SUMMARY

Rare Care was excited to return to a more “normal” year in 2021 and start the third decade of our rare plant monitoring project. With staff and volunteers following COVID19 health and safety plans to keep everyone safe, our season kicked off with field work in early March and continued through October. While the pandemic required some adaptation to safely conduct field work, 2021 brought other challenges including early season drought, high temperatures, and wildfires. Unfortunately, due to social distancing requirements, we once again decided to cancel the annual group monitoring campout.

Volunteers completed 122 monitoring assignments in 2021, finding the target species at 61% of the sites. These include 10 potentially undocumented populations discovered by our volunteers in the course of completing other surveys or observed while out hiking. See the graph below to compare 2021 to past years. We did not have our annual monitoring weekend where we typically monitor 15 to 20 sites in one weekend, so we’re slightly below our goal of 130 completed assignments. Finally, 14 seed collections were also made and Miller Seed Vault volunteers finished cleaning all 2020 collections.
SEASON SYNOPSIS

Similar to 2020, this year started out dry, with below normal precipitation between February and early May, especially east of the Cascades. This was followed by the heat dome in late June with temperatures well over 100 degrees for several days across the whole state. For western Washington, that was about 30-40 degrees above average highs. East of the Cascades, evidence of drought was observed in stressed plants and dry soils, and inferred by the absence of target plants. March through May volunteers observed many “early bloomers” in southern portions of the states, especially in Klickitat County. They monitored species such as Hoover’s desert-parsley (Lomatium tuberosum), Whited’s penstemon (Penstemon eriantherus var. whitedii), and sagebrush stickseed (Hackelia hispida var. disjuncta). Cusick’s camas (Camassia cusickii) was documented for potentially the first time in Washington state! Volunteers also found new populations of small-flowered (Trillium albidum ssp. parviflorum).

Over half the monitoring trips completed in 2021 were done over the summer months (June, July and August), with 75 reports submitted. Monitoring efforts were more widespread across the state than earlier in the season with many finds in northern potions of the state including Snohomish and Okanogan Counties. A few exciting finds include a population of Blue Mountain beardtongue (Penstemon pennellianus) was relocated in Umatilla National Forest, and three populations of snow cinquefoil (Potentilla nivea) in Okanogan-Wenatchee National Forest. Snow cinquefoil is one of nine species designated internally by Rare Care as a focus species so it was welcome news that we checked so many populations off our to-do list. Volunteers also monitored two populations of sagebrush lily (Calochortus macrocarpus var. maculosus), which is another focus species.

In the fall, to wrap up the 2021 field season volunteers visited seven more populations including two populations of coyote bush (Baccharis pilularis ssp. consanguinea) at Cape Disappointment State Park. The weather also cooperated for visiting a population of snowball cactus (Pediocactus nigrispinus) on a Bureau of Land Management property. Volunteers made several trips to Klickitat Wildlife Area to continue botanical surveys of the Simcoe Unit but didn’t find any more rare plants to add to the species list.

For the complete list of 2021 field results see pages 8-13.
Sites of populations monitored in 2021 were located across Washington State on federal, state, and local public lands as well as a couple of private properties. Approximately 61% of the sites were on federal land, 28% were on state lands, 6% were on local county or city lands, and 6% were on private lands (some sites occurred on two or more jurisdictions). Federal lands visited by volunteers in 2021 included sites in Mount Rainier National Park, all National Forests in Washington, Bureau of Land Management lands, one National Wildlife Refuge (Turnbull) and Hanford Reach National Monument. State lands visited this year included many Natural Area Preserves, Natural Resource Conservation Areas and state trust lands managed by the Washington Department of Natural Resources. State parks visited include Cape Disappointment, Columbia Hills, Elbow Lake, Field Spring, and Paradise Point State Parks.
In 2021, 14 seed collections were added to the Miller Seed Vault, representing 10 different taxa, see below table. Five of these collections were made by Rare Care staff, interns, and volunteers, and seven collections were provided by agency and conservation partners. Seed collections support ongoing recovery efforts for species listed under the Endangered Species Act and to add species and/or populations that were of high priority to the ex situ collection. We added two collections of the Threatened species, Spalding’s catchfly (Silene spaldingii), from wild populations at Turnbull National Wildlife Refuge, and one collection of the Endangered species Wenatchee Mountains checkermallow (Sidalcea oregana var. calva).

We also added collections from new populations of species that we already have one or more populations in the seed vault, adding to genetic diversity preserved in the vault. These collections were of Suksdorf’s desert-parsley (Lomatium suksdorfii) and pink fawn lily (Erythronium revolutum).

### 2021 SEED COLLECTIONS ADDED TO MILLER SEED VAULT

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<th>EO #</th>
<th>No. of Accessions</th>
<th>Management Area</th>
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<td>Lomatium suksdorfii³</td>
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<td>47</td>
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<td>Erythronium revolutum²</td>
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<td>Sidalcea oregana var. calva²</td>
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<td>38</td>
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<td>Cirsium remotifolium¹</td>
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**Notes:** 1)Collected agency and conservation partners. 2)Collected by Rare Care volunteers, staff, and interns. Anemone patens var. multifida for seed longevity study. 3)Nursery grown seeds.
MILLER SEED VAULT

Shelly Carpenter, Marina Kochuten, Sarah McIlwain, Lauren Rowe, Nina Shim, and Shannon Thoele spent 273 hours cleaning the 2020 seed collections. They sifted, tweezed apart, and packaged 9 collections totalling over 16,000 seeds and 0.224 grams of the dust-like seeds of yellow lady’s slipper (*Cypripedium parviflorum*). There were over 10,000 seeds of Wormskiookd’s northern wormwood (*Artemisia campestris var. wormskioldii*) alone!

For each collection, seed collectors and cleaners carefully keep the maternal lines separate. Seeds stored in the Miller Seed Vault are preserved indefinitely, in preparation for any catastrophic events that extirpate a local population; for future research projects on re-introductions; and possible genetic testing with partner researchers. Most collections are split 50/50 with the National Laboratory for Genetic Resource Preservation in Ft. Collins, Colorado for redundancy.

We are so grateful for these volunteers who brave the chilly conditions of the Miller Seed Vault and have such patience and dedication to detail.

SEED LONGEVITY STUDY

In collaboration with the Center for Plant Conservation (CPC) and many of the botanical gardens in their network across the country, Rare Care collected seeds for their seed longevity study. We contributed a fresh collection of pasque flower, (*Anemone patens var. multifida*). We also sent the CPC seeds from an older collection of the same population for comparison of a collection that had been stored for 15 years in the Miller Seed Vault. The CPC seed longevity study will help understand how long seeds can survive in seed banks and in turn inform curation and management decisions. In 2022, Rare Care will also collect two other species: longhair sedge (*Carex comosa*) and golden paintbrush (*Castilleja leavisecta*).
VOLUNTEER HIGHLIGHTS

Across all Rare Care activities, volunteers contributed 3068 hours.

91 volunteers monitored 122 rare populations across the whole state. Special honors go to Paul Slichter, Maya Kahn-Abrams, Kevin Price, Robin Fitch, Dan Brake, and Darcy Dauble for completing over 5 monitoring reports each this season. Fourteen new volunteers were trained and four volunteers returned for a refresher.

Rare plant monitoring can be an adventure and some sites require quite the effort to access them. Veronica Wisniewski, Edoh Amrian, and Patricia Otto rafted 8.5 miles of the Grande Ronde River in July to monitor several populations of sagebrush mariposa-lily (Calochortus macrocarpus var. maculosus). Robin Fitch kayaked down the Columbia River three times in search of the lowland toothcup (Rotala ramosior). Peter Boley and Leo Egashiro bushwhacked to find prickly tree clubmoss (Dendrolycodium dendroideum) deep in the forest off of Highway 2. Katie & Steve Messick and Josh Wozniak finished up a 5-year effort to find new populations of Sierra cliffbrake (Pellaea brachyptera) along Lake Chelan.

Photos: Katie Messick

Prickly tree clubmoss (Dendrolycodium dendroideum)
Photo: Peter Boley

Top: Sierra cliffbrake (Pellaea brachyptera)
Bottom: Josh Wozniak searching for lowland toothcup (Rotala ramosior).
Photos: Katie Messick
THANK YOU VOLUNTEERS

Wenatchee Mountains
CHECKERMALLOW (75+ hours)
State Endangered
Sidalcea oregana var. calva
Photo: Anna Carragee

Whited’s fuzzy-tongue
PENSTEMON (26-74 hours)
State Threatened
Penstemon eriantherus var. whitedii
Photo: Julie Sanderson

Hoover’s desert-parsley
(0-25 hours)
State Sensitive
Lomatium lithosolamons
Photo: Betty Swift

Dan Brake
Shelley Evans
Cleveland Hall
Robin Fitch
Kevin Price
Susan Saul

Sally Abella
Lisa Appel
Julia Bent
Peter Boley
Amy Cabral
Steve Caicco
Shelly Carpenter
Steven Clark
Brenda Cunningham
Darcy Dauble
Matthew Distler
Catherine Flick
Romey Haberle
Marilee Henry, Ph.D.
Richard Johnson
Maya Kahn-Abrams
Elyssa Kerr
Ron Klump
Marina Kochuten
Joanna Long
Carol Mack
Jacob Maki
Timothy Manns
Tracy Maynard
Sarah McLlwain
Clare McLean
Katie Messick
Doug Murphy
Laura Potash
Kalama Reuter
Lauren Rowe
Nina Shim
Rick Shory
Cynthia Smith-Kuebel
Elizabeth Stanek
John Stuart
Krista Thie
Shannon Thoele
Jeff Thorson
Veronica
Wisniewski
Josh Wozniak

Ted Abella
Talinna Appling
Joe Arnett
Bryan Baunsgard
Howard Beuhler
Sly Beuhler
Ron Bockelman
Sherry Bottoms
Colleen Brennan
Anna Carlson
Natayla Carlson
Nicki Channess
Catherine Conolly
Meg Decker
Janelle Downs
Emil Doyle
Niall Dunne
Jennie Green
Chelsea Gudgeon
Janka Hobs
Debbie Inglis
Sophia Kast
Kelsey Kelmel
Bob Kent
Stacy Kinsell
Jill LaRue
Samuel Lee
Devin Melville
Ashley Mertens
Katie Mitchell
Kari Murphy
Deborah Naslund
Emily Orling
Sasha Porter
Gail Roberts
Elaine Rybak
Suzanne Schwab
Teresa Sollitto
Eric Strub
Hally Swift
George Thornton
Kelli Van Norman
Susan Varnum
Barbara Varnum-Finney
Susan Wheatley

**We welcome your help to make our records as accurate as possible. If you think we’re missing any hours please send in any relevant time sheets.**

RARE CARE IS GRATEFUL FOR THE TIME AND SKILLS VOLUNTEERS CONTRIBUTED IN 2021!
## 2021 RARE PLANT MONITORING RESULTS

<table>
<thead>
<tr>
<th>Species Name</th>
<th>EO #</th>
<th>State Status</th>
<th>Visit Date</th>
<th>Species Found</th>
<th>Pop. Size</th>
<th>Managed Area</th>
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## 2021 Rare Plant Monitoring Results (Continued)

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<td></td>
<td>Coal Creek ACEC, Bureau of Land Management - Spokane District</td>
<td>USABLM</td>
</tr>
<tr>
<td>Spiranthes porrifolia</td>
<td>1</td>
<td>S</td>
<td>5/19/2021</td>
<td>No</td>
<td></td>
<td>Bureau of Land Management, Columbia River Gorge National Scenic Area</td>
<td>USABLM, USAFS</td>
</tr>
</tbody>
</table>
## 2021 RARE PLANT MONITORING RESULTS (CONTINUED)

<table>
<thead>
<tr>
<th>Species Name</th>
<th>EO #</th>
<th>State Status</th>
<th>Visit Date</th>
<th>Species Found</th>
<th>Pop. Size</th>
<th>Managed Area</th>
<th>Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Swertia perennis</em></td>
<td>3</td>
<td>S</td>
<td>8/20/2021</td>
<td>Yes</td>
<td>501 - 1,000</td>
<td>Darrington RD, Mt Baker-Snoqualmie NF</td>
<td>USAFS</td>
</tr>
<tr>
<td><em>Trillium albidum</em> ssp. <em>parviflorum</em></td>
<td>1</td>
<td>S</td>
<td>5/8/2021</td>
<td>No</td>
<td></td>
<td>Bald Hill NAP</td>
<td>ST DNR</td>
</tr>
<tr>
<td><em>Trillium albidum</em> ssp. <em>parviflorum</em></td>
<td>51</td>
<td>S</td>
<td>4/8/2021</td>
<td>Yes</td>
<td>8</td>
<td>Lewisville Regional Park</td>
<td>LOCCTY</td>
</tr>
<tr>
<td><em>Trillium albidum</em> ssp. <em>parviflorum</em></td>
<td>New4</td>
<td>S</td>
<td>4/27/2021</td>
<td>Yes</td>
<td>90</td>
<td>Lauretta Norene Forest Preserve and Groth Forest Preserve</td>
<td>LOCCTY</td>
</tr>
<tr>
<td><em>Trillium albidum</em> ssp. <em>parviflorum</em></td>
<td>New4</td>
<td>S</td>
<td>4/8/2021</td>
<td>Yes</td>
<td>301 - 500</td>
<td>Beaver Marsh Natural Area-City of Vancouver</td>
<td>LOCMUN</td>
</tr>
<tr>
<td><em>Utricularia intermedia</em></td>
<td>10</td>
<td>S</td>
<td>7/18/2021</td>
<td>Yes</td>
<td>101 - 300</td>
<td>Snoqualmie Bog NAP</td>
<td>ST DNR</td>
</tr>
<tr>
<td><em>Woodwardia fimbriata</em></td>
<td>20</td>
<td>S</td>
<td>5/17/2021</td>
<td>No</td>
<td></td>
<td>Hamma Hamma Balds NAP</td>
<td>ST DNR</td>
</tr>
<tr>
<td><em>Woodwardia fimbriata</em></td>
<td>New4</td>
<td>S</td>
<td>1/3/2021</td>
<td>Yes</td>
<td>2 clumps</td>
<td>Maury Island Marine Park</td>
<td>LOCCTY</td>
</tr>
</tbody>
</table>

### Table Notes
1. EO num is the element occurrence number assigned to the site by the Washington
2. State Status: E = endangered, R1 = review species (group 1), R2 = review species
3. Population size estimate represents individuals unless otherwise noted.
4. Potentially new site that may not be in WNHP database.
5. Site identified by land owner or other party and may not be in WNHP database.
6. Site may contain hybrids.

### Abbreviations
- ACEC - Area of Critical Environmental Concern
- BSA - State University Natural Area
- EWA - Established Wilderness Area
- ERD - Energy Research and Development
- IND - Indian Reservation
- LOCCTY - City Municipality or County
- NAP - Natural Area Preserve
- NF - National Forest
- RD - Ranger District
- ST DFW - Washington State Department of Fish and Wildlife
- ST DNR - Washington State Department of Natural Resources
- ST SPR - Washington State Parks and Recreation
- ST UAA - State University Property
- ST WDT - Washington State Department of Transportation
- NRCA - Natural Resources Conservation Area
- NSA - National Scenic Area
- NVM - National Volcanic Monument
- NWR - National Wildlife Refuge
- USABLM - Bureau of Land Management
- USADOD - United States Department of Defense
- USAFS - United States Forest Service
- USAFWS - United States Fish and Wildlife Service
- USANPS - National Park Service
- PUD - Public Utility District
- WA - Wildlife Area
- PVT - Privately owned