



Annotated Checklist of Vascular Flora

Curecanti National Recreation Area

Natural Resource Technical Report NPS/NCPN/NRTR—2009/232



ON THE COVER

Orange sneezeweed (*Dugaldia hoopesii*). Photograph by Walter Fertig.

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Authors

Tim Hogan
Nan Lederer
Dina Clark
University of Colorado Museum Herbarium
218 UCB
Boulder, CO 80309

Walter Fertig
Moenave Botanical Consulting
1117 W. Grand Canyon Dr.
Kanab, UT 84741

Editing and Design

Alice Wondrak Biel
Northern Colorado Plateau Network
National Park Service
P.O. Box 848
Moab, UT 84532

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Abstract

In 2005–2006, the National Park Service’s Northern Colorado Plateau Network received funding to develop a revised checklist of the vascular plant flora of Curecanti National Recreation Area (NRA). This entailed a thorough review of existing literature, re-examination of specimens from the Curecanti NRA herbarium and other state and national museum collections, and additional field work to corroborate unverified species reports and locate new species. Based on this study, 679 vascular plant taxa have been confirmed or reliably reported as occurring in the unit (527 are known from validated herbarium specimens and 152 from literature reports). Another 85 species formerly considered part of the Curecanti NRA flora have now been shown to be falsely reported. The current flora of Curecanti NRA represents 21.6% of the known flora of Colorado and 35.8% of the flora of the Colorado Plateau ecoregion within Colorado. Although no plant taxa are listed as threatened or endangered, at least 15 were formerly candidates for federal listing or are currently considered species of concern by the state natural heritage program. Introduced plants make up 13.1% of the recreation area flora (89 species), of which 23 species are considered noxious weeds by the State of Colorado. Further surveys in Curecanti NRA are likely to find additional new species (at least 159 taxa are known from similar habitats outside the recreation area boundary), especially among late-flowering, weedy, or wetland taxa.

Acknowledgements

We would like to thank the following individuals for their assistance with this project. Dr. Angela Evenden, botanist and former leader of the Northern Colorado Plateau Network (NCPN) program in Moab, Utah, was an active proponent of this project and helped secure funding for field work and herbarium studies in 2006. Libby Nance (former NCPN database specialist) and Margaret Beer (former NCPN database manager) assisted with development and quality control of the recreation area's NPSpecies database. Libby Nance, Janet Coles, and Helen Thomas also provided data from recent vegetation mapping and wetland inventories at Curecanti National Recreation Area (NRA). Researcher Larry Stevens shared his collection data from field work in 2005. Thanks to Curecanti NRA staff, especially Danguole Bockus and Paul Zaenger, for providing logistical help with the herbarium-review phase of the project and providing corrections to the draft manuscript. To any others whom we may have inadvertently forgotten, please accept our apologies (and thanks). Funding for this project was provided by the National Park Service.

1 Introduction

In 2006, the National Park Service (NPS) established a cooperative agreement with the University of Wyoming, through the Rocky Mountains Cooperative Ecosystem Studies Unit, to produce a series of technical reports summarizing the vascular plant flora of each of the 16 national park units of the Northern Colorado Plateau Network (NCPN). These reports are based on existing information in the park service's NPSpecies database system and augmented by further data mining, reviews of state and regional herbaria, and new field surveys to resolve the status of many reported and unconfirmed species. The objective of these reports is to summarize the current state of knowledge of the flora of each park for the benefit of NPS biologists and interpretive staff, outside researchers, and the general public. The following report addresses the vascular flora of Curecanti National Recreation Area, in west-central Colorado. Other NCPN park units are addressed in separate reports.

1.1 Background and justification

One of the primary missions of the NPS is “to conserve unimpaired the natural and cultural resources and values of the national park system for the enjoyment of this and future generations” (NPS 2000). Due to their high degree of protection and distribution across a wide variety of habitat types, the nation's national park units make a significant contribution to the protection of biological diversity (Noss and Cooperrider 1994). Unfortunately, the full contribution of the National Park System is not known, as many park units have traditionally lacked comprehensive biological inventories or monitoring programs to identify the composition and condition of their biota. Knowing the status of park flora and fauna is critical for effective park management and for systematically identifying and filling gaps in the nation's protected area network (Margules and Pressey 2000).

To rectify this shortcoming, Congress passed the National Parks Omnibus Management Act in 1998, to provide guidance and funding for an inventory and monitoring program across the entire National Park System. Since 2000, the NCPN Inventory and Monitoring Program has

been developing and verifying species lists of vertebrates and vascular plants for each park unit in the network (Evenden et al. 2002). This effort has entailed reviewing existing species checklists, corroborating the identification of specimens in park museum and herbarium collections, locating additional specimen records from other museums, mining relevant literature and datasets, and conducting field surveys to locate new taxa or confirm unsubstantiated reports.[†] All of these data have been synthesized in NPSpecies, the park service's standardized database for documenting park status (present, probably present, unconfirmed, falsely reported), abundance, residency, nativity, and rarity. With the production of a technical series of reports on the flora of each park, the NPSpecies data will now be available to a broader audience.

1.2 Objectives

The objectives of this project were to:

1. Document the current status (present, reported, potential, or falsely reported) of all vascular plant species that have been cited as occurring in Curecanti National Recreation Area, based on a review of herbarium collections and past literature.
2. Develop an annotated checklist of the flora of Curecanti National Recreation Area, with supplemental information on taxonomic synonyms, distribution, within-park abundance, flowering period, growth form, nativity, habitat, and sources for each record.

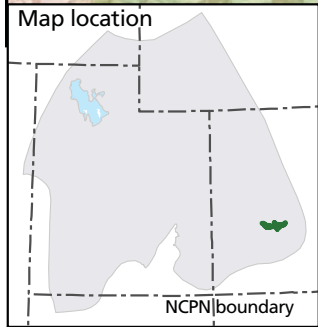
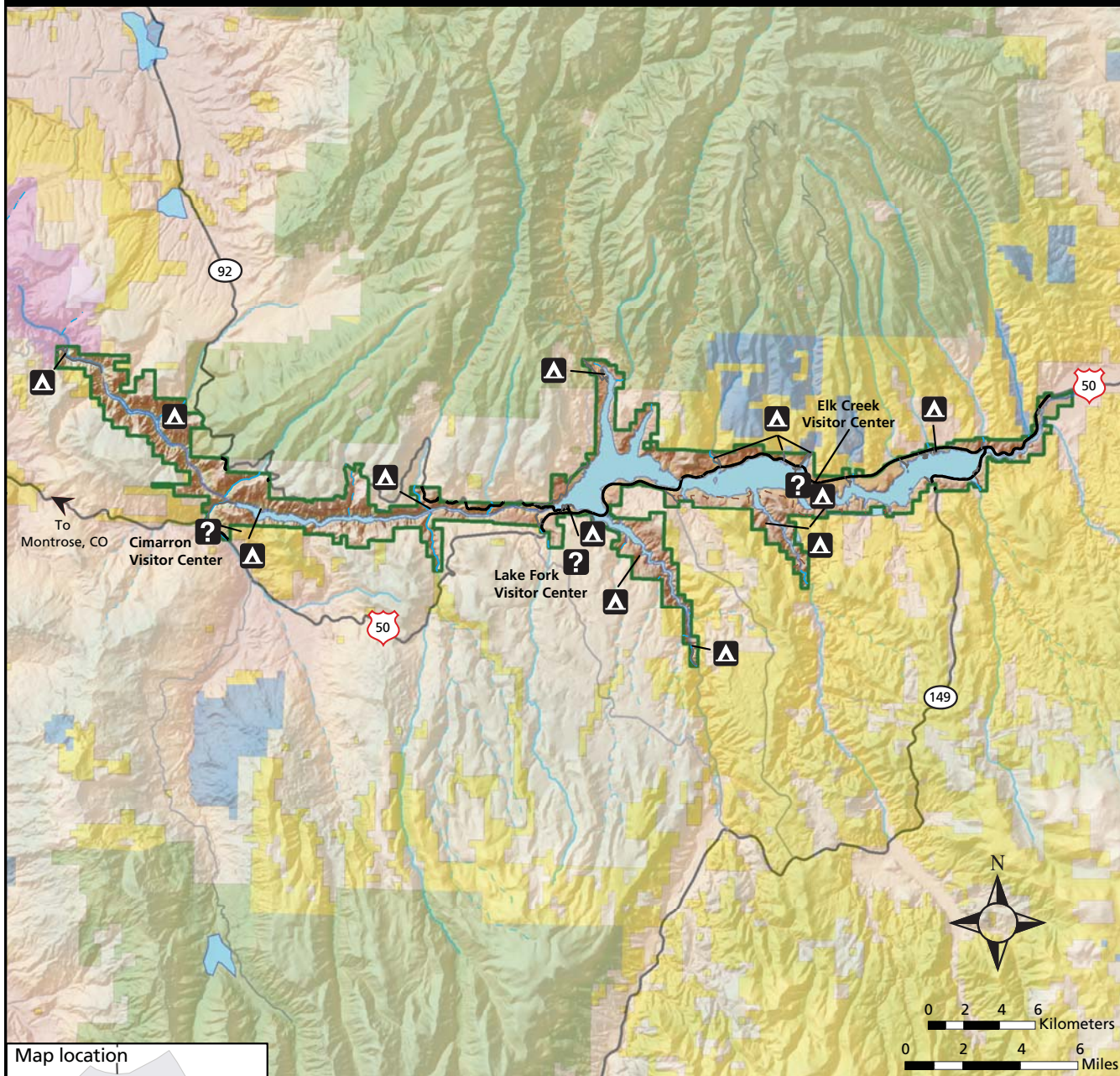
1.3 Study area

1.3.1 History and setting

The area that would eventually become Curecanti National Recreation Area (Figure 1.3.1) was explored as a possible railroad route by Captain John Gunnison in 1853. Gunnison advised against the route, but ultimately, the Denver and Rio Grande Railroad constructed a narrow-gauge rail line along the upper reach of the drainage (above the Black Canyon of the Gunnison) that operated from 1882 to 1949. Several small towns sprang up along the railroad and Gunnison's namesake river, including Iola, Cebolla, Sapinero, and Cimarron (NPS 1997).

[†]Taxa refer to all named species, subspecies, and varieties.

Curecanti National Recreation Area Colorado



Established February 11, 1965
 1,981–2,896 m elevation
 (6,500–9,500 ft elevation)
 16,986 ha (41,972 ac)



Legend			
	Intermittent streams		Park boundary (NPS)
	Perennial streams		U.S. Bureau of Land Management
	Rivers		U.S. Forest Service
	Paved roads		State
	Unpaved roads		Private
	Unimproved/4WD roads		Black Canyon of the Gunnison NP
	Reservoirs and lakes		

MAP CREATED BY ANETH WIGHT, NCPN (DERIVED FROM EVENDEN ET AL. 2002)

Figure 1.3.1. Location of Curecanti National Recreation Area, Gunnison and Montrose counties, Colorado.

Water development projects in the twentieth century forever altered the Curecanti region. From 1905 to 1909, the six-mile-long Gunnison Tunnel was blasted through bedrock to divert water from the Gunnison River to arid farmland in the Uncompahgre Valley. In 1956, Congress passed the Colorado River Storage Project Act, which constructed three dams along the Gunnison River to provide hydroelectric power, flood control, irrigation water, and reservoirs for recreational activity. The first dam was completed by the U.S. Bureau of Reclamation (BOR) in 1965, at the confluence of Soap Creek and the Gunnison River. This impoundment created Blue Mesa Reservoir, Colorado's largest body of water, but also flooded much of the valley floor and inundated the historic towns of Iola, Cebolla, and Sapinero. Two additional reservoirs were created by the Morrow Point Dam, completed in 1968, and the Crystal Dam, in 1976. The series of dams and reservoirs along the Gunnison River comprise the Wayne N. Aspinall storage unit, named to commemorate the Colorado congressman and longtime advocate of western water development (NPS 1997).

In February 1965, the BOR entered into a Memorandum of Agreement with the NPS to jointly manage the reservoirs and surrounding valley bottom as the Curecanti National Recreation Area. The BOR retained management authority for the dams, while the NPS became responsible for protecting the area's natural, historic, and archeological resources and providing recreational opportunities for the public (Evenden et al. 2002).

Curecanti National Recreation Area (NRA) is located approximately 15 miles west of Gunnison in Gunnison and Montrose counties, Colorado, and encompasses 41,972 acres (16,986 ha). The unit extends from the southeastern corner of Black Canyon of the Gunnison National Park to the east end of Blue Mesa Reservoir, a distance of nearly 36 air miles, but averages just over one mile wide. The unit ranges in elevation from 6,500 feet (1,981 m) at the East Portal to 9,500 feet (2,896 m) near Sheep Knob. Average annual precipitation is 11 inches (280 mm), the majority coming in spring and summer. Temperatures can range from -30° F in winter to 85° F in summer (Evenden et al. 2002).

1.3.2 Geology

The Gunnison River became entrenched within its modern drainage 10–15 million years ago, following the last major volcanic eruptions of the ad-

jacent San Juan and West Elk Mountains and the most recent period of regional uplift of the Colorado Plateau and southern Rocky Mountains. In the Curecanti area, the river sliced through the uppermost blanket of Tertiary-age volcanic mud flows and ash of the West Elk Breccia to expose a series of Jurassic and Cretaceous sedimentary layers. In order of increasing age, these include deep marine clays of the Mancos Formation, beach and shoreline mudflats of the Dakota Sandstone, soft mudstones of the Morrison Formation (noted for its dinosaur fossils), and the Sahara-like dunes of the Entrada Sandstone. Older Mesozoic and Paleozoic sediments have long since eroded from the area. At the lowest reach of the canyon, the Gunnison River exposes Precambrian gneisses nearly two billion years old (Chronic 1988). These dark gneiss beds form the walls of the Black Canyon of the Gunnison, immediately downstream of Curecanti NRA.

1.3.3 Vegetation

There are four general vegetation types present within Curecanti NRA (for a more detailed description of plant communities, consult NCPN in ed. and Van Pelt et al. 1991). The banks of the three main reservoirs and the Gunnison River are bordered by a narrow band of riparian vegetation dominated by woodlands of narrow-leaved cottonwood (*Populus angustifolia*) or box elder (*Negundo aceroides*). Backwater areas may be locally dominated by coyote willow (*Salix exigua*) or other willow species, paniced bulrush (*Scirpus microcarpus*), and beaked sedge (*Carex utriculata*). Moist, shady, north-facing, mossy cliffs within the canyon bottom may be locally inhabited by wax currant (*Ribes cereum*) and Purpus' sullivantia (*Sullivantia hapemanii* var. *purpusii*). Open, rocky areas and mudflats along the reservoirs are often dominated by weedy annuals adapted to disturbed or early successional sites.

South-facing rocky slopes and mesa tops above the river channel are typically dominated by big sagebrush (*Seriphidium tridentatum*)/needle-and-thread (*Hesperostipa comata*) grasslands interspersed with thickets of Gambel oak (*Quercus gambelii*). Rocky slopes are also frequently clothed by pygmy woodlands of two-needle pinyon (*Pinus edulis*), Utah juniper (*Sabina osteosperma*), and Rocky Mountain juniper (*S. scopulorum*). North-facing, upper slopes or more mesic side canyons are dominated by forests of ponderosa pine (*Pinus ponderosa*), Douglas-fir (*Pseudotsuga menziesii*), or aspen (*Populus tremuloides*).

1.3.4 Previous botanical studies

Due to the easy access provided by the Denver and Rio Grande Railroad, the Gunnison River drainage attracted numerous field botanists to the Curecanti area in the late nineteenth and early twentieth centuries. Unfortunately, most specimen labels from the the 1890s–1920s merely record the closest railroad stop (usually Cimarron or Sapinero), while the actual collection sites may have been anywhere in the Gunnison River valley or immediate vicinity. It is likely that many of these specimens were collected within the area that would ultimately become Curecanti NRA in 1965, but the exact number will probably never be fully known. In addition, many of the collecting sites (including some type localities) were probably inundated by the reservoirs built in the 1960s and 1970s. The following chronology (Table 1.3.4, Figure 1.3.4) highlights the major botanical figures known to have worked in the Curecanti area since construction of the railroad in the 1880s (Hogan 2006).

The earliest known collector was Marcus E. Jones, who collected the type specimen of Black Canyon gilia (*Gilia penstemonoides*) at Cimarron in 1890. Carl Albert Purpus followed in 1892, and collected specimens in the vicinity of Sapinero and in the Black Canyon of the Gunnison. Purpus's most significant find was the holotype of Purpus' sullivantia (*Sullivantia hapemanii* var. *purpusii*) from the Black Canyon. Noted California botanist E. L. Greene visited the valley in 1896, but the full extent of his collecting is not known.

Herbert Wheeler conducted the first thorough survey of the flora in the vicinity of Sapinero in 1898, as part of his master's thesis from the University of Colorado (Wheeler 1902). It is not known how many of Wheeler's 246 specimens were actually made within Curecanti NRA, though Weber and Wittmann (1992) cited at least seven that were types (all of which are considered synonyms today). Charles Crandall, Charles Baker, and Edwin Payson added at least seven new species to the flora of the local area from 1898 to 1913. Collecting dropped off considerably over the next four decades, with only a half-dozen new taxa being documented for the Curecanti area by Ruth Nelson and William Weber.

In 1961, the BOR contracted with the University of Utah to conduct baseline archeological and biological surveys of the Curecanti area to identify resources that would be flooded by the new dams

then under development. Seville Flowers, Heber Hall, Robert Reynolds, and colleagues spent that summer collecting more than 750 specimens of vascular plants, bryophytes, and algae from the area (Flowers et al. 1962; Woodbury 1962). Through their efforts, 372 vascular plant taxa were documented for Curecanti NRA (353 by modern count based on name changes, synonyms, and misidentifications). Although much of the area explored by the Flowers team has since been undated, at least 260 of the taxa reported in 1961 have been relocated in the past two decades. An additional 93 species reported by Flowers and others (1962) still have not been rediscovered within the unit (Table 1.3.4, Appendix B).

Relatively few additions were made to the Curecanti NRA flora in the 30 years immediately following the work of Flowers and colleagues (Figure 1.3.4). Charles Clark and Dean Einwalter made collections for the Curecanti NRA herbarium (CURE) in 1970, and discovered four new taxa. Susan Engel collected more than 100 specimens in the unit in 1980, as part of an undergraduate independent study project at Western State College. In the process, she added 29 new species to the local flora. Individual researchers documented several new rare species for the area, including the type of Gunnison County rockcress (*Boechera pallidiflora*), from the hills above Sapinero (probably just outside the unit) (Table 1.3.4).

The pace of collecting and discovery has increased significantly since 1995. In that year, Alex Tonneson and Cheryl O'Brien collected more than 200 specimens for the CURE herbarium as part of a vegetation monitoring study they conducted as NPS seasonal employees. Tonneson and O'Brien relocated a large number of species originally reported by Flowers and others (1962) and documented 71 new species for the unit. In 2001, a vegetation-mapping crew working for the NCPN (in ed.) conducted sampling across the unit and reported (without vouchers) 96 new species. At least 59 of these taxa still need corroboration with herbarium specimens or photo vouchers. Researcher Larry Stevens sampled vegetation associated with seeps and springs in 2005, and discovered the first record of niterwort (*Nitrophila occidentalis*) for the state of Colorado within the unit (Springer et al. 2006).

The largest recent botanical survey of Curecanti NRA took place from 2003 to 2004, and was conducted by Tim Hogan, Nan Lederer, Dina Clark,

and associates from the University of Colorado Museum Herbarium. Hogan and others (2005) collected 570 specimens representing 459 vascular plant taxa from across the unit. At least 95 of

these species had not previously been recorded from Curecanti NRA, and 37 more had been reported but not vouchered (Table 1.3.4).

Table 1.3.4. Chronology of plant-collecting efforts in Curecanti National Recreation Area.

Year	Collector(s)	# of new taxa	Comments
1890	M. E. Jones	1	Marcus E. Jones collected the type specimen of Black Canyon gilia (<i>Gilia penstemonoides</i>) at Cimarron. The extent of Jones's collecting efforts in the surrounding area is not known.
1892	C. A. Purpus	1	Carl Albert Purpus collected the type specimen of brittle prickly-pear (<i>Opuntia schweriniana</i> , now considered a synonym of <i>O. fragilis</i>) at Sapinero. Purpus also collected in the area of the future Black Canyon of the Gunnison National Park, where he took the type collection of Purpus' sullivantia (<i>Sullivantia hapemannii</i> var. <i>purpusii</i>).
1896	E. L. Greene	0	Edward L. Greene collected in the vicinity of Cimarron in 1896, but it is not known whether he documented species within the future Curecanti NRA.
1898	H. N. Wheeler and C. S. Crandall	8	Herbert Wheeler collected 246 specimens in the vicinity of Sapinero, as part of his master's thesis. It is not known how many of Wheeler's collections were taken from the future Curecanti NRA, but at least 7 are accepted here based on data from Weber and Wittmann (1992). Charles S. Crandall collected in the vicinity of Cimarron in 1898, and took the type of Crandall's rockcress (<i>Arabis</i> [<i>Boechea</i>] <i>crandallii</i>). The full extent of Crandall's collecting in the area is also not known.
1901	C. F. Baker	5	Charles Baker collected at least 5 new species in the Curecanti area, including the types of purple-flower lousewort (<i>Pedicularis crenulata</i> forma <i>candida</i>) and <i>Penstemon teucrioides</i> (now a synonym of mat penstemon [<i>P. caespitosus</i>]) from Sapinero.
1913	E. B. Payson	1	Edwin Payson made the first collection of mountain-lover (<i>Paxistima myrsinites</i>).
1950	R. A. Nelson	1	Ruth Nelson collected red elderberry (<i>Sambucus microbotrys</i>).
1952	W. A. Weber	5	William A. Weber, of the University of Colorado, collected 5 species in the Curecanti area.
1961	S. Flowers, R. Reynolds, and H. Hall	260 + 93 reported	Seville Flowers, Heber H. Hall, and Robert Reynolds led a team from the University of Utah conducting the first major floristic survey of the Gunnison River drainage in the area to be flooded by the Curecanti reservoirs. Flowers and others (1962) made 752 collections of 372 vascular plant taxa (353 based on modern names and misidentifications). At least 260 of these species have been relocated within Curecanti NRA since 1962, while the remaining 93 reported species were either extirpated by flood waters or remain undetected.
1970	C. Clark and D. Einwalter	4	Charles Clark and Dean Einwalter collected 25 specimens for the CURE herbarium, including 4 new species for the recreation area.
1979	J. Ratzloff	1	Jim Ratzloff discovered Glenwood Springs rockcress (<i>Boechea oxylobula</i>) in Curecanti NRA during a rare plant survey.
1980–1982	S. Engel and W. A. Weber	30	Susan Engel, an undergraduate from Western State College, collected 105 specimens from Curecanti NRA (including 29 new species) as part of an independent study in 1980. William Weber collected the first specimen of Canyonlands hymenoxys (<i>Tetraneuris ivesiana</i>) in 1982.
1983	R. Rollins	?	Reed Rollins, of Harvard's Gray Herbarium, collected the type of Gunnison County rockcress (<i>Arabis</i> [<i>Boechea</i>] <i>pallidifolia</i>) from "hill above Sapinero," probably just outside Curecanti NRA.

Table 1.3.4 Chronology of plant-collecting efforts in Curecanti National Recreation Area.

1995	A. Tonneson and C. O'Brien	71	Alex Tonneson and Cheryl O'Brien collected 227 specimens in Curecanti NRA as part of a vegetation monitoring study. Of these collections, 71 represented new taxa for the area.
2001	NCPN vegetation mapping team	96 reported	The NCPN (in ed.) vegetation-mapping crew reported 96 new vascular-plant species for the unit. Of these, 37 were later vouchered by Hogan and colleagues in 2003–2004, and 59 have not been relocated.
2003–2004	T. Hogan, N. Lederer, and D. Clark	132	Tim Hogan, Nan Lederer, and Dina Clark, of the University of Colorado Museum Herbarium, collected 570 specimens in a floristic survey funded by the NPS to fill gaps in the CURE collections and update the species list of Flowers and others (1962). Hogan et al. (2005) documented 459 vascular plant taxa for Curecanti NRA, of which at least 132 had not previously been vouchered.
2005	L. Stevens	1	Larry Stevens collected specimens for the NCPN springs and seeps inventory (Springer et al. 2006), including the first record of niterwort (<i>Nitrophila occidentalis</i>) for the state of Colorado (possibly an introduction).

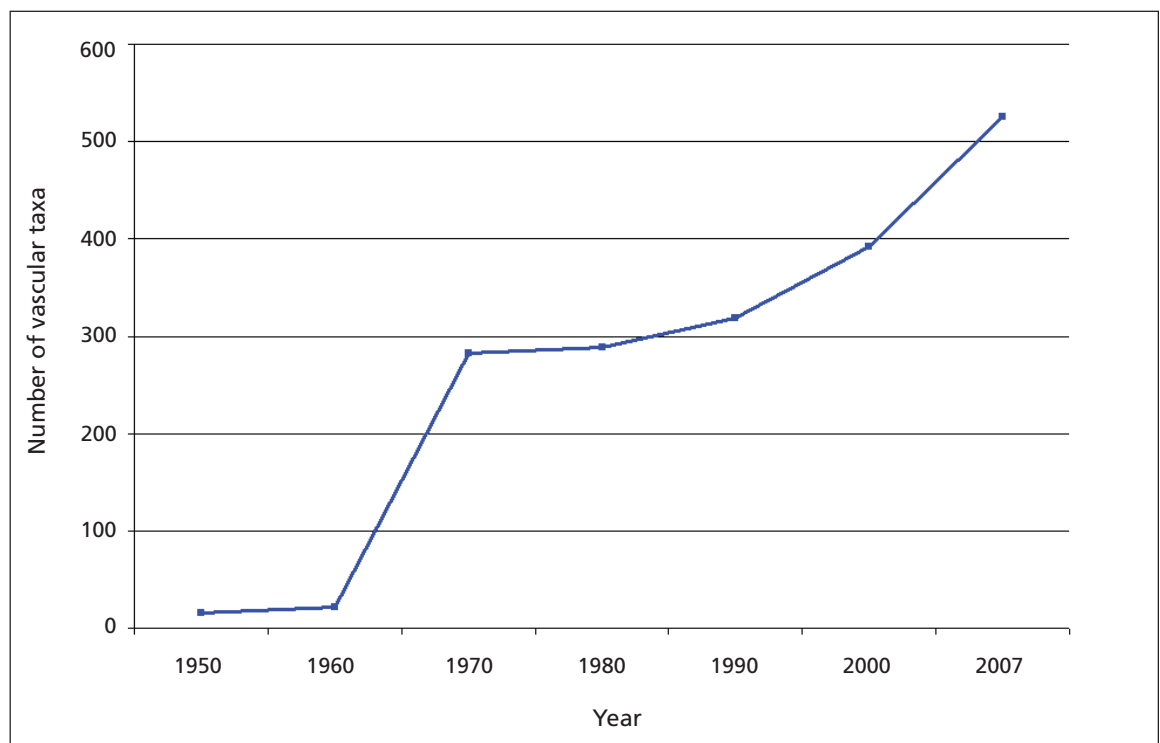


Figure 1.3.4. Increase in the number of plant taxa confirmed as present in Curecanti National Recreation Area by decade, 1950–2007.

2 Methods

In 2005, Tim Hogan and Nan Lederer, of the University of Colorado Museum Herbarium, reviewed all mounted specimens in the Curecanti NRA herbarium to determine whether each was correctly identified to species, subspecies, or variety following the nomenclature of Weber and Wittmann (2001). Hogan and others (2005) also reviewed relevant herbarium collections from the University of Colorado (COLO). As necessary, they made corrections and annotations to each specimen and to the voucher records in the unit's Automated National Cataloging System (ANCS+) and NPSpecies database.

Based on this herbarium work and a review of Curecanti NRA references (Flowers et al. 1962; NCPN in ed.; Springer et al. 2006; Weber no date), we developed four lists:

1. A revised checklist of species that were present in the unit (confirmed by an authenticated voucher; included in Appendices A and D);
2. A list of species that were reported in the literature but not corroborated with a voucher (equivalent to “probably present” in NPSpecies terminology; included in Appendices A and D);
3. A list of potential species (“unconfirmed” in NPSpecies) known from the vicinity of Curecanti NRA based on Weber (no date) and Hogan and others (2005) (included in Appendix B); and
4. A list of species that are now known to be misidentified or highly questionable (Appendix C).

Each list was annotated with supplemental information on life form, geographic range (within the context of Colorado), population size in the unit (derived from Hogan et al. 2005, NCPN in ed., Springer et al. 2006, and field observations), flowering period, distribution across general vegetation types, nativity, data source (collector and collection number from a sample specimen or literature citation), year of earliest collection (from herbarium records), and relevant synonymy and taxonomic problems (based on review of Barkworth et al. 2003, 2007; Barneby 1989; Cronquist 1994; Cronquist et al. 1972, 1977, 1984, 1997; Dorn 2001; Flora of North America Editorial Committee 1993, 1997, 2000, 2002a, 2002b, 2003, 2005, 2006a, 2006b, 2006c; Holmgren et al. 2005; Kartesz 2003; Welsh et al. 2003; and the Integrated Taxonomic Information System (ITIS) website, <http://www.itis.gov/>). The annotations to these lists and label data from the CURE herbarium review were then incorporated into the NPSpecies database for the unit.

3 Results

3.1 Summary of the flora of Curecanti National Recreation Area

Based on a review of specimens in the CURE and COLO herbaria (correcting for misidentifications and collections from outside the unit) and results of the 2003–2005 University of Colorado floristic survey (Hogan et al. 2005) and 2005 NCPN springs and seeps inventory (Springer et al. 2006), the number of vascular plant taxa confirmed as occurring in Curecanti NRA with an authenticated voucher stands at 527 (Table 3.1, Appendices A, D). This number is slightly lower than the 531 reported by Hogan and others (2005) due to the elimination of some duplicate names. An addi-

tional 152 taxa have been reported for the unit but not corroborated with a voucher specimen (Table 3.1, Appendix A). Of these, 93 were reported by Flowers and others (1962) and 59 are based on observations by the NCPN vegetation-mapping crew (NCPN in ed.). Taken together, the number of confirmed and reported vascular plant taxa in Curecanti National Recreation Area is 679 (Table 3.1, Appendices A, D).

Based on a review of literature and herbarium specimens, we recognize 159 species that could still potentially be found within Curecanti NRA (Hogan and Lederer NPSpecies database) (Appendix B). Most of these species are known from comparable habitats elsewhere in Gunnison or Montrose counties (including Black Canyon of the Gunnison National Park), or have been collected from within a 5–7-mile radius of the unit.

Table 3.1. Statistical summary of the flora of Curecanti National Recreation Area.

Category	Number confirmed in park	Number additionally reported for park	Total
Taxonomic diversity			
Total taxa (including varieties and subspecies)	527	152	679
Full species (excluding varieties and subspecies)	523	148	671
Families	89	6	95
Life form diversity			
Tree taxa	15	2	17
Shrub taxa	62	10	72
Perennial forb taxa	300	76	376
Annual forb taxa	62	25	87
Perennial graminoid taxa	74	33	107
Annual graminoid taxa	5	5	10
Fern taxa	9	1	10
Biogeographic diversity			
Introduced taxa	72	17	89
Native taxa			
Locally endemic taxa	8	2	10
Regionally endemic taxa	23	5	28
Disjunct taxa	1	0	1
Peripheral taxa	3	4	7
Sparse taxa	4	1	5
Widespread taxa	416	123	539
<i>Total native taxa</i>	<i>455</i>	<i>135</i>	<i>590</i>

The number of taxa and families is based on taxonomic concepts of Weber and Wittmann (2001). See appendices for an explanation of the various categories.

Of the pool of species documented or reported for Curecanti NRA, we found eight taxa that were falsely reported based on misidentified voucher specimens in the CURE and COLO herbaria. We consider an additional 77 species reported by Flowers and others (1962) and cited (but not vouchered) by the NCPN vegetation-mapping team (NCPN in ed.) to be questionable based on the absence of suitable habitat or the distance of Curecanti NRA to the known or expected range of each species (Appendix C).

The confirmed and reported flora of Curecanti NRA represents 21.6% of the 3,145 native and naturalized taxa documented for the state of Colorado by Weber and Wittmann (1992) and 59.4% of the state's 160 plant families (Table 3.1). The unit contains 46.6% of the 1,456 species reported for Montrose and Gunnison counties (Kartesz 2003). At the ecoregional scale, Curecanti NRA contains 35.8% of the 1,898 species reported for the Colorado portion of the Colorado Plateau (Kartesz 2003).

3.2 Life form and biogeographic diversity

Although ecologically dominant, tree and shrub species make up only 13.1% of the confirmed and reported plant taxa of Curecanti NRA (see Table 3.1). Perennial forbs are the most species-rich life form in the unit's flora, with 375 known and reported taxa (55.4% of the total flora). Annual forbs and grass-like plants comprise less than 15% of the flora. Like trees and shrubs, perennial graminoids are ecologically important but relatively species-poor, representing just 15.8% of the total flora. The diversity of ferns and fern-allies in Curecanti is especially low (1.5%) (see Table 3.1).

Of the unit's 590 native taxa, 332 (91.4%) are widespread across Colorado and western North America. Only 10 species (1.7% of the native flora) have extremely limited global distributions (local endemics found within an area of less than 1° of latitude × 2° of longitude; see appendices for complete definitions of biogeographic categories). Regional endemics (largely restricted to the Colorado Plateau) comprise an additional 4.7% of the native flora (see Table 3.1). Species at the extreme edge of their global range in Colorado (peripherals) and those found sparsely over a wide range make up 1.2% and 0.8% of the Curecanti's native flora, respectively (see Table 3.1). Graceful cinquefoil (*Potentilla flabelliformis*) is the only disjunct species presently known from the unit.

3.3 Plants of special concern

Curecanti NRA has no plants listed as threatened or endangered under the U.S. Endangered Species Act. Nodding rockcress (*Boechera demissa*) was formerly a category 3C candidate for listing under the act (Table 3.3). Crandall's rockcress (*B. crandallii*) and Gunnison milkvetch (*Astragalus anisus*) are the only species from the unit that are considered sensitive by other federal agencies (Spackman et al. 1997). The Colorado Natural Heritage Program (2007) tracks 13 taxa from Curecanti NRA as species of concern and 1 additional taxon on its watch list of potential species of concern (Table 3.3). Hogan and others (2005) relocated and mapped populations of four sensitive plant species: Gunnison milkvetch, Brandegee's corydalis (*Corydalis caseana* ssp. *brandegei*), Black Canyon gilia, and Purpus' sullivantia.

3.4 Non-native species and noxious weeds

Introduced plant species (not historically native to Colorado or North America) make up 13.1% of the confirmed and reported flora of Curecanti NRA (see Table 3.1). This figure is lower than the statewide average of 15.6% for non-native species (Rejmanek and Randall 1994). Of the unit's 89 introduced plant species, 23 are listed as noxious by the State of Colorado (Table 3.4) (CDA 2007). Plants on the Colorado state noxious weed list fall into three categories with differing management objectives and requirements (Colorado Noxious Weed Act of 1996 Title 35 Article 5.5). Weeds on List A are designated for full eradication wherever they occur. Containment of infestations is the goal for species on List B, and voluntary control, education, and research is the objective for species on List C. Currently, 18 species from Curecanti NRA are on List B, and 5 are on List C; none is on List A (Table 3.4).

Hogan and others (2005) mapped occurrences of 16 noxious weed species in 2003–2004. These species were found primarily in association with reservoirs, marinas, roads, and campgrounds.

Table 3.3. Plant species of conservation concern from Curecanti National Recreation Area.

Family	Species	Common name	TNC global rank	Legal status	CNHP status
Apiaceae (Umbelliferae)	<i>Cymopterus planosus</i> *	Rocky Mountain spring-parsley	G3		SOC, S3S4
Asclepiadaceae	<i>Asclepias hallii</i>	Hall's milkweed	G3		SOC, S3
Brassicaceae (Cruciferae)	<i>Boechnera crandallii</i>	Crandall's rockcress	G2	CO BLM: Sensitive	SOC, S2
Brassicaceae (Cruciferae)	<i>Boechnera demissa</i> var. <i>demissa</i>	nodding rockcress	G5T4	USFWS: 3C	
Brassicaceae (Cruciferae)	<i>Boechnera gunnisoniana</i>	Gunnison's rockcress	G3		SOC, S3
Brassicaceae (Cruciferae)	<i>Boechnera oxylobula</i>	Glenwood Springs rockcress	G3		SOC, S3
Brassicaceae (Cruciferae)	<i>Draba rectifruca</i>	mountain draba	G3?		SOC, S2
Brassicaceae (Cruciferae)	<i>Physaria rollinsii</i>	Rollins' twinpod	G2		SOC, S2
Fabaceae (Leguminosae)	<i>Astragalus anisus</i>	Gunnison milkvetch	G2G3	CO BLM: Sensitive	SOC, S2S3
Fabaceae (Leguminosae)	<i>Astragalus iodopetalus</i> *	violet milkvetch	G2		SOC, S1
Fumariaceae	<i>Corydalis caseana</i> ssp. <i>brandegeei</i>	Brandegge's corydalis	G5T3		Watch, S3S4
Lamiaceae (Labiatae)	<i>Monardella odoratissima</i>	stinking horsemint	G4G5 T3T5		SOC, S2
Polemoniaceae	<i>Gilia penstemonoides</i>	Black Canyon gilia	G3		SOC, S3
Rosaceae	<i>Crataegus saligna</i>	willow hawthorn	G2		SOC, S2
Saxifragaceae	<i>Sullivantia hapemanii</i> var. <i>purpusii</i>	Purpus' sullivantia	G3T3		SOC, S3

This list was derived from the Colorado Natural Heritage Program (CNHP 2007). All species are confirmed as present in Curecanti NRA unless indicated by a "*" (reported).

Codes: **TNC global rank** assesses abundance and conservation priority on a scale of 1–5 (1 being extremely vulnerable and 5 being secure) for full species (G) and varieties or subspecies (T) across their entire range. A "?" indicates uncertainty in the rank, Q = taxonomic questions, and NR = not ranked. A comparable scoring system is used to measure state abundance (S) in Colorado under the column CNHP status. TNC = The Nature Conservancy. Under **legal status**, USFWS = U.S. Fish and Wildlife Service. CO BLM = U.S. Bureau of Land Management, Colorado Office. 3C = Category 3 candidates (species dropped from consideration for listing). Under **CNHP status**, SOC denotes plants on the state "Species of Concern" list and Watch indicates species on the watch list that may ultimately warrant listing as species of concern (CNHP 2007).

Table 3.4. Noxious weed species of Curecanti National Recreation Area.

Family	Species	Common name	Park status	CO noxious weed list
Apiaceae (Umbelliferae)	<i>Carum carvi</i>	caraway	Present	List B
Asteraceae (Compositae)	<i>Acosta diffusa</i> (<i>Centaurea diffusa</i>)	diffuse knapweed	Present	List B
Asteraceae (Compositae)	<i>Acosta maculosa</i> (<i>Centaurea maculosa</i>)	spotted knapweed	Present	List B
Asteraceae (Compositae)	<i>Acroptilon repens</i> (<i>Centaurea repens</i>)	Russian knapweed	Present	List B
Asteraceae (Compositae)	<i>Arctium minus</i>	burdock	Present	List C
Asteraceae (Compositae)	<i>Breea arvensis</i> (<i>Cirsium arvense</i>)	Canada thistle	Reported	List B
Asteraceae (Compositae)	<i>Carduus nutans</i> var. <i>macrolepis</i>	musk thistle	Present	List B
Asteraceae (Compositae)	<i>Cirsium vulgare</i>	bull thistle	Present	List B
Asteraceae (Compositae)	<i>Leucanthemum vulgare</i> (<i>Chrysanthemum leucanthemum</i>)	ox-eye daisy	Present	List B
Asteraceae (Compositae)	<i>Matricaria perforata</i>	scentless chamomile	Present	List B
Boraginaceae	<i>Cynoglossum officinale</i>	common hound's-tongue	Reported	List B
Brassicaceae (Cruciferae)	<i>Cardaria draba</i>	whitetop	Present	List B
Convolvulaceae	<i>Convolvulus arvensis</i>	field bindweed	Present	List C
Elaeagnaceae	<i>Elaeagnus angustifolia</i>	Russian olive	Reported	List B
Geraniaceae	<i>Erodium cicutarium</i>	stork's-bill	Present	List B
Poaceae (Gramineae)	<i>Anisantha tectorum</i> (<i>Bromus tectorum</i>)	cheatgrass	Present	List C
Poaceae (Gramineae)	<i>Elytrigia repens</i> (<i>Agropyron repens</i> , <i>Elymus repens</i>)	quackgrass	Present	List B
Ranunculaceae	<i>Viticella orientalis</i> (<i>Clematis orientalis</i>)	Oriental clematis	Present	List B
Scrophulariaceae	<i>Linaria vulgaris</i>	butter-and-eggs	Present	List B
Scrophulariaceae	<i>Verbascum thapsus</i>	woolly mullein	Present	List C
Solanaceae	<i>Hyoscyamus niger</i>	black henbane	Present	List B
Tamaricaceae	<i>Tamarix ramosissima</i> (<i>T. chinensis</i>)	five-stamen tamarisk	Present	List B
Zygophyllaceae	<i>Tribulus terrestris</i>	puncture vine	Present	List C

This list was derived from the Colorado Department of Agriculture (2007).

4 Discussion

Since 1961, the documented flora of Curecanti National Recreation Area has increased by nearly 30%, to the current tally of 525 taxa (see Table 3.1, Figure 1.3.4). The majority of these new taxa were discovered in just the last decade, largely through the efforts of Tim Hogan, Nan Lederer, Dina Clark, and colleagues from the University of Colorado herbarium (Hogan et al. 2005). An additional 151 species have been reported for Curecanti (without vouchers) by Flowers and others (1962) and the NCPN (in ed.), and 159 other taxa are known from neighboring Black Canyon of the Gunnison National Park or adjacent areas of Montrose and Gunnison counties (Appendix A, B). Should all of these potential species be found, the flora of Curecanti NRA would increase by

37%. Many of the “missing” potential or reported taxa consist of cryptic species that flower late in the growing season, or occur in undersampled wetland or weedy habitats. Hogan and others (2005) noted that additional survey work is needed along the Cebolla Arm of Blue Mesa Reservoir and on Blue Creek and Myers Gulch along Morrow Point Reservoir. Confirmation of reported species, especially those cited by Flowers and others (1962) that have not been relocated since construction of the three reservoirs, should remain a high priority, as some of these taxa may ultimately prove to be extirpated or erroneous. Additional studies would also be useful to better refine the abundance and distribution of species of high management interest (especially rare plants and invasive non-natives).

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Appendices

The following appendices contain annotated checklists of the vascular flora of Curecanti National Recreation Area.

Appendix A lists all species that have been confirmed for the flora with an authenticated voucher specimen (including extant and historical records) or that have been reliably reported for the unit in the literature (Flowers et al. 1962; Hogan et al. 2005; Springer et al. 2006; Weber no date). Vouchers were examined from the Curecanti NRA (CURE) and University of Colorado (COLO) herbaria. Species entries in Appendix A are organized alphabetically by family and genus.

Appendix B includes species that may potentially occur within Curecanti NRA, based on the proximity of the unit to other populations or the presence of suitable habitat.

Appendix C lists species that have been previously reported for Curecanti NRA, but are now considered erroneous because they are based on misidentified specimens or questionable literature records.

Appendix D contains the same confirmed, historical, and reported taxa as in Appendix A, but organized by life form rather than by family in order to better meet the needs of NPS interpretive specialists.

The codes and references for each field in the appropriate appendices are summarized below.

Family (Appendices A, B, C, and D)

Family concepts and nomenclature follow *Colorado Flora: Western Slope, third edition* (Weber and Wittmann 2001). Alternative family names and treatments from other regional floras (Dorn 2001; Flora of North America Editorial Committee 1993, 2002b; Holmgren et al. 2005; Welsh et al. 2003) are listed in parentheses.

Species name (Appendices A, B, C, and D)

Nomenclature for scientific names and taxonomic concepts are derived from Weber and Wittmann (2001). Scientific names are listed in alphabetical rather than phylogenetic order.

Synonyms/Taxonomic notes (Appendices A, B, and C)

Pertinent synonyms are included for species with alternative scientific names in other recent state and regional floras (Barkworth et al. 2003, 2007; Barneby 1989; Cronquist 1994; Cronquist et al. 1972, 1977, 1984, 1997; Dorn 2001; Flora of North America Editorial Committee 1993, 1997, 2000, 2002a, 2002b, 2003, 2005, 2006a, 2006b, 2006c; Flowers et al. 1962; Holmgren et al. 2005; Welsh et al. 2003). No effort has been made to identify additional synonyms from

monographs and floras preceding the early 1970s.

Common name (Appendices A, B, C, and D)

Common names are derived primarily from Welsh and others (2003) and the *Intermountain Flora* (Barneby 1989; Cronquist 1994; Cronquist et al. 1972, 1977, 1984, 1997; Holmgren et al. 2005).

Life form (Appendices A, B, C, and D)

Life form is based on the stature and growth habit of typical members of a species at reproductive maturity. **Trees** are woody perennials with a single stem or trunk and are typically over 3.5 m tall. **Shrubs** are woody perennials with one to many trunks arising from near the base of the plant and are usually less than 3.5 m tall. **Perennial Forbs (PerF)** are broad-leaved dicots or monocots with non-woody stems (at least above ground level) that live for multiple years. **Annual Forbs (AnnF)** are broad-leaved dicots or monocots with non-woody stems that complete their life cycle (mature, flower, and die) in one year. **Perennial Graminoids (PerG)** are linear-leaved, grass-like monocots that live for multiple years. **Annual Graminoids (AnnG)** are linear-leaved, grass-like monocots that complete their life cycle (mature, flower, and die) in one year. **Ferns and fern-allies (Fern)** are non-flowering vascular plants that reproduce by spores.

Range (Appendices A, B, and C)

Range represents the distribution of a species within Colorado and the state's contribution to the plant's overall global range. **Disjunct (Disj)** taxa have their Colorado distribution separated from the main, contiguous portion of their range by a gap of more than 800 km (ca 500 miles). **Introduced (Intro)** taxa are those that are not native to Colorado or North America but which have become naturalized (breeding on their own without human assistance). **Local Endemics (LocEn)** are taxa whose entire global range is restricted to an area of less than 16,500 km² (ca 6,370 mi², or 1° of latitude × 2° of longitude). **Peripheral (Periph)** taxa have a widespread global distribution but occur at the margin of their contiguous range in Colorado and occupy less than 5% of the state's area (usually only within a few miles of the state border). **Regional Endemics (RegEn)** are taxa with a global range of 16,500–250,000 km² (an area about the size of the state of Wyoming). **Sparse** taxa occur widely across Colorado or North America but their range within Colorado is small and patchy, with populations restricted to specialized or uncommon habitats. **Widespread (Wide)** taxa have global ranges exceeding 250,000 km² and occur over at least 10% of the state.

Park status (Appendices A, C, and D)

Park status identifies whether a species is Present (**Pres**), Historical (**Hist**), or Reported (**Rep**) for Curecanti NRA. Species are considered Present if a confirmed voucher or

documented observation has been made within Curecanti NRA boundaries since 1970. Historical species have been confirmed with a voucher from the unit but have not been relocated since before 1970. Reported species are listed for the unit in the literature (Flowers et al. 1962; NCPN in ed.; Weber no date), but have not been corroborated with a voucher specimen. Species that may potentially occur in Curecanti NRA are listed in Appendix B. Rejected taxa (listed in Appendix C) have either been falsely reported (**FalsRep**) in the literature based on misidentified herbarium specimens or are considered Questionable (**Ques?**) because park reports are from well outside their known or expected range.

Pop. size (Appendix A)

Population size refers to the abundance and frequency with which a species occurs within Curecanti NRA. Abundance data are derived from Hogan and others (2005) and NCPN (in ed.). Abundant (**Abun**) taxa have large populations, a broad ecological amplitude (often being dominant in one to several vegetation types), or occur extensively across the unit. Common (**Com**) taxa have large local populations but may be restricted to a single vegetation type or do not occur across the entire recreation area. Uncommon (**Unc**) taxa have low to medium-sized populations, typically have a narrow ecological amplitude (or at least contribute relatively little to total vegetative cover), or have a small range across the unit. **Rare** taxa usually have low population numbers and are restricted to a single location within the unit. A “?” indicates that population size is unknown.

Source (Appendix A)

Sources are the evidence for the assigned park status. In the case of Present and Historical taxa, sources are herbarium records (with collector, collection number, and repository) that were corroborated during this study. For reported taxa, the source is a published or unpublished reference citing the species within the unit. Specimen repositories include the Curecanti NRA herbarium (**CURE**) and University of Colorado (**COLO**).

Year doc. (Appendix A)

Year documented indicates the first year in which a species was confirmed or reported to occur in Curecanti NRA. This year does not necessarily correspond with the date of the voucher specimen cited under Source.

Comments (Appendices A, B, C, and D)

This column includes additional comments on the status of a particular species in the unit, the place of origin for introduced species, legal status, and other data.

Nativity (Appendix D)

Nativity indicates whether a species is native to Colorado or Introduced (Intro) based on Weber and Wittmann (2001) and the Flora of North America Editorial Committee (1993, 1997, 2000, 2002a, 2002b, 2003, 2005, 2006a, 2006b, 2006c).

Flower time (Appendix D)

Flower time refers to the months in which a species is most likely to be in flower. NA indicates a species that is a non-flowering fern or gymnosperm.

Habitat (Appendix D)

The distribution of species across generalized habitats in Curecanti NRA is indicated by an “X” in the columns Sage through Wet, and is derived from Evenden and others (2002) and NCPN (in ed.). **Sage** = sagebrush/grasslands dominated by big sagebrush, rabbitbrush (*Chrysothamnus* spp.) and various perennial grasses. **PJ-Oak** = woodlands of two-needle pinyon, Utah juniper, and Gambel oak. **Mont For** = montane forests dominated by ponderosa pine and Douglas-fir, **Wet** = Wetlands (including seeps and springs). Additional comments are included for species that are restricted to a particular soil/geologic type or are found mostly in disturbed sites.

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Aceraceae	<i>Acer glabrum</i>	Includes vars. <i>neomexicanum</i> , <i>douglasii</i> , & <i>tripartitum</i>	Rocky Mountain maple	Shrub	Wide	Pres	Com	Clark & Lederer 2068 (CURE)	1961	
Aceraceae	<i>Negundo aceroides</i> ssp. <i>interius</i>	<i>Acer negundo</i> , <i>A.</i> <i>negundo</i> var. <i>interius</i>	box elder	Tree	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	
Agavaceae	<i>Yucca harrimaniae</i>	<i>Y. harrimaniae</i> var. <i>harrimaniae</i>	Harriman's yucca	Shrub	Wide	Pres	Com	Clark & Hogan 1966 (COLO)	1961	Includes report of <i>Y. angustissima</i> from Flowers et al. (1962)
Alismataceae	<i>Sagittaria cuneata</i>		northern arrowhead	PerF	Wide	Rep	Rare	NCPN (in ed.)	2001	
Alliaceae (Liliaceae)	<i>Allium cernuum</i>	Includes vars. <i>cernuum</i> & <i>obtusum</i>	nodding onion	PerF	Wide	Pres	Unc	Clark s.n. (CURE)	1970	
Alliaceae (Liliaceae)	<i>Allium geyseri</i>	<i>A. geyseri</i> var. <i>geyseri</i>	Geyer's onion	PerF	Wide	Pres	Unc	Flowers 361 (COLO)	1961	
Alliaceae (Liliaceae)	<i>Allium macropetalum</i>		San Juan onion	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Alsinaceae (Caryophyllaceae)	<i>Cerastium fontanum</i>	<i>C. vulgatum</i> , <i>C.</i> <i>fontanum</i> ssp. <i>vulgare</i>	mouse-ear chickweed	PerF	Intro	Pres	Unc	Tonnesen s.n. (CURE)	1995	Native to Eurasia
Alsinaceae (Caryophyllaceae)	<i>Eremogone congesta</i>	<i>Arenaria congesta</i> var. <i>congesta</i> , <i>E. congesta</i> var. <i>congesta</i>	ball-head sandwort	PerF	Wide	Pres	Com	Clark & Lederer 2053 (CURE)	1961	
Alsinaceae (Caryophyllaceae)	<i>Eremogone fendleri</i>	<i>Arenaria fendleri</i> var. <i>fendleri</i>	Fendler's sandwort	PerF	Wide	Pres	Unc	Lederer & Clark 03-114 (CURE)	1961	
Alsinaceae (Caryophyllaceae)	<i>Paronychia sessiliflora</i>		creeping nailwort	PerF	Wide	Pres	Unc	Clark 2205 (CURE)	2004	
Alsinaceae (Caryophyllaceae)	<i>Pseudostellaria jamesiana</i>	<i>Stellaria jamesiana</i>	James' chickweed	PerF	Wide	Pres	Unc	Lederer & Clark 2078 (CURE)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Alinaceae (Caryophyllaceae)	<i>Stellaria longifolia</i>		long-leaved starwort	PerF	Wide	Pres	Unc	Engel 30 (CURE)	1961	
Alinaceae (Caryophyllaceae)	<i>Stellaria longipes</i>	<i>S. longipes</i> ssp. <i>stricta</i> , <i>S. longipes</i> ssp. <i>longipes</i> . Includes var. <i>monantha</i> in <i>Flora of North America</i> (2005)	long-stalk starwort	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Amaranthaceae	<i>Amaranthus blitoides</i>	<i>A. graecizans</i>	prostrate pigweed	AnnF	Wide	Pres	Unc	Lederer & Clark 03-195 (CURE)	1961	
Amaranthaceae	<i>Amaranthus retroflexus</i>		redroot pigweed	AnnF	Intro	Rep	?	Flowers et al. (1962)	1961	Native to Central America
Anacardiaceae	<i>Rhus aromatica</i> ssp. <i>trilobata</i>	<i>R. trilobata</i> var. <i>trilobata</i>	squawbush	Shrub	Wide	Pres	Com	Clark & Hogan 1981 (CURE)	1961	
Anacardiaceae	<i>Toxicodendron nydbergii</i>	<i>Rhus radicans</i> , <i>T. radicans</i>	western poison ivy	Shrub	Wide	Rep	Rare	Flowers et al. (1962)	1961	
Apiaceae (Umbelliferae)	<i>Angelica ampla</i>		giant angelica	PerF	RegEn	Pres	Unc	Engel 107 (CURE)	1980	
Apiaceae (Umbelliferae)	<i>Carum carvi</i>		caraway	PerF	Intro	Pres	Unc	Hogan & Clark 4025 (CURE)	2003	CO state noxious weed (List B). Native to Eurasia.
Apiaceae (Umbelliferae)	<i>Cicuta douglasii</i>	<i>C. occidentalis</i> , <i>C. maculata</i> var. <i>angustifolia</i>	water-hemlock	PerF	Wide	Pres	Unc	Lederer & Clark 04-90 (CURE)	1961	
Apiaceae (Umbelliferae)	<i>Conioselinum scopulorum</i>		rock lovage	PerF	Wide	Pres	Unc	Engel 109 (CURE)	1980	
Apiaceae (Umbelliferae)	<i>Cymopterus constancei</i>		Constance's spring-parsley	PerF	Wide	Pres	Unc	Hogan, Clark, & Lederer 4002 (CURE)	1995	
Apiaceae (Umbelliferae)	<i>Cymopterus planosus</i>		Rocky Mountain spring-parsley	PerF	LocEn	Rep	Rare	NCPN (in ed.)	2001	Type locality is Minturn, Eagle Co., CO (Osterhout 2572)

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Apiaceae (Umbelliferae)	<i>Heracleum sphondylium</i> ssp. <i>montanum</i>	<i>H. sphondylium</i> var. <i>lanatum</i> , <i>H. maximum</i> , <i>H. lanatum</i>	cow parsnip	PerF	Wide	Pres	Unc	Clark & Lederer 2086 (CURE)	1961	
Apiaceae (Umbelliferae)	<i>Ligusticum porteri</i>		southern ligusticum	PerF	Wide	Pres	Unc	Clark 2214 (CURE)	2001	
Apiaceae (Umbelliferae)	<i>Lomatium dissectum</i>	Includes vars. <i>eatonii</i> & <i>multifidum</i>	fern-leaved desert-parsley	PerF	Wide	Pres	Unc	Hogan & Tembrock 4331 (CURE)	2001	
Apiaceae (Umbelliferae)	<i>Lomatium triternatum</i> var. <i>platycarpum</i>	<i>L. simplex</i> var. <i>simplex</i>	ternate desert-parsley	PerF	Wide	Pres	Unc	Clark & Lederer 2172 (CURE)	2004	
Apiaceae (Umbelliferae)	<i>Osmorhiza chilensis</i>	<i>O. berteroi</i>	Chilean sweet-cicely	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	
Apiaceae (Umbelliferae)	<i>Osmorhiza depauperata</i>		blunt sweet-cicely	PerF	Wide	Pres	Unc	Hogan & Tembrock 4310 (CURE)	2001	
Apiaceae (Umbelliferae)	<i>Osmorhiza occidentalis</i>		western sweet-cicely	PerF	Wide	Pres	Unc	Clark & Lederer 2148 (CURE)	2001	
Apiaceae (Umbelliferae)	<i>Oxypolis fendleri</i>		Fendler's cowbane	PerF	Wide	Pres	Unc	Clark & Lederer 2061a (COLO)	2003	
Apiaceae (Umbelliferae)	<i>Pseudocymopterus montanus</i>	<i>Cymopterus lemmonii</i>	Lemmon's spring-parsley	PerF	Wide	Pres	Unc	Clark & Lederer 2084 (COLO)	1995	
Apiaceae (Umbelliferae)	<i>Sium suave</i>		water parsnip	PerF	Wide	Pres	Unc	Engel 108 (CURE)	1961	
Apocynaceae	<i>Apocynum androsaemifolium</i>	<i>A. androsaemifolium</i> var. <i>androsaemifolium</i>	spreading dogbane	PerF	Wide	Pres	Unc	Clark & Lederer 2249 (CURE)	2003	
Apocynaceae	<i>Apocynum cannabinum</i>	Includes vars. <i>cannabinum</i> , <i>glaberrimum</i> , & <i>angustifolium</i>	common dogbane	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	Flowers et al. (1962) also report hybrids with <i>A. androsaemifolium</i> (<i>A. medium</i>).

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asclepiadaceae	<i>Asclepias hallii</i>		Hall's milkweed	PerF	Sparse	Pres	Unc	Lederer & Clark 04-78 (CURE)	2004	
Asclepiadaceae	<i>Asclepias speciosa</i>		showy milkweed	PerF	Wide	Pres	Com	Lederer & Clark 03-183 (CURE)	1961	
Asclepiadaceae	<i>Asclepias subverticillata</i>	<i>A. galioides</i>	whorled milkweed	PerF	Wide	Pres	Unc	Lederer & Clark 04-72 (CURE)	1961	
Aspleniaceae (Polypodiaceae)	<i>Cystopteris fragilis</i>	Some authors include <i>C. utahensis</i> , <i>C. reevesiana</i> , & <i>C. tenuis</i>	brittle bladder fern	Fern	Wide	Pres	Unc	Lederer & Clark 03-64 (CURE)	2003	
Asteraceae (Compositae)	<i>Achillea lanulosa</i>	<i>A. millefolium</i> var. <i>lanulosa</i> ; vars. not recognized in <i>Flora of North America</i> (2006)	common yarrow	PerF	Wide	Pres	Com	Lederer & Clark 03-66 (CURE)	1961	
Asteraceae (Compositae)	<i>Acosta diffusa</i>	<i>Centaurea diffusa</i>	diffuse knapweed	PerF	Intro	Pres	Unc	Lederer & Hogan 04-108 (CURE)	2004	CO state noxious weed (List B). Native to Mediterranean.
Asteraceae (Compositae)	<i>Acosta maculosa</i>	<i>Centaurea maculosa</i> , <i>C. biebersteinii</i> , <i>C. stoebe</i> ssp. <i>micranthos</i>	spotted knapweed	PerF	Intro	Pres	?	D. Bockus pers. Comm.	?	CO state noxious weed (List B). Native to Europe.
Asteraceae (Compositae)	<i>Acroptilon repens</i>	<i>Centaurea repens</i> , <i>C. picris</i>	Russian knapweed	PerF	Intro	Pres	Unc	Hall 646 (COLO)	1961	CO state noxious weed (List B). Native to Eurasia.
Asteraceae (Compositae)	<i>Agoseris aurantiaca</i> var. <i>aurantiaca</i>		orange agoseris	PerF	Periph	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Asteraceae (Compositae)	<i>Agoseris glauca</i> var. <i>dasycephala</i>		short agoseris	PerF	Periph	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Asteraceae (Compositae)	<i>Agoseris glauca</i> var. <i>glauca</i>		pale agoseris	PerF	Wide	Pres	Com	Flowers 686 (COLO)	1961	
Asteraceae (Compositae)	<i>Agoseris glauca</i> var. <i>laciniata</i>	<i>A. parviflora</i>	cutleaf agoseris	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asteraceae (Compositae)	<i>Almutaster pauciflorus</i>	<i>Aster pauciflorus</i>	alkali aster	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	
Asteraceae (Compositae)	<i>Ambrosia tomentosa</i>	<i>Franseria tomentosa</i>	skeleton-leaf bursage	PerF	Wide	Pres	Unc	Lederer & Clark 04-68 (CURE)	2004	
Asteraceae (Compositae)	<i>Ambrosia trifida</i>		giant ragweed	AnnF	Wide	Rep	Rare	NCPN (in ed.)	2001	Native to C North America.
Asteraceae (Compositae)	<i>Anaphalis margaritacea</i>		pearly-everlasting	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Asteraceae (Compositae)	<i>Antennaria dimorpha</i>		low pussytoes	PerF	Wide	Pres	Com	Morse 3180 (COLO)	1999	
Asteraceae (Compositae)	<i>Antennaria microphylla</i>	Some authors include <i>A. rosea</i>	small-leaf pussytoes	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Asteraceae (Compositae)	<i>Antennaria parvifolia</i>		common pussytoes	PerF	Wide	Pres	Com	Lederer & Clark 04-06 (CURE)	1961	
Asteraceae (Compositae)	<i>Antennaria pulcherrima</i> ssp. <i>anaphalooides</i>	<i>A. anaphalooides</i>	tall pussytoes	PerF	Wide	Pres	Unc	Clark 2208 (COLO)	2004	
Asteraceae (Compositae)	<i>Antennaria rosea</i>	Included in <i>A. microphylla</i> by some authors	rosy pussytoes	PerF	Wide	Pres	Unc	Clark & Hogan 1983 (COLO)	1980	
Asteraceae (Compositae)	<i>Arctium minus</i>		burdock	PerF	Intro	Pres	Unc	Clark & Lederer 2254 (CURE)	2004	CO state noxious weed (List C). Native to Eurasia.
Asteraceae (Compositae)	<i>Arnica chamissonis</i> ssp. <i>foliosa</i>	<i>A. chamissonis</i> var. <i>andina</i>	Chamisso's arnica	PerF	Wide	Pres	Unc	Engel 78 (CURE)	1980	
Asteraceae (Compositae)	<i>Arnica cordifolia</i>	<i>A. cordifolia</i> var. <i>cordifolia</i> ; vars. not recognized in <i>Flora of North America</i> (2006).	heartleaf arnica	PerF	Wide	Pres	Unc	Hogan & Tembrock 4312 (CURE)	2004	
Asteraceae (Compositae)	<i>Arnica mollis</i>	Includes <i>A. ovata</i>	hairy arnica	PerF	Wide	Pres	?	Hall 345 (COLO)	1961	
Asteraceae (Compositae)	<i>Artemisia absinthium</i>		absinthe	PerF	Intro	Rep	Rare	NCPN (in ed.)	2001	Native to Europe

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asteraceae (Compositae)	<i>Artemisia biennis</i>	<i>A. biennis</i> var. <i>biennis</i>	biennial wormwood	PerF	Intro	Pres	Unc	Lederer & Clark 03-172 (COLO)	1995	
Asteraceae (Compositae)	<i>Artemisia frigida</i>		fringed sagebrush	Shrub	Wide	Pres	Com	Clark 2113 (CURE)	1961	
Asteraceae (Compositae)	<i>Artemisia ludoviciana</i> ssp. <i>incompta</i>		Louisiana wormwood	PerF	Wide	Pres	Com	Clark & Lederer 2142 (CURE)	2003	
Asteraceae (Compositae)	<i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i>		Louisiana wormwood	PerF	Wide	Pres	Com	Engel 134 (CURE)	1961	
Asteraceae (Compositae)	<i>Aster foliaceus</i>	<i>A. foliaceus</i> var. <i>canbyi</i> , <i>Symphotrichum foliaceum</i> var. <i>canbyi</i>	Canby's aster	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	Variety not determined.
Asteraceae (Compositae)	<i>Aster lanceolatus</i> ssp. <i>hesperius</i>	<i>A. hesperius</i> , <i>Symphotrichum lanceolatum</i> var. <i>hesperius</i>	Siskiyou aster	PerF	Wide	Pres	Com	Lederer & Clark 03-154 (COLO)	1980	
Asteraceae (Compositae)	<i>Aster spathulatus</i>	<i>A. occidentalis</i> , <i>Symphotrichum spathulatum</i>	western aster	PerF	Wide	Pres	Unc	Lederer & Clark 03-156 (CURE)	2003	
Asteraceae (Compositae)	<i>Bahia dissecta</i>	<i>Amauriopsis dissecta</i>	cutleaf	PerF	Wide	Pres	Unc	Clark & Lederer 2150 (COLO)	2003	
Asteraceae (Compositae)	<i>Balsamorhiza sagittata</i>		arrowleaf balsamroot	PerF	Wide	Pres	Unc	Hogan & Tembrock 4333 (CURE)	1995	
Asteraceae (Compositae)	<i>Bidens cernua</i>		nodding bur-marigold	PerF	Wide	Pres	Unc	Clark & Lederer 2162 (COLO)	2003	
Asteraceae (Compositae)	<i>Breea arvensis</i>	<i>Cirsium arvense</i> ; includes vars. <i>horridum</i> & <i>integrifolium</i>	Canada thistle	PerF	Intro	Pres	Unc	Hogan 4200 (CURE)	1980	CO state noxious weed (List B). Native to Eurasia.
Asteraceae (Compositae)	<i>Brickellia californica</i>		California brickellbush	Shrub	Wide	Pres	Unc	Hogan 4183 (COLO)	2003	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asteraceae (Compositae)	<i>Brickellia grandiflora</i>		tassel-flower brickellbush	PerF	Wide	Pres	Unc	Hogan 4199 (CURE)	2001	
Asteraceae (Compositae)	<i>Carduus nutans</i> var. <i>macrolepis</i>	Includes ssp. <i>leiophyllus</i>	musk thistle	PerF	Intro	Pres	Unc	Tonnesen s.n. (CURE)	1995	CO state noxious weed (List B). Native to Eurasia.
Asteraceae (Compositae)	<i>Chaenactis douglasii</i>	Includes vars. <i>douglasii</i> & <i>montana</i>	hoary dusty- maiden	PerF	Wide	Pres	Com	Hogan & Tembrock 4322 (CURE)	1961	
Asteraceae (Compositae)	<i>Chrysothamnus depressus</i>		dwarf rabbitbrush	Shrub	Wide	Pres	Com	Lederer & Clark 03-169 (COLO)	1961	
Asteraceae (Compositae)	<i>Chrysothamnus nauseosus</i> ssp. <i>graveolens</i>	<i>Ericameria nauseaosa</i> var. <i>graveolens</i> , <i>E. nauseosa</i> var. <i>glabrata</i>	glabrate rabbitbrush	Shrub	Wide	Pres	Com	Clark 2128 (CURE)	1961	
Asteraceae (Compositae)	<i>Chrysothamnus parryi</i> ssp. <i>parryi</i>	<i>Ericameria parryi</i> var. <i>parryi</i>	Parry's rabbitbrush	Shrub	Wide	Pres	Com	Clark 2123 (COLO)	1961	
Asteraceae (Compositae)	<i>Chrysothamnus vaseyi</i>		Vasey's rabbitbrush	Shrub	Wide	Rep	?	Flowers et al. (1962)	1961	
Asteraceae (Compositae)	<i>Chrysothamnus viscidiflorus</i> var. <i>stenophyllus</i>	Included in var. <i>viscidiflorus</i> in Cronquist (1994). Var. not recognized in <i>Flora of North</i> <i>America</i> (2006).	slenderleaf rabbitbrush	Shrub	Wide	Rep	?	Flowers et al. (1962)	1961	
Asteraceae (Compositae)	<i>Chrysothamnus viscidiflorus</i> var. <i>viscidiflorus</i>		green rabbitbrush	Shrub	Wide	Pres	Abun	Clark 2122 (COLO)	1961	
Asteraceae (Compositae)	<i>Cirsium centaureae</i>	<i>C. clavatum</i> var. <i>americanum</i> , <i>C.</i> <i>remotifolium</i> ssp. <i>oregonense</i> ; included in <i>C. callilepis</i> by some authors	fringed thistle	PerF	RegEn	Pres	Unc	Clark & Lederer 2137 (CURE)	2003	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asteraceae (Compositae)	<i>Cirsium parryi</i>		Parry's thistle	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	Weber (no date) questions whether this species is in the Gunnison Basin.
Asteraceae (Compositae)	<i>Cirsium tracyi</i>	<i>C. undulatum</i> var. <i>tracyi</i>	Tracy's thistle	PerF	RegEn	Pres	Unc	Hogan & Tembrock 4327 (COLO)	1961	Type locality is Mancos, CO (Baker, Earle, & Tracy 90)
Asteraceae (Compositae)	<i>Cirsium vulgare</i>		bull thistle	PerF	Intro	Pres	Unc	Hogan 4182 (CURE)	2003	CO state noxious weed (List B). Native to Europe.
Asteraceae (Compositae)	<i>Conyza canadensis</i>	<i>C. canadensis</i> var. <i>glabrata</i> ; vars. not recognized in <i>Flora of</i> <i>North America</i> (2006)	Canadian horseweed	AnnF	Wide	Pres	Unc	Lederer & Clark 04-97 (CURE)	2004	
Asteraceae (Compositae)	<i>Cyclachaena xanthifolia</i>	<i>Iva xanthifolia</i>	marsh-elder	AnnF	Wide	Pres	Unc	Hall 587 (COLO)	1961	
Asteraceae (Compositae)	<i>Dugaldia hoopesii</i>	<i>Helenium hoopesii</i> , <i>Hymenoxys hoopesii</i>	orange sneezeweed	PerF	Wide	Pres	Unc	Clark & Lederer 2081 (CURE)	2003	
Asteraceae (Compositae)	<i>Erigeron concinnus</i>	<i>E. pumilus</i> var. <i>concinnus</i> , <i>E.</i> <i>concinnus</i> var. <i>concinnus</i>	Navajo fleabane	PerF	Wide	Pres	Com	Engel 36 (CURE)	1961	
Asteraceae (Compositae)	<i>Erigeron divergens</i>	<i>E. divergens</i> var. <i>divergens</i>	spreading daisy	PerF	Wide	Rep	Unc	Flowers et al. (1962)	1961	Known from BLCA
Asteraceae (Compositae)	<i>Erigeron eatonii</i>	<i>E. eatonii</i> var. <i>eatonii</i>	Eaton's daisy	PerF	Wide	Pres	Com	Hogan, Clark, & Lederer 4003 (COLO)	1995	
Asteraceae (Compositae)	<i>Erigeron engelmannii</i>		Engelmann's daisy	PerF	Wide	Pres	Unc	Hogan & Tembrock 4326 (CURE)	1995	
Asteraceae (Compositae)	<i>Erigeron flagellaris</i>		trailing daisy	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asteraceae (Compositae)	<i>Erigeron glabellus</i>	<i>E. glabellus</i> var. <i>glabellus</i>	smooth daisy	PerF	Wide	Pres	Unc	Engel 68 (CURE)	1980	
Asteraceae (Compositae)	<i>Erigeron leiomerus</i>		smooth daisy	PerF	Wide	Pres	Unc	Clark 2231 (CURE)	2004	
Asteraceae (Compositae)	<i>Erigeron speciosus</i>	<i>E. speciosus</i> var. <i>macranthus</i>	aspen daisy	PerF	Wide	Pres	Com	Clark & Lederer 2080 (CURE)	1961	
Asteraceae (Compositae)	<i>Erigeron subtrinervis</i>	<i>E. speciosus</i> var. <i>mollis</i>	hairy pretty daisy	PerF	Wide	Rep	Rare	NCPN (in ed.)	2001	
Asteraceae (Compositae)	<i>Erigeron vetensis</i>		La Veta daisy	PerF	RegEn	Rep	Rare	NCPN (in ed.)	2001	
Asteraceae (Compositae)	<i>Eucephalus glaucus</i>	<i>Aster glaucodes</i> , <i>Eurybia glauca</i> , <i>Herrickia glauca</i> var. <i>glauca</i>	blueleaf aster	PerF	Wide	Pres	Unc	Clark & Lederer 2133 (CURE)	2003	
Asteraceae (Compositae)	<i>Gaillardia x grandiflora</i>	Hybrid of <i>G. aristata</i> x <i>G. pulchella</i>	large-flowered blanketflower	PerF	Intro	Pres	Rare	Lederer & Clark 04-85 (CURE)	2004	Hybrid between <i>G. aristata</i> x <i>G. pulchella</i>
Asteraceae (Compositae)	<i>Gnaphalium palustre</i>		lowland cudweed	AnnF	Wide	Rep	Unc	Flowers et al. (1962)	1961	
Asteraceae (Compositae)	<i>Gnaphalium uliginosum</i>	<i>G. exilifolium</i>	slender cudweed	AnnF	Wide	Pres	Unc	Lederer & Clark 03-145 (CURE)	2003	
Asteraceae (Compositae)	<i>Grindelia squarrosa</i> var. <i>squarrosa</i>	Vars. not recognized in <i>Flora of North America</i> (2006)	curly-cup gumweed	PerF	Wide	Pres	Unc	Lederer & Hogan 04-105 (CURE)	1995	May be introduced from C USA
Asteraceae (Compositae)	<i>Gutierrezia sarothrae</i>		broom snakeweed	Shrub	Wide	Pres	Abun	Clark 2124 (COLO)	1961	
Asteraceae (Compositae)	<i>Helianthella uniflora</i>		little sunflower	PerF	Wide	Rep	Rare	NCPN (in ed.)	2001	
Asteraceae (Compositae)	<i>Helianthus annuus</i>	<i>H. annuus</i> ssp. <i>lenticularis</i> , ssp. not recognized in <i>Flora of North America</i> (2006).	common sunflower	AnnF	Wide	Pres	Unc	Clark s.n. (CURE)	1961	
Asteraceae (Compositae)	<i>Helianthus nuttallii</i>	<i>H. nuttallii</i> ssp. <i>nuttallii</i>	Nuttall's sunflower	PerF	Wide	Pres	Unc	Engel 142 (CURE)	1980	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asteraceae (Compositae)	<i>Helianthus petiolaris</i>	<i>H. petiolaris</i> sp. <i>fallax</i>	prairie sunflower	AnnF	Wide	Pres	Unc	Lederer & Clark 2219 (CURE)	1961	
Asteraceae (Compositae)	<i>Helioomeris multiflora</i> var. <i>multiflora</i>	<i>Viguiera multiflora</i> var. <i>multiflora</i>	showy goldeneye	PerF	Wide	Pres	Com	Clark 2126 (COLO)	1961	
Asteraceae (Compositae)	<i>Heterotheca villosa</i>	<i>Chrysopsis villosa</i> var. <i>villosa</i>	hairy golden-aster	PerF	Wide	Pres	Com	Lederer & Clark 03-52 (CURE)	1961	
Asteraceae (Compositae)	<i>Hymenopappus filifolius</i> var. <i>parvulus</i>		fineleaf woollywhite	PerF	RegEn	Pres	Unc	Clark & Hogan 1973 (CURE)	1995	Type locality is Gunnison, Gunnison Co., CO (Baker 449)
Asteraceae (Compositae)	<i>Iva axillaris</i>	<i>I. axillaris</i> var. <i>axillaris</i> ; vars. not recognized in <i>Flora of North America</i> (2006).	poverty-weed	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Asteraceae (Compositae)	<i>Lactuca serriola</i>		prickly lettuce	AnnF	Intro	Pres	Unc	Engel 125 (CURE)	1961	Native to Europe
Asteraceae (Compositae)	<i>Lactuca tatarica</i> var. <i>pulchella</i>	<i>L. pulchella</i> , L. <i>oblongifolia</i> , <i>Mulgedium</i> <i>pulchellum</i>	blue lettuce	PerF	Wide	Pres	Unc	Engel 138 (CURE)	1961	
Asteraceae (Compositae)	<i>Leucanthemum vulgare</i>	<i>Chrysanthemum</i> <i>leucanthemum</i>	ox-eye daisy	PerF	Intro	Pres	Unc	Clark 2111 (CURE)	1961	CO state noxious weed (List B). Native to Eurasia.
Asteraceae (Compositae)	<i>Leucelene ericoides</i>	<i>Aster arenosus</i> , <i>Chaetopappa</i> <i>ericoides</i> , <i>Pleurochaete</i> <i>ericoides</i>	rose-heath	PerF	Wide	Pres	Unc	Clark 2203 (CURE)	1961	
Asteraceae (Compositae)	<i>Ligularia bigelovii</i> var. <i>hallii</i>	<i>Senecio bigelovii</i> var. <i>hallii</i>	Bigelow's groundsel	PerF	RegEn	Pres	Unc	Engel 152 (CURE)	1980	
Asteraceae (Compositae)	<i>Ligularia pudica</i>	<i>Senecio pudicus</i>	bashful groundsel	PerF	RegEn	Pres	Unc	Clark 2114 (CURE)	1995	
Asteraceae (Compositae)	<i>Lygodesmia juncea</i>		rush skeleton- plant	PerF	Wide	Rep	Rare	NCPN (in ed.)	2001	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asteraceae (Compositae)	<i>Machaeranthera canescens</i>	<i>M. canescens</i> var. <i>canescens</i> , <i>Aster canescens</i> , <i>Dieteria canescens</i> var. <i>canescens</i>	hoary aster	PerF	Wide	Pres	Com	Lederer & Hogan 04-107 (COLO)	1980	
Asteraceae (Compositae)	<i>Machaeranthera gracilis</i>	<i>Haplopappus gracilis</i> , <i>Xanthisma gracile</i>	slender goldenweed	AnnF	Periph	Rep	Rare	NCPN (in ed.)	2001	
Asteraceae (Compositae)	<i>Machaeranthera grindelioides</i>	<i>M. grindelioides</i> var. <i>grindelioides</i> , <i>Haplopappus nuttallii</i> , <i>Xanthisma grindelioides</i> var. <i>grindelioides</i>	gumweed aster	PerF	Wide	Pres	Unc	Clark & Hogan 1974 (CURE)	2001	
Asteraceae (Compositae)	<i>Matricaria perforata</i>	<i>Matricaria maritima</i> , <i>Tripleurospermum perforata</i> , <i>T. inodorum</i> , <i>T. maritima</i> ssp. <i>maritima</i>	scentless chamomile	PerF	Intro	Pres	Unc	Tonnesen s.n. (CURE)	1995	CO state noxious weed (List B). Native to Europe.
Asteraceae (Compositae)	<i>Oligosporus dracunculus</i> ssp. <i>dracunculinus</i>	<i>Artemisia dracunculus</i> ssp. <i>dracunculinus</i> ; vars. not recognized in <i>Flora of North America</i> (2006)	tarragon	PerF	Wide	Pres	Unc	Lederer & Clark 03-194 (CURE)	1961	
Asteraceae (Compositae)	<i>Oligosporus pacificus</i>	<i>O. campestris</i> ssp. <i>pacificus</i> , <i>Artemisia campestris</i> ssp. <i>pacificus</i> , <i>A. campestris</i> var. <i>scouleriana</i>	sand wormwood	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	
Asteraceae (Compositae)	<i>Packera multilobata</i>	<i>Senecio multilobatus</i>	basin groundsel	PerF	Wide	Pres	Com	Tonnesen s.n. (CURE)	1995	
Asteraceae (Compositae)	<i>Packera neomexicana</i>	<i>Senecio neomexicanus</i> var. <i>mutabilis</i> , <i>P. neomexicana</i> var. <i>mutabilis</i>	New Mexico groundsel	PerF	Wide	Pres	Com	Clark 2213 (CURE)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asteraceae (Compositae)	<i>Packera pseudaura</i>	<i>P. pseudaura</i> var. <i>pseudaura</i> , <i>Senecio pseudaura</i> var. <i>pseudaura</i>	streambank groundsel	PerF	Wide	Pres	Unc	Hogan & Clark 4019 (COLO)	1980	
Asteraceae (Compositae)	<i>Packera streptanthifolia</i>	<i>Senecio streptanthifolius</i> var. <i>streptanthifolius</i> , <i>P. streptanthifolia</i> var. <i>streptanthifolia</i> . Vars. not recognized in <i>Flora of North America</i> (2006)	Rocky Mountain groundsel	PerF	Wide	Rep	Rare	Flowers et al. (1962)	1961	Cited as <i>Senecio cymbalarioides</i> and <i>S. platylobus</i> in Flowers et al. (1962)
Asteraceae (Compositae)	<i>Petradoria pumila</i>	<i>P. pumila</i> var. <i>pumila</i> , <i>Solidago petradoria</i>	rock-goldenrod	PerF	Wide	Rep	?	NCPN (in ed.)	2001	Known from BLCA
Asteraceae (Compositae)	<i>Psilochenia acuminata</i>	<i>Crepis acuminata</i>	mountain hawksbeard	PerF	Wide	Pres	Unc	Hogan & Tembrock 4330 (CURE)	2004	
Asteraceae (Compositae)	<i>Psilochenia occidentalis</i>	<i>Crepis occidentalis</i> var. <i>occidentalis</i>	western hawksbeard	PerF	Wide	Pres	Unc	Clark & Hogan 1957 (CURE)	1961	
Asteraceae (Compositae)	<i>Ratibida columnifera</i>		prairie coneflower	PerF	Wide	Pres	Rare	Clark & Lederer 2255 (CURE)	2004	
Asteraceae (Compositae)	<i>Rudbeckia ampla</i>	<i>R. laciniata</i> var. <i>ampla</i>	cutleaf coneflower	PerF	Wide	Pres	Unc	Clark 2116 (COLO)	1961	
Asteraceae (Compositae)	<i>Rudbeckia hirta</i>	<i>R. hirta</i> var. <i>pulcherrima</i>	black-eyed Susan	PerF	Wide	Pres	Unc	Lederer & Clark 04-93 (CURE)	1961	Native to E North America
Asteraceae (Compositae)	<i>Rudbeckia occidentalis</i> var. <i>montana</i>	<i>R. montana</i>	montane coneflower	PerF	RegEn	Pres	Rare	Lederer & Hogan 04-121 (CURE)	2004	
Asteraceae (Compositae)	<i>Senecio atratus</i>		black groundsel	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Asteraceae (Compositae)	<i>Senecio crassulus</i>		thickleaf groundsel	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asteraceae (Compositae)	<i>Senecio eremophilus</i> var. <i>kingii</i>	<i>S. ambrosioides</i>	cut-leaved groundsel	PerF	Wide	Pres	Unc	Lederer & Clark 03-86 (CURE)	1961	
Asteraceae (Compositae)	<i>Senecio integerrimus</i>	<i>S. integerrimus</i> var. <i>exaltatus</i>	western groundsel	PerF	Wide	Pres	Com	Morse 3174 (COLO)	1961	
Asteraceae (Compositae)	<i>Senecio serra</i> var. <i>admirabilis</i>		saw-toothed groundsel	PerF	RegEn	Pres	Rare	Lederer & Hogan 04-114 (CURE)	2004	
Asteraceae (Compositae)	<i>Senecio spartioides</i>	<i>S. spartioides</i> var. <i>spartioides</i> ; vars. not recognized in <i>Flora of North America</i> (2006).	broom groundsel	PerF	Wide	Pres	Unc	Lederer & Clark 03-176 (CURE)	2003	
Asteraceae (Compositae)	<i>Senecio triangularis</i>		arrowleaf groundsel	PerF	Wide	Pres	Unc	Lederer & Hogan 04-117 (COLO)	2004	
Asteraceae (Compositae)	<i>Seriphidium novum</i>	<i>Artemisia nova</i> , <i>A. nova</i> var. <i>nova</i> , <i>A. arbuscula</i> var. <i>nova</i>	black sagebrush	Shrub	Wide	Pres	Unc	Lederer & Clark 04-86 (CURE)	1961	
Asteraceae (Compositae)	<i>Seriphidium tridentatum</i> ssp. <i>tridentatum</i>	<i>Artemisia tridentata</i> var. <i>tridentata</i>	basin big sagebrush	Shrub	Wide	Pres	Unc	Hogan, Clark, & Lederer 3999 (COLO)	1961	
Asteraceae (Compositae)	<i>Seriphidium tridentatum</i> ssp. <i>wyomingense</i>	<i>Artemisia tridentata</i> var. <i>wyomingensis</i>	Wyoming big sagebrush	Shrub	Wide	Pres	Abun	Clark & Lederer 2241 (CURE)	2004	
Asteraceae (Compositae)	<i>Seriphidium vaseyanum</i>	<i>Artemisia tridentata</i> var. <i>vaseyana</i> ; includes <i>A. tridentata</i> var. <i>pauciflora</i>	mountain big sagebrush	Shrub	Wide	Pres	Abun	Lederer & Clark 04-100 (CURE)	1995	
Asteraceae (Compositae)	<i>Solidago canadensis</i>	<i>S. canadensis</i> var. <i>salebrosa</i> , <i>S. lepida</i> var. <i>salebrosa</i>	Canadian goldenrod	PerF	Wide	Pres	Unc	Engel 105 (CURE)	1961	
Asteraceae (Compositae)	<i>Solidago multiradiata</i>	<i>S. multiradiata</i> var. <i>scopulorum</i> ; vars. not recognized in <i>Flora of North America</i> (2006).	Rocky Mountain goldenrod	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asteraceae (Compositae)	<i>Solidago simplex</i>	<i>S. spathulata</i> ; includes vars. <i>nana</i> and <i>neomexicana</i>	coast goldenrod	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	
Asteraceae (Compositae)	<i>Solidago velutina</i>	<i>S. sparsiflora</i> , <i>S. velutina</i> var. <i>sparsiflora</i>	three-nerve goldenrod	PerF	Wide	Pres	Com	Clark 2118 (CURE)	1961	
Asteraceae (Compositae)	<i>Stenotus armerioides</i>	<i>Haplopappus armerioides</i> var. <i>armerioides</i> , <i>S. armerioides</i> var. <i>armerioides</i>	thrift goldenweed	PerF	Wide	Pres	Com	Clark & Hogan 1975 (CURE)	1961	
Asteraceae (Compositae)	<i>Stephanomeria pauciflora</i>		brown-plume wire-lettuce	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA. Cited as <i>Ptiloria pauciflora</i> by Flowers et al. (1962)
Asteraceae (Compositae)	<i>Stephanomeria tenuifolia</i>	<i>S. minor</i> var. <i>minor</i> , <i>S. tenuifolia</i> var. <i>tenuifolia</i> ; vars. not recognized in <i>Flora of North America</i> (2003)	slender wirelettuce	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	Cited as <i>Ptiloria tenuifolia</i> by Flowers et al. (1962)
Asteraceae (Compositae)	<i>Tanacetum vulgare</i>		common tansy	PerF	Intro	Rep	Rare	Flowers et al. (1962)	1961	Native to Europe
Asteraceae (Compositae)	<i>Taraxacum officinale</i>		common dandelion	PerF	Intro	Pres	Unc	Engel 104 (CURE)	1961	Native to Eurasia
Asteraceae (Compositae)	<i>Tetradymia canescens</i>		spineless horsebrush	Shrub	Wide	Pres	Unc	Clark & Lederer 2145 (CURE)	1961	
Asteraceae (Compositae)	<i>Tetranuris acaulis</i> var. <i>arizonica</i>	<i>Hymenoxys acaulis</i> var. <i>acaulis</i> , <i>T. acaulis</i> var. <i>acaulis</i>	stemless hymenoxys	PerF	Wide	Pres	Unc	Morse 3175 (COLO)	1961	
Asteraceae (Compositae)	<i>Tetranuris ivesiana</i>	<i>Hymenoxys argentea</i> var. <i>ivesiana</i> , <i>H. acaulis</i> var. <i>ivesiana</i>	Canyonlands hymenoxys	PerF	Wide	Pres	Unc	Weber 16017 (COLO)	1982	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Asteraceae (Compositae)	<i>Tetraneuris torreyana</i>	<i>Hymenoxys torreyana</i>	Torrey's hymenoxys	PerF	RegEn	Pres	Unc	Hogan, Clark, & Lederer 3994 (CURE)	1995	
Asteraceae (Compositae)	<i>Townsendia exscapa</i>		stemless townsendia	PerF	Wide	Pres	Unc	Hogan 4247 (COLO)	1961	
Asteraceae (Compositae)	<i>Townsendia incana</i>		hoary townsendia	PerF	Wide	Pres	Unc	Clark & Lederer 2167 (CURE)	1995	
Asteraceae (Compositae)	<i>Tragopogon dubius</i> var. <i>major</i>	<i>T. dubius</i>	yellow salsify	PerF	Intro	Pres	Unc	Engel 110 (CURE)	1961	Native to Europe
Asteraceae (Compositae)	<i>Virgularia ascendens</i>	<i>Aster ascendens</i> , <i>A. chilensis</i> ssp. <i>ascendens</i> , <i>Symphotrichum ascendens</i>	Pacific aster	PerF	Wide	Rep	Rare	Flowers et al. (1962)	1961	Known from BLCA
Asteraceae (Compositae)	<i>Virgulus campestris</i>	<i>Aster campestris</i> , <i>Symphotrichum campestre</i>	western meadow aster	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	
Asteraceae (Compositae)	<i>Wyethia amplexicaulis</i>		mule's-ears	PerF	Wide	Rep	Unc	Flowers et al. (1962)	1961	Known from BLCA
Asteraceae (Compositae)	<i>Wyethia x magna</i>	Hybrid of <i>W. amplexicaulis</i> x <i>W. arizonica</i>	hybrid wyethia	PerF	RegEn	Pres	Unc	Clark & Lederer s.n.	2003	
Asteraceae (Compositae)	<i>Xanthium strumarium</i>	<i>X. pensylvanicum</i> , <i>X. saccharatum</i> , <i>X. strumarium</i> var. <i>canadense</i> ; vars. not recognized in <i>Flora of North America</i> (2006).	rough cocklebur	AnnF	Wide	Rep	?	Flowers et al. (1962)	1961	
Asteraceae (Compositae)	<i>Ximenesia encelioides</i>	<i>Verbena encelioides</i> var. <i>exauriculata</i>	golden crownbeard	AnnF	Wide	Pres	Unc	Lederer & Clark 03-196 (CURE)	1995	
Berberidaceae	<i>Berberis fendleri</i>		Fendler's barberry	Shrub	RegEn	Rep	Rare	NCPN (in ed.)	2001	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Berberidaceae	<i>Mahonia repens</i>	<i>Berberis repens</i>	Oregon-grape	Shrub	Wide	Pres	Com	Lederer & Clark 03-113 (CURE)	1961	
Betulaceae	<i>Alnus incana</i> ssp. <i>tenuifolia</i>	<i>A. tenuifolia</i> , <i>A. incana</i> var. <i>occidentalis</i>	thinleaf alder	Shrub	Wide	Pres	Com	Hogan & Tembrock 4315 (CURE)	1961	
Betulaceae	<i>Betula fontinalis</i>	<i>B. occidentalis</i>	water birch	Tree	Wide	Pres	Unc	O'Brien s.n. (CURE)	1961	
Boraginaceae	<i>Cryptantha crassipala</i> var. <i>elachantha</i>		thick-sepaled cryptanth	AnnF	Wide	Pres	Unc	Flowers 714 (COLO)	1961	
Boraginaceae	<i>Cryptantha fendleri</i>		sand dune cryptanth	AnnF	Wide	Pres	Unc	Lederer & Hogan 04- 109 (CURE)	2001	
Boraginaceae	<i>Cryptantha gracilis</i>		slender cryptanth	AnnF	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Boraginaceae	<i>Cynoglossum officinale</i>		common hound's- tongue	PerF	Intro	Rep	Rare	NCPN (in ed.)	2001	CO state noxious weed (List B). Native to Eurasia. Known from BLCA
Boraginaceae	<i>Hackelia floribunda</i>		showy stickseed	PerF	Wide	Pres	Unc	Lederer & Clark 03-56 (CURE)	1961	
Boraginaceae	<i>Lappula redowskii</i>	<i>L. redowskii</i> var. <i>redowskii</i> , <i>L.</i> <i>occidentalis</i> var. <i>occidentalis</i>	western stickseed	AnnF	Wide	Pres	Com	Engel 75 (CURE)	1961	
Boraginaceae	<i>Lithospermum incisum</i>		showy stoneseed	PerF	Wide	Pres	Unc	Lederer & Clark 04-11 (COLO)	1995	
Boraginaceae	<i>Lithospermum multiflorum</i>		southwestern stoneseed	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Boraginaceae	<i>Lithospermum ruderae</i>		western stoneseed	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Boraginaceae	<i>Mertensia brevistyla</i>		short-styled bluebell	PerF	Wide	Rep	?	NCPN (in ed.)	2001	Known from BLCA

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Boraginaceae	<i>Mertensia ciliata</i>		streamside bluebell	PerF	Wide	Pres	Unc	Clark & Lederer 2247 (CURE)	1961	
Boraginaceae	<i>Oreocarya flavoculata</i>	<i>Cryptantha flavoculata</i>	yellow-eye cryptanth	PerF	Wide	Pres	Com	Clark 2200 (CURE)	1961	
Boraginaceae	<i>Oreocarya suffruticosa</i>	<i>Cryptantha jamesii</i> , <i>C. cinerea</i> var. <i>jamesii</i>	James' cryptanth	PerF	Wide	Rep	Rare	Flowers et al. (1962)	1961	
Brassicaceae (Cruciferae)	<i>Alyssum desertorum</i>		desert madwort	AnnF	Intro	Pres	Com	Hogan & Clark 4046 (CURE)	2003	Native to Europe
Brassicaceae (Cruciferae)	<i>Arabis hirsuta</i>	Includes vars. <i>glabrata</i> & <i>pyncocarpa</i>	hairy rockcress	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Brassicaceae (Cruciferae)	<i>Barbarea orthoceras</i>		northern wintercress	PerF	Wide	Pres	Unc	Engel 2 (CURE)	1980	
Brassicaceae (Cruciferae)	<i>Barbarea vulgaris</i>		European wintercress	PerF	Intro	Pres	Unc	Hogan & Clark 4038 (CURE)	2003	Native to Eurasia
Brassicaceae (Cruciferae)	<i>Boehera crandallii</i>	<i>Arabis crandallii</i>	Crandall's rockcress	PerF	RegEn	Pres	Com	Clark & Hogan 1967 (CURE)	1898	Type locality is Cimarron, Montrose Co., CO (Crandall 6 GH). CO BLM Sensitive
Brassicaceae (Cruciferae)	<i>Boehera demissa</i> var. <i>demissa</i>	<i>Arabis demissa</i>	nodding rockcress	PerF	LocEn	Pres	Unc	Hogan 4244 (COLO)	1961	Type locality is Cimarron, Montrose Co., CO (Baker 16 ND-G). USFWS: 3C
Brassicaceae (Cruciferae)	<i>Boehera divaricarpa</i>	<i>Arabis confinis</i> , <i>A. holboellii</i> var. <i>brachycarpa</i> , <i>A. x divaricarpa</i> , <i>B. brachycarpa</i>	spreadingpod rockcress	PerF	Wide	Pres	Com	Hogan & Tembrock 4257b (COLO)	2001	Often considered a hybrid swarm involving <i>Arabis drummondii</i> with <i>A. holboellii</i> , <i>A. sparsiflora</i> , <i>A. pendulina</i> , & <i>A. perennans</i> .

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Brassicaceae (Cruciferae)	<i>Boechea drummondii</i>	<i>B. stricta</i> , <i>B. angustifolia</i> , <i>Arabis drummondii</i>	Drummond's rockcress	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	Known from BLCA
Brassicaceae (Cruciferae)	<i>Boechea fendleri</i>	<i>Arabis fendleri</i> , <i>A. holboellii</i> var. <i>fendleri</i> , <i>Boechea fendleri</i> var. <i>spatifolia</i> ; vars. not recognized in Holmgren et al. (2005)	Fendler's rockcress	PerF	Wide	Pres	Unc	Hogan & Tembrock 4321 (CURE)	2001	
Brassicaceae (Cruciferae)	<i>Boechea gunnisoniana</i>	<i>Arabis gunnisoniana</i>	Gunnison's rockcress	PerF	LocEn	Pres	Unc	Hogan, Clark, & Lederer 4005 (CURE)	2001	Type locality is Saguache Creek, Gunnison Co., CO (Rollins 2090 GH)
Brassicaceae (Cruciferae)	<i>Boechea lignifera</i>	<i>Arabis lignifera</i>	Sweetwater rockcress	PerF	Wide	Pres	Unc	Lederer & Clark 04-17 (CURE)	1995	
Brassicaceae (Cruciferae)	<i>Boechea oxylobula</i>	<i>Arabis oxylobula</i>	Glenwood Springs rockcress	PerF	LocEn	Pres	Unc	Hogan & Tembrock 4259 (CURE)	1979	Type locality is Glenwood Springs, Garfield Co., CO (Osterhout s.n.)
Brassicaceae (Cruciferae)	<i>Boechea pallidifolia</i>	<i>Arabis pallidifolia</i>	Gunnison County rockcress	PerF	LocEn	Rep	Rare	NCPN (in ed.)	2001	Known from BLCA. Type locality is hill above Sapinero, Gunnison Co., CO (Rollins & Rollins 8376 GH)
Brassicaceae (Cruciferae)	<i>Boechea perennans</i>	<i>Arabis perennans</i> var. <i>perennans</i>	perennial rockcress	PerF	Wide	Rep	Rare	NCPN (in ed.)	2001	Known from BLCA
Brassicaceae (Cruciferae)	<i>Boechea retrofracta</i>	<i>B. holboellii</i> var. <i>secunda</i> , <i>Arabis holboellii</i> var. <i>secunda</i> , <i>A. holboellii</i> var. <i>retrofracta</i>	Holboell's rockcress	PerF	Wide	Pres	Unc	Morse 3191 (COLO)	1999	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Brassicaceae (Cruciferae)	<i>Boechea selbyi</i>	<i>B. selbyi</i> var. <i>selbyi</i> , <i>Arabis selbyi</i>	Selby's rockcress	PerF	Wide	Pres	Unc	Clark & Lederer 2182 (CURE)	2001	
Brassicaceae (Cruciferae)	<i>Camelina microcarpa</i>		little-pod false flax	AnnF	Intro	Rep	?	Flowers et al. (1962)	1961	Native to Asia. Known from BLCA.
Brassicaceae (Cruciferae)	<i>Capsella bursa-pastoris</i>		shepherd's-purse	AnnF	Intro	Pres	Unc	Clark & Lederer 2246 (CURE)	1980	Native to Europe
Brassicaceae (Cruciferae)	<i>Cardamine cordifolia</i>	<i>C. cordifolia</i> var.	heartleaf bittercress	PerF	Wide	Pres	Unc	Engel 12 (CURE)	1961	
Brassicaceae (Cruciferae)	<i>Cardaria chalepensis</i>	<i>C. draba</i> sp. <i>chalepensis</i> , <i>C. draba</i> var. <i>repens</i>	orbicular whitetop	PerF	Intro	Pres	Unc	Engel 35 (CURE)	1980	Native to Europe
Brassicaceae (Cruciferae)	<i>Cardaria draba</i>	<i>Lepidium draba</i> , <i>C. draba</i> var. <i>draba</i>	whitetop	PerF	Intro	Pres	Unc	Lammers 8888 (COLO)	1961	CO state noxious weed (List B). Native to Europe
Brassicaceae (Cruciferae)	<i>Cardaria pubescens</i>		hairy whitetop	PerF	Intro	Pres	Unc	Lederer & Clark 04-73 (CURE)	2001	Native to Asia
Brassicaceae (Cruciferae)	<i>Chorispora tenella</i>		blue mustard	AnnF	Intro	Pres	Unc	Engel 15 (CURE)	1961	Native to Asia
Brassicaceae (Cruciferae)	<i>Descurainia incisa</i> ssp. <i>filipes</i>	<i>D. pinnata</i> var. <i>filipes</i>	western tansy- mustard	AnnF	Wide	Rep	Rare	Flowers et al. (1962)	1961	Known from BLCA
Brassicaceae (Cruciferae)	<i>Descurainia incisa</i> ssp. <i>incisa</i>	<i>D. richardsonii</i> var. <i>sonnei</i> , <i>D. incana</i> var. <i>incana</i> , <i>D. incana</i> var. <i>sonnei</i>	mountain tansy- mustard	AnnF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Brassicaceae (Cruciferae)	<i>Descurainia incisa</i> ssp. <i>viscosa</i>	<i>D. incana</i> var. <i>viscosa</i> , <i>D. richardsonii</i> var. <i>viscosa</i> , <i>D. incisa</i> var. <i>leptophylla</i>	slender-leaved tansy-mustard	AnnF	Wide	Pres	Unc	Hogan 4243 (CURE)	2004	
Brassicaceae (Cruciferae)	<i>Descurainia sophia</i>		flixweed	AnnF	Intro	Pres	Unc	Clark & Lederer 2237 (CURE)	1961	Native to Europe

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Brassicaceae (Cruciferae)	<i>Draba cuneifolia</i>	<i>D. cuneifolia</i> var. <i>cuneifolia</i>	wedgeleaf draba	AnnF	Wide	Rep	?	Hogan et al. (2005), NPS veg study	2001	
Brassicaceae (Cruciferae)	<i>Draba rectifracta</i>		mountain draba	AnnF	RegEn	Pres	Unc	Tonnesen & O'Brien s.n. (CURE)	1995	Type locality is South Park, Park Co., CO (Wolf & Rothrock 637 GH)
Brassicaceae (Cruciferae)	<i>Draba spectabilis</i>	Includes vars. <i>oxyloba</i> & <i>spectabilis</i>	splendid draba	PerF	RegEn	Pres	Unc	Hogan & Tembrock 4251 (CURE)	2004	Type locality is La Plata Mtns, La Plata Co., CO (Baker, Earle, & Tracy s.n.)
Brassicaceae (Cruciferae)	<i>Erysimum capitatum</i>	<i>E. capitatum</i> var. <i>capitatum</i> , <i>E. asperum</i> var. <i>arkansanum</i> , <i>E. asperum</i> var. <i>elatum</i>	western wallflower	PerF	Wide	Pres	Unc	Morse 3190 (COLO)	1961	
Brassicaceae (Cruciferae)	<i>Erysimum cheiranthoides</i> ssp. <i>altum</i>	<i>E. cheiranthoides</i>	worm-seed wallflower	PerF	Wide	Pres	Unc	Clark & Lederer 2037b (CURE)	1980	Sometimes considered adventive from Europe
Brassicaceae (Cruciferae)	<i>Erysimum inconspicuum</i>		shy wallflower	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	
Brassicaceae (Cruciferae)	<i>Lepidium alysooides</i> var. <i>eastwoodiae</i>	<i>L. montanum</i> var. <i>spathulatum</i> , <i>L. eastwoodiae</i>	Eastwood's tall pepperwort	PerF	RegEn	Pres	Unc	Lederer & Clark 03-188 (CURE)	2003	
Brassicaceae (Cruciferae)	<i>Lepidium densiflorum</i>	<i>L. densiflorum</i> var. <i>densiflorum</i>	prairie pepperwort	AnnF	Wide	Pres	Unc	Lederer & Clark 03-51 (CURE)	1961	
Brassicaceae (Cruciferae)	<i>Lepidium montanum</i> var. <i>montanum</i>		mountain pepperwort	PerF	Wide	Pres	Unc	Clark 2197 (COLO)	1961	
Brassicaceae (Cruciferae)	<i>Lepidium perfoliatum</i>		clasping pepperwort	AnnF	Intro	Pres	Unc	Lederer & Clark 03-69 (CURE)	2003	Native to Europe

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Brassicaceae (Cruciferae)	<i>Nasturtium officinale</i>	<i>Rorippa nasturtium-aquaticum</i>	watercress	PerF	Intro	Pres	Unc	Lederer & Clark 03-140 (COLO)	2003	Native to Europe
Brassicaceae (Cruciferae)	<i>Neolepia campestre</i>	<i>Lepidium campestre</i>	field pepperwort	AnnF	Intro	Pres	Unc	Clark & Lederer 2244 (CURE)	2001	Native to Asia
Brassicaceae (Cruciferae)	<i>Noccaea montana</i>	<i>N. montana</i> var. <i>montana</i> , <i>Thlaspi montanum</i> var. <i>montanum</i>	alpine pennycress	PerF	Wide	Pres	Unc	Hogan & Tembrock 4262 (CURE)	1961	Cited as <i>Thlaspi alpestre</i> by Flowers et al. (1962)
Brassicaceae (Cruciferae)	<i>Physaria acutifolia</i>	<i>P. acutifolia</i> var. <i>acutifolia</i> , <i>P. australis</i>	sharp-leaf twinpod	PerF	Wide	Rep	Rare	NCPN (in ed.)	2001	Known from BLCA
Brassicaceae (Cruciferae)	<i>Physaria floribunda</i>		mesa twinpod	PerF	LocEn	Pres	Unc	Hogan & Tembrock 4263 (COLO)	1961	Type locality is Sangre de Cristo Creek, Costilla Co., CO (Rydberg & Vreeland 6135 NY)
Brassicaceae (Cruciferae)	<i>Physaria rollinsii</i>		Rollins' twinpod	PerF	LocEn	Pres	Com	Hogan, Clark, & Lederer 3996 (COLO)	1995	Type locality is 4 miles NW of Doyleville, Gunnison Co., CO (Mulligan & Crampton 2880)
Brassicaceae (Cruciferae)	<i>Rorippa palustris</i> var. <i>hispida</i>	<i>R. islandica</i> var. <i>hispida</i>	hairy yellowcress	PerF	Wide	Pres	Unc	Clark & Lederer 2044 (COLO)	1995	
Brassicaceae (Cruciferae)	<i>Rorippa sinuata</i>		spreading yellowcress	PerF	Wide	Pres	Unc	Lederer & Clark 04-99 (CURE)	1995	
Brassicaceae (Cruciferae)	<i>Rorippa teres</i>		southern marsh yellowcress	PerF	Sparse	Pres	Unc	Hogan 4189 (CURE)	2003	Not included for CO by many authors
Brassicaceae (Cruciferae)	<i>Schoenocrambe linifolia</i>	<i>Sisymbrium linifolium</i>	flax-leaved plainsmustard	PerF	Wide	Pres	Com	Hogan, Clark, & Lederer 4008 (CURE)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Brassicaceae (Cruciferae)	<i>Sisymbrium altissimum</i>		tumble mustard	AnnF	Intro	Pres	Com	Engel 50 (CURE)	1961	Native to Europe
Brassicaceae (Cruciferae)	<i>Streptanthus cordatus</i>	<i>S. cordatus</i> var. <i>cordatus</i>	heart-leaf jewelflower	PerF	Wide	Pres	Unc	Clark & Hogan 1984 (COLO)	1961	
Brassicaceae (Cruciferae)	<i>Thlaspi arvense</i>		field pennycress	AnnF	Intro	Pres	Unc	Hogan & Clark 4040 (CURE)	1961	Native to Europe
Brassicaceae (Cruciferae)	<i>Turritis glabra</i>	<i>Arabis glabra</i> var. <i>glabra</i> ; vars. not recognized in Holmgren et al. (2005)	tower-mustard	PerF	Wide	Pres	Unc	Lederer & Clark 03-104 (COLO)	1995	
Cactaceae	<i>Echinocereus triglochidiatus</i>	<i>E. triglochidiatus</i> var. <i>melanacanthus</i> ; includes var. <i>inermis</i> . Vars. not recognized in <i>Flora of North America</i> (2003).	claretcup	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	Known from BLCA
Cactaceae	<i>Opuntia fragilis</i> var. <i>brachyartha</i>	<i>O. fragilis</i> ; includes <i>O. schweriniana</i>	brittle prickly- pear	PerF	Wide	Pres	Unc	Clark & Lederer 2143 (CURE)	1892	Type of <i>O. schweriniana</i> was collected at Sapinero C.A. Purpus in 1892 (Purpus 13).
Cactaceae	<i>Opuntia polyacantha</i>	<i>O. polyacantha</i> var. <i>polyacantha</i> . <i>Flora of North America</i> (2003) includes vars. <i>rufispina</i> & <i>trichophora</i>	plains prickly-pear	PerF	Wide	Pres	Com	Clark 2198 (CURE)	1961	Cited by Flowers et al. (1962) as var. <i>hystricina</i>
Cactaceae	<i>Pediocactus simpsonii</i> var. <i>minor</i>	Includes var. <i>simpsonii</i>	Simpson's hedgehog cactus	PerF	Wide	Pres	Unc	Hogan 4246 (CURE)	2004	
Calochortaceae (Liliaceae)	<i>Calochortus gunnisonii</i>	<i>C. gunnisonii</i> var. <i>gunnisonii</i>	Gunnison's mariposa	PerF	Wide	Pres	Unc	Einwalter s.n. (CURE)	1961	
Calochortaceae (Liliaceae)	<i>Calochortus nuttallii</i>		sego-lily	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Campanulaceae	<i>Campanula parryi</i>	<i>C. parryi</i> var. <i>parryi</i>	Parry's harebell	PerF	Wide	Pres	Unc	Engel 85 (CURE)	1961	
Campanulaceae	<i>Campanula rotundifolia</i>		harebell	PerF	Wide	Pres	Unc	Clark 2209 (CURE)	1961	
Cannabaceae	<i>Humulus lupulus</i> ssp. <i>americanus</i>	<i>H. lupulus</i> var. <i>neomexicanus</i>	common hops	PerF	Wide	Pres	Unc	Hogan 4193 (CURE)	1961	
Capparaceae (Cleomaceae)	<i>Cleome serrulata</i>		Rocky Mountain beeplant	AnnF	Wide	Pres	Unc	Lederer & Clark 04-94 (COLO)	1961	
Capparaceae (Cleomaceae)	<i>Polanisia dodecandra</i>	<i>P. trachysperma</i> , <i>P. dodecandra</i> var. <i>trachysperma</i>	clammy-weed	AnnF	Wide	Rep	Rare	Flowers et al. (1962)	1961	
Caprifoliaceae	<i>Distegia involucreta</i>	<i>Lonicera involucreta</i>	black twinberry	Shrub	Wide	Pres	Unc	Hogan & Tembrock 4317 (CURE)	1961	
Caprifoliaceae	<i>Symphoricarpos rotundifolius</i>	<i>S. oreophilus</i> var. <i>utahensis</i>	mountain snowberry	Shrub	Wide	Pres	Com	Hogan & Tembrock 4314 (CURE)	1961	
Caprifoliaceae (Adoxaceae)	<i>Sambucus microbotrys</i> var. <i>microbotrys</i>	<i>S. racemosa</i> var. <i>microbotrys</i> ; included in <i>S. racemosa</i> var. <i>racemosa</i> by some authors.	red elderberry	Shrub	Wide	Pres	Unc	Lederer & Clark 04-19 (CURE)	1950	Includes report of <i>S. pubens</i> from Flowers et al. (1962)
Caryophyllaceae	<i>Anotites menziesii</i>	<i>A. menziesii</i> var. <i>menziesii</i> , <i>Silene menziesii</i> var. <i>menziesii</i>	Menzies' campion	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Caryophyllaceae	<i>Gastrolychnis drummondii</i>	<i>Silene drummondii</i> ssp. <i>drummondii</i> , includes vars. <i>striata</i> , <i>kruckebergii</i> , & <i>drummondii</i> , <i>Lychnis drummondii</i>	Drummond's catchfly	PerF	Wide	Pres	Unc	Clark & Hogan 1963 (CURE)	2003	
Caryophyllaceae	<i>Silene noctiflora</i>		night-flowering catchfly	AnnF	Intro	Rep	?	Flowers et al. (1962)	1961	Native to Asia

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Celastraceae	<i>Paxistima myrsinites</i>	<i>Pachistima myrsinites</i> , <i>Pachystima myrsinites</i>	mountain-lover	Shrub	Wide	Pres	Unc	Clark & Lederer 2090 (CURE)	1913	
Chenopodiaceae	<i>Atriplex canescens</i>	<i>A. canescens</i> var. <i>occidentalis</i> , <i>A. canescens</i> var. <i>canescens</i>	fourwing saltbush	Shrub	Wide	Pres	Unc	Lederer & Clark 03-182 (CURE)	1961	
Chenopodiaceae	<i>Atriplex rosea</i>		tumbling orach	AnnF	Intro	Pres	Unc	Tonnesen s.n. (CURE)	1995	Native to Eurasia
Chenopodiaceae	<i>Axyris amaranthoides</i>		Russian pigweed	AnnF	Intro	Rep	Unc	NCPN (in ed.)	2001	Native to Eurasia
Chenopodiaceae	<i>Bassia sieversiana</i>	<i>Kochia scoparia</i> , <i>B. scoparia</i>	summer-cypress	AnnF	Intro	Pres	Unc	Engel 155 (CURE)	1961	Native to Eurasia
Chenopodiaceae	<i>Chenopodium album</i>	<i>C. album</i> var. <i>album</i>	lambquarter	AnnF	Intro	Rep	Unc	Flowers et al. (1962)	1961	Native to Eurasia
Chenopodiaceae	<i>Chenopodium atrovirens</i>	<i>C. fremontii</i> var. <i>atrovirens</i>	mountain goosefoot	AnnF	Wide	Pres	Unc	Clark 2120 (CURE)	2001	
Chenopodiaceae	<i>Chenopodium berlandieri</i>	<i>C. berlandieri</i> var. <i>zschackei</i> , <i>C. album</i> var. <i>berlandieri</i>	pitseed goosefoot	AnnF	Wide	Pres	Unc	Lederer & Clark 03-174 (COLO)	2003	
Chenopodiaceae	<i>Chenopodium capitatum</i>	<i>C. capitatum</i> var. <i>capitatum</i>	strawberry-blite	AnnF	Wide	Rep	?	Flowers et al. (1962)	1961	Cited as <i>Blitum capitatum</i> by Flowers et al. (1962)
Chenopodiaceae	<i>Chenopodium fremontii</i>	<i>C. fremontii</i> var. <i>fremontii</i>	Fremont's goosefoot	AnnF	Wide	Pres	Unc	Clark & Lederer 2139 (CURE)	2001	
Chenopodiaceae	<i>Chenopodium glaucum</i>	<i>C. glaucum</i> var. <i>salinum</i> , <i>C. salinum</i>	oakleaf goosefoot	AnnF	Wide	Pres	Unc	Lederer & Clark 03-191 (COLO)	1961	
Chenopodiaceae	<i>Chenopodium leptophyllum</i>		narrow-leaf goosefoot	AnnF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	

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Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Chenopodiaceae	<i>Krascheninnikovia lanata</i>	<i>K. lanata</i> var. <i>lanata</i> , <i>Ceratoides lanata</i> , <i>Eurotia lanata</i> . Vars. not recognized in <i>Flora of North America</i> (2003).	winterfat	Shrub	Wide	Pres	Com	Clark & Hogan 1985 (CURE)	1961	
Chenopodiaceae	<i>Monolepis nuttalliana</i>		Nuttall's poverty-weed	AnnF	Wide	Pres	Unc	Clark & Lederer 2166 (CURE)	1961	
Chenopodiaceae	<i>Nitrophila occidentalis</i>		niterwort	PerF	Periph	Pres	Rare	Stevens s.n. (CURE)	2005	First record for Colorado. May be introduced.
Chenopodiaceae	<i>Salsola australis</i>	<i>S. kali</i> , <i>S. iberica</i> , <i>S. pestifer</i> , <i>S. tragus</i>	Russian-thistle	AnnF	Intro	Pres	Unc	Engel 136 (CURE)	1961	Native to Asia
Chenopodiaceae	<i>Suaeda calceoliformis</i>	<i>S. depressa</i>	broom seepweed	AnnF	Wide	Rep	?	Flowers et al. (1962)	1961	
Convallariaceae (Liliaceae, Ruscaceae)	<i>Maianthemum amplexicaule</i>	<i>M. racemosum</i> var. <i>amplexicaule</i> , <i>Smilacina racemosa</i>	false Solomon's seal	PerF	Wide	Pres	Com	Lederer & Clark 03-79 (CURE)	1961	
Convallariaceae (Liliaceae, Ruscaceae)	<i>Maianthemum stellatum</i>	<i>Smilacina stellata</i>	starry false Solomon's-seal	PerF	Wide	Pres	Com	Hogan & Clark 4023 (CURE)	1961	
Convolvulaceae	<i>Convolvulus arvensis</i>		field bindweed	PerF	Intro	Pres	Unc	Clark & Lederer 2149 (CURE)	1961	CO state noxious weed (List C). Native to Eurasia.
Cornaceae	<i>Swida sericea</i>	<i>Cornus sericea</i> var. <i>sericea</i> , <i>C. stolonifera</i> , <i>C. alba</i> var. <i>alba</i>	red-osier dogwood	Shrub	Wide	Pres	Unc	Hogan & Clark 4030 (COLO)	1961	
Crassulaceae	<i>Amerosedum lanceolatum</i>	<i>Sedum lanceolatum</i> ; includes ssp. <i>lanceolatum</i> & <i>subalpinum</i>	lance-leaved stonecrop	PerF	Wide	Pres	Com	Lederer & Clark 04-65 (CURE)	1961	Cited as <i>S. stenopetalum</i> by Flowers et al. (1962)
Cryptogrammeaceae (Polypodiaceae, Adiantaceae)	<i>Cryptogramma acrostichoides</i>	<i>C. crispa</i> var. <i>acrostichoides</i>	parsley-fern	Fern	Wide	Pres	Unc	Lederer & Clark 03-77 (CURE)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Cupressaceae	<i>Juniperus communis</i> ssp. <i>alpina</i>	<i>Juniperus communis</i> var. <i>depressa</i>	common juniper	Shrub	Wide	Pres	Unc	Clark & Lederer 2067 (COLO)	1961	
Cupressaceae	<i>Sabina osteosperma</i>	<i>Juniperus osteosperma</i>	Utah juniper	Tree	Wide	Pres	Com	Clark & Lederer 2129 (CURE)	2001	
Cupressaceae	<i>Sabina scopulorum</i>	<i>Juniperus scopulorum</i>	Rocky Mountain juniper	Tree	Wide	Pres	Abun	Lederer & Clark 03-58 (COLO)	1961	
Cyperaceae	<i>Carex aquatilis</i>	<i>C. aquatilis</i> var. <i>aquatilis</i>	water sedge	PerG	Wide	Pres	Unc	Clark & Lederer 2064 (CURE)	2001	
Cyperaceae	<i>Carex aurea</i>	<i>C. garberi</i>	golden sedge	PerG	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Cyperaceae	<i>Carex deweyana</i>	<i>C. deweyana</i> var. <i>deweyana</i> ; included in <i>C. bolanderi</i> by some authors	Dewey's sedge	PerG	Wide	Pres	Unc	Clark & Lederer 2055 (COLO)	2003	
Cyperaceae	<i>Carex foenea</i>	<i>C. siccata</i>	silvertop sedge	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	
Cyperaceae	<i>Carex geyeri</i>		elk sedge	PerG	Wide	Pres	Com	Clark & Lederer 2072 (CURE)	1995	
Cyperaceae	<i>Carex lanuginosa</i>	<i>C. pellita</i>	woolly sedge	PerG	Wide	Pres	Unc	Clark & Lederer 2076 (CURE)	1995	
Cyperaceae	<i>Carex microptera</i>	<i>C. microptera</i> var. <i>microptera</i> , <i>C. festivella</i> , <i>C. macloviana</i> var. <i>microptera</i>	small-wing sedge	PerG	Wide	Pres	Unc	Lederer & Clark 03-90 (COLO)	1961	
Cyperaceae	<i>Carex nebrascensis</i>		Nebraska sedge	PerG	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	
Cyperaceae	<i>Carex occidentalis</i>		western sedge	PerG	Wide	Pres	Com	Clark & Lederer 2155 (COLO)	1952	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Cyperaceae	<i>Carex pennsylvanica</i> ssp. <i>heliophila</i>	<i>C. pennsylvanica</i> var. <i>digyna</i> , <i>C. heliophila</i> , <i>C. inops</i> ssp. <i>heliophila</i>	Pennsylvania sedge	PerG	Wide	Pres	Unc	Clark & Hogan 1979 (COLO)	2003	
Cyperaceae	<i>Carex praegracilis</i>		blackcreeper sedge	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Cyperaceae	<i>Carex stenophylla</i> ssp. <i>eleocharis</i>	<i>C. eleocharis</i> , <i>C. stenophylla</i> , <i>C. duriuscula</i>	narrowleaf sedge	PerG	Wide	Pres	Unc	Hogan, Clark, & Lederer 4006 (CURE)	2001	
Cyperaceae	<i>Carex utriculata</i>	<i>C. rostrata</i> (sensu lato)	beaked sedge	PerG	Wide	Pres	Unc	Hogan & Clark 4016 (CURE)	1961	
Cyperaceae	<i>Carex vallicola</i>		valley sedge	PerG	Wide	Rep	Rare	NCPN (in ed.)	2001	Known from BLCA
Cyperaceae	<i>Carex xerantica</i>	<i>C. tahoensis</i>	dryland sedge	PerG	Wide	Pres	Unc	Lederer & Clark 03-105 (CURE)	2003	
Cyperaceae	<i>Eleocharis acicularis</i>		needle spike-rush	PerG	Wide	Rep	Unc	NCPN (in ed.)	2001	
Cyperaceae	<i>Eleocharis macrostachya</i>	Includes <i>E. palustris</i> , <i>E. erythropoda</i> , & <i>E. uniglumis</i>	common spikerush	PerG	Wide	Pres	Unc	Clark & Lederer 2159 (CURE)	1961	Includes report of <i>E. palustris</i> from Flowers et al. (1962)
Cyperaceae	<i>Schoenoplectus lacustris</i> ssp. <i>acutus</i>	<i>Schoenoplectus acutus</i> var. <i>occidentalis</i> , <i>Schoenoplectus acutus</i> var. <i>acutus</i> , <i>Scirpus acutus</i>	hardstem bulrush	PerG	Wide	Rep	Unc	Hogan et al. (2005), NPS vegetation study	2001	
Cyperaceae	<i>Schoenoplectus pungens</i>	<i>Scirpus pungens</i> var. <i>polyphyllus</i> , <i>Schoenoplectus pungens</i> var. <i>longispicatus</i> , <i>Schoenoplectus pungens</i> var. <i>polyphyllus</i>	three-square bulrush	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	Cited as <i>Scirpus americanus</i> by Flowers et al. (1962)

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Cyperaceae	<i>Scirpus microcarpus</i>		panicked bulrush	PerG	Wide	Pres	Unc	Clark 2228 (CURE)	1961	Includes report of <i>S. rubrotinctus</i> from Flowers et al. (1962)
Elaeagnaceae	<i>Elaeagnus angustifolia</i>		Russian-olive	Tree	Intro	Rep	?	Flowers et al. (1962)	1961	Native to Europe
Elaeagnaceae	<i>Shepherdia argentea</i>		silver buffaloberry	Shrub	Wide	Rep	Rare	Flowers et al. (1962)	1961	
Elaeagnaceae	<i>Shepherdia canadensis</i>		Canada buffaloberry	Shrub	Wide	Rep	Rare	NCPN (in ed.)	2001	
Equisetaceae	<i>Equisetum arvense</i>		field horsetail	Fern	Wide	Pres	Unc	Clark s.n. (CURE)	1961	
Equisetaceae	<i>Hippochaete hyemalis</i> var. <i>affinis</i>	<i>Equisetum hyemale</i> var. <i>affine</i> , <i>E. praealtum</i>	tall scouring-rush	Fern	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Equisetaceae	<i>Hippochaete laevigata</i>	<i>Equisetum laevigatum</i> , <i>E. kansasum</i>	smooth scouring-rush	Fern	Wide	Pres	Unc	Hogan & Clark 4039 (CURE)	1961	
Ericaceae	<i>Arctostaphylos uva-ursi</i> ssp. <i>coactilis</i>	<i>A. uva-ursi</i> var. <i>uva-ursi</i> ; vars. not recognized in Holmgren et al. (2005)	bearberry	Shrub	Wide	Pres	Unc	Lederer & Clark 03-123 (COLO)	1961	
Euphorbiaceae	<i>Chamaesyce fendleri</i>	<i>Euphorbia fendleri</i>	Fendler's spurge	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Euphorbiaceae	<i>Chamaesyce glyptosperma</i>	<i>Euphorbia glyptosperma</i>	ridge-seeded spurge	AnnF	Wide	Pres	Unc	Clark & Lederer 2157 (CURE)	1961	
Euphorbiaceae	<i>Tithymalus brachyceras</i>	<i>Euphorbia robusta</i> , <i>E. brachycera</i> , <i>E. brachycera</i> var. <i>robusta</i>	shorthorn spurge	PerF	Wide	Pres	Unc	Clark & Hogan 1986 (COLO)	1961	
Fabaceae (Leguminosae)	<i>Astragalus agrestis</i>	<i>A. dasyglottis</i>	field milkvetch	PerF	Wide	Pres	Unc	Lederer & Clark 03-136 (CURE)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Fabaceae (Leguminosae)	<i>Astragalus anisus</i>		Gunnison milkvetch	PerF	LocEn	Pres	Unc	Lederer & Clark 04-14 (CURE)	2001	Type locality is east of Gunnison, Gunnison Co., CO (not Pueblo as originally reported) (Lansing s.n.). CO BLM Sensitive
Fabaceae (Leguminosae)	<i>Astragalus cicer</i>		chickpea milkvetch	PerF	Intro	Pres	Unc	Tonnesen s.n. (CURE)	1995	Native to Europe
Fabaceae (Leguminosae)	<i>Astragalus convallarius</i>	<i>A. diversifolius</i> var. <i>campestris</i> , <i>A.</i> <i>convallarius</i> var. <i>convallarius</i>	lesser rushy milkvetch	PerF	Wide	Pres	Com	Lederer & Clark 03-126 (CURE)	1961	
Fabaceae (Leguminosae)	<i>Astragalus drummondii</i>		Drummond's milkvetch	PerF	Wide	Pres	Unc	Clark & Hogan 1969 (COLO)	1970	
Fabaceae (Leguminosae)	<i>Astragalus iodopetalus</i>		violet milkvetch	PerF	RegEn	Rep	?	Flowers et al. (1962)	1961	Type locality is Arboles, Archuleta Co., CO (Baker 415 NY)
Fabaceae (Leguminosae)	<i>Astragalus oophorus</i> var. <i>caulescens</i>		egg milkvetch	PerF	Wide	Pres	Unc	O'Brien s.n. (CURE)	1995	
Fabaceae (Leguminosae)	<i>Astragalus scopulorum</i>		Rocky Mountain milkvetch	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Fabaceae (Leguminosae)	<i>Astragalus tenellus</i>		pulse milkvetch	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	
Fabaceae (Leguminosae)	<i>Caragana arborescens</i>		Siberian pea-tree	Shrub	Intro	Pres	Rare	Lederer & Clark 4-76 (CURE)	2004	Native to Siberia
Fabaceae (Leguminosae)	<i>Glycyrrhiza lepidota</i>	<i>G. lepidota</i> var. <i>lepidota</i>	licorice-root	PerF	Wide	Pres	Unc	Clark & Lederer 2251 (CURE)	1961	
Fabaceae (Leguminosae)	<i>Lathyrus eucoismus</i>	<i>L. brachycalyx</i> var. <i>eucoismus</i>	seemly sweetpea	PerF	Wide	Pres	Unc	Flowers 265 (CURE)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Fabaceae (Leguminosae)	<i>Lathyrus leucanthus</i>	<i>L. lanszwertii</i> var. <i>leucanthus</i>	whiteflower sweetpea	PerF	RegEn	Pres	Com	Hogan & Tembrock 4261 (CURE)	2001	Type locality is Ojo, Huerfano Co., CO (Rydberg & Vreeland 6020 NY)
Fabaceae (Leguminosae)	<i>Lotus wrightii</i>		Wright's trefoil	PerF	RegEn	Pres	Unc	Lederer & Clark 03-129 (COLO)	1961	
Fabaceae (Leguminosae)	<i>Lupinus argenteus</i>	<i>L. argenteus</i> var. <i>argenteus</i>	silvery lupine	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Fabaceae (Leguminosae)	<i>Lupinus caudatus</i> var. <i>utahensis</i>	<i>L. argenteus</i> var. <i>utahensis</i> , <i>L. caudatus</i> ssp. <i>caudatus</i>	Utah lupine	PerF	Wide	Pres	Com	Lederer & Clark 03-121 (CURE)	1995	
Fabaceae (Leguminosae)	<i>Lupinus kingii</i>	<i>L. kingii</i> var. <i>kingii</i>	King's lupine	AnnF	Wide	Rep	?	Flowers et al. (1962)	1961	
Fabaceae (Leguminosae)	<i>Lupinus lepidus</i> ssp. <i>caespitosus</i>	<i>L. lepidus</i> var. <i>utahensis</i> , <i>L.</i> <i>caespitosus</i> var. <i>utahensis</i>	stemless lupine	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Fabaceae (Leguminosae)	<i>Lupinus parviflorus</i>	<i>L. argenteus</i> var. <i>laxiflorus</i> , <i>L.</i> <i>argenteus</i> var. <i>parviflorus</i>	smallflower lupine	PerF	Wide	Pres	Unc	Engel 95 (CURE)	1980	
Fabaceae (Leguminosae)	<i>Lupinus sericeus</i>	<i>L. sericeus</i> var. <i>sericeus</i> ; vars. not recognized in Barneby (1989). Includes <i>L. bakeri</i> .	silky lupine	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	
Fabaceae (Leguminosae)	<i>Medicago lupulina</i>		black medick	AnnF	Intro	Pres	Unc	Tonnesen s.n. (CURE)	1995	Native to Europe
Fabaceae (Leguminosae)	<i>Medicago sativa</i>	<i>M. sativa</i> var. <i>sativa</i>	alfalfa	PerF	Intro	Pres	Unc	Engel 137 (CURE)	1961	Native to Europe
Fabaceae (Leguminosae)	<i>Melilotus albus</i>	<i>M. alba</i> ; included in <i>M. officinalis</i> by some authors	white sweet- clover	AnnF	Intro	Pres	Unc	Clark s.n. (CURE)	1961	Native to Europe

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Fabaceae (Leguminosae)	<i>Melilotus officinale</i>	<i>M. officinalis</i>	yellow sweet- clover	PerF	Intro	Pres	Unc	Clark & Lederer 2036 (CURE)	1961	Native to Europe
Fabaceae (Leguminosae)	<i>Oxytropis sericea</i>	<i>O. sericea</i> var. <i>sericea</i>	white locoweed	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Fabaceae (Leguminosae)	<i>Thermopsis montana</i>	<i>T. pinetorum</i> , <i>T. rhombifolia</i> var. <i>montana</i> ; includes <i>T. rhombifolia</i> var. <i>ovata</i>	montane golden pea	PerF	Wide	Pres	Unc	Hogan & Clark 4048 (COLO)	1901	
Fabaceae (Leguminosae)	<i>Trifolium gymnocarpon</i>	<i>T. gymnocarpon</i> var. <i>gymnocarpon</i>	dwarf clover	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Fabaceae (Leguminosae)	<i>Trifolium hybridum</i>		Alsike clover	PerF	Intro	Pres	Unc	Engel 52 (CURE)	1961	Native to Europe
Fabaceae (Leguminosae)	<i>Trifolium longipes</i>	<i>T. longipes</i> var. <i>brachypus</i> , <i>T. longipes</i> var. <i>rusbyi</i> , <i>T. longipes</i> ssp. <i>pygmaeum</i>	Rusby's clover	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Fabaceae (Leguminosae)	<i>Trifolium pratense</i>		red clover	PerF	Intro	Pres	Unc	Lederer & Clark 03-155 (CURE)	1961	Native to Europe
Fabaceae (Leguminosae)	<i>Trifolium repens</i>		white clover	PerF	Intro	Pres	Unc	Lederer & Clark 03-162 (CURE)	1961	Native to Europe
Fabaceae (Leguminosae)	<i>Trifolium wormskioldii</i>	<i>T. wormskioldii</i> var. <i>arizonicum</i> , <i>T. fendleri</i>	cow clover	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Fabaceae (Leguminosae)	<i>Vicia americana</i> var. <i>americana</i>		American vetch	PerF	Wide	Pres	Unc	Flowers 374 (COLO)	1961	
Fagaceae	<i>Quercus gambelii</i>	<i>Q. gambelii</i> var. <i>gambelii</i>	Gambel's oak	Tree	Wide	Pres	Abun	Hall 398 (COLO)	1961	Flowers et al. (1962) also cite hybrids with <i>Q. turbinella</i> .
Fumariaceae	<i>Corydalis aurea</i>	<i>C. aurea</i> var. <i>aurea</i>	golden smoke	PerF	Wide	Pres	Unc	Lederer & Clark 03-106 (COLO)	1898	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Fumariaceae	<i>Corydalis caseana</i> ssp. <i>brandegeeii</i>		Brandegee's corydalis	PerF	LocEn	Pres	Unc	Lederer & Hogan 04- 166 (CURE)	1961	
Fumariaceae	<i>Corydalis</i> <i>curvisiliqua</i> ssp. <i>occidentalis</i>	<i>C. aurea</i> var. <i>occidentalis</i>	golden corydalis	PerF	Wide	Pres	Unc	Hogan 4245 (COLO)	2004	
Gentianaceae	<i>Frasera speciosa</i>	<i>Swertia radiata</i>	elkweed	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	
Gentianaceae	<i>Pneumonanthe</i> <i>affinis</i>	<i>Gentiana affinis</i> var. <i>affinis</i>	Rocky Mountain gentian	PerF	Wide	Pres	Unc	Engel 126 (CURE)	1980	
Geraniaceae	<i>Erodium</i> <i>cicutarium</i>		stork's-bill	AnnF	Intro	Pres	Unc	Lederer & Clark 03-177 (CURE)	2001	CO state noxious weed (List B). Native to Europe.
Geraniaceae	<i>Geranium</i> <i>caespitosum</i> ssp. <i>caespitosum</i>	Includes var. <i>parryi</i>	purple cluster crane's-bill	PerF	Periph	Pres	Unc	Lederer & Clark 03-130 (COLO)	1961	
Geraniaceae	<i>Geranium</i> <i>richardsonii</i>		Richardson's crane's-bill	PerF	Wide	Pres	Unc	Clark & Lederer 2074 (CURE)	1995	
Grossulariaceae (Saxifragaceae)	<i>Ribes aureum</i>	<i>R. aureum</i> var. <i>aureum</i>	golden currant	Shrub	Wide	Rep	?	Flowers et al. (1962)	1961	
Grossulariaceae (Saxifragaceae)	<i>Ribes cereum</i>	<i>R. cereum</i> var. <i>pedicellare</i> , <i>R. cereum</i> var. <i>inebrians</i>	wax currant	Shrub	Wide	Pres	Unc	Hogan, Clark, & Lederer 4012 (COLO)	1901	
Grossulariaceae (Saxifragaceae)	<i>Ribes inerme</i>		whitestem gooseberry	Shrub	Wide	Pres	Unc	Engel 40 (CURE)	1961	
Grossulariaceae (Saxifragaceae)	<i>Ribes lacustre</i>		spiny swamp currant	Shrub	Wide	Pres	Unc	Clark & Lederer 2079 (CURE)	2001	
Grossulariaceae (Saxifragaceae)	<i>Ribes leptanthum</i>		trumpet gooseberry	Shrub	Wide	Pres	Unc	Lederer & Clark 03-49 (CURE)	1961	
Grossulariaceae (Saxifragaceae)	<i>Ribes montigenum</i>		alpine prickly currant	Shrub	Wide	Rep	Unc	Flowers et al. (1962)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Grossulariaceae (Saxifragaceae)	<i>Ribes wolfii</i>		wolf currant	Shrub	Wide	Pres	Unc	Lederer & Hogan 04- 118 (COLO)	1995	
Haloragaceae	<i>Myriophyllum sibiricum</i>	<i>M. exalbescens</i>	Siberian water- milfoil	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Helleboraceae (Ranunculaceae)	<i>Aconitum columbianum</i>	Includes vars. <i>columbianum</i> & <i>ochroleucum</i>	Columbian monkshood	PerF	Wide	Pres	Unc	Clark 2224 (CURE)	2004	
Helleboraceae (Ranunculaceae)	<i>Actaea rubra</i> ssp. <i>arguta</i>	<i>A. rubra</i>	red baneberry	PerF	Wide	Pres	Unc	Clark & Lederer 2056 (CURE)	1898	
Helleboraceae (Ranunculaceae)	<i>Aquilegia elegantula</i>		elegant columbine	PerF	Wide	Pres	Unc	Hogan & Tembrock 4253 (CURE)	2004	
Helleboraceae (Ranunculaceae)	<i>Delphinium nuttallianum</i>	<i>D. nelsonii</i>	Nuttall's larkspur	PerF	Wide	Pres	Unc	Lederer & Clark 04-04 (COLO)	1995	
Hippuridaceae	<i>Hippuris vulgaris</i>		common mare's- tail	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	
Hydrangeaceae (Saxifragaceae)	<i>Fendlera falcata</i>	<i>F. rupicola</i> var. <i>rupicola</i>	Fendlerbush	Shrub	Wide	Pres	Unc	Hogan & Tembrock 4328 (CURE)	1995	
Hydrangeaceae (Saxifragaceae)	<i>Fendlerella utahensis</i>		Utah fendlerella	Shrub	Periph	Rep	Unc	NCPN (in ed.)	2001	
Hydrangeaceae (Saxifragaceae)	<i>Philadelphus microphyllus</i>	<i>P. microphyllus</i> var. <i>occidentalis</i> , <i>P. occidentalis</i> var. <i>occidentalis</i>	littleleaf mock- orange	Shrub	Wide	Pres	Unc	Hogan & Tembrock 4357 (COLO)	1898	
Hydrocharitaceae	<i>Elodea canadensis</i>		Canadian waterweed	PerF	Sparse	Pres	Unc	Lederer & Clark 03-147 (COLO)	2003	
Hydrophyllaceae	<i>Hydrophyllum capitatum</i>	<i>H. capitatum</i> var. <i>capitatum</i>	capitate waterleaf	PerF	Wide	Rep	Rare	NCPN (in ed.)	2001	Known from BLCA
Hydrophyllaceae	<i>Hydrophyllum fendleri</i>	<i>H. fendleri</i> var. <i>fendleri</i>	Fendler's waterleaf	PerF	Wide	Pres	Unc	O'Brien s.n. (CURE)	1995	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Hydrophyllaceae	<i>Phacelia alba</i>	<i>P. neomexicana</i> var. <i>alba</i>	white scorpion- weed	AnnF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Hydrophyllaceae	<i>Phacelia bakeri</i>		Baker's phacelia	AnnF	RegEn	Rep	Unc	NCPN (in ed.)	2001	
Hydrophyllaceae	<i>Phacelia heterophylla</i>	Includes ssp. <i>heterophylla</i> and var. <i>virgata</i>	wand phacelia	PerF	Wide	Pres	Unc	Lederer & Clark 03-61 (CURE)	1961	
Hypericaceae (Guttiferae)	<i>Hypericum formosum</i>	<i>H. scouleri</i> , <i>H.</i> <i>formosum</i> var. <i>scouleri</i>	western St. John's-wort	PerF	Wide	Pres	Unc	Clark & Lederer 2066 (CURE)	1961	
Hypolepidaceae (Polypodiaceae, Dennstaedtiaceae)	<i>Pteridium aquilinum</i> var. <i>lanuginosum</i>	<i>P. aquilinum</i> var. <i>pubescens</i>	bracken fern	Fern	Wide	Pres	Unc	Lederer & Hogan 04- 115 (CURE)	2001	
Iridaceae	<i>Iris missouriensis</i>		Rocky Mountain iris	PerF	Wide	Pres	Unc	Hogan & Clark 4037 (COLO)	1961	
Iridaceae	<i>Sisyrinchium idahoense</i> var. <i>occidentale</i>		Idaho blue-eyed grass	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Iridaceae	<i>Sisyrinchium montanum</i>		mountain blue- eyed grass	PerF	Wide	Pres	Unc	Clark & Lederer 2083 (CURE)	1961	
Juncaceae	<i>Juncus arcticus</i> ssp. <i>ater</i>	<i>J. balticus</i> var. <i>montanus</i> , <i>J. arcticus</i> var. <i>balticus</i> ; includes var. <i>mexicanus</i> .	Baltic rush	PerG	Wide	Pres	Com	Clark & Lederer 2035 (CURE)	1961	
Juncaceae	<i>Juncus bufonius</i>	Includes vars. <i>bufonius</i> , <i>occidentalis</i> , <i>halophilus</i> , & <i>ambiguus</i>	toad rush	AnnG	Wide	Rep	Rare	NCPN (in ed.)	2001	Known from BLCA
Juncaceae	<i>Juncus confusus</i>		perplexing rush	PerG	Wide	Rep	Rare	NCPN (in ed.)	2001	Known from BLCA
Juncaceae	<i>Juncus dudleyi</i>	<i>J. tenuis</i> var. <i>dudleyi</i>	slender rush	PerG	Wide	Pres	Unc	Lederer & Hogan 04- 112 (COLO)	2004	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Juncaceae	<i>Juncus longistylis</i>		longstyle rush	PerG	Wide	Pres	Com	Lederer & Clark 03-98 (CURE)	1961	
Juncaceae	<i>Juncus nodosus</i>		knotted rush	PerG	Wide	Pres	Unc	Clark & Lederer 2161 (CURE)	2001	
Juncaceae	<i>Juncus saximontanus</i>	<i>J. ensifolius</i> var. <i>montanus</i> ; some authors include <i>J.</i> <i>tracyi</i> , <i>J. xiphoides</i>	mountain rush	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Juncaceae	<i>Juncus torreyi</i>		Torrey's rush	PerG	Wide	Rep	Unc	Hogan et al. (2005), NCPN (in ed.)	2001	
Juncaceae	<i>Juncus tracyi</i>	Included in <i>J.</i> <i>ensifolius</i> var. <i>montanus</i> by some authors	Tracy's rush	PerG	Wide	Pres	Unc	Lederer & Clark 04-70 (CURE)	1995	
Juncaceae	<i>Luzula parviflora</i>		small-flowered woodrush	PerG	Wide	Rep	?	Flowers et al. 1962	1961	
Juncaginaceae	<i>Triglochin maritima</i>	<i>T. maritima</i> var. <i>elata</i> ; includes <i>T. concinnum</i>	seaside arrowgrass	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	
Juncaginaceae	<i>Triglochin palustris</i>		marsh arrowgrass	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	
Lamiaceae (Labiatae)	<i>Agastache urticifolia</i>		nettle-leaf horsemint	PerF	Wide	Pres	Unc	Clark 2206 (COLO)	2004	
Lamiaceae (Labiatae)	<i>Dracocephalum parviflorum</i>	<i>Moldavica parviflora</i>	smallflower dragonhead	PerF	Wide	Pres	Unc	Engel 141 (CURE)	1980	
Lamiaceae (Labiatae)	<i>Galeopsis bifida</i>	<i>G. tetrahit</i> var. <i>bifida</i>	splitlip hempnettle	AnnF	Intro	Pres	Unc	Lederer & Clark 04-88 (CURE)	2004	
Lamiaceae (Labiatae)	<i>Marrubium vulgare</i>		common horehound	PerF	Intro	Rep	Unc	NCPN (in ed.)	2001	Native to Eurasia. Known from BLCA
Lamiaceae (Labiatae)	<i>Mentha arvensis</i>	<i>M. arvensis</i> var. <i>canadensis</i> , <i>M.</i> <i>arvensis</i> var. <i>glabrata</i>	field mint	PerF	Wide	Pres	Unc	Lederer & Clark 03-107 (CURE)	1961	Cited by Flowers et al. (1962) as <i>M.</i> <i>penardi</i>

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Lamiaceae (Labiatae)	<i>Monardella odoratissima</i>	<i>M. odoratissima</i> var. <i>glauca</i> , <i>M. glauca</i>	stinking horsemint	PerF	Wide	Pres	Unc	Hogan 4196 (CURE)	1961	
Lamiaceae (Labiatae)	<i>Prunella vulgaris</i>	<i>P. vulgaris</i> var. <i>lanceolata</i>	self-heal	PerF	Wide	Pres	Unc	Hogan & Tembrock 4358 (COLO)	1961	
Lamiaceae (Labiatae)	<i>Scutellaria galericulata</i> var. <i>epilobifolia</i>	<i>S. galericulata</i>	little skullcap	PerF	Wide	Pres	Unc	Lederer & Clark 04-91 (CURE)	1961	
Lamiaceae (Labiatae)	<i>Stachys palustris</i> ssp. <i>pilosa</i>		hairy hedge- nettle	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Lemnaceae	<i>Lemna turionifera</i>	<i>L. minor</i>	lesser duckweed	PerF	Wide	Pres	Unc	Clark & Lederer 2042 (CURE)	2003	
Lentibulariaceae	<i>Utricularia macrorhiza</i>	<i>U. vulgaris</i>	common bladderwort	PerF	Wide	Pres	Unc	Lederer & Hogan 04- 110 (CURE)	1961	
Linaceae	<i>Adenolinum lewisii</i>	<i>Linum lewisii</i> , L. <i>lewisii</i> var. <i>lewisii</i> , L. <i>perenne</i> ssp. <i>lewisii</i>	blue flax	PerF	Wide	Pres	Unc	Clark 2207 (COLO)	1961	
Loasaceae	<i>Acrolasia albicaulis</i>	<i>Mentzelia albicaulis</i> , <i>M. obscura</i> . Most authors include <i>A.</i> <i>gracilis</i>	white-stem blazingstar	AnnF	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Loasaceae	<i>Acrolasia dispersa</i>	<i>Mentzelia dispersa</i> ; includes vars. <i>compacta</i> , <i>dispersa</i> , & <i>latifolia</i>	Nevada stickleaf	AnnF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	
Loasaceae	<i>Nuttallia rusbyi</i>	<i>Mentzelia rusbyi</i>	Rusby's stickleaf	PerF	Wide	Pres	Unc	Clark & Lederer 2254 (COLO)	1961	
Malvaceae	<i>Iliamna rivularis</i>	Includes var. <i>diversa</i> & <i>rivularis</i>	wild hollyhock	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Malvaceae	<i>Malva neglecta</i>	<i>M. rotundifolia</i>	common mallow	AnnF	Intro	Rep	?	Flowers et al. (1962)	1961	Native to Eurasia. Known from BLCA
Malvaceae	<i>Sidalcea candida</i>	Includes vars. <i>candida</i> & <i>glabrata</i>	white checker- mallow	PerF	Wide	Pres	Unc	Hall 334 (COLO)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Malvaceae	<i>Sidalcea neomexicana</i>	Includes vars. <i>crenulata</i> & <i>neomexicana</i>	New Mexico checker-mallow	PerF	Wide	Pres	Unc	Hogan & Tembrock 4363 (CURE)	1961	
Malvaceae	<i>Sphaeralcea coccinea</i> ssp. <i>dissecta</i>	Includes ssp. <i>coccinea</i> , <i>elata</i> , & <i>dissecta</i>	scarlet globe-mallow	PerF	Wide	Pres	Com	Clark & Hogan 1971 (CURE)	1961	
Melanthiaceae (Liliaceae)	<i>Toxicoscordion venenosum</i>	<i>Zigadenus venenosus</i> var. <i>venosus</i>	meadow death camas	PerF	Wide	Rep	Rare	NCPN (in ed.)	2001	Known from BLCA
Nyctaginaceae	<i>Oxybaphus linearis</i>	<i>O. decumbens</i> , <i>Mirabilis linearis</i> var. <i>linearis</i> ; some authors include <i>M. glabra</i>	narrow-leaf four-o'clock	PerF	Wide	Pres	Unc	Hall 339 (COLO)	1961	
Onagraceae	<i>Chamerion danielsii</i>	<i>Epilobium angustifolium</i> var. <i>canescens</i> , <i>C. angustifolium</i> var. <i>canescens</i> , <i>C. angustifolium</i> ssp. <i>circumvagum</i>	fireweed	PerF	Wide	Pres	Unc	Clark 2121 (CURE)	1961	
Onagraceae	<i>Epilobium brachycarpum</i>	<i>E. paniculatum</i> var. <i>paniculatum</i>	autumn willow-herb	AnnF	Wide	Rep	Unc	NCPN (in ed.)	2001	Known from BLCA
Onagraceae	<i>Epilobium ciliatum</i>	<i>E. ciliatum</i> var. <i>ciliatum</i> , <i>E. watsonii</i> , <i>E. adenocaulon</i>	northern willow-herb	PerF	Wide	Pres	Com	Hogan 4191 (CURE)	1961	
Onagraceae	<i>Epilobium lactiflorum</i>	<i>E. alpinum</i> var. <i>lactiflorum</i> , <i>E. hornemannii</i> var. <i>lactiflorum</i>	white-flower willow-herb	PerF	Wide	Rep	Rare	NCPN (in ed.)	2001	
Onagraceae	<i>Gaura coccinea</i>		scarlet gaura	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Onagraceae	<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i>	<i>G. diffusum</i> var. <i>strictipes</i> , <i>G. lasiospermum</i>	diffuse groundsmoke	AnnF	Wide	Pres	Unc	Clark & Lederer 2245 (CURE)	2004	
Onagraceae	<i>Gayophytum ramosissimum</i>		branching groundsmoke	AnnF	Wide	Pres	Unc	Lederer & Clark 03-103	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Onagraceae	<i>Oenothera caespitosa</i> ssp. <i>marginata</i>		long-tube evening-primrose	PerF	Wide	Pres	Com	Hogan & Clark 4044 (CURE)	1961	
Onagraceae	<i>Oenothera elata</i> ssp. <i>hirsutissima</i>	<i>O. elata</i> , <i>O. hookeri</i>	western evening-primrose	PerF	Wide	Pres	Unc	Clark 2217 (CURE)	1961	
Onagraceae	<i>Oenothera flava</i>	<i>O. flava</i> var. <i>flava</i>	yellow evening-primrose	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Onagraceae	<i>Oenothera pallida</i> ssp. <i>pallida</i>		pale evening-primrose	PerF	Periph	Rep	?	Flowers et al. (1962)	1961	
Onagraceae	<i>Oenothera villosa</i> ssp. <i>strigosa</i>	<i>O. strigosa</i> , <i>O. biennis</i>	biennial evening-primrose	PerF	Wide	Pres	Unc	Lederer & Clark 03-67 (CURE)	1961	
Orchidaceae	<i>Limnorchis stricta</i>	<i>Platanthera stricta</i> , <i>P. gracilis</i> , <i>Habenaria saccata</i>	slender bog orchid	PerF	Wide	Pres	?	Engel 53 (CURE)	1980	
Orobanchaceae	<i>Aphyllon fasciculatum</i>	<i>Orobanche fasciculata</i>	clustered broomrape	PerF	Wide	Pres	Unc	Hogan & Tembrock 4320 (CURE)	2004	
Pinaceae	<i>Picea engelmannii</i>		Engelmann spruce	Tree	Wide	Pres	Unc	Clark & Lederer 2069 (CURE)	2003	
Pinaceae	<i>Picea pungens</i>		blue spruce	Tree	Wide	Pres	Unc	Lederer & Clark 03-117 (CURE)	1961	State tree of Utah and Colorado
Pinaceae	<i>Pinus edulis</i>		two-needle pinyon	Tree	Wide	Pres	Abun	Clark & Lederer 2130 (CURE)	1961	
Pinaceae	<i>Pinus ponderosa</i> var. <i>scopulorum</i>		ponderosa pine	Tree	Wide	Pres	Unc	Lederer & Clark 03-119 (CURE)	1961	
Pinaceae	<i>Pseudotsuga menziesii</i>	<i>P. menziesii</i> var. <i>glauca</i>	Douglas-fir	Tree	Wide	Pres	Com	Lederer & Clark 03-82 (CURE)	1961	
Plantaginaceae	<i>Plantago eriopoda</i>		woolly-base plantain	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Plantaginaceae	<i>Plantago lanceolata</i>		English plantain	PerF	Intro	Pres	Unc	Lederer & Clark 03-180 (CURE)	2003	Native to Eurasia
Plantaginaceae	<i>Plantago major</i>	Includes var. <i>pachyphylla</i>	common plantain	PerF	Intro	Pres	Unc	Engel 157 (CURE)	1961	Mostly native to Europe
Poaceae (Gramineae)	<i>Achnatherum hymenoides</i>	<i>Oryzopsis hymenoides</i> , <i>Stipa hymenoides</i>	Indian ricegrass	PerG	Wide	Pres	Abun	Clark & Hogan 1960 (COLO)	1901	
Poaceae (Gramineae)	<i>Achnatherum lettermanii</i>	<i>Stipa lettermanii</i>	Letterman's needlegrass	PerG	Wide	Rep	Unc	Flowers et al. (1962)	1961	Known from BLCA
Poaceae (Gramineae)	<i>Achnatherum nelsonii</i>	<i>A. nelsonii</i> var. <i>nelsonii</i> , <i>Stipa nelsonii</i> var. <i>nelsonii</i> , <i>S. columbiana</i> var. <i>nelsonii</i>	Nelson's needlegrass	PerG	Wide	Rep	Unc	Flowers et al. (1962)	1961	Known from BLCA
Poaceae (Gramineae)	<i>Achnatherum pinetorum</i>	<i>Stipa pinetorum</i>	pine needlegrass	PerG	Wide	Pres	Com	Clark & Hogan 1965 (CURE)	1961	
Poaceae (Gramineae)	<i>Achnatherum x bloomeri</i>	<i>Stiporyzopsis x bloomeri</i> , <i>Stipa x bloomeri</i> , hybrids between <i>Stipa hymenoides</i> and other <i>Stipa</i> species except <i>S. comata</i>	Bloomer's ricegrass	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	
Poaceae (Gramineae)	<i>Agropyron desertorum</i>	<i>A. cristatum</i> var. <i>desertorum</i> . Included within <i>A. cristatum</i> (without var.) in <i>Flora of North America</i> (2007)	clustered wheatgrass	PerG	Intro	Pres	Unc	Clark 2201 (CURE)	1961	Native to Eurasia
Poaceae (Gramineae)	<i>Agrostis exarata</i>		spike bentgrass	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	
Poaceae (Gramineae)	<i>Agrostis gigantea</i>	<i>A. alba</i> , <i>A. palustris</i> . Included in <i>A. stolonifera</i> by some authors	redtop	PerG	Intro	Pres	Com	Clark & Lederer 2250 (CURE)	1961	Native to Eurasia

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Poaceae (Gramineae)	<i>Agrostis scabra</i>	<i>A. hiemalis</i> , <i>A. geminata</i>	ticklegrass	PerG	Wide	Pres	Unc	Lederer & Clark 03-93 (CURE)	1961	
Poaceae (Gramineae)	<i>Alopecurus aequalis</i>	<i>A. aequalis</i> var. <i>aequalis</i>	shortawn foxtail	PerG	Wide	Pres	Unc	Engel 92 (CURE)	1961	
Poaceae (Gramineae)	<i>Alopecurus pratensis</i>		meadow foxtail	PerG	Intro	Pres	Unc	Lederer & Clark 03-101 (CURE)	1980	Native to Eurasia
Poaceae (Gramineae)	<i>Anisantha tectorum</i>	<i>Bromus tectorum</i>	cheatgrass	AnnG	Intro	Pres	Com	Tonnesen s.n. (CURE)	1961	CO state noxious weed (List C). Native to Eurasia.
Poaceae (Gramineae)	<i>Aristida purpurea</i> var. <i>longiseta</i>	<i>A. glauca</i> , <i>A. purpurea</i> var. <i>fendleriana</i> , <i>A. fendleriana</i>	purple three-awn	PerG	Wide	Pres	Unc	Goldstein s.n. (CURE)	1961	
Poaceae (Gramineae)	<i>Beckmannia syzigachne</i>		American sloughgrass	AnnG	Wide	Pres	Unc	Engel 87 (CURE)	1961	
Poaceae (Gramineae)	<i>Bromelica bulbosa</i>	<i>Melica bulbosa</i>	oniongrass	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	
Poaceae (Gramineae)	<i>Bromopsis canadensis</i>	<i>Bromus ciliatus</i> ; includes vars. <i>ciliatus</i> & <i>richardsonii</i>	fringed brome	PerG	Wide	Pres	Unc	Engel 122 (CURE)	1961	
Poaceae (Gramineae)	<i>Bromopsis inermis</i>	<i>Bromus inermis</i> var. <i>inermis</i>	smooth brome	PerG	Intro	Pres	Unc	Hogan & Clark 4050 (CURE)	1961	Native to Eurasia
Poaceae (Gramineae)	<i>Bromopsis lanatipes</i>	<i>Bromus lanatipes</i>	woolly brome	PerG	Wide	Pres	Unc	Clark & Lederer 2058 (CURE)	2001	
Poaceae (Gramineae)	<i>Bromopsis porteri</i>	<i>Bromus frondosus</i> , <i>Bromus anomalus</i> . Material ascribed to <i>Bromus anomalus</i> in regional floras is mostly <i>B. porteri</i> or <i>B. lanatipes</i> .	nodding brome	PerG	Wide	Pres	Unc	Hogan & Tembrock 4368 (CURE)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Poaceae (Gramineae)	<i>Bromus commutatus</i>	<i>B. racemosus</i> . Included in <i>B. japonicus</i> by some authors.	hairy brome	AnnG	Intro	Rep	?	Flowers et al. (1962)	1961	Native to Europe
Poaceae (Gramineae)	<i>Calamagrostis canadensis</i>	Includes vars. <i>canadensis</i> , <i>imberbis</i> , & <i>macouniana</i> , <i>C. scribneri</i>	bluejoint reedgrass	PerG	Wide	Pres	Unc	Lederer & Clark 03-74 (CURE)	1961	
Poaceae (Gramineae)	<i>Calamagrostis stricta</i>	<i>C. neglecta</i> , <i>C. inexpansa</i>	slimstem reedgrass	PerG	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	
Poaceae (Gramineae)	<i>Catabrosa aquatica</i>		brookgrass	PerG	Wide	Pres	?	Tonnesen s.n. (CURE)	1961	
Poaceae (Gramineae)	<i>Ceratochloa carinata</i>	<i>Bromus marginatus</i> , <i>B. polyanthus</i> , <i>B. carinatus</i>	mountain brome	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Poaceae (Gramineae)	<i>Chondrosium gracile</i>	<i>Bouteloua gracilis</i>	blue grama	PerG	Wide	Pres	Com	Clark & Lederer 2153 (CURE)	1961	
Poaceae (Gramineae)	<i>Chondrosium prostratum</i>	<i>Bouteloua simplex</i>	mat grama	AnnG	Wide	Pres	Unc	Lederer & Clark 03-178 (CURE)	2003	
Poaceae (Gramineae)	<i>Critesion brachyantherum</i>	<i>Hordeum brachyantherum</i>	meadow barley	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	
Poaceae (Gramineae)	<i>Critesion jubatum</i>	<i>Hordeum jubatum</i>	foxtail barley	PerG	Wide	Pres	Unc	Engel 60 (CURE)	1961	
Poaceae (Gramineae)	<i>Dactylis glomerata</i>		orchard grass	PerG	Intro	Pres	Unc	Lederer & Clark 03-181 (CURE)	1961	Native to Eurasia and Africa
Poaceae (Gramineae)	<i>Deschampsia cespitosa</i>		tufted hairgrass	PerG	Wide	Pres	Unc	Clark & Lederer 2164 (CURE)	2001	
Poaceae (Gramineae)	<i>Distichlis stricta</i>	<i>D. spicata</i> var. <i>stricta</i>	desert saltgrass	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	
Poaceae (Gramineae)	<i>Elymus canadensis</i>	<i>E. canadensis</i> var. <i>canadensis</i>	Canada wildrye	PerG	Wide	Rep	Unc	Flowers et al. (1962)	1961	Known from BLCA

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonymic/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Poaceae (Gramineae)	<i>Elymus elymoides</i>	<i>E. elymoides</i> var. <i>elymoides</i> , <i>Sitanion</i> <i>hystrix</i>	squirreltail	PerG	Wide	Pres	Abun	Hogan & Clark 4042 (CURE)	1961	
Poaceae (Gramineae)	<i>Elymus glaucus</i>	<i>E. glaucus</i> var. <i>glaucus</i>	blue wildrye	PerG	Wide	Pres	Unc	Clark & Lederer 2136 (CURE)	2001	
Poaceae (Gramineae)	<i>Elymus lanceolatus</i>	<i>E. lanceolatus</i> var. <i>lanceolatus</i> , <i>Agropyron</i> <i>dasystachyum</i> var. <i>dasystachyum</i> , <i>A.</i> <i>albicans</i> var. <i>albicans</i> , <i>A. albicans</i> var. <i>griffithsii</i> . Includes var. <i>riparium</i> .	thickspike wheatgrass	PerG	Wide	Pres	Unc	Clark & Lederer 2057 (CURE)	2003	
Poaceae (Gramineae)	<i>Elymus longifolius</i>	<i>Sitanion hystrix</i> , <i>E. elymoides</i> var. <i>brevifolius</i>	bottlebrush squirreltail	PerG	Wide	Pres	Unc	Hogan & Tembrock 4323 (CURE)	2004	
Poaceae (Gramineae)	<i>Elymus trachycaulus</i>	<i>Agropyron caninum</i> , <i>A. subsecundum</i> , <i>A. trachycaulum</i> , <i>A. latiglume</i> , <i>E.</i> <i>alaskanus</i> ssp. <i>latiglumis</i> , <i>E.</i> <i>trachycaulus</i> var. <i>trachycaulus</i>	slender wheatgrass	PerG	Wide	Pres	Unc	Lederer & Clark 03-168 (CURE)	1961	Hybrids with <i>E.</i> <i>elymoides</i> (<i>E. x</i> <i>saundersii</i>) are reported by Flowers et al. (1962)
Poaceae (Gramineae)	<i>Elytrigia repens</i>	<i>Agropyron repens</i> , <i>Elymus repens</i>	quackgrass	PerG	Intro	Pres	Unc	Engel 59 (CURE)	1980	CO state noxious weed (List B). Native to Eurasia
Poaceae (Gramineae)	<i>Eragrostis cilianensis</i>		stinkgrass	AnnG	Intro	Pres	Unc	Lederer & Clark 03-179 (CURE)	2003	Native to Eurasia
Poaceae (Gramineae)	<i>Festuca arizonica</i>	<i>F. ovina</i> var. <i>arizonica</i>	Arizona fescue	PerG	Wide	Rep	Unc	NCPN (in ed.)	2001	
Poaceae (Gramineae)	<i>Festuca pratensis</i>	<i>F. elatior</i> , <i>Schedonorus</i> <i>pratensis</i> , <i>Lolium</i> <i>pratense</i>	meadow fescue	PerG	Intro	Rep	?	Flowers et al. (1962)	1961	Native to Eurasia

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Poaceae (Gramineae)	<i>Festuca rubra</i>	<i>F. rubra</i> var. <i>rubra</i>	red fescue	PerG	Intro	Rep	?	Flowers et al. (1962)	1961	Native to E and N North America
Poaceae (Gramineae)	<i>Festuca saximontana</i>	<i>F. ovina</i> var. <i>rydbergii</i> , <i>F. ovina</i> var. <i>saximontana</i>	Rocky Mountain fescue	PerG	Wide	Pres	Unc	Clark 2119 (CURE)	1961	
Poaceae (Gramineae)	<i>Festuca thurberi</i>		Thurber's fescue	PerG	Wide	Pres	Unc	Clark & Lederer 2085 (CURE)	2001	
Poaceae (Gramineae)	<i>Glyceria borealis</i>		northern mannagrass	PerG	Wide	Pres	Unc	Engel 118 (CURE)	1980	
Poaceae (Gramineae)	<i>Glyceria elata</i>	Included in <i>G. striata</i> by some authors	fowl mannagrass	PerG	Wide	Pres	Unc	Clark & Lederer 2060 (CURE)	2003	
Poaceae (Gramineae)	<i>Glyceria grandis</i>		American mannagrass	PerG	Wide	Pres	Unc	Lederer & Clark 03-148 (CURE)	1961	
Poaceae (Gramineae)	<i>Glyceria striata</i>	Some authors include <i>G. elata</i>	fowl mannagrass	PerG	Wide	Pres	Unc	Engel 88 (CURE)	1961	
Poaceae (Gramineae)	<i>Hesperostipa comata</i>	<i>H. comata</i> var. <i>comata</i> , <i>Stipa comata</i> var. <i>comata</i>	needle-and-thread	PerG	Wide	Pres	Com	Clark & Hogan 1958 (CURE)	1961	
Poaceae (Gramineae)	<i>Hilaria jamesii</i>	<i>Pleuraphis jamesii</i>	galleta	PerG	Wide	Pres	Unc	Clark & Hogan 1987 (CURE)	1961	
Poaceae (Gramineae)	<i>Koeleria macrantha</i>	<i>K. cristata</i> , <i>K. pyramidata</i> , <i>K. nitida</i>	Junegrass	PerG	Wide	Pres	Com	Lederer & Clark 04-84 (CURE)	1961	
Poaceae (Gramineae)	<i>Leucopoa kingii</i>	<i>Hesperochloa kingii</i>	spike fescue	PerG	Wide	Rep	Unc	NCPN (in ed.)	2001	
Poaceae (Gramineae)	<i>Leymus cinereus</i>	<i>Elymus cinereus</i>	Great Basin wildrye	PerG	Wide	Pres	Unc	Hogan & Tembrock 4367 (CURE)	1961	Cited as <i>E. condensatus</i> by Flowers et al. (1962)
Poaceae (Gramineae)	<i>Leymus salina</i>	<i>Elymus salina</i> , <i>E. salinus</i> , <i>E. ambiguus</i> , <i>Leymus salinus</i> , <i>L. ambiguus</i>	Salina wildrye	PerG	Wide	Rep	Rare	NCPN (in ed.)	2001	Known from BLCA

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Poaceae (Gramineae)	<i>Melica porteri</i>		Porter's melic	PerG	Wide	Pres	Unc	Hogan 4204 (CURE)	1961	
Poaceae (Gramineae)	<i>Monroa squarrosa</i>	<i>Munroa squarrosa</i>	false buffalograss	AnnG	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Poaceae (Gramineae)	<i>Muhlenbergia asperifolia</i>		scratchgrass	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Poaceae (Gramineae)	<i>Muhlenbergia minutissima</i>		annual muhly	AnnG	Wide	Pres	Unc	Engel 144 (CURE)	1980	
Poaceae (Gramineae)	<i>Muhlenbergia montana</i>		mountain muhly	PerG	Wide	Pres	Unc	Goldstein s.n. (CURE)	1995	
Poaceae (Gramineae)	<i>Muhlenbergia racemosa</i>		green muhly	PerG	Wide	Pres	Unc	Clark 2117 (CURE)	1961	
Poaceae (Gramineae)	<i>Muhlenbergia richardsonis</i>		pullup muhly	AnnG	Wide	Rep	Unc	Flowers et al. (1962)	1961	
Poaceae (Gramineae)	<i>Muhlenbergia wrightii</i>		spike muhly	PerG	Wide	Pres	Unc	Clark & Lederer 2158 (CURE)	2001	
Poaceae (Gramineae)	<i>Nassella viridula</i>	<i>Stipa viridula</i>	green needlegrass	PerG	Wide	Pres	Unc	Clark & Hogan 1990 (CURE)	2001	
Poaceae (Gramineae)	<i>Panicum capillare</i> var. <i>occidentale</i>	<i>P. capillare</i>	witchgrass	AnnG	Wide	Rep	?	Flowers et al. (1962)	1961	
Poaceae (Gramineae)	<i>Panicum virgatum</i>		switchgrass	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	
Poaceae (Gramineae)	<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i> ; <i>Elymus smithii</i> ; includes vars. <i>smithii</i> & <i>palmeri</i>	western wheatgrass	PerG	Wide	Pres	Com	Hogan & Clark 4045 (CURE)	1961	
Poaceae (Gramineae)	<i>Phalaroides arundinacea</i>	<i>Phalaris arundinacea</i>	reed canary grass	PerG	Wide	Pres	Com	Engel 120 (CURE)	1980	
Poaceae (Gramineae)	<i>Phleum pratense</i>		timothy	PerG	Intro	Pres	Unc	Engel 72 (CURE)	1961	Native to Eurasia
Poaceae (Gramineae)	<i>Piptatherum micranthum</i>	<i>Oryzopsis micrantha</i>	littleseed ricegrass	PerG	Wide	Pres	Unc	Hogan & Tembrock 4324 (CURE)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Poaceae (Gramineae)	<i>Poa agassizensis</i>	<i>P. pratensis</i> ssp. <i>agassizensis</i> ; included in <i>P. pratensis</i> by some authors	Agassiz's bluegrass	PerG	Wide	Pres	Unc	Clark & Lederer 2238 (CURE)	1980	
Poaceae (Gramineae)	<i>Poa compressa</i>		Canada bluegrass	PerG	Intro	Pres	Unc	Clark & Lederer 2154 (CURE)	1961	Native to Eurasia
Poaceae (Gramineae)	<i>Poa fendleriana</i>	<i>P. longiligula</i> , <i>P. fendleriana</i> ssp. <i>longiligula</i>	muttongrass	PerG	Wide	Pres	Abun	Clark & Lederer 2233 (COLO)	1952	
Poaceae (Gramineae)	<i>Poa nemoralis</i> ssp. <i>interior</i>	<i>P. glauca</i> var. <i>glauca</i> , <i>P. interior</i>	interior bluegrass	PerG	Wide	Pres	Unc	Clark 2215a (CURE)	2001	
Poaceae (Gramineae)	<i>Poa nervosa</i>	<i>P. nervosa</i> var. <i>wheeleri</i> , <i>P. wheeleri</i>	Wheeler bluegrass	PerG	Wide	Rep	Rare	NCPN (in ed.)	2001	
Poaceae (Gramineae)	<i>Poa palustris</i>		fowl bluegrass	PerG	Wide	Pres	Unc	Lederer & Clark 03-137 (CURE)	1961	
Poaceae (Gramineae)	<i>Poa pratensis</i>	Most authors include <i>P. agassizensis</i>	Kentucky bluegrass	PerG	Intro	Pres	Unc	Engel 16 (CURE)	1961	Native to Europe
Poaceae (Gramineae)	<i>Poa secunda</i>	Some authors include <i>P. gracillima</i> , <i>P. juncifolia</i> , <i>P. sandbergii</i> , <i>P. canbyi</i> , <i>P. scabrella</i> , <i>P. nevadensis</i> , <i>P. ampla</i> , and all vars. of <i>P. secunda</i>	Sandberg's bluegrass	PerG	Wide	Pres	Com	Clark & Hogan 1961 (CURE)	1961	
Poaceae (Gramineae)	<i>Pseudoroegneria spicata</i>	<i>Agropyron spicatum</i> , <i>Elymus spicatus</i> ; includes ssp. <i>inermis</i> & <i>spicata</i>	bluebunch wheatgrass	PerG	Wide	Pres	Unc	Clark 2115 (CURE)	2003	CURE material is ssp. <i>spicata</i> .
Poaceae (Gramineae)	<i>Puccinellia distans</i>		weeping alkaligrass	PerG	Intro	Rep	?	Flowers et al. (1962)	1961	Native to Eurasia
Poaceae (Gramineae)	<i>Sporobolus airoides</i>	<i>S. airoides</i> var. <i>airoides</i>	alkali sacaton	PerG	Wide	Rep	?	Flowers et al. (1962)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Poaceae (Gramineae)	<i>Sporobolus cryptandrus</i>		sand dropseed	PerG	Wide	Pres	Unc	Clark & Lederer 2132 (CURE)	1961	
Poaceae (Gramineae)	<i>Thinopyrum intermedium</i> ssp. <i>barbulatum</i>	<i>Agropyron intermedium</i> , <i>Elytrigia intermedia</i> , <i>T. intermedium</i> , <i>Elymus hispidus</i> var. <i>ruthenicus</i>	intermediate wheatgrass	PerG	Intro	Rep	Unc	NCPN (in ed.)	2001	Native to Eurasia. Known from BLCA
Poaceae (Gramineae)	<i>Trisetum spicatum</i>	Includes ssp. <i>alaskanum</i> & <i>congdonii</i> , <i>T. montanum</i>	spike trisetum	PerG	Wide	Pres	Unc	Clark 2215 (CURE)	2004	CURE material is ssp. <i>alaskanum</i> .
Polemoniaceae	<i>Collomia linearis</i>		small collomia	AnnF	Wide	Pres	Com	Engel 112 (CURE)	1961	
Polemoniaceae	<i>Gilia ophthalmoides</i>	Included in <i>G. inconspicua</i> by some authors	eyelash gilia	AnnF	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA. Cited as <i>G. sinuata</i> by Flowers et al. (1962)
Polemoniaceae	<i>Gilia penstemonoides</i>	<i>Aliciella penstemonoides</i>	Black Canyon gilia	PerF	LocEn	Pres	Rare	Hogan 4201 (COLO)	1890	Type locality is Cimarron, Montrose Co., CO (Jones s.n.)
Polemoniaceae	<i>Gilia pinnatifida</i>	<i>Aliciella pinnatifida</i>	sticky gilia	PerF	Wide	Pres	Unc	Clark & Hogan 1972 (CURE)	1995	
Polemoniaceae	<i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>	<i>Gilia aggregata</i> var. <i>aggregata</i>	scarlet gilia	PerF	Wide	Pres	Unc	Engel 96 (CURE)	1961	
Polemoniaceae	<i>Leptodactylon pungens</i>	<i>Leptodactylon pungens</i> var. <i>pungens</i> , <i>Linanthus pungens</i>	prickly-phlox	Shrub	Wide	Pres	Unc	Lederer & Clark 03-53 (CURE)	1961	
Polemoniaceae	<i>Linanthus harknessii</i> var. <i>septentrionalis</i>	<i>Leptosiphon septentrionalis</i> , <i>Linanthus septentrionalis</i>	northern linanthus	AnnF	Wide	Rep	Rare	NCPN (in ed.)	2001	Known from BLCA

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Polemoniaceae	<i>Phlox austromontana</i>	<i>P. austromontana</i> var. <i>austromontana</i> ; var. not recognized in Cronquist et al. (1984)	desert phlox	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	Known from BLCA
Polemoniaceae	<i>Phlox hoodii</i>	<i>P. hoodii</i> ssp. <i>canescens</i> ; includes ssp. <i>glabrata</i> , <i>hoodii</i> , & <i>viscidula</i>	Hood's phlox	PerF	Wide	Pres	Com	Clark & Hogan 1976 (CURE)	1961	Cited as <i>P. caespitosa</i> by Flowers et al. (1962)
Polemoniaceae	<i>Phlox longifolia</i>	Includes vars. <i>longifolia</i> & <i>stansburyi</i>	long-leaf phlox	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	
Polemoniaceae	<i>Phlox multiflora</i>	Includes ssp. <i>depressa</i> , <i>multiflora</i> , & <i>patula</i>	Rocky Mountain phlox	PerF	Wide	Pres	Unc	Clark & Lederer 2173 (CURE)	1995	
Polemoniaceae	<i>Polemonium foliosissimum</i>	<i>P. foliosissimum</i> var. <i>foliosissimum</i>	blue leafy Jacob's-ladder	PerF	Wide	Pres	Unc	Engel 86 (CURE)	1980	
Polygonaceae	<i>Eriogonum cernuum</i>	<i>E. cernuum</i> var. <i>cernuum</i> ; vars. not recognized in <i>Flora of North America</i> (2005)	nodding wild buckwheat	AnnF	Wide	Pres	Unc	Clark 2204 (CURE)	1961	
Polygonaceae	<i>Eriogonum flavum</i> ssp. <i>flavum</i>		yellow wild-buckwheat	PerF	Wide	Pres	Unc	Clark 2211 (CURE)	2001	
Polygonaceae	<i>Eriogonum lonchophyllum</i>	<i>E. lonchophyllum</i> var. <i>lonchophyllum</i> , <i>E. intermontanum</i> , <i>E. corymbosum</i> var. <i>humivagans</i> .	longleaf wild buckwheat	Shrub	RegEn	Pres	Com	Clark & Hogan 1970 (CURE)	1961	Cited as <i>E. tristichum</i> by Flowers et al. (1962)
Polygonaceae	<i>Eriogonum ovalifolium</i> var. <i>ovalifolium</i>		cushion wild buckwheat	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Polygonaceae	<i>Eriogonum racemosum</i>	<i>E. racemosum</i> var. <i>racemosum</i>	redroot wild buckwheat	PerF	Wide	Pres	Com	Clark & Lederer 2052 (CURE)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Polygonaceae	<i>Eriogonum subalpinum</i>	<i>E. umbellatum</i> var. <i>majus</i> , <i>E. umbellatum</i> var. <i>subalpinum</i> ; includes vars. <i>dichrocephalum</i> & <i>desereticum</i>	cream wild buckwheat	PerF	Wide	Pres	Unc	Lederer & Clark 03-127 (CURE)	1995	
Polygonaceae	<i>Eriogonum umbellatum</i> var. <i>aureum</i>		sulphur-flower wild-buckwheat	PerF	RegEn	Pres	?	Hall 12 (COLO)	1961	
Polygonaceae	<i>Persicaria amphibia</i>	<i>Polygonum amphibium</i> var. <i>emersum</i> , <i>P. coccineum</i> , <i>P. coccinea</i>	water smartweed	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	
Polygonaceae	<i>Persicaria coccinea</i>	<i>Polygonum coccineum</i> , <i>Polygonum amphibium</i> var. <i>emersum</i>	water smartweed	PerF	Wide	Pres	Unc	Engel 133 (CURE)	1980	
Polygonaceae	<i>Persicaria lapathifolia</i>	<i>Polygonum lapathifolium</i>	willow-weed	AnnF	Intro	Pres	Unc	Lederer & Clark 03-141 (CURE)	2003	Native to Eurasia
Polygonaceae	<i>Persicaria maculata</i>	<i>Polygonum persicaria</i>	lady's-thumb	AnnF	Intro	Pres	Unc	Lederer & Clark 03-192 (CURE)	2003	Native to Eurasia
Polygonaceae	<i>Polygonum arenastrum</i>	<i>P. aviculare</i>	yard knotweed	AnnF	Intro	Pres	Unc	Clark & Lederer 2147 (CURE)	1961	Native to Eurasia.
Polygonaceae	<i>Polygonum douglasii</i>	<i>P. douglasii</i> var. <i>douglasii</i>	Douglas' knotweed	AnnF	Wide	Pres	Unc	Lederer & Clark 03-72 (CURE)	1995	
Polygonaceae	<i>Rheum rhabarbarum</i>	<i>R. rhaponticum</i>	garden rhubarb	PerF	Intro	Rep	?	Flowers et al. (1962)	1961	Native to Eurasia
Polygonaceae	<i>Rumex aquaticus</i> ssp. <i>occidentalis</i>	<i>R. occidentalis</i> , <i>R. aquaticus</i> var. <i>fenestratus</i>	western dock	PerF	Wide	Pres	Unc	Lederer & Clark 04-81 (CURE)	2004	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Polygonaceae	<i>Rumex crispus</i>		curly dock	PerF	Intro	Pres	Unc	Engel 129 (CURE)	1961	Native to Eurasia
Polygonaceae	<i>Rumex maritimus</i> var. <i>fueginus</i>	<i>R. fueginus</i>	golden dock	AnnF	Wide	Rep	Unc	Flowers et al. (1962)	1961	
Polygonaceae	<i>Rumex</i> <i>triangulivalvis</i>	<i>R. salicifolius</i> var. <i>triangulivalvis</i> , <i>R. mexicanus</i> , <i>R. salicifolius</i> var. <i>mexicanus</i> , <i>R. utahensis</i> , <i>R.</i> <i>triangulivalvis</i> var. <i>mexicanus</i> , <i>Rumex</i> <i>triangulivalvis</i> var. <i>montigenitus</i>	willow dock	PerF	Wide	Pres	Unc	Hogan 4190 (CURE)	1961	
Portulacaceae	<i>Oreobroma</i> <i>pygmaea</i>	<i>Lewisia pygmaea</i>	alpine bitter-root	PerF	Wide	Pres	?	Tonnesen s.n. (CURE)	1995	
Potamogetonaceae	<i>Potamogeton</i> <i>pectinatus</i>	<i>Stuckenia pectinata</i> , <i>Coleogeton</i> <i>pectinatus</i>	fennel-leaf pondweed	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Primulaceae	<i>Androsace</i> <i>occidentalis</i>		western rock- jasmine	AnnF	Wide	Pres	Unc	Hogan, Clark, & Lederer 4011 (COLO)	1952	
Primulaceae	<i>Androsace</i> <i>septentrionalis</i>	Includes ssp. <i>puberulenta</i> & <i>subumbellata</i> , & var. <i>subulifera</i>	pygmy-flower rock-jasmine	AnnF	Wide	Pres	Com	Lederer & Clark 03-80 (CURE)	1961	
Primulaceae	<i>Dodecatheon</i> <i>pulchellum</i>	<i>D. pulchellum</i> var. <i>pulchellum</i> , <i>D.</i> <i>pauciflorum</i>	dark-throat shooting-star	PerF	Wide	Pres	Rare	Tonnesen s.n. (CURE)	1961	Includes report of <i>D. radicans</i> from Flowers et al. (1962).
Pyrolaceae (Ericaceae)	<i>Chimaphila</i> <i>umbellata</i> ssp. <i>occidentalis</i>		pipsissewa	PerF	Wide	Rep	Rare	NCPN (in ed.)	2001	
Pyrolaceae (Ericaceae)	<i>Pyrola chlorantha</i>	<i>P. virens</i>	green-flowered wintergreen	PerF	Wide	Pres	?	Tonnesen s.n. (CURE)	1995	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Ranunculaceae	<i>Atragene columbiana</i>	<i>Clematis columbiana</i> var. <i>columbiana</i> , <i>C. pseudoalpina</i>	Columbian virgin's-bower	PerF	Wide	Pres	Unc	Clark 2127 (CURE)	1898	
Ranunculaceae	<i>Batrachium circinatum</i>	<i>Ranunculus aquatilis</i> var. <i>diffusus</i> , <i>R. circinatus</i> , <i>R. longirostris</i> , <i>R. trichophyllus</i> var. <i>eradicatus</i> , <i>B. longirostre</i> , <i>B. circinatum</i> ssp. <i>subrigidum</i>	thread water-buttercup	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Ranunculaceae	<i>Batrachium trichophyllum</i>	<i>Ranunculus</i>	water-crowfoot	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Ranunculaceae	<i>Ceratocephala orthoceras</i>	<i>Ranunculus testiculatus</i> , <i>C. testiculata</i>	bur buttercup	AnnF	Intro	Pres	Unc	Lederer & Clark 04-08 (CURE)	2004	Native to Eurasia
Ranunculaceae	<i>Clematis ligusticifolia</i>		white virgin's-bower	PerF	Wide	Pres	Unc	Lederer & Clark 04-79 (CURE)	1961	
Ranunculaceae	<i>Coriflora hirsutissima</i>	<i>Clematis hirsutissima</i>	sugar-bowls	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	
Ranunculaceae	<i>Cyrtorhyncha ranunculina</i>	<i>Ranunculus ranunculinus</i>	little buttercup	PerF	RegEn	Pres	Unc	Hogan & Tembrock 4249 (CURE)	1952	
Ranunculaceae	<i>Halerpestes cymbalaria</i> ssp. <i>saximontana</i>	<i>Ranunculus cymbalaria</i> var. <i>cymbalaria</i> . Vars. not recognized in <i>Flora of North America</i> (1997)	marsh buttercup	PerF	Wide	Pres	Unc	Engel 44 (CURE)	1961	
Ranunculaceae	<i>Hecatoniasclerata</i>	<i>Ranunculus sceleratus</i> var. <i>multifidus</i>	blister buttercup	AnnF	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Ranunculaceae	<i>Pulsatilla ludoviciana</i>	<i>Anemone nuttalliana</i> , <i>A. patens</i> var. <i>multifida</i> , <i>P. patens</i> ssp. <i>multifida</i>	pasqueflower	PerF	Wide	Pres	Unc	Hogan & Lederer 4013 (CURE)	2003	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Ranunculaceae	<i>Ranunculus glaberrimus</i> var. <i>ellipticus</i>	Includes <i>R. oreogenes</i>	sagebrush buttercup	PerF	Wide	Pres	Com	Clark & Lederer 2170 (CURE)	1995	
Ranunculaceae	<i>Ranunculus gmelinii</i> var. <i>hookeri</i>	Vars. not recognized in <i>Flora of North America</i> (1997)	lesser yellow water buttercup	PerF	Wide	Rep	Rare	NCPN (in ed.)	2001	
Ranunculaceae	<i>Ranunculus inamoenus</i> var. <i>inamoenus</i>	Includes var. <i>alpeophilus</i>	drab buttercup	PerF	Wide	Pres	Unc	Hogan, Clark, & Lederer 3962 (CURE)	2003	
Ranunculaceae	<i>Ranunculus macounii</i>		Macoun's buttercup	PerF	Wide	Pres	Unc	Clark & Lederer 2232 (CURE)	1961	
Ranunculaceae	<i>Ranunculus repens</i>	<i>R. repens</i> var. <i>repens</i>	creeping buttercup	PerF	Intro	Pres	Unc	Clark & Lederer 2248 (CURE)	2004	Native to Eurasia
Ranunculaceae	<i>Viticella orientalis</i>	<i>Clematis orientalis</i>	Oriental clematis	PerF	Intro	Pres	Unc	Hogan 4198 (CURE)	2003	CO state noxious weed (List B). Native to Asia.
Rhamnaceae	<i>Ceanothus fendleri</i>		Fendler's mountain-lilac	Shrub	Wide	Pres	Unc	Clark & Lederer 2140 (CURE)	1995	
Rhamnaceae	<i>Ceanothus velutinus</i>	<i>C. velutinus</i> var. <i>velutinus</i>	deer-brush	Shrub	Wide	Pres	?	Clark & Lederer 2135 (CURE)	2003	
Rosaceae	<i>Amelanchier alnifolia</i>	<i>A. alnifolia</i> var. <i>alnifolia</i>	Saskatoon serviceberry	Shrub	Wide	Pres	Abun	Hogan & Tembrock 4366 (CURE)	1898	
Rosaceae	<i>Amelanchier utahensis</i>		Utah serviceberry	Shrub	Wide	Pres	Unc	Morse 3192 (COLO)	1999	
Rosaceae	<i>Argentina anserina</i>	<i>Potentilla anserina</i>	silverweed	PerF	Wide	Pres	Unc	Engel 25 (CURE)	1961	
Rosaceae	<i>Cercocarpus montanus</i>		alder-leaf mountain mahogany	Shrub	Wide	Pres	Com	Lederer & Clark 03-124 (CURE)	1961	
Rosaceae	<i>Crataegus rivularis</i>	<i>C. douglasii</i> var. <i>rivularis</i>	river hawthorn	Shrub	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Rosaceae	<i>Crataegus saligna</i>		willow hawthorn	Shrub	RegEn	Pres	Unc	Clark & Lederer 2252 (CURE)	1898	
Rosaceae	<i>Dryomallis arguta</i>	<i>Potentilla arguta</i> var. <i>convallaria</i> , includes <i>ssp. arguta</i>	tall cinquefoil	PerF	Wide	Pres	Unc	Lederer & Clark 03-84 (CURE)	1995	
Rosaceae	<i>Erythrocoma triflora</i>	<i>Geum triflorum</i> var. <i>triflorum</i>	prairie-smoke	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	Known from BLCA
Rosaceae	<i>Fragaria vesca</i> ssp. <i>bracteata</i>	<i>F. vesca</i>	woodland strawberry	PerF	Wide	Pres	Unc	Hogan & Tembrock 4254 (CURE)	1961	
Rosaceae	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	<i>F. virginiana</i>	Virginia strawberry	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	Known from BLCA
Rosaceae	<i>Geum aleppicum</i>		erect avens	PerF	Wide	Pres	Unc	Clark & Lederer 2073 (CURE)	2003	
Rosaceae	<i>Geum macrophyllum</i> ssp. <i>perincisum</i>		large-leaved avens	PerF	Wide	Pres	Unc	Hogan & Clark 4027 (CURE)	1961	
Rosaceae	<i>Holodiscus discolor</i>	<i>H. dumosus</i>	bush oceanspray	Shrub	Wide	Pres	Com	Hogan & Tembrock 4360 (CURE)	1961	
Rosaceae	<i>Padus virginiana</i> ssp. <i>melanocarpa</i>	<i>Prunus virginiana</i> var. <i>melanocarpa</i>	western chokecherry	Shrub	Wide	Pres	Com	Lederer & Clark 03-54 (CURE)	1898	
Rosaceae	<i>Pentaphylloides floribunda</i>	<i>Potentilla fruticosa</i> , <i>Pentaphylloides fruticosa</i> , <i>Dasiphora fruticosa</i> ssp. <i>floribunda</i> , <i>D. floribunda</i>	shrubby cinquefoil	Shrub	Wide	Pres	Unc	Engel 46 (CURE)	1961	
Rosaceae	<i>Peraphyllum ramosissimum</i>		squaw-apple	Shrub	Wide	Rep	Unc	NCPN (in ed.)	2001	Known from BLCA
Rosaceae	<i>Physocarpus monogynus</i>		mountain ninebark	Shrub	Wide	Pres	Unc	Clark & Lederer 2092 (CURE)	1995	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Rosaceae	<i>Potentilla biennis</i>		biennial cinquefoil	AnnF	Wide	Pres	Unc	Hogan & Tembrock 4359 (CURE)	2001	
Rosaceae	<i>Potentilla concinna</i> var. <i>concinna</i>		red cinquefoil	PerF	Wide	Pres	Unc	Clark & Lederer 2168 (CURE)	2004	
Rosaceae	<i>Potentilla flabelliformis</i>	<i>P. gracilis</i> var. <i>flabelliformis</i>	graceful cinquefoil	PerF	Disj	Pres	Unc	Lederer & Clark 03-159 (CURE)	1970	
Rosaceae	<i>Potentilla gracilis</i> var. <i>elmeri</i>	<i>P. pectinsecta</i>	glabrate cinquefoil	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Rosaceae	<i>Potentilla hippiana</i>	<i>P. hippiana</i> var. <i>hippiana</i>	woolly cinquefoil	PerF	Wide	Pres	Unc	Clark & Lederer 2088 (CURE)	2001	CURE specimens have hybridized with <i>P. pulcherrima</i> .
Rosaceae	<i>Potentilla norvegica</i>	<i>P. norvegica</i> ssp. <i>monspeliensis</i>	Norwegian cinquefoil	AnnF	Intro	Pres	Unc	Hogan & Clark 4021 (COLO)	1961	Native to Europe and possibly E North America
Rosaceae	<i>Potentilla pennsylvanica</i>		Pennsylvania cinquefoil	PerF	Wide	Pres	Unc	Lederer & Clark 03-57 (CURE)	2003	
Rosaceae	<i>Potentilla plattensis</i>		Platte River cinquefoil	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Rosaceae	<i>Potentilla pulcherrima</i>	<i>P. gracilis</i> var. <i>pulcherrima</i>	beautiful cinquefoil	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	Known from BLCA
Rosaceae	<i>Potentilla rivalis</i>		brook cinquefoil	AnnF	Wide	Rep	Unc	NCPN (in ed.)	2001	
Rosaceae	<i>Purshia tridentata</i>		antelope bitterbrush	Shrub	Wide	Pres	Unc	Clark & Hogan 1968 (CURE)	1961	
Rosaceae	<i>Rosa woodsii</i>	<i>R. woodsii</i> var. <i>ultramontana</i> ; some authors include <i>R. manca</i>	Woods' rose	Shrub	Wide	Pres	Unc	Lederer & Clark 03-157 (CURE)	1961	
Rosaceae	<i>Rubus parviflorum</i>	<i>Rubus parviflorus</i>	western thimbleberry	Shrub	Wide	Pres	Unc	Hogan & Tembrock 4311 (CURE)	2004	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Rosaceae	<i>Rubus idaeus</i> ssp. <i>melanolasius</i>	<i>R. idaeus</i> var. <i>strigosus</i> , <i>R. idaeus</i> var. <i>aculeatissimus</i>	common red raspberry	Shrub	Wide	Pres	Unc	Lederer & Clark 03-50 (CURE)	1961	
Rubiaceae	<i>Galium coloradoense</i>	<i>G. multiflorum</i> var. <i>coloradoense</i>	Colorado bedstraw	PerF	RegEn	Pres	Unc	Hall 588 (COLO)	1961	Type locality is Mancos, Montezuma Co., CO (Eastwood s.n.)
Rubiaceae	<i>Galium septentrionale</i>	<i>G. boreale</i>	northern bedstraw	PerF	Wide	Pres	Com	Engel 65 (CURE)	1961	
Rubiaceae	<i>Galium triflorum</i>		sweet-scented bedstraw	PerF	Wide	Pres	Unc	Clark & Lederer 2071 (CURE)	1995	
Salicaceae	<i>Populus angustifolia</i>		narrow-leaved cottonwood	Tree	Wide	Pres	Com	Clark & Lederer 2032 (CURE)	1961	
Salicaceae	<i>Populus deltoides</i> ssp. <i>wislizenii</i>	<i>P. fremontii</i> var. <i>wislizenii</i>	Rio Grande cottonwood	Tree	Wide	Pres	Unc	Lederer & Clark 03-173 (CURE)	2001	
Salicaceae	<i>Populus tremulooides</i>		quaking aspen	Tree	Wide	Pres	Com	Lederer & Clark 03-120 (CURE)	1961	
Salicaceae	<i>Salix amygdaloides</i>		peachleaf willow	Tree	Wide	Rep	?	Flowers et al. (1962)	1961	
Salicaceae	<i>Salix bebbiana</i>		Bebb's willow	Shrub	Wide	Pres	Unc	Clark 2225 (CURE)	1961	
Salicaceae	<i>Salix boothii</i>		Booth's willow	Shrub	Wide	Pres	Unc	Clark 2218 (CURE)	2004	
Salicaceae	<i>Salix drummondiana</i>		Drummond's willow	Shrub	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Salicaceae	<i>Salix exigua</i>	<i>S. exigua</i> var. <i>exigua</i> , <i>S. exigua</i> var. <i>stenophylla</i>	coyote willow	Shrub	Wide	Pres	Com	Hogan & Clark 4024 (CURE)	1952	
Salicaceae	<i>Salix fragilis</i>		crack willow	Tree	Intro	Pres	Unc	Clark & Lederer 2040 (CURE)	2003	Native to Eurasia

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Salicaceae	<i>Salix geyeriana</i>	<i>S. geyeriana</i> var. <i>geyeriana</i>	Geyer's willow	Shrub	Wide	Pres	Unc	Lederer & Clark 03-187 (COLO)	1961	
Salicaceae	<i>Salix ligulifolia</i>	<i>S. eriocephala</i> var. <i>ligulifolia</i>	strapleaf willow	Shrub	Wide	Pres	Unc	Clark 2219 (CURE)	1980	
Salicaceae	<i>Salix lucida</i> ssp. <i>caudata</i>	<i>S. lasiandra</i> var. <i>caudata</i>	whiplash willow	Shrub	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Salicaceae	<i>Salix lucida</i> ssp. <i>lasiandra</i>		whiplash willow	Shrub	Wide	Pres	Unc	Clark & Lederer 2033 (CURE)	1961	
Salicaceae	<i>Salix monticola</i>		mountain willow	Shrub	Wide	Pres	Unc	Hogan & Clark 4028 (CURE)	1995	
Salicaceae	<i>Salix scouleriana</i>		Scouler's willow	Shrub	Wide	Pres	Unc	Hogan & Tembrock 4313 (CURE)	2004	
Santalaceae	<i>Comandra umbellata</i>	<i>C. umbellata</i> var. <i>pallida</i>	bastard toadflax	PerF	Wide	Pres	Com	Clark & Hogan 1978 (CURE)	1961	
Saxifragaceae	<i>Ciliaria austromontana</i>	<i>Saxifraga bronchialis</i> var. <i>austromontana</i>	spotted saxifrage	PerF	Wide	Pres	Unc	Lederer & Clark 03-78 (CURE)	1961	
Saxifragaceae	<i>Heuchera parvifolia</i>	Includes vars. <i>major</i> , <i>parvifolia</i> , & <i>utahensis</i>	littleleaf alumroot	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	CURE material is var. <i>parvifolia</i>
Saxifragaceae	<i>Lithophragma tenellum</i>	<i>L. tenella</i>	slender woodlandstar	PerF	Wide	Pres	Unc	Clark & Lederer 2171 (CURE)	2004	
Saxifragaceae	<i>Micranthes odontoloma</i>	<i>Saxifraga arguta</i> , <i>S.</i> <i>odontoloma</i>	brook saxifrage	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	
Saxifragaceae	<i>Sullivantia hapemanii</i> var. <i>purpusii</i>		Purpus' sullivantia	PerF	RegEn	Pres	Unc	Hogan 4203 (CURE)	2003	Type locality is Black Canyon, Montrose Co., CO (Purpus 512 UC)

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Scrophulariaceae	<i>Castilleja chromosa</i>	<i>C. angustifolia</i> var. <i>dubia</i> , <i>C. applegatei</i> ssp. <i>martinii</i>	desert paintbrush	PerF	Wide	Pres	Com	Hogan, Clark, & Lederer 3995 (CURE)	1995	
Scrophulariaceae	<i>Castilleja linariifolia</i>		Wyoming paintbrush	PerF	Wide	Pres	Unc	Clark s.n. (CURE)	1961	
Scrophulariaceae	<i>Castilleja miniata</i>	Includes <i>C. gracillima</i>	scarlet paintbrush	PerF	Wide	Pres	Unc	Clark 2210 (CURE)	2001	
Scrophulariaceae	<i>Castilleja scabrida</i>	<i>C. scabrida</i> var. <i>scabrida</i>	Eastwood's paintbrush	PerF	RegEn	Rep	Unc	NCPN (in ed.)	2001	
Scrophulariaceae	<i>Castilleja sulphurea</i>	<i>C. rhexifolia</i> var. <i>sulphurea</i> , <i>C. septentrionalis</i>	sulphur paintbrush	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	
Scrophulariaceae	<i>Collinsia parviflora</i>		blue-eyed Mary	AnnF	Wide	Pres	Com	Clark & Lederer 2169 (CURE)	1961	
Scrophulariaceae	<i>Limosella aquatica</i>		mudwort	PerF	Wide	Rep	Rare	Flowers et al. (1961)	1961	Known from BLCA
Scrophulariaceae	<i>Linaria vulgaris</i>		butter-and-eggs	PerF	Intro	Pres	Unc	Hogan 4181 (CURE)	1961	CO state noxious weed (List B). Native to Eurasia.
Scrophulariaceae	<i>Mimulus floribundus</i>		seep monkeyflower	AnnF	Wide	Pres	Unc	Hogan & Tembrock 4308 (CURE)	1995	
Scrophulariaceae	<i>Mimulus glabratus</i>	<i>M. glabratus</i> var. <i>fremontii</i> , <i>M. glabratus</i> var. <i>jamesii</i>	glabrous monkeyflower	PerF	Wide	Pres	Unc	Engel 61 (CURE)	1961	
Scrophulariaceae	<i>Mimulus guttatus</i>		yellow monkeyflower	PerF	Wide	Pres	Unc	Lederer & Clark 03-95 (CURE)	1980	
Scrophulariaceae	<i>Mimulus rubellus</i>		reddish monkeyflower	AnnF	Wide	Pres	Unc	Hogan & Tembrock 4258 (CURE)	2004	
Scrophulariaceae	<i>Orthocarpus luteus</i>		yellow owl-clover	AnnF	Wide	Pres	Unc	Engel 150 (CURE)	1980	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Scrophulariaceae	<i>Pedicularis crenulata</i>		purple-flower lousewort	PerF	Wide	Hist	NA	Baker 174 (GH)	1901	Type locality of <i>forma candida</i> is Sapinero, Gunnison Co., CO (Baker 174 GH)
Scrophulariaceae	<i>Pedicularis procera</i>		Gray's lousewort	PerF	Wide	Rep	Unc	NCPN (in ed.)	2001	
Scrophulariaceae	<i>Penstemon barbatus</i> var. <i>torreyi</i>	<i>P. barbatus</i> var. <i>barbatus</i>	beardlip penstemon	PerF	Wide	Pres	Unc	Lederer & Clark 03-110 (CURE)	1961	
Scrophulariaceae	<i>Penstemon caespitosus</i>	<i>P. caespitosus</i> var. <i>caespitosus</i> ; includes <i>P. teucricoides</i> & <i>P.</i> <i>crandallii</i>	mat penstemon	PerF	RegEn	Pres	Com	Hogan & Tembrock 4260 (CURE)	1901	Type locality of <i>P. teucricoides</i> is Sapinero, Gunnison Co., CO (Baker 186).
Scrophulariaceae	<i>Penstemon rydbergii</i>	<i>P. rydbergii</i> var. <i>rydbergii</i>	Rydberg's penstemon	PerF	Wide	Pres	Unc	Flowers 373 (COLO)	1961	
Scrophulariaceae	<i>Penstemon strictus</i>		Rocky Mountain penstemon	PerF	Wide	Pres	Com	Lederer & Clark 03-125 (CURE)	1970	
Scrophulariaceae	<i>Penstemon watsonii</i>		Watson's penstemon	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	Known from BLCA
Scrophulariaceae	<i>Scrophularia lanceolata</i>		lance-leaf figwort	PerF	Wide	Pres	Unc	Lederer & Clark 03-96 (CURE)	1961	
Scrophulariaceae	<i>Verbascum thapsus</i>		woolly mullein	PerF	Intro	Pres	Unc	Lederer & Clark 03-175 (CURE)	1995	CO state noxious weed (List C). Native to Eurasia.
Scrophulariaceae	<i>Veronica americana</i>		American brooklime	PerF	Wide	Pres	Unc	Lederer & Clark 03-89 (CURE)	1961	
Scrophulariaceae	<i>Veronica catenata</i>	Included in <i>V.</i> <i>anagallis-aquatica</i> by some authors	chain speedwell	PerF	Wide	Pres	Unc	Engel 89 (CURE)	1961	
Scrophulariaceae	<i>Veronica nutans</i>	<i>V. wormskjoldii</i>	American alpine speedwell	PerF	Wide	Rep	?	Flowers et al. (1962)	1961	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Scrophulariaceae	<i>Veronica peregrina</i> var. <i>xalapensis</i>		purslane speedwell	AnnF	Wide	Pres	Unc	Lederer & Clark 03-97 (CURE)	2001	
Scrophulariaceae	<i>Veronica serpyllifolium</i> ssp. <i>humifusum</i>	<i>Veronica serpyllifolia</i> , <i>V. serpyllifolia</i> var. <i>humifusa</i>	thyme-leaved speedwell	PerF	Wide	Pres	Unc	Hogan & Tembrock 4309 (CURE)	2004	
Selaginellaceae	<i>Selaginella densa</i>	Includes vars. <i>standleyi</i> , <i>densa</i> , & <i>scopulorum</i> , <i>S. scopulorum</i>	dense spike-moss	Fern	Wide	Pres	Unc	Clark & Lederer 2156 (CURE)	2003	
Sinopteridaceae (Polypodiaceae, Adiantaceae)	<i>Argyrochosma fendleri</i>	<i>Notholaena fendleri</i>	Fendler's cloak-fern	Fern	Sparse	Pres	Unc	Lederer & Clark 03-116 (CURE)	1961	
Sinopteridaceae (Polypodiaceae, Adiantaceae)	<i>Cheilanthes feei</i>		slender lip-fern	Fern	Wide	Pres	Unc	Hall 634 (COLO)	1961	
Solanaceae	<i>Hyoscyamus niger</i>		black henbane	AnnF	Intro	Pres	?	D. Bockus, pers. Comm.	?	CO state noxious weed (List B). Native to Europe.
Solanaceae	<i>Physalis virginiana</i>		Virginia ground-cherry	PerF	Wide	Pres	Unc	Hall 599 (COLO)	1961	Cited as <i>P. longifolia</i> by Flowers et al. (1962)
Solanaceae	<i>Solanum triflorum</i>		cut-leaf nightshade	AnnF	Wide	Pres	Unc	Lederer & Clark 03-189 (CURE)	1961	Native to C North America
Tamaricaceae	<i>Tamarix ramosissima</i>	<i>T. pentandra</i> , <i>T. chinensis</i>	five-stamen tamarisk	Shrub	Intro	Pres	Unc	Lederer & Clark 03-85 (CURE)	1961	CO state noxious weed (List B). Native to Eurasia.
Thalictraceae (Ranunculaceae)	<i>Thalictrum fendleri</i>		Fendler's meadow-rue	PerF	Wide	Pres	Unc	Clark 2212 (CURE)	1961	
Typhaceae	<i>Typha domingensis</i>		southern cattail	PerG	Sparse	Rep	Unc	Flowers et al. (1962)	1961	Cited as <i>T. angustifolia</i> by Flowers et al. (1962)

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Typhaceae	<i>Typha latifolia</i>		broad-leaved cattail	PerG	Wide	Pres	Unc	Clark & Lederer 2163 (CURE)	2003	
Ulmaceae	<i>Ulmus pumila</i>		Siberian elm	Tree	Intro	Pres	Rare	Clark & Lederer 2183 (CURE)	2004	Native to Asia
Urticaceae	<i>Parietaria pennsylvanica</i>		Pennsylvania pellitory	AnnF	Wide	Pres	Unc	Lederer & Clark 03-60 (CURE)	2003	
Urticaceae	<i>Urtica gracilis</i> ssp. <i>gracilis</i>	<i>U. dioica</i> var. <i>procera</i>	stinging nettle	PerF	Wide	Pres	Unc	Engel 140 (CURE)	1961	
Uvulariaceae (Liliaceae, Calochortaceae)	<i>Prosartes trachycarpa</i>	<i>Disporum trachycarpum</i>	rough-fruited fairy-bells	PerF	Wide	Pres	Unc	Clark & Lederer 2091 (CURE)	2003	
Uvulariaceae (Liliaceae, Calochortaceae)	<i>Streptopus fassettii</i>	<i>S. amplexifolius</i> . Includes vars. <i>amplexifolius</i> , <i>americanus</i> , & <i>chalezatus</i>	clasping twisted- stalk	PerF	Wide	Pres	Unc	Lederer & Hogan 04- 119 (CURE)	2004	
Valerianaceae	<i>Valeriana edulis</i>		tobacco-root	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1961	
Verbenaceae	<i>Verbena bracteata</i>		prostrate vervain	PerF	Wide	Pres	Unc	Clark & Lederer 2151 (CURE)	1961	
Violaceae	<i>Viola adunca</i>		hook-spur violet	PerF	Wide	Pres	Unc	Tonnesen s.n. (CURE)	1995	
Violaceae	<i>Viola rydbergii</i>	<i>V. canadensis</i> var. <i>rugulosa</i> , <i>V.</i> <i>scopulorum</i> ; included in <i>V. canadensis</i> by some authors	Canadian white violet	PerF	Wide	Pres	Unc	Lederer & Hogan 04- 122 (CURE)	2004	
Violaceae	<i>Viola scopulorum</i>	<i>V. canadensis</i> var. <i>scopulorum</i> ; included in <i>V. canadensis</i> by some authors	Canada violet	PerF	Wide	Pres	Unc	Hogan & Tembrock 4248 (CURE)	1995	

Appendix A. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by family and scientific name with taxonomic and biogeographic notes, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Pop. size	Source	Year doc.	Comments
Woodsiaceae (Polypodiaceae, Aspleniaceae)	<i>Woodsia oregana</i> <i>ssp. cathcartiana</i>		Oregon woodsia	Fern	Wide	Pres	Unc	Hogan & Tembrock 4307 (CURE)	2004	
Zygophyllaceae	<i>Tribulus terrestris</i>		puncture vine	AnnF	Intro	Pres	Unc	Hall 617 (COLO)	1961	CO state noxious weed (List C). Native to Eurasia.

Appendix B. Potential (unconfirmed) vascular plant taxa of Curecanti National Recreation Area.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Comments
Agavaceae	<i>Yucca neomexicana</i>	<i>Y. harrimaniae</i> var. <i>neomexicana</i>	New Mexico yucca	Shrub	RegEn	Known from BLCA
Alliaceae (Liliaceae)	<i>Allium acuminatum</i>		taper-tip onion	PerF	Wide	Known from BLCA
Alliaceae (Liliaceae)	<i>Allium textile</i>		textile onion	PerF	Wide	
Alsinaceae (Caryophyllaceae)	<i>Alsine media</i>	<i>Stellaria media</i>	common chickweed	AnnF	Intro	Native to Eurasia
Alsinaceae (Caryophyllaceae)	<i>Cerastium strictum</i>	<i>C. arvense</i> ssp. <i>strictum</i> , <i>C. strictum</i>	field chickweed	PerF	Wide	
Alsinaceae (Caryophyllaceae)	<i>Stellaria calycantha</i>	<i>Stellaria borealis</i> ssp. <i>sitchana</i>	northern starwort	PerF	Wide	
Amaranthaceae	<i>Amaranthus albus</i>		tumble pigweed	AnnF	Intro	Native to tropical America. Known from BLCA
Anacardiaceae	<i>Rhus glabra</i>		smooth sumac	Shrub	Wide	Known from BLCA
Apiaceae (Umbelliferae)	<i>Aletes anisatus</i>	<i>Pteryxia hendersonii</i>	Rocky Mountain Indian parsley	PerF	Wide	Known from BLCA
Apiaceae (Umbelliferae)	<i>Berula erecta</i>	<i>B. erecta</i> var. <i>incisa</i>	cutleaf water-parsnip	PerF	Wide	
Apiaceae (Umbelliferae)	<i>Conium maculatum</i>		poison-hemlock	PerF	Intro	Native to Eurasia
Apiaceae (Umbelliferae)	<i>Cymopterus bulbosus</i>		onion spring-parsley	PerF	Wide	Known from BLCA
Apiaceae (Umbelliferae)	<i>Cymopterus purpureus</i>	<i>C. purpureus</i> var. <i>purpureus</i>	Colorado Plateau spring-parsley	PerF	RegEn	Known from BLCA
Apiaceae (Umbelliferae)	<i>Lomatium grayi</i>	<i>L. grayi</i> var. <i>grayi</i>	milfoil lomatium	PerF	Wide	Known from BLCA
Apocynaceae	<i>Apocynum sibiricum</i>	<i>A. cannabinum</i> var. <i>hypericifolium</i>	clasping leaved dogbane	PerF	Sparse	
Asparagaceae (Liliaceae)	<i>Asparagus officinalis</i>		asparagus	PerF	Intro	Native to Eurasia. Known from BLCA.
Aspidiaceae (Polypodiaceae, Aspleniaceae)	<i>Dryopteris filix-mas</i>		male fern	fern	Wide	Known from BLCA
Aspleniaceae (Polypodiaceae)	<i>Cystopteris reevesiana</i>	Included in <i>C. fragilis</i> by some authors	southwestern bladder fern	fern	Wide	Known from BLCA
Asteraceae (Compositae)	<i>Arnica parryi</i>	<i>A. parryi</i> var. <i>parryi</i>	rayless arnica	PerF	Wide	

Appendix B. Potential (unconfirmed) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Comments
Asteraceae (Compositae)	<i>Artemisia carruthii</i>		Carruth's wormwood	PerF	Wide	Known from BLCA
Asteraceae (Compositae)	<i>Aster laevis</i> var. <i>geyeri</i>	<i>A. laevis</i> , <i>Symphotrichum laeve</i> , <i>Symphotrichum laeve</i> var. <i>geyeri</i>	smooth aster	PerF	Wide	
Asteraceae (Compositae)	<i>Brickellia longifolia</i>	<i>B. longifolia</i> var. <i>longifolia</i>	longleaf brickellbush	Shrub	Periph	Known from BLCA
Asteraceae (Compositae)	<i>Brickellia oblongifolia</i>	<i>B. oblongifolia</i> var. <i>linifolia</i>	Mohave brickellbush	Shrub	Wide	Known from BLCA
Asteraceae (Compositae)	<i>Chaenactis stevioides</i>		stevia dusty-maiden	AnnF	Wide	
Asteraceae (Compositae)	<i>Cirsium calcareum</i>	<i>C. calcareum</i> var. <i>calcareum</i> ; included in <i>C. arizonicum</i> var. <i>bipinnatum</i> (<i>Flora of North America</i> 2006)	Caineville thistle	PerF	RegEn	
Asteraceae (Compositae)	<i>Cirsium eatonii</i>	<i>C. tweedyi</i> , <i>C. polyphyllum</i> , includes vars. <i>eatonii</i> & <i>harrisonii</i>	Eaton's thistle	PerF	RegEn	Known from BLCA
Asteraceae (Compositae)	<i>Cirsium neomexicanum</i>	<i>C. neomexicanum</i> var. <i>neomexicanum</i> ; vars. not recognized in <i>Flora of North America</i> (2006)	New Mexico thistle	PerF	Wide	Known from BLCA
Asteraceae (Compositae)	<i>Cirsium scariosum</i>	<i>C. scariosum</i> var. <i>scariosum</i>	elk thistle	PerF	Wide	
Asteraceae (Compositae)	<i>Dyssodia papposa</i>		pappose glandweed	AnnF	Wide	Native to C North America
Asteraceae (Compositae)	<i>Erigeron canus</i>		hoary daisy	PerF	Wide	
Asteraceae (Compositae)	<i>Erigeron coulteri</i>		Coulter's daisy	PerF	Wide	
Asteraceae (Compositae)	<i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>	<i>E. peregrinus</i> var. <i>scaposus</i> , <i>E. glacialis</i> var. <i>glacialis</i>	wandering fleabane	PerF	Wide	
Asteraceae (Compositae)	<i>Euthamia occidentalis</i>	<i>Solidago occidentalis</i>	western goldenrod	PerF	Wide	Known from BLCA
Asteraceae (Compositae)	<i>Helianthella quinquenervis</i>		five-nerve sunflower	PerF	Wide	Known from BLCA

Appendix B. Potential (unconfirmed) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Comments
Asteraceae (Compositae)	<i>Hymenopappus filifolius</i> var. <i>luteus</i>		Wyoming hyalineherb	PerF	RegEn	Known from BLCA
Asteraceae (Compositae)	<i>Lepidotheca suaveolens</i>	<i>Matricaria matricarioides</i> , <i>M. discoidea</i>	pineapple-weed	AnnF	Wide	
Asteraceae (Compositae)	<i>Machaeranthera pinnatifida</i>	<i>M. pinnatifida</i> var. <i>pinnatifida</i> , <i>Haplopappus spinulosus</i> var. <i>spinulosus</i>	lacy tansy-aster	PerF	Wide	Known from BLCA
Asteraceae (Compositae)	<i>Madia glomerata</i>		mountain tarweeed	AnnF	Wide	Known from BLCA
Asteraceae (Compositae)	<i>Microseris nutans</i>		nodding microseris	PerF	Wide	Known from BLCA
Asteraceae (Compositae)	<i>Packera dimorphophylla</i>	<i>Senecio dimorphophyllus</i> var. <i>dimorphophyllus</i> , <i>P. dimorphophylla</i> var. <i>dimorphophylla</i>	two-leaf groundsel	PerF	RegEn	
Asteraceae (Compositae)	<i>Pseudognaphalium stramineum</i>	<i>Gnaphalium chilense</i> , <i>G. stramineum</i>	cottonbatting cudweed	AnnF	Wide	
Asteraceae (Compositae)	<i>Psilochenia atribarba</i>	<i>Crepis atribarba</i>	slender hawksbeard	PerF	Wide	Known from BLCA
Asteraceae (Compositae)	<i>Psilochenia modocensis</i>	<i>Crepis modocensis</i>	Modoc hawksbeard	PerF	Wide	Known from BLCA
Asteraceae (Compositae)	<i>Pyrrocoma crocea</i>	<i>Haplopappus croceus</i>	curly-head gumweed	PerF	Wide	
Asteraceae (Compositae)	<i>Senecio wootonii</i>		Wooton's ragwort	PerF	Wide	Known from BLCA
Asteraceae (Compositae)	<i>Virgulus falcatus</i>	<i>Aster falcatus</i> var. <i>falcatus</i> , <i>Symphotrichum falcatum</i> var. <i>falcatum</i>	falcate aster	PerF	Wide	
Asteraceae (Compositae)	<i>Wyethia arizonica</i>		Arizona mulesears	PerF	RegEn	Known from BLCA
Boraginaceae	<i>Asperugo procumbens</i>		catchweed	AnnF	Intro	Native to Eurasia
Boraginaceae	<i>Cryptantha pterocarya</i>	<i>C. pterocarya</i> var. <i>pterocarya</i>	wing-nut cryptanth	AnnF	Wide	Known from BLCA
Boraginaceae	<i>Cryptantha watsonii</i>		Watson's cryptanth	AnnF	Wide	Known from BLCA
Boraginaceae	<i>Lappula marginata</i>	<i>L. texana</i> , <i>L. redowskii</i> var. <i>cupulata</i> , <i>L. occidentalis</i> var. <i>cupulata</i>	cupseed stickseed	AnnF	Wide	Known from BLCA

Appendix B. Potential (unconfirmed) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Comments
Boraginaceae	<i>Lappula squarrosa</i>	<i>L. echinata</i> , <i>L. squarrosa</i> var. <i>squarrosa</i>	European stickseed	AnnF	Intro	Native to Eurasia. Native race (<i>L. erecta</i>) from the Rocky Mountains is probably extralimital
Boraginaceae	<i>Mertensia arizonica</i> var. <i>grahamii</i>	<i>M. arizonica</i>	aspen bluebell	PerF	Periph	Known from BLCA
Boraginaceae	<i>Oreocarya bakeri</i>	<i>Cryptantha bakeri</i>	Baker's cryptanth	PerF	RegEn	Type locality is Mancos River, Montezuma Co., CO (Baker et al. 827)
Boraginaceae	<i>Plagiobothrys scouleri</i> ssp. <i>penicillatus</i>	<i>P. scouleri</i> var. <i>hispidulus</i>	meadow popcorn-flower	AnnF	Wide	Known from BLCA
Brassicaceae (Cruciferae)	<i>Alyssum alysooides</i>		pale madwort	AnnF	Intro	Native to Europe
Brassicaceae (Cruciferae)	<i>Alyssum parviflorum</i>	<i>A. parviflorum</i> var. <i>micranthum</i> , <i>A. simplex</i> , <i>A.</i> <i>minus</i> var. <i>micranthum</i>	European madwort	AnnF	Intro	Native to Eurasia. Known from BLCA.
Brassicaceae (Cruciferae)	<i>Camelina rumelica</i>		graceful false flax	AnnF	Intro	
Brassicaceae (Cruciferae)	<i>Cardaria latifolia</i>	<i>Lepidium latifolium</i>	broad-leaf pepperwort	PerF	Intro	CO state noxious weed (List B). Native to Eurasia
Brassicaceae (Cruciferae)	<i>Conringia orientalis</i>		hare's-ear mustard	AnnF	Intro	Native to Europe
Brassicaceae (Cruciferae)	<i>Descurainia californica</i>		California tansy-mustard	AnnF	Wide	
Brassicaceae (Cruciferae)	<i>Draba nemorosa</i>		woodland whitlow-grass	AnnF	Intro	Native to Eurasia. Known from BLCA
Brassicaceae (Cruciferae)	<i>Draba reptans</i>		dwarf draba	AnnF	Wide	Known from BLCA
Brassicaceae (Cruciferae)	<i>Erysimum repandum</i>		spreading wallflower	AnnF	Intro	Native to Europe. Known from BLCA
Brassicaceae (Cruciferae)	<i>Hymenolobus procumbens</i>	<i>Hornungia procumbens</i> , <i>Hutchinsia procumbens</i>	ovalpurse	AnnF	Sparse	
Brassicaceae (Cruciferae)	<i>Lepidium montanum</i> var. <i>jonesii</i>		Jones' pepperwort	PerF	Wide	Known from BLCA
Brassicaceae (Cruciferae)	<i>Lepidium montanum</i> var. <i>tenellum</i>		mountain pepperweed	PerF	LocEn	Known from BLCA

Appendix B. Potential (unconfirmed) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Comments
Brassicaceae (Cruciferae)	<i>Lepidium ramosissimum</i> var. <i>bourgeauanum</i>	<i>L. bourgeauanum</i>	branched pepperwort	AnnF	Periph	Known from BLCA
Brassicaceae (Cruciferae)	<i>Lesquerella rectipes</i>	<i>Physaria rectipes</i>	Colorado Plateau bladderpod	PerF	RegEn	
Brassicaceae (Cruciferae)	<i>Malcolmia africana</i>		African mustard	AnnF	Intro	Native to Africa
Brassicaceae (Cruciferae)	<i>Sisymbrium loeselii</i>		false London rocket	AnnF	Intro	Native to Eurasia
Brassicaceae (Cruciferae)	<i>Stanleya pinnata</i> var. <i>pinnata</i>	<i>S. pinnata</i>	prince's-plume	PerF	Wide	Known from BLCA
Brassicaceae (Cruciferae)	<i>Thelypodopsis elegans</i>		elegant thelypody	PerF	RegEn	Known from BLCA
Brassicaceae (Cruciferae)	<i>Thelypodopsis juniperorum</i>	<i>Sisymbrium juniperorum</i>	juniper tumblemustard	AnnF	LocEn	Known from BLCA
Brassicaceae (Cruciferae)	<i>Thelypodium integrifolium</i>	<i>T. integrifolium</i> var. <i>integrifolium</i>	entire-leaf thelypody	PerF	Wide	
Cactaceae	<i>Opuntia phaeacantha</i>	<i>O. phaeacantha</i> var. <i>phaeacantha</i> ; vars. not recognized in <i>Flora of North America</i> (2003)	berry pricklypear	PerF	Wide	Known from BLCA
Callitrichaceae	<i>Callitriche hermaphroditica</i>		secret water-starwort	PerF	Wide	
Caryophyllaceae	<i>Melandrium dioicum</i>	<i>Silene latifolia</i> , <i>Lychnis alba</i>	white campion	PerF	Intro	Native to Europe
Ceratophyllaceae	<i>Ceratophyllum demersum</i>		common hornwort	PerF	Wide	
Chenopodiaceae	<i>Atriplex gardneri</i>	<i>A. gardneri</i> var. <i>gardneri</i> , <i>A. nuttallii</i>	Gardner's saltbush	Shrub	Wide	Known from BLCA
Chenopodiaceae	<i>Chenopodium foliosum</i>	<i>C. capitatum</i> var. <i>parvicapitatum</i> , <i>C. overi</i>	smallhead goosefoot	AnnF	Wide	
Chenopodiaceae	<i>Halogeton glomeratus</i>		halogeton	AnnF	Intro	Native to Eurasia. Known from BLCA
Chenopodiaceae	<i>Salsola collina</i>		slender Russian-thistle	AnnF	Intro	Native to Russia
Chenopodiaceae (Sarcobataceae)	<i>Sarcobatus vermiculatus</i>		greasewood	Shrub	Wide	Known from BLCA

Appendix B. Potential (unconfirmed) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Comments
Crossosomataceae (Celastraceae)	<i>Forsellesia meionandra</i>	<i>Glossopetalon spinescens</i> var. <i>meionandrum</i>	spiny greasebush	Shrub	RegEn	Known from BLCA
Cyperaceae	<i>Carex disperma</i>		soft-leaved sedge	PerG	Wide	
Cyperaceae	<i>Carex douglasii</i>		Douglas' sedge	PerG	Wide	
Cyperaceae	<i>Carex ebenea</i>		ebony sedge	PerG	Wide	
Cyperaceae	<i>Carex geophila</i>		White Mountain sedge	PerG	Wide	Known from BLCA
Cyperaceae	<i>Carex petasata</i>		Liddon sedge	PerG	Wide	Known from BLCA
Cyperaceae	<i>Carex praticola</i>		meadow sedge	PerG	Wide	
Cyperaceae	<i>Carex rossii</i>	<i>C. deflexa</i> var. <i>boottii</i> , <i>C. brevipes</i> , <i>C. pityophila</i>	Ross' sedge	PerG	Wide	Known from BLCA
Cyperaceae	<i>Eleocharis bolanderi</i>	<i>E. montevidensis</i>	Bolander's spikerush	PerG	Wide	Known from BLCA
Cyperaceae	<i>Scirpus pallidus</i>	<i>S. atrovirens</i> var. <i>pallidus</i>	pale bulrush	PerG	Wide	
Ephedraceae	<i>Ephedra viridis</i>	<i>E. viridis</i> var. <i>viridis</i>	green ephedra	Shrub	Wide	Known from BLCA
Equisetaceae	<i>Hippochaete x ferrissii</i>	<i>Equisetum x ferrissii</i> , hybrid of <i>E. hyemale</i> x <i>E. laevigatum</i>	Ferriss' horsetail	fern	Sparse	Known from BLCA
Fabaceae (Leguminosae)	<i>Astragalus amphioxys</i> var. <i>vespertinus</i>		Sheldon's milkvetch	PerF	RegEn	
Fabaceae (Leguminosae)	<i>Astragalus bisulcatus</i>	<i>A. bisulcatus</i> var. <i>bisulcatus</i>	two-grooved milkvetch	PerF	Wide	
Fabaceae (Leguminosae)	<i>Astragalus flavus</i>	<i>A. flavus</i> var. <i>candicans</i> , <i>A. flavus</i> var. <i>flavus</i>	yellow milkvetch	PerF	Wide	Known from BLCA
Fabaceae (Leguminosae)	<i>Astragalus hallii</i>	<i>A. hallii</i> var. <i>hallii</i>	Hall's milkvetch	PerF	RegEn	
Fabaceae (Leguminosae)	<i>Astragalus haydenianus</i>	<i>A. bisulcatus</i> var. <i>haydenianus</i>	Hayden's milkvetch	PerF	Wide	
Fabaceae (Leguminosae)	<i>Astragalus lentiginosus</i> var. <i>palans</i>		straggling milkvetch	PerF	RegEn	Type locality is Montezuma Canyon, San Juan Co., UT (Eastwood s.n. POM). Known from BLCA.
Fabaceae (Leguminosae)	<i>Astragalus lonchocarpus</i>		great rushy milkvetch	PerF	Wide	
Fabaceae (Leguminosae)	<i>Astragalus microcymbus</i>		skiff milkvetch	PerF	LocEn	

Appendix B. Potential (unconfirmed) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Comments
Fabaceae (Leguminosae)	<i>Astragalus miser</i> var. <i>oblongifolius</i>		Rydberg's weedy milkvetch	PerF	Wide	Known from BLCA
Fabaceae (Leguminosae)	<i>Astragalus pattersonii</i>		Patterson's milkvetch	PerF	RegEn	Type locality is near Grand Canyon of the Grand River, Grand Co., CO (Patterson s.n. GH)
Fabaceae (Leguminosae)	<i>Astragalus praelongus</i> var. <i>praelongus</i>		stinking milkvetch	PerF	Wide	
Fabaceae (Leguminosae)	<i>Astragalus wetherillii</i>		Wetherill's milkvetch	PerF	RegEn	
Fabaceae (Leguminosae)	<i>Astragalus wingatanus</i>		Fort Wingate milkvetch	PerF	RegEn	Known from BLCA
Fabaceae (Leguminosae)	<i>Lupinus polyphyllus</i> var. <i>prunophilus</i>	<i>L. prunophilus</i>	meadow lupine	PerF	Wide	Known from BLCA
Helleboraceae (Ranunculaceae)	<i>Aquilegia barnebyi</i>		shale columbine	PerF	RegEn	
Helleboraceae (Ranunculaceae)	<i>Aquilegia coerulea</i>	Includes vars. <i>ochroleuca</i> & <i>pinetorum</i> from <i>Flora of</i> <i>North America</i> (1997)	Colorado columbine	PerF	Wide	State flower of Colorado
Helleboraceae (Ranunculaceae)	<i>Aquilegia micrantha</i>		alcove columbine	PerF	RegEn	Type locality is Bluff, San Juan Co., UT (Wetherill s.n. CAS). Known from BLCA.
Hippuridaceae	<i>Hippuris vulgaris</i>		common mare's-tail	PerF	Wide	
Hydrangeaceae (Saxifragaceae)	<i>Fendlera wrightii</i>	<i>F. rupicola</i> var. <i>wrightii</i>	Wright's fendlerbush	Shrub	Wide	Known from BLCA
Hydrocharitaceae	<i>Elodea nuttallii</i>		western waterweed	PerF	Sparse	
Lamiaceae (Labiatae)	<i>Salvia reflexa</i>		annual sage	PerF	Wide	
Lemnaceae	<i>Lemna trisulca</i>		ivy-leaf duckweed	PerF	Wide	
Liliaceae	<i>Fritillaria atropurpurea</i>		leopard-lily	PerF	Wide	Known from BLCA
Limnanthaceae	<i>Floerkea proserpinacoides</i>		false mermaid	AnnF	Wide	
Loasaceae	<i>Acrolasia humilis</i>	<i>Nuttallia humilis</i> , <i>Mentzelia humilis</i> , <i>M. thompsonii</i>	Thompson's stickleaf	AnnF	RegEn	Type locality is 7 miles E of Montrose, Montrose Co., CO (Weber 7470). Known from BLCA.

Appendix B. Potential (unconfirmed) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Comments
Melanthiaceae (Liliaceae)	<i>Toxicoscordion paniculatum</i>	<i>Zigadenus paniculatus</i>	foothills death-camas	PerF	Wide	Known from BLCA
Oleaceae	<i>Fraxinus anomala</i>		singleleaf ash	Shrub	Wide	Known from BLCA
Onagraceae	<i>Epilobium halleanum</i>		Hall's willow-herb	PerF	Wide	Known from BLCA
Onagraceae	<i>Oenothera coronopifolia</i>		hairy-throat evening-primrose	PerF	Wide	Known from BLCA
Orobanchaceae	<i>Aphyllon uniflorum</i>	<i>Orbanche uniflora</i> var. <i>occidentalis</i>	naked broomrape	PerF	Wide	Known from BLCA
Plantaginaceae	<i>Plantago patagonica</i>	<i>P. patagonica</i> var. <i>patagonica</i>	woolly plantain	AnnF	Wide	
Poaceae (Gramineae)	<i>Agropyron pectiniforme</i>	<i>A. cristatum</i> var. <i>pectiniforme</i> ; included within <i>A. cristatum</i> (without var.) in <i>Flora of North America</i> vol 24 (2007)	crested wheatgrass	PerG	Intro	Native to Eurasia
Poaceae (Gramineae)	<i>Blepharoneuron tricholepis</i>		pine dropseed	PerG	Wide	Known from BLCA
Poaceae (Gramineae)	<i>Calamagrostis scopulorum</i>		Jones' reedgrass	PerG	Wide	
Poaceae (Gramineae)	<i>Eremopyrum triticeum</i>	<i>Agropyron triticeum</i>	annual wheatgrass	AnnG	Intro	Native to Asia. Known from BLCA.
Poaceae (Gramineae)	<i>Festuca arundinacea</i>	<i>Schedonorus phoenix</i> , <i>S. arundinaceus</i> , <i>Lolium arundinaceum</i>	tall fescue	PerG	Intro	Native to Europe. Known from BLCA
Poaceae (Gramineae)	<i>Festuca idahoensis</i>	<i>F. ovina</i> var. <i>ingrata</i>	Idaho fescue	PerG	Wide	Known from BLCA
Poaceae (Gramineae)	<i>Poa bulbosa</i>		bulbous bluegrass	PerG	Intro	Native to Eurasia and Africa. Known from BLCA.
Poaceae (Gramineae)	<i>Poa glaucifolia</i>	Included in <i>P. arida</i> by some authors	pale-leaf bluegrass	PerG	Wide	Known from BLCA
Poaceae (Gramineae)	<i>Puccinellia airoides</i>	<i>P. nuttalliana</i>	Nuttall's alkaligrass	PerG	Wide	
Poaceae (Gramineae)	<i>Thinopyrum ponticum</i>	<i>Elymus elongatus</i> , <i>E. elongatus</i> var. <i>ponticus</i> , <i>Agropyron elongatum</i>	tall wheatgrass	PerG	Intro	Native to Eurasia. Known from BLCA
Polemoniaceae	<i>Microsteris gracilis</i>	<i>M. gracilis</i> var. <i>humilior</i> , <i>Phlox gracilis</i> ssp. <i>humilis</i>	slender phlox	AnnF	Wide	Known from BLCA

Appendix B. Potential (unconfirmed) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Comments
Polemoniaceae	<i>Navarretia breweri</i>		yellow navarretia	AnnF	Wide	Known from BLCA
Polygonaceae	<i>Acetosella vulgaris</i>	<i>Rumex acetosella</i>	sheep sorrel	PerF	Intro	Native to Eurasia. Known from BLCA.
Polygonaceae	<i>Polygonum polygaloides</i> ssp. <i>kelloggii</i>	<i>P. kelloggii</i> var. <i>kelloggii</i>	Kellogg's knotweed	AnnF	Wide	Known from BLCA
Polygonaceae	<i>Pterogonum alatum</i>	<i>Eriogonum alatum</i>	winged wild buckwheat	PerF	Wide	Known from BLCA
Portulacaceae	<i>Claytonia lanceolata</i>	<i>C. lanceolata</i> var. <i>lanceolata</i> . Some authors include <i>C. rosea</i>	lanceleaf springbeauty	PerF	Wide	Known from BLCA
Ranunculaceae	<i>Myosurus cupulatus</i>		horseshoe mousetail	AnnF	Periph	Known from BLCA
Rosaceae	<i>Petrophyton caespitosum</i>	<i>Spiraea caespitosa</i>	rock spiraea	PerF	Wide	Known from BLCA
Rubiaceae	<i>Galium bifolium</i>		twin-leaf bedstraw	AnnF	Wide	Known from BLCA
Rubiaceae	<i>Galium spurium</i>	<i>G. aparine</i> var. <i>echinospermon</i>	cleavers	AnnF	Wide	Known from BLCA
Saxifragaceae	<i>Lithophragma glabrum</i>	<i>L. bulbifera</i> , <i>L. glabra</i> , <i>L. glabrum</i> var. <i>ramulosum</i>	fringe cup woodlandstar	PerF	Wide	Known from BLCA
Scrophulariaceae	<i>Besseya ritteriana</i>		Ritter's coraldrops	PerF	RegEn	
Scrophulariaceae	<i>Pedicularis centranthera</i>		dwarf lousewort	PerF	Wide	Known from BLCA
Scrophulariaceae	<i>Pocilla biloba</i>	<i>Veronica biloba</i>	two-lobe speedwell	AnnF	Intro	Native to Asia. Known from BLCA.
Selaginellaceae	<i>Selaginella mutica</i>	<i>S. mutica</i> var. <i>mutica</i>	blunt-leaf spike-moss	fern	Wide	Known from BLCA
Solanaceae	<i>Lycium barbarum</i>	<i>L. halimifolium</i>	matrimony-vine	Shrub	Intro	Native to Eurasia. Known from BLCA
Ulmaceae (Celtidaceae)	<i>Celtis reticulata</i>	<i>C. laevigata</i> var. <i>reticulata</i>	netleaf hackberry	Tree	Wide	Known from BLCA
Valerianaceae	<i>Valeriana capitata</i> var. <i>acutiloba</i>	<i>V. acutiloba</i> var. <i>acutiloba</i> ; some authors include var. <i>pubicarpa</i>	mountain valerian	PerF	Wide	Type locality of <i>V. acutiloba</i> is Sangre de Cristo Range, CO (Ryddberg & Vreeland 5576 NY). Known from BLCA.
Violaceae	<i>Viola bitermata</i>	<i>V. sheltonii</i>	Shelton's violet	PerF	Disj	Known from BLCA
Violaceae	<i>Viola vallicola</i>	<i>V. nuttallii</i> var. <i>vallicola</i> , <i>V. vallicola</i> var. <i>vallicola</i>	valley violet	PerF	Wide	Known from BLCA

Appendix B. Potential (unconfirmed) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Comments
Viscaceae	<i>Phoradendron juniperinum</i>		juniper mistletoe	PerF	Wide	Typically parasitic on <i>Juniperus osteosperma</i> . Known from BLCA.
Zannichelliaceae	<i>Zannichellia palustris</i>		horned pondweed	PerF	Wide	Known from BLCA

The vascular plant species shown in this table are known from the vicinity of Curecanti National Recreation Area in Gunnison and Montrose counties, Colorado, but have not previously been reported or confirmed for the recreation area. Species on this list are derived from a checklist of potential species developed by Hogan et al. (2005) and Weber (no date) for Curecanti National Recreation Area's NPSpecies database.

Appendix C. Rejected (falsely reported or questionable) vascular plant taxa of Curecanti National Recreation Area.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Comments
Agavaceae	<i>Yucca angustissima</i>	<i>Y. angustissima</i> var. <i>angustissima</i>	narrowleaved yucca	Shrub	RegEn	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species.
Alinaceae (Caryophyllaceae)	<i>Stellaria crassifolia</i>		thick-leaved starwort	PerF	Wide	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Apiaceae (Umbelliferae)	<i>Cymopterus multinervatus</i>		purple-nerved spring-parsley	PerF	Wide	FalsRep	Reports from CURE based on misidentified specimens of <i>C. constancei</i> . Also cited by NCPN (in ed.).
Apiaceae (Umbelliferae)	<i>Cymopterus purpurascens</i>		basin white-cup spring-parsley	PerF	Wide	FalsRep	Reports from CURE based on misidentified specimens of <i>C. constancei</i> .
Aspleniaceae	<i>Asplenium trichomanes</i>	<i>A. trichomanes</i> var. <i>trichomanes</i>	maidenhair spleenwort	fern	Periph	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Asteraceae (Compositae)	<i>Agoseris heterophylla</i>	<i>A. heterophylla</i> var. <i>heterophylla</i>	annual agoseris	AnnF	Periph	Ques?	Reported by NCPN (in ed.), but CURE is well outside the expected range of this species.
Asteraceae (Compositae)	<i>Arnica fulgens</i>		orange arnica	PerF	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species.
Asteraceae (Compositae)	<i>Artemisia michauxiana</i>		Michaux's wormwood	PerF	Wide	Ques?	Reported by Flowers et al. (1962) and NCPN (in ed.), but CURE lacks likely habitat.
Asteraceae (Compositae)	<i>Chrysothamnus nauseosus</i> ssp. <i>leiospermum</i>	<i>Ericameria nauseosa</i> var. <i>leiosperma</i>	smoothseed rabbitbrush	Shrub	RegEn	FalsRep	Based on Weber (no date) previous reports from CURE are all ssp. <i>graveolens</i> .
Asteraceae (Compositae)	<i>Chrysothamnus nauseosus</i> ssp. <i>nauseosus</i>	<i>Ericameria nauseosa</i> var. <i>nauseosa</i> . Includes var. <i>hololeucus</i>	rubber rabbitbrush	Shrub	Wide	FalsRep	Based on Weber (no date) previous reports from CURE are all ssp. <i>graveolens</i> .
Asteraceae (Compositae)	<i>Erigeron nematophyllus</i>		needle-leaf fleabane	PerF	RegEn	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Asteraceae (Compositae)	<i>Erigeron philadelphicus</i>		Philadelphia fleabane	PerF	Periph	FalsRep	Report from Flowers et al. (1962) based on a misidentified specimen of <i>E. glabellus</i> .

Appendix C. Rejected (falsely reported or questionable) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Comments
Asteraceae (Compositae)	<i>Grindelia arizonica</i> var. <i>stenophylla</i>		Arizona gumweed	PerF	Wide	Ques?	Reported by NCPN (in ed.), but CURE is outside the expected range of this species.
Asteraceae (Compositae)	<i>Gutierrezia microcephala</i>		thread snakeweed	Shrub	Periph	FalsRep	Reports from CURE based on misidentified specimens of <i>G. sarothrae</i> .
Asteraceae (Compositae)	<i>Packera tridenticulata</i>	<i>Senecio tridenticulatus</i>	three-tooth groundsel	PerF	Wide	Ques?	Reported by NCPN (in ed.), but CURE specimens are probably <i>P. neomexicana</i> .
Asteraceae (Compositae)	<i>Solidago nana</i>		baby goldenrod	PerF	Wide	Ques?	Reported by NCPN (in ed.), but CURE is outside the expected range of this species.
Asteraceae (Compositae)	<i>Solidago nemoralis</i>		gray goldenrod	PerF	Periph	Ques?	Reported by NCPN (in ed.), but CURE specimens are probably <i>S. velutina</i> .
Asteraceae (Compositae)	<i>Stenotus acaulis</i>	<i>Haplopappus acaulis</i> var. <i>acaulis</i> , <i>S. acaulis</i> var. <i>acaulis</i>	stemless goldenweed	PerF	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species.
Asteraceae (Compositae)	<i>Townsendia strigosa</i>	<i>T. strigosa</i> var. <i>strigosa</i>	hairy townsendia	PerF	RegEn	Ques?	Reported by NCPN (in ed.), but CURE specimens are probably <i>T. incana</i> .
Boraginaceae	<i>Amsinckia menziesii</i>	<i>A. rugosa</i>	Menzies' fiddleneck	AnnF	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species.
Boraginaceae	<i>Oreocarya sericea</i>	<i>Cryptantha sericea</i>	silky cryptanth	PerF	RegEn	Ques?	Reported by NCPN (in ed.), but CURE is outside the expected range of this species.
Brassicaceae (Cruciferae)	<i>Lepidium virginicum</i>	<i>L. virginicum</i> var. <i>medium</i>	poor-man's pepperwort	AnnF	Sparse	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report probably based on <i>L. densiflorum</i> .
Brassicaceae (Cruciferae)	<i>Rorippa curvisiliqua</i>	<i>Radicula lyrata</i>	curve-pod yellowcress	AnnF	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is well outside the expected range of this species (not reported for Colorado)
Brassicaceae (Cruciferae)	<i>Schoenocrambe linearifolia</i>	<i>Hesperidanthus linearifolius</i>	slim-leaf plains- mustard	PerF	Wide	Ques?	Reported by NCPN (in ed.), but CURE specimens are probably <i>S. linearifolia</i> .
Cactaceae	<i>Coryphantha</i> sp.		pincushion cactus	PerF	Wide	FalsRep	Based on Weber (no date) previous reports from CURE are probably <i>Pediocactus simpsonii</i> .

Appendix C. Rejected (falsely reported or questionable) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Comments
Cactaceae	<i>Echinocereus coccineus</i>		scarlet hedgehog cactus	PerF	Periph	Ques?	Reported for CURE, but recreation area is well outside the expected range of this species (Weber, no date).
Caprifoliaceae	<i>Lonicera fragrantissima</i>		fragrant honeysuckle	Shrub	Intro	Ques?	Reported by Flowers et al. (1962) but not otherwise documented in Colorado according to Weber and Wittmann (2001).
Caprifoliaceae	<i>Symphoricarpos albus</i>		common snowberry	Shrub	Sparse	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report probably based on <i>S. rotundifolius</i> .
Caprifoliaceae	<i>Symphoricarpos longiflorus</i>		long-flower snowberry	Shrub	Periph	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report probably based on <i>S. rotundifolius</i> .
Chenopodiaceae	<i>Atriplex prostrata</i>	<i>A. hastata</i>	hastate orache	AnnF	Sparse	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species.
Crassulaceae	<i>Sedum acre</i>		mossy stonecrop	PerF	Intro	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date). Native to Eurasia.
Crassulaceae	<i>Sedum stenopetalum</i>		worm-leaf stonecrop	PerF	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report probably based on <i>Amerosedum lanceolatum</i> .
Cyperaceae	<i>Carex bebbii</i>		Bebb's sedge	PerG	Wide	Ques?	Reported by NCPN (in ed.), but CURE lacks likely habitat.
Cyperaceae	<i>Carex egglestonii</i>		Eggleston's sedge	PerG	RegEn	Ques?	Reported by NCPN (in ed.), but CURE lacks likely habitat.
Cyperaceae	<i>Carex paysonis</i>		Payson's sedge	PerG	Wide	Ques?	Reported for CURE, but this species is not known to occur in Colorado (Weber, no date).
Cyperaceae	<i>Carex sartwellii</i>	<i>C. sartwellii</i> var. <i>sartwellii</i>	Sartwell's sedge	PerG	Sparse	Ques?	Reported by Flowers et al. (1962) but suitable habitat is not present in CURE.

Appendix C. Rejected (falsely reported or questionable) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Comments
Cyperaceae	<i>Schoenoplectus americanus</i>	<i>Scirpus americanus</i>	Chairmaker's clubrush	PerG	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report probably based on <i>Schoenoplectus pungens</i> .
Elaeagnaceae	<i>Elaeagnus commutatus</i>		silverberry	Shrub	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species.
Fabaceae (Leguminosae)	<i>Astragalus parryi</i>		Parry's milkvetch	PerF	RegEn	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Fabaceae (Leguminosae)	<i>Astragalus purshii</i>	<i>A. purshii</i> var. <i>purshii</i>	Pursh's milkvetch	PerF	Wide	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Fabaceae (Leguminosae)	<i>Lathyrus brachycalyx</i> var. <i>zionis</i>		Zion milkvetch	PerF	RegEn	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report probably based on <i>L. eucoismus</i> .
Fabaceae (Leguminosae)	<i>Lupinus formosus</i> var. <i>robustus</i>	<i>L. greenei</i>	summer lupine	PerF	RegEn	Ques?	Reported by Flowers et al. (1962) as <i>L. greenei</i> , but CURE is well outside the expected range of this species (endemic to California).
Grossulariaceae (Saxifragaceae)	<i>Ribes coloradense</i>		Colorado currant	Shrub	RegEn	FalsRep	Reported for CURE based on a misidentified specimen of <i>R. wolfii</i> .
Iridaceae	<i>Sisyrinchium demissum</i>		blue-eyed grass	PerG	Sparse	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report probably based on <i>S. montanum</i> .
Juncaceae	<i>Juncus ensifolius</i>		mountain rush	PerG	Wide	Ques?	Reported by NCPN (in ed.), but CURE is outside the expected range of this species.
Juncaceae	<i>Juncus parryi</i>		Parry's rush	PerG	Wide	Ques?	Reported by NCPN (in ed.), but CURE lacks likely habitat.
Liliaceae	<i>Fritillaria lanceolata</i>		lanceolate checker-lily	PerF	Wide	Ques?	Reported for CURE, but this species is not known to occur in Colorado (Weber, no date).
Liliaceae	<i>Lilium philadelphicum</i>		wood lily	PerF	Sparse	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).

Appendix C. Rejected (falsely reported or questionable) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Comments
Loasaceae	<i>Mentzelia pumila</i>		golden blazing-star	PerF	RegEn	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report probably based on <i>Nuttallia rusbyi</i> .
Onagraceae	<i>Chamerion subdentatum</i>	<i>Epilobium latifolium</i> , <i>C. latifolium</i>	broad-leaf fireweed	PerF	Wide	Ques?	Reported by Flowers et al. (1962), but CURE lacks likely habitat.
Orchidaceae	<i>Coeloglossum viride</i> ssp. <i>bracteatum</i>	<i>Coeloglossum</i> <i>viride</i> var. <i>virescens</i> , <i>Habenaria viridis</i> var. <i>bracteata</i> , <i>Dactylophiza viridis</i>	long-bract bog- orchid	PerF	Wide	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Orobanchaceae	<i>Orobanche ludoviciana</i>	<i>O. ludoviciana</i> var. <i>ludoviciana</i> , <i>O.</i> <i>cooperi</i>	Cooper's broomrape	PerF	Wide	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Papaveraceae	<i>Argemone polyanthemus</i>	<i>A. intermedia</i>	white prickly- poppy	PerF	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species.
Poaceae (Gramineae)	<i>Achnatherum robustum</i>	<i>Stipa robusta</i>	sleepy needlegrass	PerG	Wide	Ques?	Reported by NCPN (in ed.), but CURE is outside the expected range of this species.
Poaceae (Gramineae)	<i>Bromopsis pumpelliana</i>	<i>Bromus inermis</i> var. <i>pumpellianus</i> , <i>Bromus inermis</i> var. <i>purpurascens</i>	pumpelly brome	PerG	Wide	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Poaceae (Gramineae)	<i>Leymus condensatus</i>	<i>Elymus condensatus</i>	giant ryegrass	PerG	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Record probably based on <i>L. cinereus</i> .
Poaceae (Gramineae)	<i>Muhlenbergia filiiformis</i>		pullup muhly	AnnG	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species.
Polemoniaceae	<i>Gilia haydenii</i>	<i>Aliciella haydenii</i>	San Juan gilia	PerF	RegEn	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date). Type locality is "plains of the San Juan River in S Colorado or adjacent Utah" (Brandegee s.n.).

Appendix C. Rejected (falsely reported or questionable) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Comments
Polemoniaceae	<i>Ipomopsis gunnisonii</i>	<i>Gilia gunnisonii</i>	Gunnison's gilia	AnnF	RegEn	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Polemoniaceae	<i>Phlox caespitosa</i>		clustered phlox	PerF	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is well outside the expected range of this species (known from the Pacific Northwest). Report probably based on <i>P. hoodii</i> .
Polemoniaceae	<i>Phlox condensata</i>		dwarf phlox	PerF	RegEn	Ques?	Reported by NCPN (in ed.), but CURE lacks likely habitat.
Polygonaceae	<i>Eriogonum acaule</i>		single-stemmed wild buckwheat	PerF	RegEn	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date). CO BLM: Sensitive
Polygonaceae	<i>Eriogonum brevicaule</i>	<i>E. campanulatum</i>	shortstem wild buckwheat	PerF	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species.
Polygonaceae	<i>Eriogonum coloradense</i>		Colorado wild buckwheat	PerF	LocEn	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date). CO BLM: Sensitive
Polygonaceae	<i>Eriogonum hookeri</i>		Hooker's wild buckwheat	AnnF	Wide	Ques?	Reported by NCPN (in ed.), but CURE is outside the expected range of this species.
Polygonaceae	<i>Eriogonum leptocladon</i>		sand wild buckwheat	Shrub	RegEn	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Polygonaceae	<i>Eriogonum umbellatum</i> var. <i>subaridum</i>		arid wild buckwheat	PerF	Periph	Ques?	Reported by NCPN (in ed.), but CURE is outside the expected range of this species.
Polygonaceae	<i>Polygonum minimum</i>		broadleaf knotweed	AnnF	Sparse	Ques?	Reported by NCPN (in ed.), but CURE is outside the expected range of this species.
Rosaceae	<i>Drymocallis glandulosa</i>	<i>Potentilla glandulosa</i>	sticky cinquefoil	PerF	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report probably based on <i>D. arguta</i> .

Appendix C. Rejected (falsely reported or questionable) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Comments
Rosaceae	<i>Physocarpus alternans</i>		dwarf ninebark	Shrub	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report may be based on <i>P. monogynus</i> .
Rosaceae	<i>Physocarpus malvaceus</i>		mallow-leaved ninebark	Shrub	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report may be based on <i>P. monogynus</i> .
Rosaceae	<i>Potentilla diversifolia</i>		wedgeleaf cinquefoil	PerF	Wide	Ques?	Reported by Flowers et al. (1962) and NCPN (in ed.), but CURE lacks likely habitat.
Salicaceae	<i>Salix irrorata</i>		bluestem willow	Shrub	Wide	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Salicaceae	<i>Salix lutea</i>	<i>S. eriocephala</i> var. <i>watsonii</i> , <i>S. rigida</i> var. <i>watsonii</i>	yellow willow	Shrub	Wide	Ques?	Reported by Flowers et al. (1962), but specimen has not been confirmed and is considered unlikely by Weber (no date).
Salicaceae	<i>Salix planifolia</i>	<i>S. phyllicifolia</i> , includes vars. <i>monica</i> and <i>planifolia</i>	planeleaf willow	Shrub	Wide	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Salicaceae	<i>Salix wolfii</i>	Includes vars. <i>idahoensis</i> and <i>wolfii</i>	wolf willow	Shrub	Wide	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Scrophulariaceae	<i>Castilleja hispida</i>		harsh paintbrush	PerF	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is well outside the expected range of this species (not known from CO).
Scrophulariaceae	<i>Castilleja integra</i>		entire-leaved paintbrush	PerF	Wide	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Scrophulariaceae	<i>Castilleja lineata</i>		marsh-meadow paintbrush	PerF	RegEn	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species.
Scrophulariaceae	<i>Castilleja rhexifolia</i>		rhexia-leaved paintbrush	PerF	Wide	Ques?	Reported by NCPN (in ed.), but CURE lacks likely habitat.

Appendix C. Rejected (falsely reported or questionable) taxa of Curecanti National Recreation Area, cont.

Family	Species name	Synonyms/ Taxonomic notes	Common name	Life Form	Range	Park status	Comments
Scrophulariaceae	<i>Penstemon comarrhenus</i>		dusty penstemon	PerF	RegEn	Ques?	Report for CURE by Flowers et al. (1962) but specimen has not been confirmed and is considered unlikely (Weber, no date).
Scrophulariaceae	<i>Penstemon linarioides</i> ssp. <i>coloradoensis</i>	<i>P. coloradoensis</i>	Colorado penstemon	PerF	RegEn	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species.
Scrophulariaceae	<i>Veronica scutellata</i>		grass-leaved speedwell	PerF	Periph	Ques?	Reported by NCPN (in ed.), but CURE is well outside the expected range of this species.
Solanaceae	<i>Nicotiana attenuata</i>		coyote tobacco	PerF	Wide	Ques?	Report from CURE has not been confirmed and is considered unlikely (Weber, no date).
Typhaceae	<i>Typha angustifolia</i>		narrowleaf cattail	PerG	Wide	Ques?	Reported by Flowers et al. (1962) but CURE is outside the expected range of this species. Report probably based on <i>T. domingensis</i> .

The vascular plant species shown in this table have been reported for Curecanti National Recreation Area from published and unpublished literature (Flowers et al. 1962; NCPN, in ed.; Weber no date) or from herbarium specimens, but are now believed to be erroneous because of misidentifications (False Reports or FalsRep) or because the recreation area is well outside the known or expected range of the species (Questionable or Ques?).

Appendix D. Confirmed, historical, and reported vascular plant taxa of Curecanti National Recreation Area, organized by life form with ecological notes.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
Trees										
Aceraceae	<i>Negundo aceroides</i> ssp. <i>interius</i>	box elder	Native	Pres	Apr–Jun				X	
Betulaceae	<i>Betula fontinalis</i>	water birch	Native	Pres	Apr–May				X	
Cupressaceae	<i>Sabina osteosperma</i>	Utah juniper	Native	Pres	NA	X	X	X	X	
Cupressaceae	<i>Sabina scopulorum</i>	Rocky Mountain juniper	Native	Pres	NA	X	X	X	X	
Elaeagnaceae	<i>Elaeagnus angustifolia</i>	Russian-olive	Intro	Rep	May–Jul				X	
Fagaceae	<i>Quercus gambelii</i>	Gambel oak	Native	Pres	Apr–Jun	X	X	X	X	
Pinaceae	<i>Picea engelmannii</i>	Engelmann spruce	Native	Pres	NA		X	X	X	
Pinaceae	<i>Picea pungens</i>	blue spruce	Native	Pres	NA				X	
Pinaceae	<i>Pinus edulis</i>	two-needle pinyon	Native	Pres	NA	X	X			
Pinaceae	<i>Pinus ponderosa</i> var. <i>scopulorum</i>	ponderosa pine	Native	Pres	NA			X		
Pinaceae	<i>Pseudotsuga menziesii</i>	Douglas-fir	Native	Pres	NA		X	X		
Salicaceae	<i>Populus angustifolia</i>	narrow-leaved cottonwood	Native	Pres	Apr–Jun				X	
Salicaceae	<i>Populus deltoides</i> ssp. <i>wisizenii</i>	Rio Grande cottonwood	Native	Pres	Mar–Jun	X			X	
Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Native	Pres	Mar–Jun			X	X	
Salicaceae	<i>Salix amygdaloides</i>	peachleaf willow	Native	Rep	Apr–Jun				X	
Salicaceae	<i>Salix fragilis</i>	crack willow	Intro	Pres	Apr–May				X	
Ulmaceae	<i>Ulmus pumila</i>	Siberian elm	Intro	Pres	Mar–Apr	X	X		X	
Shrubs										
Aceraceae	<i>Acer glabrum</i>	Rocky Mountain maple	Native	Pres	Apr–Jun			X	X	
Agavaceae	<i>Yucca harrimaniae</i>	Harriman's yucca	Native	Pres	Apr–May	X	X			
Anacardiaceae	<i>Rhus aromatica</i> ssp. <i>trilobata</i>	squawbush	Native	Pres	May–Jul	X			X	
Anacardiaceae	<i>Toxicodendron rydbergii</i>	western poison ivy	Native	Rep	May–Jun				X	
Asteraceae (Compositae)	<i>Artemisia frigida</i>	fringed sagebrush	Native	Pres	Jul–Sep	X	X	X		
Asteraceae (Compositae)	<i>Brickellia californica</i>	California brickellbush	Native	Pres	Aug–Sep					Rock crevices

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Shrubs, cont.</i>										
Asteraceae (Compositae)	<i>Chrysothamnus depressus</i>	dwarf rabbitbrush	Native	Pres	Jul-Sep	X	X			
Asteraceae (Compositae)	<i>Chrysothamnus nauseosus</i> ssp. <i>graveolens</i>	glabrate rabbitbrush	Native	Pres	Aug-Oct	X		X	X	
Asteraceae (Compositae)	<i>Chrysothamnus parryi</i> ssp. <i>parryi</i>	Parry's rabbitbrush	Native	Pres	Jul-Sep			X		
Asteraceae (Compositae)	<i>Chrysothamnus vaseyi</i>	Vasey's rabbitbrush	Native	Rep	Jul-Sep	X	X			
Asteraceae (Compositae)	<i>Chrysothamnus viscidiflorus</i> var. <i>stenophyllus</i>	slenderleaf rabbitbrush	Native	Rep	Jul-Sep	X	X			
Asteraceae (Compositae)	<i>Chrysothamnus viscidiflorus</i> var. <i>viscidiflorus</i>	green rabbitbrush	Native	Pres	Jul-Sep	X	X	X		
Asteraceae (Compositae)	<i>Gutierrezia sarothrae</i>	broom snakeweed	Native	Pres	Jul-Oct	X	X			
Asteraceae (Compositae)	<i>Seriphidium novum</i>	black sagebrush	Native	Pres	Sep-Oct	X	X			
Asteraceae (Compositae)	<i>Seriphidium tridentatum</i> ssp. <i>tridentatum</i>	basin big sagebrush	Native	Pres	Jul-Sep	X	X			
Asteraceae (Compositae)	<i>Seriphidium tridentatum</i> ssp. <i>wyomingense</i>	Wyoming big sagebrush	Native	Pres	Jul-Sep	X	X			
Asteraceae (Compositae)	<i>Seriphidium vaseyanum</i>	mountain big sagebrush	Native	Pres	Jul-Sep	X	X	X		
Asteraceae (Compositae)	<i>Tetradymia canescens</i>	spineless horsebrush	Native	Pres	Jun-Sep	X		X		
Berberidaceae	<i>Berberis fendleri</i>	Fendler's barberry	Native	Rep	May-Jun		X		X	
Berberidaceae	<i>Mahonia repens</i>	Oregon-grape	Native	Pres	Apr-Jun	X	X	X	X	
Betulaceae	<i>Alnus incana</i> ssp. <i>tenuifolia</i>	thinleaf alder	Native	Pres	Apr-May			X	X	
Caprifoliaceae	<i>Distegia involucrata</i>	black twinberry	Native	Pres	May-Jul			X	X	
Caprifoliaceae	<i>Symphoricarpos rotundifolius</i>	mountain snowberry	Native	Pres	Jun-Aug	X				
Caprifoliaceae (Adoxaceae)	<i>Sambucus microbotrys</i> var. <i>microbotrys</i>	red elderberry	Native	Pres	Jun-Jul					X

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Shrubs, cont.</i>										
Celastraceae	<i>Paxistima myrsinites</i>	mountain-lover	Native	Pres	May–Aug	X	X	X		
Chenopodiaceae	<i>Atriplex canescens</i>	fourwing saltbush	Native	Pres	May–Sep	X				Sandy soils
Chenopodiaceae	<i>Krascheninnikovia lanata</i>	winterfat	Native	Pres	May–Jul	X	X			
Cornaceae	<i>Swida sericea</i>	red-osier dogwood	Native	Pres	May–Jul			X	X	
Cupressaceae	<i>Juniperus communis</i> ssp. <i>alpina</i>	common juniper	Native	Pres	NA			X		
Elaeagnaceae	<i>Shepherdia argentea</i>	silver buffaloberry	Native	Rep	Apr–May				X	
Elaeagnaceae	<i>Shepherdia canadensis</i>	Canada buffaloberry	Native	Rep	May–Jul			X		
Ericaceae	<i>Arcostaphylos uva-ursi</i> ssp. <i>coactilis</i>	bearberry	Native	Pres	May–Aug			X		
Fabaceae (Leguminosae)	<i>Caragana arborescens</i>	Siberian pea-tree	Intro	Pres	May–Jun	X				
Grossulariaceae (Saxifragaceae)	<i>Ribes aureum</i>	golden currant	Native	Rep	Mar–Jul	X	X	X	X	
Grossulariaceae (Saxifragaceae)	<i>Ribes cereum</i>	wax currant	Native	Pres	Apr–Aug	X	X	X	X	
Grossulariaceae (Saxifragaceae)	<i>Ribes inerme</i>	whitestem gooseberry	Native	Pres	Apr–Jul		X	X	X	
Grossulariaceae (Saxifragaceae)	<i>Ribes lacustre</i>	spiny swamp currant	Native	Pres	May–Aug			X	X	
Grossulariaceae (Saxifragaceae)	<i>Ribes leptanthum</i>	trumpet gooseberry	Native	Pres	Apr–Jun		X	X		
Grossulariaceae (Saxifragaceae)	<i>Ribes montigenum</i>	alpine prickly currant	Native	Rep	Apr–Aug		X	X	X	
Grossulariaceae (Saxifragaceae)	<i>Ribes wolfii</i>	wolf currant	Native	Pres	May–Aug			X	X	
Hydrangeaceae (Saxifragaceae)	<i>Fendlera falcata</i>	Fendlerbush	Native	Pres	Apr–Jun		X			
Hydrangeaceae (Saxifragaceae)	<i>Fendlerella utahensis</i>	Utah fendlerella	Native	Rep	Apr–Sep	X	X	X		
Hydrangeaceae (Saxifragaceae)	<i>Philadelphus microphyllus</i>	littleleaf mock-orange	Native	Pres	May–Sep		X	X	X	Rocky slopes
Polemoniaceae	<i>Leptodactylon pungens</i>	prickly-phlox	Native	Pres	May–Jul	X	X	X		
Polygonaceae	<i>Eriogonum lonchophyllum</i>	longleaf wild buckwheat	Native	Pres	Jun–Oct	X	X			

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Shrubs, cont.</i>										
Rhamnaceae	<i>Ceanothus fendleri</i>	Fendler's mountain-lilac	Native	Pres	Jun-Aug		X	X		
Rhamnaceae	<i>Ceanothus velutinus</i>	deer-brush	Native	Pres	Jun-Jul	X		X		
Rosaceae	<i>Amelanchier alnifolia</i>	Saskatoon serviceberry	Native	Pres	May-Jul	X		X	X	
Rosaceae	<i>Amelanchier utahensis</i>	Utah serviceberry	Native	Pres	Apr-Jun	X	X	X	X	
Rosaceae	<i>Cercocarpus montanus</i>	alder-leaf mountain mahogany	Native	Pres	May-Jun	X	X	X		
Rosaceae	<i>Crataegus rivularis</i>	river hawthorn	Native	Pres	May-Jun				X	
Rosaceae	<i>Crataegus saligna</i>	willow hawthorn	Native	Pres	May-Jun				X	
Rosaceae	<i>Holodiscus discolor</i>	bush oceanspray	Native	Pres	Jun-Aug			X		Rock crevices
Rosaceae	<i>Padus virginiana</i> ssp. <i>melanocarpa</i>	western chokecherry	Native	Pres	May-Jul	X	X	X	X	
Rosaceae	<i>Pentaphylloides floribunda</i>	shrubby cinquefoil	Native	Pres	Jun-Aug	X		X	X	
Rosaceae	<i>Peraphyllum ramosissimum</i>	squaw-apple	Native	Rep	May-Jun	X	X	X		
Rosaceae	<i>Physocarpus monogynus</i>	mountain ninebark	Native	Pres	May-Jul			X		
Rosaceae	<i>Purshia tridentata</i>	antelope bitterbrush	Native	Pres	Apr-Jul	X	X	X		
Rosaceae	<i>Rosa woodsii</i>	Woods' rose	Native	Pres	May-Jul			X	X	
Rosaceae	<i>Rubacer parviflorum</i>	western thimbleberry	Native	Pres	Jun-Aug			X	X	
Rosaceae	<i>Rubus idaeus</i> ssp. <i>melanolasius</i>	common red raspberry	Native	Pres	Jun-Aug			X	X	
Salicaceae	<i>Salix bebbiana</i>	Bebb's willow	Native	Pres	May-Jun				X	
Salicaceae	<i>Salix boothii</i>	Booth's willow	Native	Pres	May-Jun				X	
Salicaceae	<i>Salix drummondiana</i>	Drummond's willow	Native	Pres	May-Jul				X	
Salicaceae	<i>Salix exigua</i>	coyote willow	Native	Pres	Apr-Aug				X	
Salicaceae	<i>Salix geyeriana</i>	Geyer's willow	Native	Pres	May-Jun				X	
Salicaceae	<i>Salix ligulifolia</i>	strapleaf willow	Native	Pres	Apr-Jun				X	
Salicaceae	<i>Salix lucida</i> ssp. <i>caudata</i>	whiplash willow	Native	Pres	Apr-Jun				X	
Salicaceae	<i>Salix lucida</i> ssp. <i>lasiandra</i>	whiplash willow	Native	Pres	Apr-Jun				X	
Salicaceae	<i>Salix monticola</i>	mountain willow	Native	Pres	May-Jun				X	
Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Native	Pres	Apr-Jun			X	X	
Tamaricaceae	<i>Tamarix ramosissima</i>	five-stamen tamarisk	Intro	Pres	Apr-Sep				X	Disturbed areas

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
Perennial Forbs										
Alismataceae	<i>Sagittaria cuneata</i>	northern arrowhead	Native	Rep	Jun-Sep					
Alliaceae (Liliaceae)	<i>Allium cernuum</i>	nodding onion	Native	Pres	Jun-Jul	X		X		
Alliaceae (Liliaceae)	<i>Allium geyeri</i>	Geyer's onion	Native	Pres	May-Sep	X	X	X		
Alliaceae (Liliaceae)	<i>Allium macropetalum</i>	San Juan onion	Native	Rep	May-Jun	X	X			
Alsinaceae (Caryophyllaceae)	<i>Cerastium fontanum</i>	mouse-ear chickweed	Intro	Pres	Apr-Sep				X	
Alsinaceae (Caryophyllaceae)	<i>Eremogone congesta</i>	ball-head sandwort	Native	Pres	May-Aug	X	X	X		
Alsinaceae (Caryophyllaceae)	<i>Eremogone fendleri</i>	Fendler's sandwort	Native	Pres	May-Sep			X		
Alsinaceae (Caryophyllaceae)	<i>Paronychia sessiliflora</i>	creeping nailwort	Native	Pres	May-Aug	X	X			
Alsinaceae (Caryophyllaceae)	<i>Pseudostellaria jamesiana</i>	James' chickweed	Native	Pres	Jun-Aug	X		X	X	
Alsinaceae (Caryophyllaceae)	<i>Stellaria longifolia</i>	long-leaved starwort	Native	Pres	May-Aug				X	
Alsinaceae (Caryophyllaceae)	<i>Stellaria longipes</i>	long-stalk starwort	Native	Rep	May-Aug	X		X		
Apiaceae (Umbelliferae)	<i>Angelica ampla</i>	giant angelica	Native	Pres	Jul-Aug			X	X	
Apiaceae (Umbelliferae)	<i>Carum carvi</i>	caraway	Intro	Pres	Jun-Jul			X	X	Disturbed areas
Apiaceae (Umbelliferae)	<i>Cicuta douglasii</i>	water-hemlock	Native	Pres	Jun-Sep				X	
Apiaceae (Umbelliferae)	<i>Conioselinum scopulorum</i>	rock lovage	Native	Pres	Jul-Aug				X	
Apiaceae (Umbelliferae)	<i>Cymopterus constancei</i>	Constance's spring-parsley	Native	Pres	Apr-May	X				
Apiaceae (Umbelliferae)	<i>Cymopterus planosus</i>	Rocky Mountain spring-parsley	Native	Rep	Apr-May		X			
Apiaceae (Umbelliferae)	<i>Heracleum sphondylium</i> ssp. <i>montanum</i>	cow parsnip	Native	Pres	Jun-Aug			X	X	
Apiaceae (Umbelliferae)	<i>Ligusticum porteri</i>	southern ligusticum	Native	Pres	Jun-Aug				X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Apiaceae (Umbelliferae)	<i>Lomatium dissectum</i>	fern-leaved desert-parsley	Native	Pres	Apr–Jun	X	X	X	X	
Apiaceae (Umbelliferae)	<i>Lomatium triternatum</i> var. <i>platycarpum</i>	ternate desert-parsley	Native	Pres	May–Jul	X	X			
Apiaceae (Umbelliferae)	<i>Osmorhiza chilensis</i>	Chilean sweet-cicely	Native	Rep	May–Jul			X	X	
Apiaceae (Umbelliferae)	<i>Osmorhiza depauperata</i>	blunt sweet-cicely	Native	Pres	Jun–Jul			X	X	
Apiaceae (Umbelliferae)	<i>Osmorhiza occidentalis</i>	western sweet-cicely	Native	Pres	May–Jul	X		X	X	
Apiaceae (Umbelliferae)	<i>Oxypolis fendleri</i>	Fendler's cowbane	Native	Pres	Jul–Aug				X	
Apiaceae (Umbelliferae)	<i>Pseudocymopterus montanus</i>	Lemmon's spring-parsley	Native	Pres	Jul–Aug			X		
Apiaceae (Umbelliferae)	<i>Sium suave</i>	water parsnip	Native	Pres	Jul–Aug				X	
Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Native	Pres	Jun–Aug			X	X	
Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane	Native	Pres	Jun–Aug				X	
Asclepiadaceae	<i>Asclepias hallii</i>	Hall's milkweed	Native	Pres	Jun–Aug	X		X		
Asclepiadaceae	<i>Asclepias speciosa</i>	showy milkweed	Native	Pres	May–Aug				X	Disturbed areas
Asclepiadaceae	<i>Asclepias subverticillata</i>	whorled milkweed	Native	Pres	May–Sep	X				Disturbed areas
Asteraceae (Compositae)	<i>Achillea lanulosa</i>	common yarrow	Native	Pres	May–Sep	X		X	X	
Asteraceae (Compositae)	<i>Acosta diffusa</i>	diffuse knapweed	Intro	Pres	Jul–Sep					Disturbed areas
Asteraceae (Compositae)	<i>Acosta maculosa</i>	spotted knapweed	Intro	Pres	Jul–Sep					Disturbed areas
Asteraceae (Compositae)	<i>Acroptilon repens</i>	Russian knapweed	Intro	Pres	Jun–Sep	X			X	Disturbed areas
Asteraceae (Compositae)	<i>Agoseris aurantiaca</i> var. <i>aurantiaca</i>	orange agoseris	Native	Pres	Jun–Aug	X	X	X		

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Asteraceae (Compositae)	<i>Agoseris glauca</i> var. <i>dasycephala</i>	short agoseris	Native	Rep	May-Sep	X	X	X		
Asteraceae (Compositae)	<i>Agoseris glauca</i> var. <i>glauca</i>	pale agoseris	Native	Pres	May-Sep	X		X		
Asteraceae (Compositae)	<i>Agoseris glauca</i> var. <i>laciniata</i>	cutleaf agoseris	Native	Rep	May-Sep	X	X	X		
Asteraceae (Compositae)	<i>Almutaster pauciflorus</i>	alkali aster	Native	Rep	May-Sep				X	
Asteraceae (Compositae)	<i>Ambrosia tomentosa</i>	skeleton-leaf bursage	Native	Pres	Jun-Oct				X	Disturbed areas
Asteraceae (Compositae)	<i>Anaphalis margaritacea</i>	pearly-everlasting	Native	Rep	Jul-Sep			X		
Asteraceae (Compositae)	<i>Antennaria dimorpha</i>	low pussytoes	Native	Pres	Apr-Jun	X	X			
Asteraceae (Compositae)	<i>Antennaria microphylla</i>	small-leaf pussytoes	Native	Rep	Jun-Aug	X	X	X		
Asteraceae (Compositae)	<i>Antennaria parvifolia</i>	common pussytoes	Native	Pres	May-Jul	X	X	X		
Asteraceae (Compositae)	<i>Antennaria pulcherrima</i> ssp. <i>anaphaloides</i>	tall pussytoes	Native	Pres	Jun-Aug			X		
Asteraceae (Compositae)	<i>Antennaria rosea</i>	rosy pussytoes	Native	Pres	Jun-Aug	X		X		
Asteraceae (Compositae)	<i>Arctium minus</i>	burdock	Intro	Pres	Jul-Sep				X	
Asteraceae (Compositae)	<i>Arnica chamissonis</i> ssp. <i>foliosa</i>	Chamisso's arnica	Native	Pres	Jun-Aug	X		X	X	
Asteraceae (Compositae)	<i>Arnica cordifolia</i>	heartleaf arnica	Native	Pres	May-Aug	X		X		
Asteraceae (Compositae)	<i>Arnica mollis</i>	hairy arnica	Native	Pres	Jul-Aug	X		X	X	
Asteraceae (Compositae)	<i>Artemisia absinthium</i>	absinthe	Intro	Rep	Jul-Sep					Disturbed areas
Asteraceae (Compositae)	<i>Artemisia biennis</i>	biennial wormwood	Intro	Pres	Aug-Oct				X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Asteraceae (Compositae)	<i>Artemisia ludoviciana</i> ssp. <i>incompta</i>	Louisiana wormwood	Native	Pres	Jul-Oct			X	X	
Asteraceae (Compositae)	<i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i>	Louisiana wormwood	Native	Pres	Jul-Oct	X	X	X	X	
Asteraceae (Compositae)	<i>Aster foliaceus</i>	Canby's aster	Native	Pres	Jul-Sep			X		
Asteraceae (Compositae)	<i>Aster lanceolatus</i> ssp. <i>hesperius</i>	Siskiyou aster	Native	Pres	Jul-Sep				X	
Asteraceae (Compositae)	<i>Aster spathulatus</i>	western aster	Native	Pres	Jul-Sep			X	X	
Asteraceae (Compositae)	<i>Bahia dissecta</i>	cutleaf	Native	Pres	Jul-Sep	X		X		
Asteraceae (Compositae)	<i>Balsamorhiza sagittata</i>	arrowleaf balsamroot	Native	Pres	Apr-Jul	X	X	X		
Asteraceae (Compositae)	<i>Bidens cernua</i>	nodding bur-marigold	Native	Pres	Jul-Sep				X	
Asteraceae (Compositae)	<i>Breea arvensis</i>	Canada thistle	Intro	Pres	Jul-Sep			X	X	Disturbed areas
Asteraceae (Compositae)	<i>Brickellia grandiflora</i>	tassel-flower brickellbush	Native	Pres	Jul-Oct		X	X	X	Talus
Asteraceae (Compositae)	<i>Carduus nutans</i> var. <i>macrolepis</i>	musk thistle	Intro	Pres	Jun-Sep	X			X	Disturbed areas
Asteraceae (Compositae)	<i>Chaenactis douglasii</i>	hoary dusty-maiden	Native	Pres	May-Sep	X	X	X	X	
Asteraceae (Compositae)	<i>Cirsium centaureae</i>	fringed thistle	Native	Pres	Jul-Aug			X		
Asteraceae (Compositae)	<i>Cirsium parryi</i>	Parry's thistle	Native	Pres	Jul-Oct				X	
Asteraceae (Compositae)	<i>Cirsium tracyi</i>	Tracy's thistle	Native	Pres	Jun-Sep		X	X		
Asteraceae (Compositae)	<i>Cirsium vulgare</i>	bull thistle	Intro	Pres	Jul-Aug	X				Disturbed areas
Asteraceae (Compositae)	<i>Dugaldia hoopesii</i>	orange sneezeweed	Native	Pres	Jun-Aug	X		X	X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Asteraceae (Compositae)	<i>Erigeron concinnus</i>	Navajo fleabane	Native	Pres	May–Aug	X	X	X		
Asteraceae (Compositae)	<i>Erigeron divergens</i>	spreading daisy	Native	Rep	May–Sep	X	X	X	X	
Asteraceae (Compositae)	<i>Erigeron eatonii</i>	Eaton’s daisy	Native	Pres	May–Jul	X	X	X		
Asteraceae (Compositae)	<i>Erigeron engelmannii</i>	Engelmann’s daisy	Native	Pres	May–Jul	X	X			
Asteraceae (Compositae)	<i>Erigeron flagellaris</i>	trailing daisy	Native	Pres	May–Aug	X	X	X	X	
Asteraceae (Compositae)	<i>Erigeron glabellus</i>	smooth daisy	Native	Pres	Jun–Aug				X	
Asteraceae (Compositae)	<i>Erigeron leiomerus</i>	smooth daisy	Native	Pres	Jun–Aug			X		Cliffs
Asteraceae (Compositae)	<i>Erigeron speciosus</i>	aspen daisy	Native	Pres	Jun–Aug	X		X	X	
Asteraceae (Compositae)	<i>Erigeron subtrinervis</i>	hairy pretty daisy	Native	Rep	Jul–Aug			X		
Asteraceae (Compositae)	<i>Erigeron vetensis</i>	La Veta daisy	Native	Rep	Jun–Aug	X				
Asteraceae (Compositae)	<i>Eucephalus glaucus</i>	blueleaf aster	Native	Pres	Jul–Sep	X	X	X	X	
Asteraceae (Compositae)	<i>Gaillardia x grandiflora</i>	large-flowered blanketflower	Intro	Pres	Jun–Sep	X				Disturbed areas
Asteraceae (Compositae)	<i>Grindelia squarrosa</i> var. <i>squarrosa</i>	curly-cup gumweed	Native	Pres	Jul–Sep	X				Disturbed areas
Asteraceae (Compositae)	<i>Helianthella uniflora</i>	little sunflower	Native	Rep	Jun–Aug	X	X	X		
Asteraceae (Compositae)	<i>Helianthus nuttallii</i>	Nuttall’s sunflower	Native	Pres	Jul–Sep				X	
Asteraceae (Compositae)	<i>Helioomeris multiflora</i> var. <i>multiflora</i>	showy goldeneye	Native	Pres	Jun–Sep	X	X	X	X	
Asteraceae (Compositae)	<i>Heterotheca villosa</i>	hairy golden-aster	Native	Pres	May–Sep	X	X	X		

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Asteraceae (Compositae)	<i>Hymenopappus filifolius</i> var. <i>parvulus</i>	fineleaf woollywhite	Native	Pres	May-Oct	X				
Asteraceae (Compositae)	<i>Iva axillaris</i>	poverty-weed	Native	Rep	May-Sep	X	X	X	X	
Asteraceae (Compositae)	<i>Lactuca tatarica</i> var. <i>pulchella</i>	blue lettuce	Native	Pres	Jun-Sep				X	
Asteraceae (Compositae)	<i>Leucanthemum vulgare</i>	ox-eye daisy	Intro	Pres	Jun-Sep	X				Disturbed areas
Asteraceae (Compositae)	<i>Leucelene ericoides</i>	rose-heath	Native	Pres	May-Sep	X	X			
Asteraceae (Compositae)	<i>Ligularia bigelovii</i> var. <i>hallii</i>	Bigelow's groundsel	Native	Pres	Jul-Aug		X	X		
Asteraceae (Compositae)	<i>Ligularia pudica</i>	bashful groundsel	Native	Pres	Jul-Oct			X		Cliffs
Asteraceae (Compositae)	<i>Lygodesmia juncea</i>	rush skeleton-plant	Native	Rep	Jul-Sep		X			
Asteraceae (Compositae)	<i>Machaeranthera canescens</i>	hoary aster	Native	Pres	May-Sep	X	X	X		
Asteraceae (Compositae)	<i>Machaeranthera grindelioides</i>	gumweed aster	Native	Pres	May-Jul	X	X			
Asteraceae (Compositae)	<i>Matricaria perforata</i>	scentless chamomile	Intro	Pres	Jun-Sep				X	
Asteraceae (Compositae)	<i>Oligosporus dracunculus</i> ssp. <i>dracunculinus</i>	tarragon	Native	Pres	Jul-Oct	X			X	
Asteraceae (Compositae)	<i>Oligosporus pacificus</i>	sand wormwood	Native	Rep	Jul-Sep	X	X			
Asteraceae (Compositae)	<i>Packera multilobata</i>	basin groundsel	Native	Pres	Apr-Aug	X	X	X	X	
Asteraceae (Compositae)	<i>Packera neomexicana</i>	New Mexico groundsel	Native	Pres	Jun-Aug	X		X	X	
Asteraceae (Compositae)	<i>Packera pseudaurea</i>	streambank groundsel	Native	Pres	Jul-Aug				X	
Asteraceae (Compositae)	<i>Packera streptanthifolia</i>	Rocky Mountain groundsel	Native	Rep	Jun-Aug	X	X	X	X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Asteraceae (Compositae)	<i>Petrorhiza pumila</i>	rock-goldenrod	Native	Rep	Jul-Sep	X	X	X		
Asteraceae (Compositae)	<i>Psilochenia acuminata</i>	mountain hawksbeard	Native	Pres	May-Jul	X		X		
Asteraceae (Compositae)	<i>Psilochenia occidentalis</i>	western hawksbeard	Native	Pres	May-Jul	X	X	X		
Asteraceae (Compositae)	<i>Ratibida columrifera</i>	prairie coneflower	Native	Pres	Jun-Aug	X				
Asteraceae (Compositae)	<i>Rudbeckia ampla</i>	cutleaf coneflower	Native	Pres	Jul-Sep	X		X	X	
Asteraceae (Compositae)	<i>Rudbeckia hirta</i>	black-eyed Susan	Native	Pres	May-Sep	X			X	
Asteraceae (Compositae)	<i>Rudbeckia occidentalis</i> var. <i>montana</i>	montane coneflower	Native	Pres	Jun-Sep			X		
Asteraceae (Compositae)	<i>Senecio atratus</i>	black groundsel	Native	Rep	Jul-Aug			X		
Asteraceae (Compositae)	<i>Senecio crassulus</i>	thickleaf groundsel	Native	Rep	Jul-Aug			X		
Asteraceae (Compositae)	<i>Senecio eremophilus</i> var. <i>kingii</i>	cut-leaved groundsel	Native	Pres	Jul-Sep			X		
Asteraceae (Compositae)	<i>Senecio integerrimus</i>	western groundsel	Native	Pres	Jun-Aug	X	X	X		
Asteraceae (Compositae)	<i>Senecio serra</i> var. <i>admirabilis</i>	saw-toothed groundsel	Native	Pres	Jul-Sep			X		
Asteraceae (Compositae)	<i>Senecio spartioides</i>	broom groundsel	Native	Pres	Jun-Oct	X	X			
Asteraceae (Compositae)	<i>Senecio triangularis</i>	arrowleaf groundsel	Native	Pres	Jul-Sep			X		
Asteraceae (Compositae)	<i>Solidago canadensis</i>	Canadian goldenrod	Native	Pres	Aug-Oct				X	
Asteraceae (Compositae)	<i>Solidago multiradiata</i>	Rocky Mountain goldenrod	Native	Rep	Jul-Aug			X		
Asteraceae (Compositae)	<i>Solidago simplex</i>	coast goldenrod	Native	Rep	Jul-Sep				X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Asteraceae (Compositae)	<i>Solidago velutina</i>	three-nerve goldenrod	Native	Pres	Aug-Oct	X	X	X	X	
Asteraceae (Compositae)	<i>Stenotus armerioides</i>	thrift goldenweed	Native	Pres	May-Jun	X	X			
Asteraceae (Compositae)	<i>Stephanomeria pauciflora</i>	brown-plume wire-lettuce	Native	Rep	May-Oct	X	X			Sandy soils
Asteraceae (Compositae)	<i>Stephanomeria tenuifolia</i>	slender wirelettuce	Native	Pres	Jun-Sep	X	X			
Asteraceae (Compositae)	<i>Tanacetum vulgare</i>	common tansy	Intro	Rep	Aug-Sep					Disturbed areas
Asteraceae (Compositae)	<i>Taraxacum officinale</i>	common dandelion	Intro	Pres	Apr-Dec	X	X	X	X	Disturbed areas
Asteraceae (Compositae)	<i>Tetranneuris acaulis</i> var. <i>arizonica</i>	stemless hymenoxys	Native	Pres	Apr-Jun	X				
Asteraceae (Compositae)	<i>Tetranneuris ivesiana</i>	Canyonlands hymenoxys	Native	Pres	Apr-Jun	X	X	X		
Asteraceae (Compositae)	<i>Tetranneuris torreyana</i>	Torrey's hymenoxys	Native	Pres	May-Jul	X	X			
Asteraceae (Compositae)	<i>Townsendia exscapa</i>	stemless townsendia	Native	Pres	May-Jun	X		X		
Asteraceae (Compositae)	<i>Townsendia incana</i>	hoary townsendia	Native	Pres	Apr-Jul	X	X			
Asteraceae (Compositae)	<i>Tragopogon dubius</i> var. <i>major</i>	yellow salsify	Intro	Pres	May-Jul	X			X	
Asteraceae (Compositae)	<i>Virgulastrum ascendens</i>	Pacific aster	Native	Rep	Jul-Oct	X	X	X	X	
Asteraceae (Compositae)	<i>Virgulus campestris</i>	western meadow aster	Native	Rep	Jul-Oct			X		
Asteraceae (Compositae)	<i>Wyethia amplexicaulis</i>	mule's-ears	Native	Rep	May-Jun	X	X	X		
Asteraceae (Compositae)	<i>Wyethia x magna</i>	hybrid wyethia	Native	Pres	May-Jul					Disturbed area
Boraginaceae	<i>Cynoglossum officinale</i>	common hound's-tongue	Intro	Rep	May-Jul					Disturbed areas
Boraginaceae	<i>Hackelia floribunda</i>	showy stickseed	Native	Pres	Jun-Aug	X		X	X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Boraginaceae	<i>Lithospermum incisum</i>	showy stoneseed	Native	Pres	Apr-Jul	X	X	X		
Boraginaceae	<i>Lithospermum multiflorum</i>	southwestern stoneseed	Native	Rep	Jun-Aug	X	X			
Boraginaceae	<i>Lithospermum ruderale</i>	western stoneseed	Native	Pres	Apr-Jun	X	X	X		
Boraginaceae	<i>Mertensia brevistylis</i>	short-styled bluebell	Native	Rep	Apr-Jun	X		X		
Boraginaceae	<i>Mertensia ciliata</i>	streamside bluebell	Native	Pres	Jun-Aug			X	X	
Boraginaceae	<i>Oreocarya flavoculata</i>	yellow-eye cryptanth	Native	Pres	Apr-Jun	X	X	X		
Boraginaceae	<i>Oreocarya suffruticosa</i>	James' cryptanth	Native	Rep	May-Aug	X	X	X		
Brassicaceae (Cruciferae)	<i>Arabis hirsuta</i>	hairy rockcress	Native	Pres	Jun-Aug			X		
Brassicaceae (Cruciferae)	<i>Barbarea orthoceras</i>	northern wintercress	Native	Pres	May-Aug				X	
Brassicaceae (Cruciferae)	<i>Barbarea vulgaris</i>	European wintercress	Intro	Pres	May-Aug				X	
Brassicaceae (Cruciferae)	<i>Boecheera crandallii</i>	Crandall's rockcress	Native	Pres	May-Jun	X	X			
Brassicaceae (Cruciferae)	<i>Boecheera demissa</i> var. <i>demissa</i>	nodding rockcress	Native	Pres	May-Aug	X	X	X		
Brassicaceae (Cruciferae)	<i>Boecheera divaricarpa</i>	spreadingpod rockcress	Native	Pres	Jun-Jul			X	X	
Brassicaceae (Cruciferae)	<i>Boecheera drummondii</i>	Drummond's rockcress	Native	Rep	May-Sep	X		X		
Brassicaceae (Cruciferae)	<i>Boecheera fendleri</i>	Fendler's rockcress	Native	Pres	Apr-Aug		X			
Brassicaceae (Cruciferae)	<i>Boecheera gunnisoniana</i>	Gunnison's rockcress	Native	Pres	May-Jun	X				
Brassicaceae (Cruciferae)	<i>Boecheera lignifera</i>	Sweetwater rockcress	Native	Pres	May-Jul	X				
Brassicaceae (Cruciferae)	<i>Boecheera oxylobula</i>	Glenwood Springs rockcress	Native	Pres	May-Jun		X			
Brassicaceae (Cruciferae)	<i>Boecheera pallidifolia</i>	Gunnison County rockcress	Native	Rep	May-Jun	X	X			
Brassicaceae (Cruciferae)	<i>Boecheera perennans</i>	perennial rockcress	Native	Rep	Mar-Jul	X	X	X		

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Brassicaceae (Cruciferae)	<i>Boecheera retrofracta</i>	Holboell's rockcress	Native	Pres	May-Jul	X	X			
Brassicaceae (Cruciferae)	<i>Boecheera selbyi</i>	Selby's rockcress	Native	Pres	May-Aug		X	X		
Brassicaceae (Cruciferae)	<i>Cardamine cordifolia</i>	heartleaf bittercress	Native	Pres	Jun-Sep			X	X	
Brassicaceae (Cruciferae)	<i>Cardaria chalepensis</i>	orbicular whitetop	Intro	Pres	May-Aug	X			X	Disturbed areas
Brassicaceae (Cruciferae)	<i>Cardaria draba</i>	whitetop	Intro	Pres	May-Aug					Disturbed areas
Brassicaceae (Cruciferae)	<i>Cardaria pubescens</i>	hairy whitetop	Intro	Pres	May-Sep	X				Disturbed areas
Brassicaceae (Cruciferae)	<i>Draba spectabilis</i>	splendid draba	Native	Pres	Jun-Aug		X	X		
Brassicaceae (Cruciferae)	<i>Erysimum capitatum</i>	western wallflower	Native	Pres	Apr-Aug	X	X	X		
Brassicaceae (Cruciferae)	<i>Erysimum cheiranthoides</i> ssp. <i>altum</i>	worm-seed wallflower	Native	Pres	Jun-Aug	X		X	X	
Brassicaceae (Cruciferae)	<i>Erysimum inconspicuum</i>	shy wallflower	Native	Rep	Apr-Jul	X		X		
Brassicaceae (Cruciferae)	<i>Lepidium alyssoides</i> var. <i>eastwoodiae</i>	Eastwood's tall pepperwort	Native	Pres	Jul-Oct	X	X		X	
Brassicaceae (Cruciferae)	<i>Lepidium montanum</i> var. <i>montanum</i>	mountain pepperwort	Native	Pres	Apr-Sep	X				
Brassicaceae (Cruciferae)	<i>Nasturtium officinale</i>	watercress	Intro	Pres	May-Sep				X	
Brassicaceae (Cruciferae)	<i>Noccaea montana</i>	alpine pennycress	Native	Pres	Apr-Aug	X		X		
Brassicaceae (Cruciferae)	<i>Physaria acutifolia</i>	sharp-leaf twinpod	Native	Rep	May-Jul	X	X	X		
Brassicaceae (Cruciferae)	<i>Physaria floribunda</i>	mesa twinpod	Native	Pres	May-Jul		X			
Brassicaceae (Cruciferae)	<i>Physaria rollinsii</i>	Rollins' twinpod	Native	Pres	May-Jun	X				Talus

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Brassicaceae (Cruciferae)	<i>Rorippa palustris</i> var. <i>hispida</i>	hairy yellowcress	Native	Pres	Jun-Sep				X	
Brassicaceae (Cruciferae)	<i>Rorippa sinuata</i>	spreading yellowcress	Native	Pres	Apr-Sep				X	
Brassicaceae (Cruciferae)	<i>Rorippa teres</i>	southern marsh yellowcress	Native	Pres	Feb-Apr				X	
Brassicaceae (Cruciferae)	<i>Schoenocrambe linifolia</i>	flax-leaved plainsmustard	Native	Pres	Apr-Jul	X	X	X		
Brassicaceae (Cruciferae)	<i>Streptanthus cordatus</i>	heart-leaf jewelflower	Native	Pres	Apr-Jul	X	X			
Brassicaceae (Cruciferae)	<i>Turritis glabra</i>	tower-mustard	Native	Pres	May-Sep	X	X	X		
Cactaceae	<i>Echinocereus triglochidiatus</i>	claretcup	Native	Rep	Apr-Jun	X	X			
Cactaceae	<i>Opuntia fragilis</i> var. <i>brachyarthra</i>	brittle prickly-pear	Native	Pres	Jun-Jul	X	X			
Cactaceae	<i>Opuntia polyacantha</i>	plains prickly-pear	Native	Pres	May-Jun	X	X			
Cactaceae	<i>Pediocactus simpsonii</i> var. <i>minor</i>	Simpson's hedgehog cactus	Native	Pres	May-Jul	X	X			
Calochortaceae (Liliaceae)	<i>Calochortus gunnisonii</i>	Gunnison's mariposa	Native	Pres	Jun-Aug	X	X	X		
Calochortaceae (Liliaceae)	<i>Calochortus nuttallii</i>	sego-lily	Native	Rep	Jun-Jul	X	X			
Campanulaceae	<i>Campanula parryi</i>	Parry's harebell	Native	Pres	Jun-Sep			X	X	
Campanulaceae	<i>Campanula rotundifolia</i>	harebell	Native	Pres	Jun-Sep			X		
Cannabaceae	<i>Humulus lupulus</i> ssp. <i>americanus</i>	common hops	Native	Pres	Jul-Aug				X	
Caryophyllaceae	<i>Anotites menziesii</i>	Menzies' campion	Native	Pres	Jun-Aug			X	X	
Caryophyllaceae	<i>Gastrollychnis drummondii</i>	Drummond's catchfly	Native	Pres	May-Sep	X	X	X		
Chenopodiaceae	<i>Nitrophila occidentalis</i>	niterwort	Native	Pres	May-Jul				X	
Convallariaceae (Liliaceae, Ruscaceae)	<i>Maianthemum amplexicaule</i>	false Solomon's-seal	Native	Pres	Jun-Jul		X	X	X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Convallariaceae (Liliaceae, Ruscaceae)	<i>Maianthemum stellatum</i>	starry false Solomon's-seal	Native	Pres	Apr-Jun	X	X	X	X	
Convolvulaceae	<i>Convolvulus arvensis</i>	field bindweed	Intro	Pres	Jun-Aug					Disturbed areas
Crassulaceae	<i>Amerosedum lanceolatum</i>	lance-leaved stonecrop	Native	Pres	Jun-Aug	X	X	X		
Euphorbiaceae	<i>Chamaesyce fendleri</i>	Fendler's spurge	Native	Rep	May-Sep	X	X			
Euphorbiaceae	<i>Tithymalus brachyceras</i>	shorthorn spurge	Native	Pres	May-Jun	X	X	X		
Fabaceae (Leguminosae)	<i>Astragalus agrestis</i>	field milkvetch	Native	Pres	May-Aug	X		X		
Fabaceae (Leguminosae)	<i>Astragalus anisus</i>	Gunnison milkvetch	Native	Pres	May-Jun	X				
Fabaceae (Leguminosae)	<i>Astragalus cicer</i>	chickpea milkvetch	Intro	Pres	May-Aug	X			X	
Fabaceae (Leguminosae)	<i>Astragalus convallarius</i>	lesser rushy milkvetch	Native	Pres	May-Aug	X	X	X	X	
Fabaceae (Leguminosae)	<i>Astragalus drummondii</i>	Drummond's milkvetch	Native	Pres	May-Jul	X				
Fabaceae (Leguminosae)	<i>Astragalus iodopetalus</i>	violet milkvetch	Native	Rep	May-Jun	X	X			
Fabaceae (Leguminosae)	<i>Astragalus oophorus</i> var. <i>caulescens</i>	egg milkvetch	Native	Pres	May-Jul	X	X			
Fabaceae (Leguminosae)	<i>Astragalus scopulorum</i>	Rocky Mountain milkvetch	Native	Pres	May-Aug	X	X	X		
Fabaceae (Leguminosae)	<i>Astragalus tenellus</i>	pulse milkvetch	Native	Rep	May-Aug	X	X	X		
Fabaceae (Leguminosae)	<i>Glycyrrhiza lepidota</i>	licorice-root	Native	Pres	May-Jul				X	
Fabaceae (Leguminosae)	<i>Lathyrus eucosmus</i>	seemly sweetpea	Native	Pres	Apr-Aug		X			
Fabaceae (Leguminosae)	<i>Lathyrus leucanthus</i>	whiteflower sweetpea	Native	Pres	May-Aug			X		
Fabaceae (Leguminosae)	<i>Lotus wrightii</i>	Wright's trefoil	Native	Pres	Jun-Aug	X	X	X		

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Fabaceae (Leguminosae)	<i>Lupinus argenteus</i>	silvery lupine	Native	Pres	May–Aug	X	X	X		
Fabaceae (Leguminosae)	<i>Lupinus caudatus</i> var. <i>utahensis</i>	Utah lupine	Native	Pres	May–Aug	X	X	X		
Fabaceae (Leguminosae)	<i>Lupinus lepidus</i> ssp. <i>caespitosus</i>	stemless lupine	Native	Rep	May–Aug	X		X		
Fabaceae (Leguminosae)	<i>Lupinus parviflorus</i>	smallflower lupine	Native	Pres	May–Aug			X		
Fabaceae (Leguminosae)	<i>Lupinus sericeus</i>	silky lupine	Native	Rep	May–Aug	X	X	X		
Fabaceae (Leguminosae)	<i>Medicago sativa</i>	alfalfa	Intro	Pres	May–Sep	X				Disturbed areas
Fabaceae (Leguminosae)	<i>Melilotus officinale</i>	yellow sweet-clover	Intro	Pres	May–Oct				X	
Fabaceae (Leguminosae)	<i>Oxytropis sericea</i>	white locoweed	Native	Rep	May–Jul	X	X			
Fabaceae (Leguminosae)	<i>Thermopsis montana</i>	montane golden pea	Native	Pres	May–Aug			X	X	
Fabaceae (Leguminosae)	<i>Trifolium gymnocarpon</i>	dwarf clover	Native	Pres	Apr–Aug	X	X	X		
Fabaceae (Leguminosae)	<i>Trifolium hybridum</i>	Alsike clover	Intro	Pres	May–Oct				X	
Fabaceae (Leguminosae)	<i>Trifolium longipes</i>	Rusby's clover	Native	Pres	May–Aug	X		X	X	
Fabaceae (Leguminosae)	<i>Trifolium pratense</i>	red clover	Intro	Pres	May–Oct			X		
Fabaceae (Leguminosae)	<i>Trifolium repens</i>	white clover	Intro	Pres	Apr–Sep			X		
Fabaceae (Leguminosae)	<i>Trifolium wormskioldii</i>	cow clover	Native	Rep	May–Aug			X		
Fabaceae (Leguminosae)	<i>Vicia americana</i> var. <i>americana</i>	American vetch	Native	Pres	May–Aug	X	X	X	X	
Fumariaceae	<i>Corydalis aurea</i>	golden smoke	Native	Pres	Apr–Sep			X	X	Disturbed areas

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Fumariaceae	<i>Corydalis caseana</i> ssp. <i>brandegeeii</i>	Brandegee's corydalis	Native	Pres	Jun-Jul			X		
Fumariaceae	<i>Corydalis curvisiliqua</i> ssp. <i>occidentalis</i>	golden corydalis	Native	Pres	Apr-Sep	X				
Gentianaceae	<i>Frasera speciosa</i>	elkweed	Native	Pres	Jun-Aug	X		X		
Gentianaceae	<i>Pneumonanthe affinis</i>	Rocky Mountain gentian	Native	Pres	Jul-Sep			X		
Geraniaceae	<i>Geranium caespitosum</i> ssp. <i>caespitosum</i>	purple cluster crane's-bill	Native	Pres	Jun-Aug	X		X		
Geraniaceae	<i>Geranium richardsonii</i>	Richardson's crane's-bill	Native	Pres	Jun-Aug			X		
Haloragaceae	<i>Myriophyllum sibiricum</i>	Siberian water-milfoil	Native	Rep	Jun-Aug					X
Helleboraceae (Ranunculaceae)	<i>Aconitum columbianum</i>	Columbian monkshood	Native	Pres	Jun-Aug					X
Helleboraceae (Ranunculaceae)	<i>Actaea rubra</i> ssp. <i>arguta</i>	red baneberry	Native	Pres	May-Aug					X
Helleboraceae (Ranunculaceae)	<i>Aquilegia elegantula</i>	elegant columbine	Native	Pres	Jun-Jul			X		X
Helleboraceae (Ranunculaceae)	<i>Delphinium nuttallianum</i>	Nuttall's larkspur	Native	Pres	Apr-Jul	X		X		
Hippuridaceae	<i>Hippuris vulgaris</i>	common mare's-tail	Native	Pres	Jun-Sep					X
Hydrocharitaceae	<i>Elodea canadensis</i>	Canadian waterweed	Native	Pres	Jul-Sep					X
Hydrophyllaceae	<i>Hydrophyllum capitatum</i>	capitate waterleaf	Native	Rep	Apr-Jul	X		X		
Hydrophyllaceae	<i>Hydrophyllum fendleri</i>	Fendler's waterleaf	Native	Pres	Jun-Jul			X		X
Hydrophyllaceae	<i>Phacelia heterophylla</i>	wand phacelia	Native	Pres	Jun-Aug	X		X		
Hypericaceae (Guttiferae)	<i>Hypericum formosum</i>	western St. John's-wort	Native	Pres	May-Sep	X		X		X
Iridaceae	<i>Iris missouriensis</i>	Rocky Mountain iris	Native	Pres	May-Jul					X
Iridaceae	<i>Sisyrinchium idahoense</i> var. <i>occidentale</i>	Idaho blue-eyed grass	Native	Pres	May-Aug					X
Iridaceae	<i>Sisyrinchium montanum</i>	mountain blue-eyed grass	Native	Pres	May-Aug					X
Lamiaceae (Labiatae)	<i>Agastache urticifolia</i>	nettle-leaf horsemint	Native	Pres	Jun-Aug	X		X		
Lamiaceae (Labiatae)	<i>Dracocephalum parviflorum</i>	smallflower dragonhead	Native	Pres	Jun-Aug	X		X		X

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Lamiaceae (Labiatae)	<i>Marrubium vulgare</i>	common horehound	Intro	Rep	May-Oct					Disturbed areas
Lamiaceae (Labiatae)	<i>Mentha arvensis</i>	field mint	Native	Pres	Jun-Sep				X	
Lamiaceae (Labiatae)	<i>Monardella odoratissima</i>	stinking horsemint	Native	Pres	May-Aug	X	X	X		Rocky slopes
Lamiaceae (Labiatae)	<i>Prunella vulgaris</i>	self-heal	Native	Pres	May-Sep			X	X	
Lamiaceae (Labiatae)	<i>Scutellaria galericulata</i> var. <i>epilobifolia</i>	little skullcap	Native	Pres	Jun-Aug				X	
Lamiaceae (Labiatae)	<i>Stachys palustris</i> ssp. <i>pilosa</i>	hairy hedge-nettle	Native	Rep	Jun-Aug				X	
Lemnaceae	<i>Lemna turionifera</i>	lesser duckweed	Native	Pres	Jun-Oct				X	
Lentibulariaceae	<i>Utricularia macrorhiza</i>	common bladderwort	Native	Pres	Jul-Aug				X	
Linaceae	<i>Adenolinum lewisii</i>	blue flax	Native	Pres	Apr-Aug	X	X	X		
Loasaceae	<i>Nuttallia rusbyi</i>	Rusby's stickleaf	Native	Pres	Jun-Sep	X	X		X	
Malvaceae	<i>Iliamna rivularis</i>	wild hollyhock	Native	Rep	Jun-Oct				X	
Malvaceae	<i>Sidalcea candida</i>	white checker-mallow	Native	Pres	May-Sep				X	
Malvaceae	<i>Sidalcea neomexicana</i>	New Mexico checker-mallow	Native	Pres	Jun-Oct			X	X	
Malvaceae	<i>Sphaeralcea coccinea</i> ssp. <i>dissecta</i>	scarlet globe-mallow	Native	Pres	Apr-Oct	X	X	X		
Melanthiaceae (Liliaceae)	<i>Toxicoscordion venenosum</i>	meadow death camas	Native	Rep	Apr-Jul	X	X	X		
Nyctaginaceae	<i>Oxybaphus linearis</i>	narrow-leaf four-o'clock	Native	Pres	May-Aug	X	X	X	X	
Onagraceae	<i>Chamerion danielsii</i>	fireweed	Native	Pres	Jun-Sep			X	X	
Onagraceae	<i>Epilobium ciliatum</i>	northern willow-herb	Native	Pres	Jun-Aug				X	
Onagraceae	<i>Epilobium lactiflorum</i>	white-flower willow-herb	Native	Rep	Jun-Aug				X	
Onagraceae	<i>Gaura coccinea</i>	scarlet gaura	Native	Rep	May-Jul	X	X			
Onagraceae	<i>Oenothera caespitosa</i> ssp. <i>marginata</i>	long-tube evening-primrose	Native	Pres	Apr-Jun	X	X	X		
Onagraceae	<i>Oenothera elata</i> ssp. <i>hirsutissima</i>	western evening-primrose	Native	Pres	Jun-Aug	X	X	X	X	
Onagraceae	<i>Oenothera flava</i>	yellow evening-primrose	Native	Pres	Jun-Jul	X	X	X	X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Onagraceae	<i>Oenothera pallida</i> ssp. <i>pallida</i>	pale evening-primrose	Native	Rep	May-Jul	X	X			
Onagraceae	<i>Oenothera villosa</i> ssp. <i>strigosa</i>	biennial evening-primrose	Native	Pres	Jun-Aug			X	X	
Orchidaceae	<i>Limnorchis stricta</i>	slender bog orchid	Native	Pres	Jun-Aug				X	
Orobanchaceae	<i>Aphyllon fasciculatum</i>	clustered broomrape	Native	Pres	Jun-Jul	X	X			
Plantaginaceae	<i>Plantago eriopoda</i>	woolly-base plantain	Native	Rep	May-Aug	X			X	
Plantaginaceae	<i>Plantago lanceolata</i>	English plantain	Intro	Pres	May-Aug				X	Disturbed areas
Plantaginaceae	<i>Plantago major</i>	common plantain	Intro	Pres	May-Aug				X	Disturbed areas
Polemoniaceae	<i>Gilia penstemonoides</i>	Black Canyon gilia	Native	Pres	Jun-Aug					Rock crevices
Polemoniaceae	<i>Gilia pinnatifida</i>	sticky gilia	Native	Pres	May-Sep	X	X			
Polemoniaceae	<i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>	scarlet gilia	Native	Pres	May-Aug	X	X	X	X	
Polemoniaceae	<i>Phlox austromontana</i>	desert phlox	Native	Rep	Apr-Jun	X	X			
Polemoniaceae	<i>Phlox hoodii</i>	Hood's phlox	Native	Pres	Apr-Jun	X	X			
Polemoniaceae	<i>Phlox longifolia</i>	long-leaf phlox	Native	Pres	Apr-Jul	X	X	X		
Polemoniaceae	<i>Phlox multiflora</i>	Rocky Mountain phlox	Native	Pres	Jun-Aug	X		X		
Polemoniaceae	<i>Polemonium foliosissimum</i>	blue leafy Jacob's-ladder	Native	Pres	Jun-Aug			X		
Polygonaceae	<i>Eriogonum flavum</i> ssp. <i>flavum</i>	yellow wild-buckwheat	Native	Pres	Jun-Sep		X			
Polygonaceae	<i>Eriogonum ovalifolium</i> var. <i>ovalifolium</i>	cushion wild buckwheat	Native	Rep	Apr-Aug	X	X			
Polygonaceae	<i>Eriogonum racemosum</i>	redroot wild buckwheat	Native	Pres	Jun-Oct	X	X	X		
Polygonaceae	<i>Eriogonum subalpinum</i>	cream wild buckwheat	Native	Pres	Jun-Sep	X	X	X		
Polygonaceae	<i>Eriogonum umbellatum</i> var. <i>aureum</i>	sulphur-flower wild-buckwheat	Native	Pres	Jun-Sep	X	X			
Polygonaceae	<i>Persicaria amphibia</i>	water smartweed	Native	Pres	Jun-Sep				X	
Polygonaceae	<i>Persicaria coccinea</i>	water smartweed	Native	Pres	Jun-Sep				X	
Polygonaceae	<i>Rheum rhabarbarum</i>	garden rhubarb	Intro	Rep	Jul-Sep					Cultivated
Polygonaceae	<i>Rumex aquaticus</i> ssp. <i>occidentalis</i>	western dock	Native	Pres	May-Aug			X	X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Polygonaceae	<i>Rumex crispus</i>	curly dock	Intro	Pres	May-Sep				X	Disturbed areas
Polygonaceae	<i>Rumex triangulivalvis</i>	willow dock	Native	Pres	May-Sep	X	X	X	X	
Portulacaceae	<i>Oreobroma pygmaea</i>	alpine bitter-root	Native	Pres	May-Aug	X		X		
Potamogetonaceae	<i>Potamogeton pectinatus</i>	fennel-leaf pondweed	Native	Rep	Jul-Sep				X	
Primulaceae	<i>Dodecatheon pulchellum</i>	dark-throat shooting-star	Native	Pres	Mar-Aug	X			X	
Pyrolaceae (Ericaceae)	<i>Chimaphila umbellata</i> ssp. <i>pipisissa</i>	pipisissa	Native	Rep	Jun-Sep			X		
Pyrolaceae (Ericaceae)	<i>Pyrola chlorantha</i>	green-flowered wintergreen	Native	Pres	Jun-Aug			X	X	
Ranunculaceae	<i>Atragene columbiana</i>	Columbian virgin's-bower	Native	Pres	May-Sep	X		X	X	
Ranunculaceae	<i>Batrachium circinatum</i>	thread water-buttercup	Native	Rep	May-Sep				X	
Ranunculaceae	<i>Batrachium trichophyllum</i>	water-crowfoot	Native	Rep	May-Sep				X	
Ranunculaceae	<i>Clematis ligusticifolia</i>	white virgin's-bower	Native	Pres	Jul-Aug	X			X	
Ranunculaceae	<i>Coriflora hirsutissima</i>	sugar-bowls	Native	Pres	May-Aug	X		X		
Ranunculaceae	<i>Cyrtorhyncha ranunculina</i>	little buttercup	Native	Pres	Apr-Aug	X	X	X		
Ranunculaceae	<i>Halerpestes cymbalaria</i> ssp. <i>saximontana</i>	marsh buttercup	Native	Pres	May-Sep				X	
Ranunculaceae	<i>Pulsatilla ludoviciana</i>	pasqueflower	Native	Pres	Apr-Jun	X		X		
Ranunculaceae	<i>Ranunculus glaberrimus</i> var. <i>ellipticus</i>	sagebrush buttercup	Native	Pres	Apr-Jun	X	X	X		
Ranunculaceae	<i>Ranunculus gmelinii</i> var. <i>hookeri</i>	lesser yellow water buttercup	Native	Rep	Jun-Aug				X	
Ranunculaceae	<i>Ranunculus inamoenus</i> var. <i>inamoenus</i>	drab buttercup	Native	Pres	Jun-Sep	X		X		
Ranunculaceae	<i>Ranunculus macounii</i>	Macoun's buttercup	Native	Pres	May-Jul				X	
Ranunculaceae	<i>Ranunculus repens</i>	creeping buttercup	Intro	Pres	May-Jun				X	
Ranunculaceae	<i>Viticella orientalis</i>	Oriental clematis	Intro	Pres	Jul-Sep	X				Disturbed areas
Rosaceae	<i>Argentina anserina</i>	silverweed	Native	Pres	May-Aug				X	
Rosaceae	<i>Drymocallis arguta</i>	tall cinquefoil	Native	Pres	Jun-Jul			X	X	
Rosaceae	<i>Erythrocoma triflora</i>	prairie-smoke	Native	Rep	Jun-Aug			X		

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial/ Forbs, cont.</i>										
Rosaceae	<i>Fragaria vesca</i> ssp. <i>bracteata</i>	woodland strawberry	Native	Pres	Jun-Jul			X	X	
Rosaceae	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	Virginia strawberry	Native	Rep	Jun-Jul			X		
Rosaceae	<i>Geum aleppicum</i>	erect avens	Native	Pres	May-Jul				X	
Rosaceae	<i>Geum macrophyllum</i> ssp. <i>pericisum</i>	large-leaved avens	Native	Pres	May-Aug			X	X	
Rosaceae	<i>Potentilla concinna</i> var. <i>concinna</i>	red cinquefoil	Native	Pres	May-Aug	X				
Rosaceae	<i>Potentilla flabelliformis</i>	graceful cinquefoil	Native	Pres	Jun-Aug				X	
Rosaceae	<i>Potentilla gracilis</i> var. <i>elmeri</i>	glabrate cinquefoil	Native	Rep	Jun-Aug				X	
Rosaceae	<i>Potentilla hippiana</i>	woolly cinquefoil	Native	Pres	Jul-Aug			X	X	
Rosaceae	<i>Potentilla pensylvanica</i>	Pennsylvania cinquefoil	Native	Pres	Jul-Aug	X		X		
Rosaceae	<i>Potentilla plattensis</i>	Platte River cinquefoil	Native	Rep	Jun-Jul				X	
Rosaceae	<i>Potentilla pulcherrima</i>	beautiful cinquefoil	Native	Rep	Jun-Aug	X		X		
Rubiaceae	<i>Galium coloradoense</i>	Colorado bedstraw	Native	Pres	May-Aug		X			Talus
Rubiaceae	<i>Galium septentrionale</i>	northern bedstraw	Native	Pres	Jun-Aug	X		X	X	
Rubiaceae	<i>Galium triflorum</i>	sweet-scented bedstraw	Native	Pres	Jul-Aug			X	X	
Santalaceae	<i>Comandra umbellata</i>	bastard toadflax	Native	Pres	Apr-Aug	X	X	X		
Saxifragaceae	<i>Ciliaria austromontana</i>	spotted saxifrage	Native	Pres	Jun-Sep			X		Cliffs
Saxifragaceae	<i>Heuchera parvifolia</i>	littleleaf alumroot	Native	Pres	May-Sep	X	X	X		
Saxifragaceae	<i>Lithophragma tenellum</i>	slender woodlandstar	Native	Pres	Apr-Aug	X	X			
Saxifragaceae	<i>Micranthes odontoloma</i>	brook saxifrage	Native	Pres	May-Sep				X	
Saxifragaceae	<i>Sullivantia hapemanii</i> var. <i>purpusii</i>	Purpus' sullivantia	Native	Pres	Jun-Jul			X		Cliffs
Scrophulariaceae	<i>Castilleja chromosa</i>	desert paintbrush	Native	Pres	Apr-Jun	X	X			
Scrophulariaceae	<i>Castilleja linariifolia</i>	Wyoming paintbrush	Native	Pres	Jul-Aug	X	X	X		
Scrophulariaceae	<i>Castilleja miniata</i>	scarlet paintbrush	Native	Pres	Jul-Aug			X	X	
Scrophulariaceae	<i>Castilleja scabrada</i>	Eastwood's paintbrush	Native	Rep	May-Jul	X	X			
Scrophulariaceae	<i>Castilleja sulphurea</i>	sulphur paintbrush	Native	Rep	Jun-Aug			X	X	
Scrophulariaceae	<i>Limosella aquatica</i>	mudwort	Native	Rep	Jun-Aug				X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Scrophulariaceae	<i>Linaria vulgaris</i>	butter-and-eggs	Intro	Pres	Jun-Aug	X		X	X	Disturbed areas
Scrophulariaceae	<i>Mimulus glabratus</i>	glabrous monkeyflower	Native	Pres	Jun-Aug				X	
Scrophulariaceae	<i>Mimulus guttatus</i>	yellow monkeyflower	Native	Pres	Jun-Aug				X	
Scrophulariaceae	<i>Pedicularis crenulata</i>	purple-flower lousewort	Native	Hist	Jun-Aug				X	
Scrophulariaceae	<i>Pedicularis procera</i>	Gray's lousewort	Native	Rep	Jul-Aug			X		
Scrophulariaceae	<i>Penstemon barbatus</i> var. <i>torreyi</i>	beardlip penstemon	Native	Pres	Jun-Jul		X			
Scrophulariaceae	<i>Penstemon caespitosus</i>	mat penstemon	Native	Pres	May-Jul	X	X			
Scrophulariaceae	<i>Penstemon rydbergii</i>	Rydberg's penstemon	Native	Pres	Jun-Jul	X		X		
Scrophulariaceae	<i>Penstemon strictus</i>	Rocky Mountain penstemon	Native	Pres	Jun-Aug	X	X	X		
Scrophulariaceae	<i>Penstemon watsonii</i>	Watson's penstemon	Native	Rep	Jun-Aug	X	X	X		
Scrophulariaceae	<i>Scrophularia lanceolata</i>	lance-leaf figwort	Native	Pres	Jun-Jul	X		X	X	
Scrophulariaceae	<i>Verbascum thapsus</i>	woolly mullein	Intro	Pres	Jun-Aug	X	X	X		
Scrophulariaceae	<i>Veronica americana</i>	American brooklime	Native	Pres	Jul-Aug			X	X	
Scrophulariaceae	<i>Veronica catenata</i>	chain speedwell	Native	Pres	Jun-Aug				X	
Scrophulariaceae	<i>Veronica nutans</i>	American alpine speedwell	Native	Rep	Jul-Aug			X		
Scrophulariaceae	<i>Veronicastrum serpyllifolium</i> ssp. <i>humifusum</i>	thyme-leaved speedwell	Native	Pres	Jun-Aug				X	
Solanaceae	<i>Physalis virginiana</i>	Virginia ground-cherry	Native	Pres	May-Aug					Disturbed areas
Thalictraceae (Ranunculaceae)	<i>Thalictrum fendleri</i>	Fendler's meadow-rue	Native	Pres	Jun-Aug			X	X	
Urticaceae	<i>Urtica gracilis</i> ssp. <i>gracilis</i>	stinging nettle	Native	Pres	Jul-Aug	X		X	X	
Uvulariaceae (Liliaceae, Calochortaceae)	<i>Prosartes trachycarpa</i>	rough-fruited fairy-bells	Native	Pres	Jun-Aug				X	
Uvulariaceae (Liliaceae, Calochortaceae)	<i>Streptopus fassettii</i>	clasping twisted-stalk	Native	Pres	May-Jul				X	
Valerianaceae	<i>Valeriana edulis</i>	tobacco-root	Native	Pres	Jun-Aug	X			X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Forbs, cont.</i>										
Verbenaceae	<i>Verbena bracteata</i>	prostrate vervain	Native	Pres	May-Sep	X	X	X		Disturbed areas
Violaceae	<i>Viola adunca</i>	hook-spur violet	Native	Pres	Mar-Aug			X	X	
Violaceae	<i>Viola rydbergii</i>	Canadian white violet	Native	Pres	Apr-Aug	X		X		
Violaceae	<i>Viola scopulorum</i>	Canada violet	Native	Pres	Apr-Aug			X	X	
Annual Forbs										
Amaranthaceae	<i>Amaranthus blitoides</i>	prostrate pigweed	Native	Pres	Jun-Sep					Disturbed areas
Amaranthaceae	<i>Amaranthus retroflexus</i>	redroot pigweed	Intro	Rep	Jun-Sep					Disturbed areas
Asteraceae (Compositae)	<i>Ambrosia trifida</i>	giant ragweed	Native	Rep	Jul-Oct					Disturbed areas
Asteraceae (Compositae)	<i>Conyza canadensis</i>	Canadian horseweed	Native	Pres	Jul-Sep				X	
Asteraceae (Compositae)	<i>Cyclachaena xanthifolia</i>	marsh-elder	Native	Pres	Aug-Oct				X	Disturbed areas
Asteraceae (Compositae)	<i>Gnaphalium palustre</i>	lowland cudweed	Native	Rep	May-Oct				X	
Asteraceae (Compositae)	<i>Gnaphalium uliginosum</i>	slender cudweed	Native	Pres	Jul-Oct				X	
Asteraceae (Compositae)	<i>Helianthus annuus</i>	common sunflower	Native	Pres	Jun-Sep	X	X			Disturbed areas
Asteraceae (Compositae)	<i>Helianthus petiolaris</i>	prairie sunflower	Native	Pres	Jun-Sep	X	X			Disturbed areas
Asteraceae (Compositae)	<i>Lactuca serriola</i>	prickly lettuce	Intro	Pres	Jul-Sep	X	X			Disturbed areas
Asteraceae (Compositae)	<i>Machaeranthera gracilis</i>	slender goldenweed	Native	Rep	May-Oct	X	X	X		
Asteraceae (Compositae)	<i>Xanthium strumarium</i>	rough cocklebur	Native	Rep	Apr-Oct				X	Disturbed areas
Asteraceae (Compositae)	<i>Ximenesia encelioides</i>	golden crownbeard	Native	Pres	May-Oct	X	X	X		
Boraginaceae	<i>Cryptantha crassispala</i> var. <i>elachantha</i>	thick-sepaed cryptanth	Native	Pres	Apr-Jun	X	X		X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Annual Forbs, cont.</i>										
Boraginaceae	<i>Crytantha fendleri</i>	sand dune cryptanth	Native	Pres	May-Jul	X				
Boraginaceae	<i>Crytantha gracilis</i>	slender cryptanth	Native	Rep	Apr-Jul	X	X			
Boraginaceae	<i>Lappula redowskii</i>	western stickseed	Native	Pres	Apr-Jun	X	X	X		Disturbed areas
Brassicaceae (Cruciferae)	<i>Alyssum desertorum</i>	desert madwort	Intro	Pres	Apr-Jul	X	X	X		Disturbed areas
Brassicaceae (Cruciferae)	<i>Camelina microcarpa</i>	little-pod false flax	Intro	Rep	Apr-Jul					Disturbed areas
Brassicaceae (Cruciferae)	<i>Capsella bursa-pastoris</i>	shepherd's-purse	Intro	Pres	Apr-Sep				X	Disturbed areas
Brassicaceae (Cruciferae)	<i>Chorispora tenella</i>	blue mustard	Intro	Pres	Apr-Jun	X			X	Disturbed areas
Brassicaceae (Cruciferae)	<i>Descurainia incisa</i> ssp. <i>filipes</i>	western tansy-mustard	Native	Rep	Apr-Jul	X				
Brassicaceae (Cruciferae)	<i>Descurainia incisa</i> ssp. <i>incisa</i>	mountain tansy-mustard	Native	Pres	Apr-Jul	X				
Brassicaceae (Cruciferae)	<i>Descurainia incisa</i> ssp. <i>viscosa</i>	slender-leaved tansy-mustard	Native	Pres	Apr-Jul	X		X	X	
Brassicaceae (Cruciferae)	<i>Descurainia sophia</i>	flixweed	Intro	Pres	Mar-Aug	X	X		X	
Brassicaceae (Cruciferae)	<i>Draba cuneifolia</i>	wedgeleaf draba	Native	Rep	Feb-Jul	X	X	X		
Brassicaceae (Cruciferae)	<i>Draba rectifructa</i>	mountain draba	Native	Pres	Apr-Aug	X		X		
Brassicaceae (Cruciferae)	<i>Lepidium densiflorum</i>	prairie pepperwort	Native	Pres	May-Jul	X	X	X		
Brassicaceae (Cruciferae)	<i>Lepidium perfoliatum</i>	clasping pepperwort	Intro	Pres	May-Jul	X	X			Disturbed areas
Brassicaceae (Cruciferae)	<i>Neolepia campestre</i>	field pepperwort	Intro	Pres	May-Jul				X	Disturbed areas
Brassicaceae (Cruciferae)	<i>Sisymbrium altissimum</i>	tumble mustard	Intro	Pres	May-Aug	X			X	Disturbed areas
Brassicaceae (Cruciferae)	<i>Thlaspi arvense</i>	field pennycress	Intro	Pres	May-Aug				X	Disturbed areas

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Annual Forbs, cont.</i>										
Capparaceae (Cleomaceae)	<i>Cleome serrulata</i>	Rocky Mountain beeplant	Native	Pres	May-Oct	X			X	Disturbed areas
Capparaceae (Cleomaceae)	<i>Polanisia dodocandra</i>	clammy-weed	Native	Rep	May-Oct	X	X			
Caryophyllaceae	<i>Silene noctiflora</i>	night-flowering catchfly	Intro	Rep	Jun-Aug					Disturbed areas
Chenopodiaceae	<i>Atriplex rosea</i>	tumbling orach	Intro	Pres	Jul-Sep					Disturbed areas
Chenopodiaceae	<i>Axyris amaranthoides</i>	Russian pigweed	Intro	Rep	Jul-Sep					Disturbed areas
Chenopodiaceae	<i>Bassia sieversiana</i>	summer-cypress	Intro	Pres	Aug-Oct	X			X	Disturbed areas
Chenopodiaceae	<i>Chenopodium album</i>	lambsquarter	Intro	Rep	Jun-Sep					Disturbed areas
Chenopodiaceae	<i>Chenopodium atrovirens</i>	mountain goosefoot	Native	Pres	Jul-Sep			X		
Chenopodiaceae	<i>Chenopodium berlandieri</i>	pitseed goosefoot	Native	Pres	Jul-Sep				X	Disturbed areas
Chenopodiaceae	<i>Chenopodium capitatum</i>	strawberry-blite	Native	Rep	Jun-Sep			X	X	
Chenopodiaceae	<i>Chenopodium fremontii</i>	Fremont's goosefoot	Native	Pres	Aug-Oct	X	X	X		
Chenopodiaceae	<i>Chenopodium glaucum</i>	oakleaf goosefoot	Native	Pres	Aug-Sep				X	
Chenopodiaceae	<i>Chenopodium leptophyllum</i>	narrow-leaf goosefoot	Native	Pres	Jul-Sep	X				
Chenopodiaceae	<i>Monolepis nuttalliana</i>	Nuttall's poverty-weed	Native	Pres	Apr-Jul	X	X	X		Disturbed areas
Chenopodiaceae	<i>Salsola australis</i>	Russian-thistle	Intro	Pres	Jun-Sep	X				Disturbed areas
Chenopodiaceae	<i>Suaeda calceoliformis</i>	broom seepweed	Native	Rep	Jul-Sep				X	
Euphorbiaceae	<i>Chamaesyce glyptosperma</i>	ridge-seeded spurge	Native	Pres	Jun-Aug	X				
Fabaceae (Leguminosae)	<i>Lupinus kingii</i>	King's lupine	Native	Rep	May-Aug	X	X	X		
Fabaceae (Leguminosae)	<i>Medicago lupulina</i>	black medick	Intro	Pres	May-Oct	X			X	Disturbed areas
Fabaceae (Leguminosae)	<i>Melilotus albus</i>	white sweet-clover	Intro	Pres	May-Oct				X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Annual Forbs, cont.</i>										
Geraniaceae	<i>Erodium cicutarium</i>	stork's-bill	Intro	Pres	Feb-Oct	X	X			Disturbed areas
Hydrophyllaceae	<i>Phacelia alba</i>	white scorpion-weed	Native	Pres	Jun-Jul	X	X			
Hydrophyllaceae	<i>Phacelia bakeri</i>	Baker's phacelia	Native	Rep	May-Jun	X				
Lamiaceae (Labiatae)	<i>Galeopsis bifida</i>	splitlip hempnettle	Intro	Pres	Jun-Sep				X	
Loasaceae	<i>Acrolasia albicaulis</i>	white-stem blazingstar	Native	Rep	Apr-Aug	X	X			
Loasaceae	<i>Acrolasia dispersa</i>	Nevada stickleaf	Native	Pres	Apr-Aug	X	X			
Malvaceae	<i>Malva neglecta</i>	common mallow	Intro	Rep	Apr-Oct					Disturbed areas
Onagraceae	<i>Epilobium brachycarpum</i>	autumn willow-herb	Native	Rep	Jul-Sep	X	X	X		
Onagraceae	<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i>	diffuse groundsmoke	Native	Pres	May-Aug	X		X	X	
Onagraceae	<i>Gayophytum ramosissimum</i>	branching groundsmoke	Native	Pres	May-Aug			X		
Polemoniaceae	<i>Collomia linearis</i>	small collomia	Native	Pres	May-Aug	X		X	X	
Polemoniaceae	<i>Gilia ophthalmoidea</i>	eyelash gilia	Native	Rep	Apr-Jul	X	X			
Polemoniaceae	<i>Linanthus harknessii</i> var. <i>septentrionalis</i>	northern linanthus	Native	Rep	May-Aug	X		X		
Polygonaceae	<i>Eriogonum cernuum</i>	nodding wild buckwheat	Native	Pres	Apr-Oct	X	X			
Polygonaceae	<i>Persicaria lapathifolia</i>	willow-weed	Intro	Pres	Jul-Nov				X	
Polygonaceae	<i>Persicaria maculata</i>	lady's-thumb	Intro	Pres	Mar-Nov				X	Disturbed areas
Polygonaceae	<i>Polygonum arenastrum</i>	yard knotweed	Intro	Pres	May-Oct	X				Disturbed areas
Polygonaceae	<i>Polygonum douglasii</i>	Douglas' knotweed	Native	Pres	Jun-Oct	X	X	X		
Polygonaceae	<i>Rumex maritimus</i> var. <i>fueginus</i>	golden dock	Native	Rep	May-Sep				X	
Primulaceae	<i>Androsace occidentalis</i>	western rock-jasmine	Native	Pres	Apr-Jun		X			
Primulaceae	<i>Androsace septentrionalis</i>	pygmy-flower rock-jasmine	Native	Pres	May-Aug	X		X		
Ranunculaceae	<i>Ceratocephala orthoceras</i>	bur buttercup	Intro	Pres	Apr-Jun	X	X			Disturbed areas
Ranunculaceae	<i>Hecatonia scelerata</i>	blister buttercup	Native	Rep	May-Sep				X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Annual Forbs, cont.</i>										
Rosaceae	<i>Potentilla biennis</i>	biennial cinquefoil	Native	Pres	May–Aug			X	X	
Rosaceae	<i>Potentilla norvegica</i>	Norwegian cinquefoil	Intro	Pres	Jun–Aug				X	
Rosaceae	<i>Potentilla rivalis</i>	brook cinquefoil	Native	Rep	Jun–Aug				X	
Scrophulariaceae	<i>Collinsia parviflora</i>	blue-eyed Mary	Native	Pres	Apr–Jun	X	X	X		
Scrophulariaceae	<i>Mimulus floribundus</i>	seep monkeyflower	Native	Pres	May–Jul	X			X	
Scrophulariaceae	<i>Mimulus rubellus</i>	reddish monkeyflower	Native	Pres	Apr–Jun	X	X	X		
Scrophulariaceae	<i>Orthocarpus luteus</i>	yellow owl-clover	Native	Pres	Jul–Aug	X		X	X	
Scrophulariaceae	<i>Veronica peregrina</i> var. <i>xalapensis</i>	purslane speedwell	Native	Pres	Jun–Aug			X	X	
Solanaceae	<i>Hyoscyamus niger</i>	black henbane	Intro	Pres	Jun–Aug					Disturbed areas
Solanaceae	<i>Solanum triflorum</i>	cut-leaf nightshade	Native	Pres	May–Sep	X	X			Disturbed areas
Urticaceae	<i>Parietaria pensylvanica</i>	Pennsylvania pellitory	Native	Pres	Mar–Aug				X	
Zygophyllaceae	<i>Tribulus terrestris</i>	puncture vine	Intro	Pres	May–Sep					Disturbed areas
Perennial Graminoids										
Cyperaceae	<i>Carex aquatilis</i>	water sedge	Native	Pres	Jun–Aug				X	
Cyperaceae	<i>Carex aurea</i>	golden sedge	Native	Pres	Apr–Aug				X	
Cyperaceae	<i>Carex deweyana</i>	Dewey's sedge	Native	Pres	May–Jul				X	
Cyperaceae	<i>Carex foenea</i>	silvertop sedge	Native	Rep	Jun–Aug	X	X			
Cyperaceae	<i>Carex geyeri</i>	elk sedge	Native	Pres	Apr–Jul			X		
Cyperaceae	<i>Carex lanuginosa</i>	woolly sedge	Native	Pres	May–Sep				X	
Cyperaceae	<i>Carex microptera</i>	small-wing sedge	Native	Pres	Jun–Aug				X	
Cyperaceae	<i>Carex nebrascensis</i>	Nebraska sedge	Native	Pres	May–Jul				X	
Cyperaceae	<i>Carex occidentalis</i>	western sedge	Native	Pres	Jun–Aug			X	X	
Cyperaceae	<i>Carex pensylvanica</i> ssp. <i>heliophila</i>	Pennsylvania sedge	Native	Pres	May–Jul	X				
Cyperaceae	<i>Carex praegracilis</i>	blackcreeper sedge	Native	Rep	May–Aug				X	
Cyperaceae	<i>Carex stenophylla</i> ssp. <i>eleocharis</i>	narrowleaf sedge	Native	Pres	Jun–Jul	X	X			
Cyperaceae	<i>Carex utriculata</i>	beaked sedge	Native	Pres	Jun–Aug				X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Graminoids, cont.</i>										
Cyperaceae	<i>Carex vaillicola</i>	valley sedge	Native	Rep	May-Jul		X	X		
Cyperaceae	<i>Carex xerantica</i>	dryland sedge	Native	Pres	Jul-Aug			X		
Cyperaceae	<i>Eleocharis acicularis</i>	needle spike-rush	Native	Rep	Jun-Sep				X	
Cyperaceae	<i>Eleocharis macrostachya</i>	common spikerush	Native	Pres	May-Aug				X	
Cyperaceae	<i>Schoenoplectus lacustris</i> <i>ssp. acutus</i>	hardstem bulrush	Native	Rep	Jun-Aug				X	
Cyperaceae	<i>Schoenoplectus pungens</i>	three-square bulrush	Native	Rep	May-Aug				X	
Cyperaceae	<i>Scirpus microcarpus</i>	panicked bulrush	Native	Pres	Jun-Aug				X	
Juncaceae	<i>Juncus arcticus</i> <i>ssp. ater</i>	Baltic rush	Native	Pres	May-Jul				X	
Juncaceae	<i>Juncus confusus</i>	perplexing rush	Native	Rep	Jun-Aug				X	
Juncaceae	<i>Juncus dudleyi</i>	slender rush	Native	Pres	Jun-Aug				X	
Juncaceae	<i>Juncus longistylis</i>	longstyle rush	Native	Pres	Jun-Aug				X	
Juncaceae	<i>Juncus nodosus</i>	knotted rush	Native	Pres	Jul-Sep				X	
Juncaceae	<i>Juncus saximontanus</i>	mountain rush	Native	Rep	Jun-Aug				X	
Juncaceae	<i>Juncus torreyi</i>	Torrey's rush	Native	Rep	Jun-Aug				X	
Juncaceae	<i>Juncus tracyi</i>	Tracy's rush	Native	Pres	Jun-Aug				X	
Juncaceae	<i>Luzula parviflora</i>	small-flowered woodrush	Native	Rep	Jun-Aug			X	X	
Juncaginaceae	<i>Triglochin maritima</i>	seaside arrowgrass	Native	Rep	May-Aug				X	
Juncaginaceae	<i>Triglochin palustris</i>	marsh arrowgrass	Native	Rep	Jun-Aug				X	
Poaceae (Gramineae)	<i>Achnatherum hymenoides</i>	Indian ricegrass	Native	Pres	May-Jul		X	X		
Poaceae (Gramineae)	<i>Achnatherum lettermanii</i>	Letterman's needlegrass	Native	Rep	Jul-Sep		X	X		
Poaceae (Gramineae)	<i>Achnatherum nelsonii</i>	Nelson's needlegrass	Native	Rep	Jun-Sep		X	X		
Poaceae (Gramineae)	<i>Achnatherum pinetorum</i>	pine needlegrass	Native	Pres	Jun-Aug		X	X		
Poaceae (Gramineae)	<i>Achnatherum x bloomeri</i>	Bloomer's ricegrass	Native	Rep	Jun-Aug		X	X		
Poaceae (Gramineae)	<i>Agropyron desertorum</i>	clustered wheatgrass	Intro	Pres	Jun-Aug		X		X	Disturbed areas
Poaceae (Gramineae)	<i>Agrostis exarata</i>	spike bentgrass	Native	Rep	Jul-Aug				X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Graminoids, cont.</i>										
Poaceae (Gramineae)	<i>Agrostis gigantea</i>	redtop	Intro	Pres	Jun-Sep				X	
Poaceae (Gramineae)	<i>Agrostis scabra</i>	ticklegrass	Native	Pres	Jul-Aug			X	X	
Poaceae (Gramineae)	<i>Alopecurus aequalis</i>	shortawn foxtail	Native	Pres	Jun-Aug				X	
Poaceae (Gramineae)	<i>Alopecurus pratensis</i>	meadow foxtail	Intro	Pres	Jun-Jul			X	X	
Poaceae (Gramineae)	<i>Aristida purpurea</i> var. <i>longisetata</i>	purple three-awn	Native	Pres	Mar-Sep	X	X	X		
Poaceae (Gramineae)	<i>Bromelica bulbosa</i>	oniongrass	Native	Rep	May-Aug	X	X	X		
Poaceae (Gramineae)	<i>Bromopsis canadensis</i>	fringed brome	Native	Pres	Jul-Sep			X		
Poaceae (Gramineae)	<i>Bromopsis inermis</i>	smooth brome	Intro	Pres	Jun-Aug		X	X	X	Disturbed areas
Poaceae (Gramineae)	<i>Bromopsis lanatipes</i>	woolly brome	Native	Pres	Jun-Aug			X	X	
Poaceae (Gramineae)	<i>Bromopsis porteri</i>	nodding brome	Native	Pres	Jun-Aug		X	X		
Poaceae (Gramineae)	<i>Calamagrostis canadensis</i>	bluejoint reedgrass	Native	Pres	Jul-Aug			X	X	
Poaceae (Gramineae)	<i>Calamagrostis stricta</i>	slimstem reedgrass	Native	Pres	Jul-Aug				X	
Poaceae (Gramineae)	<i>Catabrosa aquatica</i>	brookgrass	Native	Pres	Jun-Sep				X	
Poaceae (Gramineae)	<i>Ceratochloa carinata</i>	mountain brome	Native	Rep	May-Aug		X	X	X	x
Poaceae (Gramineae)	<i>Chondrosium gracile</i>	blue grama	Native	Pres	Jul-Sep	X	X	X		
Poaceae (Gramineae)	<i>Critesion brachyantherum</i>	meadow barley	Native	Rep	Jun-Aug			X	X	
Poaceae (Gramineae)	<i>Critesion jubatum</i>	foxtail barley	Native	Pres	Jun-Aug	X	X	X	X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Graminoids, cont.</i>										
Poaceae (Gramineae)	<i>Dactylis glomerata</i>	orchard grass	Intro	Pres	Jun-Aug	X				Disturbed areas
Poaceae (Gramineae)	<i>Deschampsia cespitosa</i>	tufted hairgrass	Native	Pres	Jul-Sep				X	
Poaceae (Gramineae)	<i>Distichlis stricta</i>	desert saltgrass	Native	Rep	Jun-Sep				X	
Poaceae (Gramineae)	<i>Elymus canadensis</i>	Canada wildrye	Native	Rep	Jul-Aug				X	
Poaceae (Gramineae)	<i>Elymus elymoides</i>	squirreltail	Native	Pres	May-Aug	X	X	X	X	
Poaceae (Gramineae)	<i>Elymus glaucus</i>	blue wildrye	Native	Pres	Jul-Aug			X		
Poaceae (Gramineae)	<i>Elymus lanceolatus</i>	thickspike wheatgrass	Native	Pres	Jun-Aug	X	X	X	X	
Poaceae (Gramineae)	<i>Elymus longifolius</i>	bottlebrush squirreltail	Native	Pres	May-Aug		X			
Poaceae (Gramineae)	<i>Elymus trachycaulus</i>	slender wheatgrass	Native	Pres	Jun-Aug	X		X	X	
Poaceae (Gramineae)	<i>Elytrigia repens</i>	quackgrass	Intro	Pres	Jun-Aug			X	X	
Poaceae (Gramineae)	<i>Festuca arizonica</i>	Arizona fescue	Native	Rep	Jul-Aug			X		
Poaceae (Gramineae)	<i>Festuca pratensis</i>	meadow fescue	Intro	Rep	Jun-Aug			X	X	
Poaceae (Gramineae)	<i>Festuca rubra</i>	red fescue	Intro	Rep	Jul-Sep					Disturbed areas
Poaceae (Gramineae)	<i>Festuca saximontana</i>	Rocky Mountain fescue	Native	Pres	Jul-Aug			X		
Poaceae (Gramineae)	<i>Festuca thurberi</i>	Thurber's fescue	Native	Pres	Jul-Aug			X	X	
Poaceae (Gramineae)	<i>Glyceria borealis</i>	northern mannagrass	Native	Pres	Jul-Aug				X	
Poaceae (Gramineae)	<i>Glyceria elata</i>	fowl mannagrass	Native	Pres	Jun-Aug				X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Graminoids, cont.</i>										
Poaceae (Gramineae)	<i>Glyceria grandis</i>	American mannagrass	Native	Pres	Jun-Aug				X	
Poaceae (Gramineae)	<i>Glyceria striata</i>	fowl mannagrass	Native	Pres	Jul-Aug				X	
Poaceae (Gramineae)	<i>Hesperostipa comata</i>	needle-and-thread	Native	Pres	May-Jul	X	X	X		
Poaceae (Gramineae)	<i>Hilaria jamesii</i>	galleta	Native	Pres	May-Aug	X	X			
Poaceae (Gramineae)	<i>Koeleria macrantha</i>	Junegrass	Native	Pres	Jun-Aug	X	X	X		
Poaceae (Gramineae)	<i>Leucopoa kingii</i>	spike fescue	Native	Rep	Jun-Aug	X	X	X		
Poaceae (Gramineae)	<i>Leymus cinereus</i>	Great Basin wildrye	Native	Pres	Jun-Aug	X	X	X	X	
Poaceae (Gramineae)	<i>Leymus salina</i>	Salina wildrye	Native	Rep	Jun-Jul	X	X			
Poaceae (Gramineae)	<i>Melica porteri</i>	Porter's melic	Native	Pres	Jul-Oct			X	X	
Poaceae (Gramineae)	<i>Muhlenbergia asperifolia</i>	scratchgrass	Native	Rep	Jul-Aug				X	
Poaceae (Gramineae)	<i>Muhlenbergia montana</i>	mountain muhly	Native	Pres	Jul-Sep	X		X		
Poaceae (Gramineae)	<i>Muhlenbergia racemosa</i>	green muhly	Native	Pres	Jul-Sep				X	
Poaceae (Gramineae)	<i>Muhlenbergia wrightii</i>	spike muhly	Native	Pres	Jul-Sep	X	X	X		
Poaceae (Gramineae)	<i>Nassella viridula</i>	green needlegrass	Native	Pres	Jun-Jul	X				Disturbed areas
Poaceae (Gramineae)	<i>Panicum virgatum</i>	switchgrass	Native	Rep	Jun-Sep		X		X	
Poaceae (Gramineae)	<i>Pascopyrum smithii</i>	western wheatgrass	Native	Pres	Jun-Aug	X	X		X	
Poaceae (Gramineae)	<i>Phalaroides arundinacea</i>	reed canary grass	Native	Pres	Jun-Aug				X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Perennial Graminoids, cont.</i>										
Poaceae (Gramineae)	<i>Phleum pratense</i>	timothy	Intro	Pres	Jun-Sep	X	X	X	X	
Poaceae (Gramineae)	<i>Piptatherum micranthum</i>	littleseed ricegrass	Native	Pres	Jun-Aug			X	X	
Poaceae (Gramineae)	<i>Poa agassizensis</i>	Agassiz's bluegrass	Native	Pres	May-Aug			X	X	
Poaceae (Gramineae)	<i>Poa compressa</i>	Canada bluegrass	Intro	Pres	Jun-Aug	X	X	X	X	
Poaceae (Gramineae)	<i>Poa fendleriana</i>	muttongrass	Native	Pres	May-Aug	X	X	X		
Poaceae (Gramineae)	<i>Poa nemoralis</i> ssp. <i>interior</i>	interior bluegrass	Native	Pres	Jun-Aug			X	X	
Poaceae (Gramineae)	<i>Poa nervosa</i>	Wheeler bluegrass	Native	Rep	Apr-Aug			X		
Poaceae (Gramineae)	<i>Poa palustris</i>	fowl bluegrass	Native	Pres	May-Aug				X	
Poaceae (Gramineae)	<i>Poa pratensis</i>	Kentucky bluegrass	Intro	Pres	May-Aug	X	X	X	X	
Poaceae (Gramineae)	<i>Poa secunda</i>	Sandberg's bluegrass	Native	Pres	Apr-Sep	X	X	X	X	
Poaceae (Gramineae)	<i>Pseudoroegneria spicata</i>	bluebunch wheatgrass	Native	Pres	Jun-Aug	X	X	X		
Poaceae (Gramineae)	<i>Puccinellia distans</i>	weeping alkaligrass	Intro	Rep	Jun-Aug				X	Disturbed areas
Poaceae (Gramineae)	<i>Sporobolus airoides</i>	alkali sacaton	Native	Rep	Jun-Aug	X	X		X	
Poaceae (Gramineae)	<i>Sporobolus cryptandrus</i>	sand dropseed	Native	Pres	Jun-Aug	X	X			
Poaceae (Gramineae)	<i>Thinopyrum intermedium</i> ssp. <i>barbulatum</i>	intermediate wheatgrass	Intro	Rep	Jun-Aug	X	X	X		
Poaceae (Gramineae)	<i>Trisetum spicatum</i>	spike trisetum	Native	Pres	Jul-Sep			X	X	
Typhaceae	<i>Typha domingensis</i>	southern cattail	Native	Rep	Jun-Aug				X	
Typhaceae	<i>Typha latifolia</i>	broad-leaved cattail	Native	Pres	Jun-Aug				X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
Annual Graminoids										
Juncaceae	<i>Juncus bufonius</i>	toad rush	Native	Rep	Jun-Aug				X	
Poaceae (Gramineae)	<i>Anisantha tectorum</i>	cheatgrass	Intro	Pres	May-Jul	X	X			
Poaceae (Gramineae)	<i>Beckmannia syzigachne</i>	American sloughgrass	Native	Pres	Jul-Aug				X	
Poaceae (Gramineae)	<i>Bromus commutatus</i>	hairy brome	Intro	Rep	May-Jul					Disturbed areas
Poaceae (Gramineae)	<i>Chondrosium prostratum</i>	mat grama	Native	Pres	Aug-Sep					Disturbed areas
Poaceae (Gramineae)	<i>Eragrostis cilianensis</i>	stinkgrass	Intro	Pres	Jul-Sep	X				Disturbed areas
Poaceae (Gramineae)	<i>Monroa squarrosa</i>	false buffalograss	Native	Rep	Jun-Sep	X	X			
Poaceae (Gramineae)	<i>Muhlenbergia minutissima</i>	annual muhly	Native	Pres	Jul-Sep	X				
Poaceae (Gramineae)	<i>Muhlenbergia richardsonis</i>	pullup muhly	Native	Rep	Jul-Sep	X	X	X		
Poaceae (Gramineae)	<i>Panicum capillare</i> var. <i>occidentale</i>	witchgrass	Native	Rep	Jun-Sep	X				
Ferns and Allies										
Aspleniaceae (Polypodiaceae)	<i>Cystopteris fragilis</i>	brittle bladder fern	Native	Pres	NA			X	X	
Cryptogrammaeae (Polypodiaceae, Adiantaceae)	<i>Cryptogramma acrostichoides</i>	parsley-fern	Native	Pres	NA			X		Talus
Equisetaceae	<i>Equisetum arvense</i>	field horsetail	Native	Pres	NA			X	X	
Equisetaceae	<i>Hippochaete hyemalis</i> var. <i>affinis</i>	tall scouring-rush	Native	Rep	NA				X	
Equisetaceae	<i>Hippochaete laevigata</i>	smooth scouring-rush	Native	Pres	NA				X	
Hypolepidaceae (Polypodiaceae, Dennstaedtiaceae)	<i>Pteridium aquilinum</i> var. <i>lanuginosum</i>	bracken fern	Native	Pres	NA	X		X	X	
Selaginellaceae	<i>Selaginella densa</i>	dense spike-moss	Native	Pres	NA	X	X	X	X	

Appendix D. Confirmed, historical, and reported taxa of Curecanti National Recreation Area, organized by life form with ecological notes, cont.

Family	Species name	Common name	Nativity	Park status	Flower time	Sage	PJ-Oak	Mont For	Wet	Comments
<i>Ferns and Allies, cont.</i>										
Sinopteridaceae (Polypodiaceae, Adiantaceae)	<i>Argyrochosma fendleri</i>	Fendler's cloak-fern	Native	Pres	NA					Rock crevices
Sinopteridaceae (Polypodiaceae, Adiantaceae)	<i>Cheilanthes feei</i>	slender lip-fern	Native	Pres	NA					Rock crevices
Woodsiaceae (Polypodiaceae, Aspleniaceae)	<i>Woodsia oregana</i> ssp. <i>cathcartiana</i>	Oregon woodsia	Native	Pres	NA	X	X	X		Rocky slopes

The Department of the Interior protects and manages the nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its special responsibilities to American Indians, Alaska Natives, and affiliated Island Communities.

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U.S. Department of the Interior



Natural Resource Program Center
1201 Oak Ridge Drive, Suite 150
Fort Collins, Colorado 80525

www.nature.nps.gov