT; SNR in ID; a boreal sp. that descends s to the Rocky Mts., UT, and nc US.  
[\*Zannichellia palustris\*](#) L.; Horned-Pondweed ZAPA G5; FRT

### **Primulaceae: Primrose Family**

[\*Androsace chamaejasme\*](#) Wulfen ex Host; Sweet-Flower Rock-Jasmine ANCH G5; TWY; S1S2 in WY; USFS Region 4 Sensitive Species; a boreal-alpine species that occurs from AK to n NM (Kartesz 2022).  
[\*Androsace filiformis\*](#) Retz.; Slender-Stem Rock-Jasmine ANFI G4; BLK, BUT, CLK, FRN, FRT, MAD, TID, TWY  
[\*Androsace montana\*](#) (Gray) Wendelbo; Rocky Mountain Dwarf-Primrose G4; FRT, LEM; Historically included in *Douglasia*.  
[\*Androsace occidentalis\*](#) Pursh; Western Rock-Jasmine ANOC2 G5; CAR?; Difficult to distinguish from *A. septentrionalis* L.; recently collected records may demonstrate its presence in the CTNF in Caribou Co., but expert input may be required to be certain: *Daines 2148, 2165* (KSP045011, KSP045028).  
[\*Androsace septentrionalis\*](#) L.; Pygmy-Flower Rock-Jasmine ANSE4 G5; BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, LIN, MAD, TID, TWY  
[\*Lysimachia ciliata\*](#) L.; Fringed Yellow-Loosestrife LYCI G5; BAN, FRN  
[\*Primula conjugens var. conjugens\*](#) Bonneville Shootingstar G5T4; BON, CLK, FRT, LEM, TID  
[\*Primula parryi\*](#) Gray; Brook Primrose PRPA G4; BLK, BUT, CLK, FRT, LEM, TWY  
[\*Primula pauciflora var. pauciflora\*](#) Dark-Throat Shootingstar G5T5; BAN, BON, BUT, CAR, CLK, FRT, LEM, TWY; Synonym: *Dodecatheon pulchellum* (Raf.) Merr.

## Ranunculaceae: Buttercup Family

- [\*Aconitum columbianum subsp. columbianum\*](#) Columbian Monkshood ACCOC3 G5T5; BAN, BLK, BON, FRN, FRT, MAD, TID, TWY
- [\*Actaea rubra subsp. arguta\*](#) (Nutt.) Hultén; Red Baneberry ACRUA8 G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY
- [\*Anemone cylindrica\*](#) Gray; Long-Head Thimbleweed, Windflower ANCY G5; BON?; Historically collected near the CTNF, near the Snake River by Swan Valley; could be found in CTNF borders.
- [\*Anemone drummondii\*](#) S. Wats.; Drummond's Windflower ANDRD G4T4; BUT?, CLK?; Reported from some collections in our area, but they may represent *A. lithophila* Rydb.; further collections or examination of existing specimens could help clarify the status of this species in the CTNF.
- [\*Anemone lithophila\*](#) Rydb.; Little Belt Mountain Windflower ANLI4 G4; BLK, BUT, CLK, FRT, LEM
- [\*Anemone lyallii\*](#) Britt.; Lyall's, Little Mountain Windflower ANLY G4; TWY; S1 in WY; previously documented from our area: *Marriott 11136* (RM) - a very disjunct population; otherwise, this species is mostly known from the Cascade Range and W Coast in WA, OR, and CA (Kartesz 2022).
- [\*Anemone multifida var. multifida\*](#) Red Windflower ANMUM3 G5T5; BON, BUT, CLK, FRT, LEM, TWY
- [\*Anemone multifida var. tetonensis\*](#) (Porter ex Britt.) C.L. Hitchc.; Teton Windflower ANMUT G5T4; BON, BUT, CLK, FRT, LEM, LIN, TWY
- [\*Anemone parviflora\*](#) Michx.; Small-Flower Windflower ANPA G5; FRT, TWY
- [\*Anemone piperi\*](#) Britt. ex Rydb.; Piper's Windflower ANPI G4; FRT?; *Markow 11041* (RM) was collected in "backyard of private home" in or near the CTNF on the Island Park Plateau, Fremont Co.; thus, it is unknown whether this species occurs within CTNF borders or not.
- [\*Aquilegia coerulea var. alpina\*](#) A. Nels.; Alpine Columbine AQCAA2 G5T3; TWY?; Known in our area only from a 1901 collection at the e border of the CTNF (Teton Pass), but apparently not collected since then in our area; endemic to four counties in w WY (Kartesz 2022).
- [\*Aquilegia coerulea var. coerulea\*](#) Colorado Blue Columbine AQCAC2 G5T4; BON?, CLK, FRT, LEM, LIN, MAD?, TID, TWY; The Madison and Bonneville Co. occurrences are not recognized by Kartesz (2022).
- [\*Aquilegia coerulea var. ochroleuca\*](#) Hook.; White Columbine AQCAO G5T4; BAN, BLK, BON, BUT, CAR, CLK, FRN, LEM, \*OND, TID, TWY; *Daines 836* (KSP040763).
- [\*Aquilegia flavescens\*](#) S. Wats.; Yellow Columbine AQFL G5; CLK, FRT, TWY; A specimen that appears to show hybridization between *A. formosa* Fisch. ex DC. and *A. flavescens* was recently collected in Clark Co.: *Snow 11919* (KSP039456).
- [\*Aquilegia formosa\*](#) Fisch. ex DC.; Crimson Columbine AQFO G5; BUT, CLK, \*FRN, FRT, LEM, OND; *Daines 971* (KSP040901).
- [\*Aquilegia jonesii\*](#) Parry; Blue Limestone Columbine AQJO G4; LIN; Somewhat narrowly distributed in Alberta, MT, and WY (Kartesz 2022); somewhat disjunct in Lincoln Co., WY, documented by one collection from Ferry Peak, on the border of the CTNF: *Lucas and Haderlie s.n.* (RM).
- [\*Beckwithia andersonii var. tenellus\*](#) (S. Wats.) Kartesz, ined.; Anderson's Pink-Buttercup G4T3/TNR; BAN?; Recorded by a 1932 collection: *R.J. Davis 144-32* (IDS); it is not known whether this population persists or if it was found in the CTNF or at lower elevations.
- [\*Caltha chionophila\*](#) Greene; Elkslip GNR?; BLK, FRT, TWY
- [\*Ceratocephala testiculata\*](#) (Crantz) Bess.; Curve-Seed-Butterwort CETE5 G5; BLK, BON, CLK, FRN, LIN, OND
- [\*Clematis columbiana var. columbiana\*](#) Columbian Virgin's-Bower CLCOC2 G5T5; BLK, BON, TID, TWY
- [\*Clematis hirsutissima var. hirsutissima\*](#) Sugarbowls, Bad-Hair-Day CLHIH G4T4; BLK, BON, BUT, CAR, CLK, FRT, LEM, LIN, MAD, TID, TWY
- [\*Clematis ligusticifolia\*](#) Nutt. ex Torr. & Gray; Deciduous Traveler's-Joy CLLI2 G5; BAN, BON
- [\*Clematis occidentalis var. grosseserrata\*](#) (Rydb.) J. Pringle; Western Blue Virgin's-Bower CLOGG G5T4; BON, CAR, FRT, MAD, TID, TWY
- [\*Consolida ajacis\*](#) (L.) Schur; Doubtful Knight's-Spur COAJ G5; OND; Non-native
- [\*Delphinium bicolor subsp. bicolor\*](#) Flat-Head Larkspur DEBIB G4T4; BON, BUT, CLK, FRT, LEM, MAD, TID, TWY

*Delphinium depauperatum* Nutt.; Slim Larkspur DEDE2 G5; CLK, FRN, MAD  
*Delphinium geveri* Greene; Geyer's Larkspur DEGE2 G5; CLK, FRT  
*Delphinium glaucescens* Rydb.; Electric Peak Larkspur DEGL2 G3; BUT, CLK, FRT; S3S4 in ID; a regional endemic that occurs mostly in c and e ID, sw MT, and nw WY (Kartesz 2022).  
*Delphinium nuttallianum* Pritz. ex Walp.; Two-Lobe Larkspur DENU2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, POW, TID, TWY  
*Delphinium occidentale* var. *cucullatum* (A. Nels.) R.J. Davis; Western Larkspur DEOCC2; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, TID, TWY; In WY, only known from Teton Co.; much more widespread in ID.  
*Delphinium occidentale* var. *occidentale* Western Larkspur; BAN, BLK, BON, FRN, FRT, LEM, TWY?  
*Delphinium scaposum* var. *andersonii* (Gray) Welsh; Anderson's Larkspur G5?T5; BON, CLK, FRT, LEM  
*Halerpestes cymbalaria* subsp. *saximontana* (Fern.) Moldenke; Alkali Buttercup HACYS G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRT, OND  
*Ranunculus acriformis* var. *montanensis* (Rydb.) L. Benson; Mountain Sharp-Leaf Buttercup RAACM G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, TID, TWY  
*Ranunculus acris* var. *acris* Tall Buttercup RAACA3 G5T5; CLK  
*Ranunculus adoneus* Gray; Alpine Buttercup RAAD G4; BON, LIN, MAD, TID, TWY  
*Ranunculus alismifolius* var. *alismellus* Gray; Water-Plantain Buttercup RAALA G5T5; BON, FRT  
*Ranunculus alismifolius* var. *davisii* L. Benson; Davis' Water-Plantain Buttercup RAALD G5T4; CAR  
*Ranunculus alismifolius* var. *montanus* S. Wats.; Mountain Water-Plantain Buttercup RAALM G5T4; BLK, BON, CAR  
*Ranunculus aquatilis* L.; White Water-Crowfoot RAAQ G5; BAN, BLK, CAR  
*Ranunculus aristatus* (Benth.) Christenh. & Byng; Bristly Mousetail G5; BAN, BLK, BON, FRT; Synonym: *Myosurus apetalus* C. Gay.  
*Ranunculus arvensis* L.; Hungerweed RAAR3 G5; BLK; Non-native  
*Ranunculus eschscholtzii* var. *eschscholtzii* Spruce-Fir Buttercup RAESE2 G5T5; FRT, MAD, TID, TWY  
*Ranunculus eschscholtzii* var. *suksdorfii* (Gray) L. Benson; Suksdorf's Spruce-Fir Buttercup RAESS G5; FRT  
*Ranunculus eschscholtzii* var. *trisectus* (Eastw.) L. Benson; Spruce-Fir Buttercup RAEST G5T3; FRT, TID, TWY  
*Ranunculus eximius* Greene; Tundra Buttercup RAEX G4; FRT, TID?; Reported by Evert (2010) from Teton Co., ID, but no voucher known (Kartesz 2022, RMH 2023).  
*Ranunculus flammula* var. *ovalis* (Bigelow) L. Benson; Lesser Spearwort RAFLO G5; FRT, TWY  
*Ranunculus flammula* var. *reptans* (L.) E. Mey.; Lesser Spearwort RAFLR G5T5; FRT, TWY  
*Ranunculus glaberrimus* var. *ellipticus* (Greene) Greene; Common Sagebrush Buttercup RAGLE G5T5; BAN, \*BLK, BON, BUT, CAR, CLK, FRT, LEM, OND, TID, TWY; *Daines 1529, 1543, 1649* (KSP041535, KSP041549, KSP041655).  
*Ranunculus gmelinii* DC.; Lesser Yellow Water Buttercup RAGM G5; BON, FRT  
*Ranunculus hyperboreus* Rottb.; Far-North Buttercup RAHY2 G5; BUT, FRT, LEM; *Irwin 8224* (RM) was labeled Custer Co. but actually collected in Butte Co. in the Lemhi Range.  
*Ranunculus inamoenus* var. *inamoenus* Graceful Buttercup RAINI2 G5T5; BON, CAR, FRT, LEM, LIN, TID, TWY  
*Ranunculus jovis* A. Nels.; Hillside Buttercup RAJO G4; BAN, BLK, BON, CAR, FRN, FRT, TID, TWY  
*Ranunculus longirostris* Godr.; Long-Beak Water-Crowfoot RALO2 G5; BAN, BLK, BON, CAR, CLK, FRT, TWY; Synonym: *R. aquatilis* L. var. *diffusus* With.  
*Ranunculus macounii* Britt.; Macoun's Buttercup RAMA2 G5; BON, CAR, CLK, FRT, TWY  
*Ranunculus minimus* (L.) E.H.L. Krause; Tiny Mousetail G5; FRT  
*Ranunculus orthorhynchus* var. *platyphyllus* Gray; Straight-Leaf Buttercup RAORP; BLK, BON, FRN, FRT, MAD, TID, TWY  
*Ranunculus pennsylvanicus* L. f.; Pennsylvania Buttercup RAPE2 G5; TWY  
*Ranunculus sceleratus* var. *multifidus* Nutt.; Cursed Buttercup RASCM G5T5; BAN, BLK, FRT  
*Ranunculus trichophyllus* Chaix; Thread-Leaf Water-Crowfoot RATR G5; BON; There could be other records of this passing in herbaria as *R. longirostris* Godr.  
*Ranunculus uncinatus* D. Don ex G. Don; Woodland Buttercup RAUN G5; BON, CAR, CLK, FRT, LIN, MAD, TID, TWY

*Thalictrum fendleri* var. *fendleri* Fendler's Meadow-Rue THFEF G5T4; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY  
*Thalictrum occidentale* Gray; Western Meadow-Rue THOC G5; BAN, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID  
*Thalictrum sparsiflorum* var. *saximontanum* Boivin; Few-Flower Meadow-Rue THSPS G5T4; CLK, FRT, TID, TWY  
*Thalictrum venulosum* Trel.; Veiny-Leaf Meadow-Rue THVE G5; BLK?, FRT?; Known from a historic specimen possibly in the CTNF, Fremont Co.: *C.L. Porter 7340* (WTU, RM) and from private land near Henry's Lake; also doubtfully reported from Bear Lake Co. from staminate specimens.  
*Trollius albiflorus* (Gray) Rydb.; White Globeflower TRAL8 G4; FRT, TWY

#### Rhamnaceae: Buckthorn Family

*Ceanothus velutinus* Dougl. ex Hook.; Buck-Brush, Tobacco-Brush CEVE G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY  
*Endotropis alnifolia* (L'Hér.) Hauenschild; Alder-Leaf American-Buckthorn G5; BON, FRT, TWY;  
 Synonym: *Rhamnus alnifolia* L'Hér.

#### Rosaceae: Rose Family

*Amelanchier alnifolia* var. *alnifolia* Saskatoon Service-Berry AMALA G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY  
*Amelanchier alnifolia* var. *pumila* (Torr. & Gray) Schneid.; Little Service-Berry AMALP2 G5T5; BAN?, BLK?, CLK?, FRT?, LIN, TID?, TWY; Reported from herbarium specimens for the CTNF, including a recent collection: *Daines 1377* (KSP041307), but not recognized in Idaho by Kartesz (2022).  
*Amelanchier utahensis* var. *utahensis* Utah Service-Berry AMUTU G5T5; BAN, BON, BOX, CAR, CLK, FRN, MAD, OND, TID, TWY  
*Cercocarpus ledifolius* var. *intermontanus* N. Holmgren; Intermountain Curl-Leaf Mountain Mahogany CELEI4 G5T5; BLK, BON, CAR, CLK, FRN, OND, TID, TWY  
*Cercocarpus ledifolius* var. *ledifolius* Curl-Leaf Mountain Mahogany CELEL G5T5; BON, BUT, CLK  
*Chamaebatiaria millefolium* (Torr.) Maxim.; Fernbush CHMI2 G4; BUT, CLK, LEM  
*Comarum palustre* L.; Purple Marshlocks COPA28 G5; FRT, TWY  
*Crataegus chrysocarpa* Ashe; Fire-Berry Hawthorn CRCH G5; CAR; *Shultz 11711* (UTC) documents this species in Caribou Co., but the variety is unknown (Kartesz (2022) does not recognize it in Caribou Co.).  
*Crataegus chrysocarpa* var. *chrysocarpa* Fire-Berry Hawthorn CRCHC2 G5T5; BON, FRT  
*Crataegus chrysocarpa* var. *piperi* (Britt.) Kruschke; Piper's Fire-Berry Hawthorn CRCHP2 G5T4; BON, \*OND; *Daines 1751* (KSP041758) was collected in Third Creek Canyon in the s Bannock Range, the s-most population documented to date (Kartesz 2022); this variety exhibits a somewhat disjunct, scattered distribution in and near e ID and is more common in n ID, w MT, and WA (Kartesz 2022).  
*Crataegus douglasii* Lindl.; Black Hawthorn CRDO2 G5; BAN, BON, CAR, FRN, FRT, MAD, TID, TWY  
*Crataegus rivularis* Nutt.; River Hawthorn CRRI G5; BAN, BON, CAR, FRN, OND  
*Dasiphora fruticosa* subsp. *floribunda* (Pursh) Kartesz; Shrubby Cinquefoil, Golden-Hardhack DAFRF G5T5; BLK, BON, BUT, CAR, CLK, FRT, LEM, TWY  
*Dryas hookeriana* Juz.; Hooker's Mountain-Avens DRHO2 G4; FRT, LEM, LIN  
*Drymocallis convallaria* (Rydb.) Rydb.; Cream Woodbeauty G4; BLK, BON, CAR, CLK, FRT, OND, TID?; *D. arguta* (Pursh) Rydb. has been reported from Teton Co., ID, Lincoln Co., WY, and other counties in the study area, but these are incorrect identifications (Kartesz 2022); some or many of these misidentifications may represent *D. convallaria*.  
*Drymocallis glabrata* Rydb.; Idaho Woodbeauty; BAN, BLK, BON, CAR, FRN, FRT, TID, TWY; S3? in WY, much more widespread in ID and w MT and other states (Kartesz 2022).  
*Drymocallis glandulosa* var. *glandulosa* Sticky Woodbeauty G5T4; BAN, BLK, FRN, TID

*Drymocallis pseudorupestris* var. *pseudorupestris* False Rock-Loving Woodbeauty G5T5; BLK, BON, CAR, CLK, FRN, FRT, LEM, MAD, TID, TWY

*Fragaria vesca* subsp. *bracteata* (Heller) Staudt; Woodland Strawberry FRVEB2 G5T5; BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY

*Fragaria virginiana* P. Mill.; Virginia Strawberry FRVI G5; TWY

*Fragaria virginiana* subsp. *glauca* (S. Wats.) Staudt; Virginia Strawberry FRVIG2 G5T5; BAN, BON?, CLK, FRN, FRT

*Fragaria virginiana* subsp. *platypetala* (Rydb.) Staudt; Virginia Strawberry FRVIP2 G5T5; BLK, BON, CAR, FRN, MAD, TID

*Geum aleppicum* Jacq.; Yellow Avens GEAL3 G5; BAN, CLK

*Geum macrophyllum* var. *perincisum* (Rydb.) Raup; Large-Leaf Avens GEMAP G5T5; BAN, BLK, BON, BUT, CAR, CLK, FRT, LIN, MAD, \*OND, TID, TWY; *Daines 1329* (KSP041259).

*Geum rossii* (R. Br.) Ser.; Ross' Avens GERO2 G5; BON

*Geum triflorum* var. *ciliatum* (Pursh) Fassett; Old-Man's-Whiskers GETRC2 G5T5; BAN, BON, CAR, CLK, FRT, LEM, OND, TID

*Geum triflorum* var. *triflorum* Old-Man's-Whiskers GETRT G5T5; BON, CLK, FRT, MAD, TID

*Holodiscus dumosus* (S. Wats.) Heller; Glandular Oceanspray HODU G5; BON, \*FRN; Synonym: *H. microphyllum* Rydb.; *Daines 2456* (KSP045317).

*Ivesia gordonii* (Hook.) Torr. & Gray; Gordon's Matted-Mousetail IVGO G4; BON, LEM

*Ivesia gordonii* var. *gordonii* Gordon's Matted-Mousetail G4TNR; BAN, BLK, CAR, FRN, FRT, TWY

*Ivesia gordonii* var. *ursinorum* (Jepson) Ertter & Reveal; Alpine Matted-Mousetail G4TNR; LEM?; S. & P. *Brunsfeld 344* (ID) was collected in the Lemhi Range, < 2 km beyond the nw border of the CTNF; this variety could occur in the CTNF on nearby ridges around Spring Mountain Canyon.

*Ivesia gordonii* var. *wasatchensis* N. Holmgren ex Ertter & Reveal; Wasatch Matted-Mousetail G4TNR; BLK, CAR, FRN

*Kelseya uniflora* (S. Wats.) Rydb.; One-Flower Kelseya KEUN G5; BUT, CLK, LEM; Relatively narrowly distributed in east-central ID, s MT, and n WY; a monotypic endemic genus (Kartesz 2022).

*Malus domestica* (Suckow) Borkh.; Cultivated Apple MADO4 G5; BON; Non-native; Collected by Markow (1994) in lower elevations of the CTNF not too far from the Snake River; not widely naturalized in the mountains of the study area.

*Petrophytum caespitosum* (Nutt.) Rydb.; Rocky Mountain Rockmat PECA12 G5; BON, CAR, CLK, LEM, MAD, \*OND, TWY; *Daines 1506* (KSP041512).

*Physocarpus malvaceus* (Greene) Kuntze; Mallow-Leaf Ninebark PHMA5 G4; BAN, BON, FRN, LIN, TWY

*Potentilla anserina* L.; Silverweed POAN5 G5; BON, CLK, FRT; Widespread at lower elevations below most Forest Service land, scattered and uncommon at higher elevations.

*Potentilla biennis* Greene; Biennial Cinquefoil POBI7 G5; BUT, CAR, FRT, OND

*Potentilla brevifolia* Nutt.; Short-Leaf Cinquefoil POBR5 G4; TWY

*Potentilla brunnescens* Rydb.; Glandular Cinquefoil POBR16; BLK, BON, CAR, FRT, LIN, MAD, TID, TWY

*Potentilla flabellifolia* Hook. ex Torr. & Gray; Fringe-Leaf Cinquefoil POFL3 G5; TID, TWY

*Potentilla glaucophylla* Lehm.; Mountain-Meadow Cinquefoil POGL18 G5; FRN, LEM, MAD, TID

*Potentilla glaucophylla* var. *glaucophylla* Mountain-Meadow Cinquefoil G5T5; BLK, BON, CLK, FRT, LIN, TWY

*Potentilla glaucophylla* var. *perdissecta* (Rydb.) Soják; Mountain-Meadow Cinquefoil G5T4; CLK, FRT

*Potentilla gracilis* var. *elmeri* (Rydb.) Jepson; Elmer's Graceful Cinquefoil POGRE G5T5; BUT, CAR, CLK, FRT, TWY

*Potentilla gracilis* var. *fastigiata* (Nutt.) S. Wats.; Graceful Cinquefoil POGRF2 G5T4; BLK, BON, CAR, CLK, FRN, FRT, LEM, TID, TWY

*Potentilla gracilis* var. *flabelliformis* (Lehm.) Nutt.; Graceful Cinquefoil POGRF G5T5; CAR, CLK, FRT, MAD, TID, TWY

*Potentilla hookeriana* Lehm.; Hooker's Cinquefoil POHO2 G4; CLK?; S1 in ID; *Brunsfeld 470* (ID) was identified as this species, but this species is not recognized in Clark Co. by INPS (2022); *Brunsfeld 470* may represent *P. modesta* Rydb.

[\*Potentilla jepsonii\*](#) Ertter; Jepson's Cinquefoil, False-Silk Cinquefoil G4; BUT, CLK, LEM; Ertter and Elven (2014) say this is "a replacement name for *P. pensylvanica* var. *ovium*"; Kartesz (2022) synonymizes *P. jepsonii* under *P. pensylvanica* L.

[\*Potentilla modesta\*](#) Rydb.; Modest Cinquefoil POMO12; CLK; S1 in ID; of somewhat scattered distribution from nw MT to sc UT and CO (Kartesz 2022); occurs in alpine areas (INPS 2022).

[\*Potentilla multisecta\*](#) (S. Wats.) Rydb.; Feather-Leaf Cinquefoil POMU9; BUT, CLK

[\*Potentilla norvegica\*](#) L.; Norwegian Cinquefoil PONO3 G5; FRT, TID, TWY

[\*Potentilla ovina\* var. \*decurrens\*](#) (S. Wats.) Welsh & Johnston; Sheep Cinquefoil POOVD G5TNR; BON, FRT, TWY

[\*Potentilla ovina\* var. \*ovina\*](#) Sheep Cinquefoil POOVO G5T5; BLK, BON, BUT, CAR, CLK, FRT, LEM, TID, TWY

[\*Potentilla pensylvanica\*](#) L.; Pennsylvania Cinquefoil POPE8 G5; CLK

[\*Potentilla pulcherrima\*](#) Lehm.; Soft Cinquefoil POPU9 G5; BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, TID, TWY

[\*Potentilla recta\*](#) L.; Sulphur Cinquefoil PORE5 G5; FRT, TID; Non-native

[\*Potentilla rivalis\*](#) Nutt.; Brook Cinquefoil PORI3 G5; FRT

[\*Poteridium occidentale\*](#) (Nutt.) Rydb.; Western-Burnet G4; FRT; Disjunct in our area, but more common in the Pacific NW; *D.W. Lindsay 1768* (ID, RICK?).

[\*Poterium sanguisorba\* subsp. \*balearicum\*](#) (Bourg. ex Nyman) Stace; Salad-Burnet G5T5; BAN, FRT; Non-native; Synonym: *Sanguisorba minor* Scop.

~ [\*Prunus emarginata\*](#) (Dougl.) Eat.; Bitter Cherry PREM G5; \*FRN; *Snow 11562* (KSP046001) is the first certain record for the CTNF-CNG and is the second county reported to harbor this taxon in se ID (*R.R. Wilson 628, 1513* (ID) were identified as *P. emarginata*, but they are non-flowering specimens); more widespread in an arc from the Pacific NW to NM (Kartesz 2022); this species has been documented in adjacent Cache Co., UT: *N.H. Holmgren 16786* (NY) and *Weston 1* (UTC).

[\*Prunus virginiana\* var. \*demissa\*](#) (Nutt.) Torr.; Western Chokecherry PRVID G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, MAD, OND, TID, TWY

[\*Purshia tridentata\* var. \*tridentata\*](#) Antelope Bitterbrush PUTRT(?) G5T5; BAN, BLK, BON, CAR, CLK, FRT, LIN, MAD, OND, TID, TWY

~ [\*Rosa acicularis\* subsp. \*sayi\*](#) (Schwein.) W.H. Lewis; ROACS G5T5; LIN

[\*Rosa nutkana\* subsp. \*macdougalii\*](#) (Holz.) Piper; Nootka Rose G5T5?; BAN, BLK, BON, CAR, FRT, LIN?, TID

[\*Rosa rubiginosa\* var. \*rubiginosa\*](#) Sweetbrier G5T5; CLK; Non-native; Known from the Clark Co. portion of the Lemhi Range: *Henderson 7570* (ID).

[\*Rosa woodsii\* subsp. \*ultramontana\*](#) (S. Wats.) Taylor & MacBryde; Mountain Woods' Rose ROWOU2 G5T4; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, TID, TWY

[\*Rosa woodsii\* subsp. \*woodsii\*](#) Plains Woods' Rose ROWOW G5T5; CLK, \*OND; Occurs mostly in the Great Plains and s Rocky Mts. (Kartesz 2022); *Daines 512* (KSP040440).

[\*Rubus idaeus\* subsp. \*strigosus\*](#) (Michx.) Focke; Common Red Raspberry RUIDS2 G5T5; BAN, BON, BUT, CAR, CLK, FRN, FRT, LIN, \*OND, TWY; *Daines 2627* (KSP045491).

[\*Rubus nutkanus\*](#) Moc. & Ser. Western Thimble-Berry G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY; Synonym: *Rubus parviflorus* Nutt.

[\*Sibbaldia procumbens\*](#) L.; Creeping Glow-Wort SIPR G5; BON, CAR, CLK, FRT, TID, TWY

[\*Sorbus scopulina\*](#) Greene; Cascade Mountain-Ash SOSOC2 G5; BAN, BLK, BON, CAR, FRN, FRT, LIN, MAD, \*OND, TID, TWY; *Daines 1386* (KSP041316).

[\*Spiraea lucida\*](#) Dougl. ex Greene; Shiny-Leaf Meadowsweet SPLU5 G5; BON, CLK, FRT, LIN, MAD, TID, TWY

[\*Spiraea splendens\* var. \*splendens\*](#) Alpine Meadowsweet SPSPS G5; FRT, TWY; More widespread to the n and w of the study area, in MT, c and n ID, WA, OR, and CA (Kartesz 2022).

## Rubiaceae: Madder Family

[\*Galium aparine\*](#) L. Sticky-Willy, Common Bedstraw GAAP2 G5; BAN, BLK, BON, BOX, CAR, CLK, FRT, LIN, MAD, \*OND, TID, TWY; *Daines 311, 1330* (KSP040240, KSP041260); a native species, very widespread in the US (Kartesz 2022).

[\*Galium bifolium\*](#) S. Wats.; Twin-Leaf Bedstraw GABI G5; BLK, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY

[\*Galium boreale\*](#) L.; Northern Bedstraw GABO2 G5; BAN, BLK, BON, BUT, CAR, CLK, FRT, LEM, LIN, MAD, TID, TWY

[\*Galium trifidum\* subsp. \*subbiflorum\*](#) (Wieg.) Piper; Three-Petal Bedstraw GATRS2 G5T5; BAN, CAR, CLK, FRT, TWY

[\*Galium trifidum\* subsp. \*trifidum\*](#) Three-Petal Bedstraw GATRT5 G5T5; FRT, TID, TWY

[\*Galium triflorum\*](#) Michx.; Fragrant Bedstraw GATR3 G5; BAN, BON, CAR, CLK, FRT, LIN, MAD, TID, TWY

[\*Kelloggia galioides\*](#) Torr.; Milky Kelloggia KEGA G5; FRT; Disjunct in our area, more widespread in parts of the w US, mostly from WA to AZ (Kartesz 2022).

## Salicaceae: Willow Family

~ [\*Populus alba\*](#) L.; White Poplar POAL7 G5; \*OND; Non-native; *Daines 1299* (KSP041229).

[\*Populus angustifolia\*](#) James; Narrow-Leaf Cottonwood POAN3 G5; BAN, BON, CLK, FRN, FRT, LIN, OND, TID, TWY

[\*Populus balsamifera\*](#) L.; Balsam Poplar POBA2 G5; FRT, TWY; Most of our plants are likely subsp. *trichocarpa* (Torr. & Gray ex Hook.) Brayshaw, but they have been mostly documented by vegetative specimens; Teton Co., WY is situated in the contact zone of subsp. *trichocarpa* and subsp. *balsamifera* (Kartesz 2022).

[\*Populus tremuloides\*](#) Michx.; Quaking Aspen POTR5 G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LIN, MAD, OND, POW, TID, TWY

[\*Populus X acuminata\*](#) Rydb. (pro sp.); [*angustifolia X deltoides*] POAC5; BLK

[\*Populus X brayshawii\*](#) Boivin [*angustifolia X balsamifera*] POBR7; TID, TWY; Teton County, ID is the only documented county for this taxon in all of Idaho (Kartesz 2022); its presence in our part of Teton Co., WY is based on *Evert 9273* (RM).

[\*Salix amygdaloides\*](#) Anderss.; Peach-Leaf Willow SAAM2 G5; FRN

[\*Salix barclayi\*](#) Anderss.; Barclay's Willow SABA3 G5; CLK, TWY

[\*Salix bebbiana\*](#) Sarg.; Gray Willow SABE2 G5; BLK, BON, CAR, CLK, FRT, LEM, OND, TID, TWY

[\*Salix boothii\*](#) Dorn; Booth's Willow SABO2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY; Perhaps one of the most common willow species in the CTNF-CNG.

[\*Salix brachycarpa\* var. \*brachycarpa\*](#) Short-Fruit Willow SABRB7 G5T5; FRT, LIN

[\*Salix candida\*](#) Flueggé ex Willd.; Sage Willow SACA4 G5; CAR?, FRT?, S2 in ID; collected near the CTNF, possibly within the CTNF boundaries; a boreal species that descends in the Rocky Mts. to CO, also nc and ne US.

[\*Salix commutata\*](#) Bebb; Under-Green Willow SACO2 G5; BAN, FRT; Reported as disjunct in Bannock Co.: *Wilson 3021* (SRP); otherwise more common to the n and w.

[\*Salix drummondiana\*](#) Barratt ex Hook.; Drummond's Willow SADR G4; BLK, BON, CAR, CLK, FRN, FRT, LIN, TID, TWY

[\*Salix eastwoodiae\*](#) Cockerell ex Heller; Sierran Willow SAEA G5; BLK, CAR, FRT, TWY

[\*Salix exigua\* var. \*exigua\*](#) Narrow-Leaf Willow SAEXE? G5; BAN, BON, CAR, CLK, FRT, OND, TID, TWY

[\*Salix geyeriana\*](#) Anderss.; Geyer's Willow SAGE2 G5; BAN, BLK, BON, BUT, CAR, CLK, FRT, MAD, TID, TWY

[\*Salix glauca\* var. \*villosa\*](#) (D. Don ex Hook.) Anderss.; Gray-Leaf Willow SAGLV G5T; BON, FRT, TWY; S2 in ID; also reported from Bear Lake Co.: *Piep 00.147* (UTC), but it seems unlikely that the identification is correct.

[\*Salix lasiandra\* var. \*caudata\*](#) (Nutt.) Sudworth; Inland Pacific Willow SALAC G5T5; BAN, BLK, BON, CLK, FRT, TWY



[\*Salix lemmonii\*](#) Bebb; Lemmon's Willow SALE G5; BLK, \*CAR, FRT, TWY; *Daines 153* (KSP040083); uncommon in se ID, but more widespread from CA to c ID, MT, and WY (Kartesz 2022).

[\*Salix lutea\*](#) Nutt.; Yellow Willow SALU2 G4; BAN, BLK, BON, CAR, FRT, OND

[\*Salix melanopsis\*](#) Nutt.; Dusky Willow SAME2 G5; BLK, CAR, LIN, TWY

[\*Salix nivalis\*](#) Hook.; Snow Willow SANI8 G5; BUT, CLK, FRT, LEM, TWY; Synonym: *S. reticulata* L. var. *nana* (Hook.) Anderss.

[\*Salix petrophila\*](#) Rydb.; Alpine Willow SAPE18 G5; FRT, TWY; Synonym: *Salix arctica* Pallas var. *petraea* (Anderss.) Bebb.

[\*Salix planifolia\*](#) Pursh; Tea-Leaf Willow SAPL2; BLK, FRT, TWY

[\*Salix pseudomonticola\*](#) Ball; False Mountain Willow SAPS G4; FRT, \*OND; S1 in ID; *Daines 115, 278* (KSP040045, KSP040207); these new records in Oneida Co. are disjunct from the nearest populations in east-central ID by >200 km; the habitats of these collections differ from that of at least some populations in east-central ID and Fremont Co.; further investigation is warranted and expert input would be useful.

[\*Salix scouleriana\*](#) Barratt ex Hook.; Scouler's Upland Willow SASC G5; BAN, BLK, BON, CAR, FRN, FRT, LIN, MAD, TID, TWY

[\*Salix wolfii\* var. \*idahoensis\*](#) Ball; Idaho Willow SAWOI2 G5TNR; BON, CLK, FRT

[\*Salix wolfii\* var. \*wolfii\*](#) Wolf's Willow SAWOW? G5T4; BLK, BON, CLK

[\*Salix X fragilis\*](#) L.; [*alba X euxina*] Crack, Brittle Willow SAFR G5; BAN, BLK; Non-native; Occurrence in Bannock Co. reported as questionable by Kartesz (2022).

#### **Santalaceae: Sandalwood Family**

[\*Arceuthobium americanum\*](#) Nutt. ex Engelm.; Lodgepole Pine Dwarf-Mistletoe ARAM G5; BLK, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY

[\*Arceuthobium campylopodum\*](#) Engelm.; Western Dwarf-Mistletoe ARCA3 G5; FRT; Somewhat disjunct in Fremont Co., otherwise known mostly from c ID to the Pacific NW and CA (Kartesz 2022).

[\*Arceuthobium douglasii\*](#) Engelm.; Douglas-Fir Dwarf-Mistletoe ARDO G5; FRN

~ [\*Comandra umbellata\* subsp. \*californica\*](#) (Eastw. ex Rydb.) Piehl; California Blueroot COUMC G5T4; \*FRN; *Snow 11576* (KSP046015), approximately 500 km disjunct from the nearest collections in NV and OR; otherwise known mostly from WA, OR, CA, s NV, and AZ (Kartesz 2022).

[\*Comandra umbellata\* subsp. \*pallida\*](#) (A. DC.) Piehl; Pale Blueroot COUMP G5T5; BAN, BLK, BON, CAR, CLK, FRT, LEM, LIN, MAD, OND, TID, TWY

#### **Sapindaceae: Soapberry Family**

[\*Acer glabrum\* var. \*douglasii\*](#) Douglas' Rocky Mountain Maple (Hook.) Dippel ACGLD4 G5T5; BAN?, FRN?; Some or all of the specimens from our area are likely to be mis-identifications (*Dieffenbach TNF-0634* (IDS) from Bonneville Co. appears to represent var. *glabrum*, for instance).

[\*Acer glabrum\* var. \*glabrum\*](#) Rocky Mountain Maple ACGLG2 G5T5; BAN, BLK, BON, BUT, CCH, CAR, CLK, FRN, FRT, LIN, MAD, OND, TID, TWY; A common large shrub to small tree in coniferous forests in our area.

[\*Acer grandidentatum\* var. \*grandidentatum\*](#) Bigtooth, Canyon Maple ACGRG G4T4; BAN, BLK, BON, BOX, CAR, FRN, FRT, LIN, OND, TID; More widespread to our south, but populations extend up the ID/WY border, as far n as Gallatin Co., MT (Kartesz 2022).

[\*Acer negundo\*](#) L.; Ash-Leaf Maple, Box-Elder ACNE2 G5; FRN

#### **Saxifragaceae: Saxifrage Family**

[\*Heuchera cylindrica\*](#) Dougl.; Poker Alumroot HECY2 G5; CLK, FRT, LEM

[\*Heuchera grossulariifolia\*](#) Rydb.; Gooseberry-Leaf Alumroot HEGR8 G4; BON, CLK, LEM

[\*Heuchera parvifolia\*](#) Nutt. ex Torr. & Gray; Little-Leaf Alumroot HEPAl1 G5; BAN, BLK, BON, BUT, CAR, CLK, FRN, FRT, LEM, MAD, OND, TID, TWY

[\*Heuchera rubescens\*](#) Torr.; Pink Alumroot HERU G5; BLK, FRN

[\*Lithophragma glabrum\*](#) Nutt.; Bulbous Woodlandstar LIGL2 G4; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, OND, POW, TID, TWY

[\*Lithophragma parviflorum\* var. \*parviflorum\*](#) Prairie Woodlandstar LIPAP3 G5T5; BAN, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, POW, TID, TWY

[\*Lithophragma tenellum\*](#) Nutt.; Slender Woodlandstar LITE4 G5; CLK

[\*Micranthes nidifica\*](#) (Greene) Small; Peak Pseudosaxifrage G4; FRN, TWY

[\*Micranthes occidentalis\*](#) (S. Wats.) Small; Mountain Pseudosaxifrage MIOC G5; BON, CLK, FRT, TWY; Uncommon in e ID, but more widespread in MT, c and n ID, e WA, OR, and CA (Kartesz 2022).

[\*Micranthes odontoloma\*](#) (Piper) Heller; Streambank Pseudosaxifrage MIOD2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY

[\*Micranthes rhomboidea\*](#) (Greene) Small; Diamond-Leaf Pseudosaxifrage MIRH G4; BON, BUT, CLK, FRT, LEM, MAD, TID, TWY

[\*Micranthes subapetala\*](#) (E. Nels.) Small; Yellowstone Pseudosaxifrage G3?; CLK, FRT; A broadly regional endemic that occurs in nw WY, w MT, and adjacent parts of ID (Kartesz 2022).

[\*Ozomelis stauropetala\*](#) (Piper) Rydb.; Side-Flower Mitrewort OZST G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, OND, TID, TWY

[\*Pectiantia pentandra\*](#) (Hook.) Rydb.; Alpine Miterwort PEPE16 G5; BAN, BON, CAR, CLK, FRN, FRT, MAD, \*OND, TID, TWY; *Daines 2070* (KSP044932).

[\*Saxifraga austromontana\*](#) Wieg.; Matted Saxifrage SAAU7 G5; FRT, LEM, TWY

[\*Saxifraga cernua\*](#) L.; Nodding Saxifrage SACE2 G4; FRT; S2 in ID; a fairly widespread boreal species that is somewhat widespread in the US from CO to MT (Kartesz 2022).

[\*Saxifraga cespitosa\*](#) L.; Tufted Alpine Saxifrage SACA50 G5; BUT, FRT, LEM

[\*Saxifraga hyperborea\*](#) R. Br.; Pygmy Saxifrage SAHY G5; TWY

[\*Saxifraga oppositifolia\* subsp. \*oppositifolia\*](#) Purple Mountain Saxifrage SAOPO G4T4; BUT, FRT, LEM, TWY

[\*Telesonix heucheriformis\*](#) Rydb.; False Saxifrage TEHE5 G4; FRT, LIN, TWY; S1 in ID; peripheral in se ID, more common in WY and MT.

#### **Scheuchzeriaceae: Rannoch-Rush Family**

[\*Scheuchzeria palustris\* subsp. \*americana\*](#) (Fern.) Hultén; Rannoch-Rush, Pod Grass SCPAA3 G5T5; FRT?, TWY; S3 in ID, S1 in WY; significantly disjunct in our area; otherwise occurs mostly in the ne and nc US and Pacific NW, also in c and n ID and w MT (Kartesz 2022); documented near the CTNF in Yellowstone Park, Fremont Co. (Moseley et al. 1991).

#### **Scrophulariaceae: Figwort Family**

[\*Limosella aquatica\*](#) L.; Awl-Leaf Mudwort LIAQ G5; BON, FRN, FRT

[\*Scrophularia lanceolata\*](#) Pursh; Lance-Leaf Figwort SCLA G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, TID, TWY

[\*Verbascum thapsus\*](#) L.; Great, Woolly Mullein VETH G5; BON, CLK, FRT, LIN, \*OND, TID, TWY; Non-native; *Daines 1315* (KSP041245).

#### **Solanaceae: Potato, Nightshade Family**

[\*Hyoscyamus niger\*](#) L.; Black Henbane HYNI G5; BAN, CLK, FRT, LEM, OND; Non-native; Noxious in ID (Kartesz 2022).

[\*Solanum dulcamara\*](#) L.; Bitter Nightshade SODU G5; CLK, OND; Non-native

#### **Tofieldiaceae: Featherling Family**

[\*Triantha occidentalis\* subsp. \*montana\*](#) (C.L. Hitchc.) Packer; Western False Asphodel TROCM2 G5T4; TWY

**Typhaceae: Cat-Tail Family**

[\*Sparganium angustifolium\*](#) Michx.; Narrow-Leaf Burr-Reed SPAN2 G5; TWY  
[\*Sparganium emersum\*](#) Rehm.; European Burr-Reed SPEM2 G5; CAR, FRT, TWY  
[\*Sparganium natans\*](#) L.; Arctic Burr-Reed SPNA G5; FRT, TWY  
[\*Typha latifolia\*](#) L.; Broad-Leaf Cat-Tail TYLA G5; FRT, TWY

**Urticaceae: Nettle Family**

[\*Parietaria pennsylvanica\*](#) Muhl. ex Willd.; Pennsylvania Pellitory PAPE5 G5; CLK, FRT  
[\*Urtica dioica\*](#) L.; Stinging Nettle URDI G5; BLK, OND  
[\*Urtica dioica subsp. gracilis\*](#) (Ait.) Seland.; Stinging Nettle URDIG G5T5; BON, BUT, CAR, CLK, FRT, LIN, MAD, TID, TWY; *U. dioica* subsp. *gracilis* can be alternatively treated at the species level (Hitchcock and Cronquist 2018).  
[\*Urtica dioica subsp. holosericea\*](#) (Nutt.) Thorne; Stinging Nettle URDIH G5T5; CAR, CLK, FRT, OND

**Verbenaceae: Verbena Family**

[\*Verbena bracteata\*](#) Cav. ex Lag. & Rodr.; Carpet Vervain VEBR G5; BON, CLK, FRT

**Viburnaceae: Arrow-Wood Family**

[\*Sambucus nigra subsp. cerulea\*](#) (Raf.) R. Bolli; Black Elderberry SANIC6 G5T5; BAN  
[\*Sambucus racemosa\*](#) L.; Red Elderberry SARA2 G5; BAN, BLK, BON, CAR, CLK, FRN, FRT, MAD, TID, TWY

**Violaceae: Violet Family**

[\*Viola adunca var. adunca\*](#) Hook-Spur Violet VIADA G5T5; BAN, BLK, BON, CAR, CLK, FRN, FRT, LEM, LIN, MAD, OND, POW, TID, TWY  
[\*Viola canadensis var. rugulosa\*](#) (Greene) C.L. Hitchc.; Canadian White Violet VICAR G5T5; BAN, BON, FRT, MAD, TID, TWY  
[\*Viola macloskeyi subsp. pallens\*](#) (Banks ex Ging.) M.S. Baker; Smooth White Violet VIMAP3 G5T5; FRT, TID, TWY  
[\*Viola nephrophylla\*](#) Greene; Northern Bog Violet VINE G5; BLK, CAR, FRT, TID, TWY  
[\*Viola orbiculata\*](#) Geyer ex Holz.; Evergreen Yellow Violet VIOR G5; TID, TWY  
[\*Viola palustris\*](#) L.; Alpine-Marsh Violet VIPA4 G5; CLK, FRT, MAD  
[\*Viola praemorsa subsp. linguifolia\*](#) (Nutt.) M.S. Baker & J.C. Clausen ex M.E. Peck; Upland Yellow Violet VIPRL G5T5; BLK, BON, CAR, CLK, FRN, FRT, LIN, MAD, OND, POW, TID, TWY  
[\*Viola purpurea subsp. venosa\*](#) (S. Wats.) M.S. Baker & J.C. Clausen; Goose-Foot Yellow Violet VIPUV2 G5T4; BAN, BLK, BON, CAR, FRT, LIN, OND, TID, TWY  
[\*Viola renifolia\*](#) Gray; Kidney-Leaf White Violet VIRE2 G5; TWY; S1 in WY; of somewhat sparse distribution in the w US, more widespread in the ne US (Kartesz 2022).  
[\*Viola tricolor\*](#) L.; Johnny-Jump-Up VITR G5; FRT; Non-native  
[\*Viola utahensis\*](#) M.S. Baker & J.C. Clausen ex Baker; Utah Violet VIUT G4; BAN, BLK, BOX, FRN, TWY  
[\*Viola vallicola\*](#) A. Nels.; Valley Violet VIVA G5; BAN, BLK, BON, BUT, CAR, CLK, FRT, OND, TID

### *Python Code*

This python code was used to convert a Microsoft Excel spreadsheet containing much of the annotated checklist data into a Microsoft Word document to facilitate the creation of the final formatted annotated checklist, including the automated hyperlinking of species names.

```
import pandas as pd
import docx
from docx.enum.dml import MSO_THEME_COLOR_INDEX

def add_hyperlink(paragraph, text, url):
    # This gets access to the document.xml.rels file and gets a new relation id value
    part = paragraph.part
    r_id = part.relate_to(url, docx.opc.constants.RELATIONSHIP_TYPE.HYPERLINK, is_external=True)

    # Create the w:hyperlink tag and add needed values
    hyperlink = docx.oxml.shared.OxmlElement('w:hyperlink')
    hyperlink.set(docx.oxml.shared.qn('r:id'), r_id, )

    # Create a w:r element and a new w:rPr element
    new_run = docx.oxml.shared.OxmlElement('w:r')
    rPr = docx.oxml.shared.OxmlElement('w:rPr')

    # Join all the xml elements together add add the required text to the w:r element
    new_run.append(rPr)
    new_run.text = text
    hyperlink.append(new_run)

    # Create a new Run object and add the hyperlink into it
    # this is where the original form was different and this allows
    # font specifications
    r = paragraph.add_run ()
    r._r.append (hyperlink)

    # A workaround for the lack of a hyperlink style (doesn't go purple after using the link)
    # Delete this if using a template that has the hyperlink style in it
    r.font.color.theme_color = MSO_THEME_COLOR_INDEX.HYPERLINK
    r.font.underline = True
    r.font.italic = True

    return hyperlink

# Load the Excel file
df =
pd.read_excel('/Users/rld2/Desktop/Michael_list/Master_List_Vascular_Flora_of_CTNF_CNG_Apr_1_20
23.xlsx')
#df = pd.read_excel('/Users/rld2/Desktop/Michael_list/Sample_input_with_additions.xlsx')
print(df.shape[1])
# Create a new Word document
doc = docx.Document()
```

```

# Create the hyperlink template plus county abbreviations in one list
coabbrev = []
coabbrev.append('https://swbiodiversity.org/seinet/taxa/index.php?taxon=')
coabbrev.append(0)
coabbrev.append(0)
coabbrev.append('BAN')
coabbrev.append('BLK')
coabbrev.append('BON')
coabbrev.append('BOX')
coabbrev.append('BUT')
coabbrev.append('CCH') #CCH?
coabbrev.append('CAR')
coabbrev.append('CLK')
coabbrev.append('FRN')
coabbrev.append('FRT')
coabbrev.append('LEM')
coabbrev.append('LIN')
coabbrev.append('MAD')
coabbrev.append('OND')
coabbrev.append('POW')
coabbrev.append('TID')
coabbrev.append('TWY')
coabbrev.append('Non-native')

```

```

p = doc.add_paragraph()
p.add_run(df.iloc[0,2]).bold = True

```

```

# Add a paragraph to the document for each row in the DataFrame
for i in range(df.shape[0]):

```

```

    coflag = 0
    p = doc.add_paragraph()
    if i != 0 and df.iloc[i,2] != df.iloc[i-1,2]:
        print(df.iloc[i,2])
        # Print family name on its own line
        p.add_run(df.iloc[i,2]).bold = True
        p = doc.add_paragraph()

```

```

# Add a run to the paragraph for each column in the row

```

```

# Add the hyperlinked species name first

```

```

linkstr = coabbrev[0]+df.iloc[i,0]
hyperlink = add_hyperlink(p, df.iloc[i,0],linkstr)

```

```

# Notes section

```

```

j = 1
if isinstance(df.iloc[i,j], str):
    # Add text to the run if the value is a string

```

```

#     p.add_run('; ')
    p.add_run(' ')
    p.add_run(df.iloc[i,j])
elif pd.isna(df.iloc[i,j]):
    # Add an empty string to the run for NaN values
    p.add_run("")

```

```

# Counties

```

```

for j in range(3,df.shape[1]-2):
    # Handle "Comments" separately

```

```

if j == 3:
    # Add a semicolon after species/notes
    p.add_run('; ')
#   if j > 1 and df.iloc[i,j] == 'x':
if df.iloc[i,j] == 'x' or df.iloc[i,j] == '?':
    # Add county abbreviation
    if coflag == 1:
        p.add_run(', ')
    else:
        coflag = 1
        p.add_run(coabbrev[j])
    if df.iloc[i,j] == '?':
        p.add_run('?')
elif isinstance(df.iloc[i,j], str) and j != 1:
    # Don't print the family
    # Add text to the run if the value is a string
    p.add_run(df.iloc[i,j])
elif pd.isna(df.iloc[i,j]):
    # Add an empty string to the run for NaN values
    p.add_run("")
else:
    # Convert numeric values to strings and add them to the run
    p.add_run(str(df.iloc[i,j]))

# Add a hyperlink to the run if the value is a URL
if isinstance(df.iloc[i,j], str) and df.iloc[i,j].startswith('http'):
    p.add_run().add_hyperlink(p,df.iloc[i,j], df.iloc[i,j], None)
    # p.italic = True # no change

# non-native:
if pd.isna(df.iloc[i,df.shape[1]-2]):
    # if non-native blank, do nothing
    dummy = 1
else:
    # otherwise add it with a leading semicolon
    p.add_run('; ')
    p.add_run(coabbrev[df.shape[1]-2])

# Comment column
if pd.isna(df.iloc[i,df.shape[1]-1]):
    # if comment blank, do nothing
    dummy = 1
else:
    # otherwise add it with a leading semicolon
    p.add_run('; ')
    p.add_run(df.iloc[i,df.shape[1]-1])

# Save the Word document
doc.save('/Users/rld2/Desktop/Michael_list/Master_List_Vascular_Flora_of_CTNF_CNG_Apr_1_2023.docx')

```