



PO Box 141613, Anchorage, Alaska

December 2023 – January 2024

## Join us at our Next Meetings!

### Monday, December 4, 7:00 PM

**Via Zoom Only**

Main Topic: "How Climate Shapes Past, Present & Future Tree Species Distributions in Coastal Alaska"

Speakers: Paul Hennon & Robin Mulvey

Aquatic Plant Families: Sparganiaceae,

Presenter: Justin Fulkerson

Medicinal Plants: *Moneses uniflora* (Common Name - Single delight)

Presenter: Val Cancino

### Monday, January 8, 6:30 PM

**Via Zoom Only**

Main Topic: "Eastern Beringian Grasslands: An Endangered Ecosystem"

Speaker: Bruce Bennett

Aquatic Plant Families: Araceae (Arum family)

Speaker: Preston Villumsen

**Virtual Meeting Link: [Join via Zoom](#)**

Meeting ID: 938 2833 2935

Passcode: 362610

**For the latest information about ANPS events and field trips, go to [www.ak-nps.org/](http://www.ak-nps.org/)**

## Seeds of Spring



It is often said that native landscaping's biggest challenge is finding the plants. But seeds are abundant, readily available, and inexpensive to boot! If only someone would collect them...Luckily, members of the ANPS community have been planning ahead. They have been collecting seeds of Alaska native plants from both wild and cultivated gardens. They've dried and packaged these seeds and they are ready to be passed on to you for planting your dream garden.

And if you think you have to wait for the ground to thaw before you can grow beautiful and beneficial species, think again—for most native plants in Alaska, fall to early winter is the best time. Many wildflowers, trees and shrubs have seeds that need to experience a winter cold period before they will germinate. That doesn't mean shoveling snow off your garden plot right now. Fortunately, the methods are simple, and the seeds are ideally suited to germinate outdoors in pots. Learn from our experts:

### Attend Our In-Person Seedy Saturday Event

December 2, 2023: 1-3 pm Alaska Botanical Gardens

- **Pick up 2023 Alaska native seeds you requested via our online form (see instructions below)**
- 1:30 pm talk and Q&A with local horticulturalist Debbie Hinckley on "Germinating Native Seeds: Inhibitors and Solutions"
- **Free handouts & books for sale on growing native plants**
- Network with other native plant growers!

**Requirements:** Seed requests must be submitted by Nov. 30 at <https://bitly/native seed form>.

*Can't attend the Dec. 2 seed pickup? You may request seed through our mail distribution program which will begin on the first of the year.*

# 2023 ALASKA NATIVE PLANT SEED LIST

Be sure to read submittal requirements at [https://bit.ly/native\\_seed\\_form](https://bit.ly/native_seed_form)

Scientific Name	Common Name	Note	Location	Wild / Cultivated?
<i>Aconitum delphinifolium</i>	Monkshood, Larkspurleaf	All parts poisonous except to native pollinators; Handle with care	MOA	wild
<i>Aconitum delphinifolium</i>	Larkspurleaf Monkshood, Monkshood	All parts poisonous except to native pollinators; Handle with care	MOA	cultivated
<i>Aquilegia formosa</i>	Western Columbine	Prefers part shade/shade, moist areas	Turnagain Pass	wild
<i>Aquilegia formosa</i>	Columbine, Western	Prefers part shade/shade, moist areas	MOA	mixed
<i>Argentina (Potentilla) anserina</i>	Silverweed		MOA	wild
<i>Aster sibiricus</i>	Siberian Aster		MOA-CCSC	cultivated
<i>Artemisia tilesii</i>	Stinkwood, Wormwood	Medicinal	Kenai	wild
<i>Aster sibiricus</i>	Siberian Aster		Turnagain Pass	wild
<i>Aster sibiricus</i>	Siberian Aster		MOA	cultivated
<i>Caltha leptosepala</i>	White Marsh Marigold	Requires consistently moist soil	KPB-Turnagain Pass	wild
<i>Caltha leptosepala</i>	White Marsh Marigold	Requires consistently moist soil	?	?
<i>Caltha palustris</i>	Marsh Marigold		MOA	?
<i>Campanula rotundifolia</i>	Common Harebell	Long bloom time, flowers resemble creeping bellflower but stems very different	MOA	cultivated
<i>Campanula rotundifolia</i>	Common Harebell	Long bloom time, flowers resemble creeping bellflower but stems very different	MOA	cultivated
<i>Chamerion angustifolium</i>	Fireweed		MSB-Palmer	wild
<i>Dryas drummondii</i>	Yellow Mountain Avens		Mat-Su (SM)	wild
<i>Dryas ajanensis (octopela)</i>	Eight-petal Mountain-Avens		MOA	wild
<i>Erigeron compositus</i>	Cut-Leaf Fleabane		MOA	cultivated
<i>Erigeron spp. (likely peregrinus)</i>	Wandering Daisy		Turnagain Pass	wild
<i>Erythranthe guttata</i>	Seep Monkeyflower, Wild Mimulus	Easy to propagate, reseeds prolifically	MOA	cultivated
<i>Fritillaria camschatcensis</i>	Chocolate Lily, Rice Lily	Use fresh seeds less than 1 year old.	Turnagain Pass	wild
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<i>Fritillaria camschatcensis</i>	Chocolate Lily, Rice Lily	Use fresh seeds less than 1 year old.	MOA	cultivated
<i>Galium triflorum</i>	Fragrant bed-straw	Can be used to make vanilla substitute	Turnagain Pass	wild
<i>Geum macrophyllum</i>	Large-leaved Avens		KPB-Resurrection Creek	wild
<i>Geum rossi</i>	Ross' avens		MOA	wild
<i>Hedysarum alpinum</i>	Alpine sweet-vetch	Reseeds prolifically	MOA	cultivated
<i>Heuchera glabra</i>	Alpine heuchera		MOA-Byron Glacier	wild
<i>Impatiens noli-tangere</i>	Touch-Me-Not Balsam	Reseeds prolifically	MOA	cultivated
<i>Iris setosa</i>	Beach-head Iris, Wild Iris	Can take 2 years to germinate	MOA-CCSC	cultivated
<i>Iris setosa</i>	Beach-head Iris, Wild Iris	Can take 2 years to germinate	MSB-Eklutna	wild
<i>Iris setosa</i>	Beach-head Iris, Wild Iris	Can take 2 years to germinate	MOA	?
<i>Lupinus nootkatensis</i>	Nootka Lupine		MOA	wild

<i>Lupinus nootkatensis</i>	Nootka Lupine		MOA	wild
<i>Papavar alborescens</i>	Pale Poppy, Portage Poppy		MOA	cultivated
<i>Papavar alborescens</i>	Poppy, Portage, Pale		MOA	cultivated
<i>Papaver alaskanum</i>	Poppy, Alaska		MOA	cultivated
<i>Pilosella tristis</i>	Alpine hawkweed		Turnagain Pass	wild
<i>Polemonium acutiflorum</i>	Tall Jacob's Ladder		MOA-CCSC	cultivated
<i>Potentilla nivea</i>	Snow Cinquefoil	Grows prolifically at Campbell Creek Science Center	MOA	cultivated
<i>Potentilla (Comarum) palustris</i>	Purple marsh cinquefoil		MSB	wild
<i>Primula pauciflora (Dodecatheon pulchellum)</i>	Dark-Throated Shooting Star		MOA	cultivated
<i>Primula pauciflora (Dodecatheon pulchellum)</i>	Dark-Throated Shooting Star		MOA	cultivated
<i>Primula pauciflora (Dodecatheon pulchellum)</i>	Dark-Throated Shooting Star		MOA	cultivated
<i>Rhinanthus minor</i>	Rattlebox, Yellow Rattle		MOA	cultivated
<i>Rhinanthus minor</i>	Rattlebox, Yellow Rattle		MSB	wild
<i>Sanguisorba canadensis</i>	Canadian Burnet		Turnagain Pass	wild
<i>Scheuchzeria palustris</i>	Rannoch Rush		?	?
<i>Senecio triangularis</i>	Arrowleaf Senecio		Turnagain Pass	wild
<i>Sisyrinchium montanum</i>	Strict Blue Eyed Grass	Requires full sun to bloom	MOA	cultivated
<i>Solidago multiradiata</i>	Northern Goldenrod		MOA	wild
<i>Solidago multiradiata</i>	Northern Goldenrod		MOA	wild
<i>Spiraea stevenii</i>	Steven's Spirea		KPB-Turnagain Pass	wild
<i>Swertia perennis</i>	Star Gentian, Felwort, Star Swertia	Requires consistently moist soil	Turnagain Pass	wild
<i>Thalictrum sparsiflorum</i>	Few Flower Meadow-Rue, Western Meadow Rue		Turnagain Pass	wild

## FOR MORE INFORMATION:

Seed list for in person event:

[https://bit.ly/native\\_seed\\_list](https://bit.ly/native_seed_list)

Google form for in person event December 2, 2023

[https://bit.ly/native\\_seed\\_form](https://bit.ly/native_seed_form)

## ORDERING SEEDS BY MAIL:

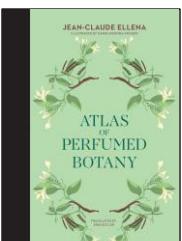
Details for ordering seeds by mail will be provided through e-mail and Facebook in January 2024. All seeds listed above will still be available.



Santa's Native Seed Packet Preparing Elves - 2023

# FROM OUR BOOKSHELVES -

## GIFT BOOKS FOR GREEN FINGERS



### Atlas of Perfumed Botany

Author: Jean-Claude Ellena; Illustrator: Karin Doering-Froger; Translated by Eric Butler

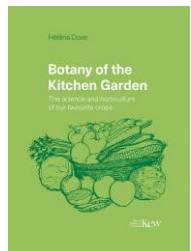
MIT Press April 5, 2022

ISBN-10 : 0262046733

A cartography of fragrance that charts the botany and geography of perfume composition.

For perfume makers, each smell carries with it a multitude of associations and impressions that must be carefully analyzed and understood before the sum of all its parts emerges. All perfumers have their own idiosyncratic methods, drawn from their individual olfactory experiences, for classifying fragrances. In *Atlas of Perfumed Botany*, virtuoso perfumer Jean-Claude Ellena leads readers on a poetic, geographic, and botanical journey of perfume discovery. Ellena offers a varied and fascinating cartography of fragrances, tracing historical connections and cultural exchanges. Full-page entries on plants ranging from bergamot to lavender are accompanied by detailed and vivid full-color botanical illustrations.

Jean-Claude Ellena, the “nose” of the luxury brand Hermès for fourteen years, has been the Creative Director of Fragrance at the perfume house Le Couvent since 2019. Karin Doering-Froger, a faculty member at the Atelier de Sèvres, has illustrated many novels and travel guides, including *Atlas de cités perdues* and *Atlas de contrées rêvées*.



### Botany of the Kitchen Garden

Author: Helena Dove

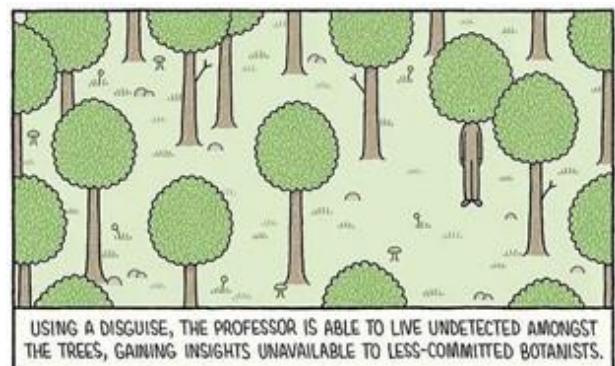
Royal Botanic Gardens, Kew; September 8, 2023

ISBN-10: 1842467832

People have been growing fruits and vegetables in domesticated spaces for centuries. In *Botany of the Kitchen Garden*, Hélène Dove expertly combines horticulture and science to demonstrate that by examining the botany of plants we can understand plants' behaviors and adaptations, giving readers and growers the tools to delve further into their favorite foods.

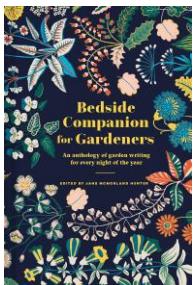
From asparagus, cabbage, lettuce, and raspberry to pineapple, tomatillo, and okra, each plant entry includes information on etymology, cultivation history, growing habits, varieties, and much more. By giving readers a closer look at the everyday crops we grow and eat, this book will help them cultivate more productive plots, develop a renewed zest for the food on our plates, and gain a deeper understanding of all the aspects of the history and science of their gardens.

Helena Dove is an experienced Kitchen Gardener, currently based at the Royal Botanic Gardens, Kew. There she manages an organically run Kitchen Garden with a wide variety of fruit and vegetables. Previously managing the historic Edwardian Kitchen Garden at Myddelton House Gardens in Enfield, she has a passion for heritage and interesting crops. Helena writes a monthly blog for the Kew website, and has featured articles for magazines such as Plant Heritage and guest pieces for the Global Food Security Program.



USING A DISGUISE, THE PROFESSOR IS ABLE TO LIVE UNDETECTED AMONGST THE TREES, GAINING INSIGHTS UNAVAILABLE TO LESS-COMMITTED BOTANISTS.

TOM GAULD FOR NEW SCIENTIST



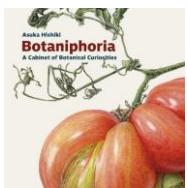
## The Bedside Companion for Gardeners: An Anthology Of Garden Writing For Every Night Of The Year

Edited by Jane McMorland Hunter  
Batsford Press: 2021  
ISBN-10 : 1849947139

A mix of fact and fiction, fantasy and experience, the *Bedside Companion for Gardeners* is a treasure trove of green-fingered inspiration where practical advice blends seamlessly with poetry and prose from intrepid gardeners past and present. Dip in and out of this collection with an entry for every night of the year that draws on writing through the ages and from across the globe and makes perfect under-the-duvet reading for weary gardeners.

The *Bedside Companion for Gardeners* incorporates practical advice from the 17th-century gardening diarist John Evelyn; inspiring prose from Elizabeth von Arnim and John Milton; astute commentary from Horace Walpole on William Kent and Nancy Mitford on the vulgarity of a Surrey garden. Kipling offers practical advice, while Tennyson waxes lyrical on an Arabian night garden. Compare Mrs Earle and Ethel Case's advice on building a bird table, from their 1912 book, *Gardening for the Ignorant* ("A long fir pole is the principal thing needed...") with the extract from Gertrude Jekyll's 1899 classic and influential book, *Wood and Garden* ("There is always in February one day, at least, when one smells the yet distant, but surely coming, summer...") and you get an idea of this pleasing piece of horticultural literature.

The perfect gift for any gardener, this magical book is an invaluable source of inspiration and guidance to revisit throughout the year.



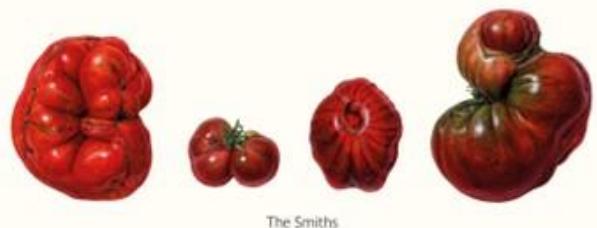
### **Botaniphoria: A Cabinet of Botanical Curiosities (Botanical Art Portfolios) January 1, 2023**

Author: Asuka Hishiki  
Two Rivers Press; January 2023

Take a fresh look at the world through the lens of a self-confessed nature-obsessed artist. Asuka Hishiki possesses not only a sense of profound awe and wonder at the intricacies of the natural world, but also the talent to communicate it through her paintings. Recalling the Wunderkammer (literally, 'wonder rooms') of 16th and 17th century European collectors, Asuka Hishiki's *Botaniphoria* encompasses subjects as diverse as rotting vegetables, endangered species, mundane weeds and backyard insects – all treasures to her and transformed into objects of intense and fragile beauty through her skill with watercolor. Her work is held in prestigious collections such as The Huntington Library, Art Museum and Botanical Gardens, California, the Royal Botanic Gardens, Kew and the Hunt Institute for Botanical Documentation, Pennsylvania.

One of the first people to appreciate her work said about it, 'your work is not to hang upon a wall in a bright living room, but to put in a drawer in the study. Then, alone in the middle of the night, to take out and ponder upon.' In the best traditions of Wunderkammer, this book is an artfully arranged collection intended to be pondered upon. From the interactions of the objects within the paintings, to the quirky choice of subjects and the realism with which they are portrayed, they will bear revisiting again and again. As Asuka admits, painting is her language. She is an extremely adept communicator in it.

### **Portrait of An Heirloom Tomato**





# FROM WHAT WE GATHER



## SUNFLOWERS REALLY DO HAVE SOLAR CLOCKS

An internal circadian clock controls the distinctive concentric rings of flowering in sunflowers, maximizing visits from pollinators, a new study from plant biologists at the University of California, Davis, shows. The work is published Jan. 13 in *eLife*. <https://elifesciences.org/articles/80984>

A sunflower head is made up of hundreds of tiny florets. Because of the way sunflowers grow, the youngest florets are in the center of the flower face and the most mature at the edges, forming a distinctive spiral pattern from the center to the edge. An individual floret blooms over a couple of days: on the first day, it opens the male part of the flower and presents pollen; on the second day, the female stigma unfold to receive pollen. Somehow, florets coordinate so that they open in concentric rings starting from the edge and moving inward on successive days, with a ring of female flowers always outside the earlier-stage, pollen-bearing male flowers.

Pollinating bees tend to land on the ray petals around a sunflower head and walk toward the center, said senior author Stacey Harmer, professor of plant biology, UC Davis College of Biological Sciences. That means that they will pick up pollen after they have walked over the female florets, then carry it to a different flower head.

The internal circadian clock of a plant or animal runs on a cycle of about 24 hours, allowing different genes to be activated at different times of day. Natural day/night cycles keep this internal clock synchronized to actual day time. Changing the length of daylight, or darkness, can reset the clock. In sunflowers, continuous light disrupts the clock entirely.

### Time-lapse video

The researchers took time-lapse videos of sunflowers grown in different light/dark or temperature conditions. They found that the plant's circadian clock controls the opening of florets. When the clock was disrupted by growing plants in continuous light, florets did not open in concentric rings, but only by age, starting at the edge and moving to the center in a continuous gradient.



At left is a sunflower head grown under normal conditions. Florets mature in concentric rings day by day. The flower head at right was grown with a disrupted circadian clock and its florets did not open in the correct pattern. (Harmer lab, UC Davis)

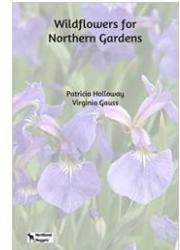
When plants that had been grown with a disrupted clock were moved outside, they attracted fewer pollinators than normal sunflowers. "We think that being able to coordinate in this way makes them a better target for bees," Harmer said. "It's a strategy to attract as many insects as possible."

## Dr. Patricia Holloway achieves a Triple Crown – At least!

She has been the recipient of numerous awards during her lifetime, but she is the first person – man or woman – to have achieved the trifecta of awards including the Usibelli Distinguished Service Award, the Alaska Innovators Hall of Fame award, and now the prestigious Alaska Native Plant Society Lifetime Achievement Award!

For her many contributions to public research and education on the propagation of native plants, we are pleased to honor Dr. Patricia Holloway, professor emerita at the University of Alaska Fairbanks, as only the second person to yet receive our ANPS Lifetime Achievement Award.

Pat is a long-time Alaskan who has conducted horticultural research in Alaska for decades and was one of the founders of the Georgeson Botanical Garden in Fairbanks, which she directed for many years. She has taught classes, given lectures, and published original research related to propagating native plants. Recently, Pat published a wonderful book (available on Amazon.com) on how to propagate native wildflowers, and she has donated the proceeds from its sales to our non-profit. She has also spent many hours as a volunteer helping to develop educational materials on native plants ahead of our first Alaska Native Plant Month in May.

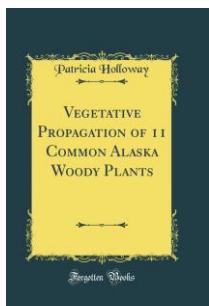


She began her association with the university in 1975 as a research aide at the Agricultural Experiment Station. She worked for three years in the horticulture program before earning a doctorate in horticulture at the University of Minnesota in 1982. Her dissertation was on lingonberries, and she continues her research interest in Alaska wild and cultivated berries. You can read many of her native plant research reports at: <https://georgesonbotanicalgarden.org/research/>.

An early innovative accomplishment was transforming research plots at the Fairbanks Experiment Farm into one of the most-visited campus attractions and a center for horticultural research, outreach, and education. Holloway, colleagues, and many volunteers began the Georgeson Botanical Garden in 1989, and it is now a valuable community and University asset. It is the center for horticultural crop trials, peony research, plant hardiness trials, educational programs, a children's garden, as well as public concerts and events.

She has received many awards for her work, including a 2015 Usibelli Distinguished Service Award and she was the first recipient of the Growers Cup Award from the Alaska Peony Growers Association. In 2018 she was inducted into the Alaska Innovators Hall of Fame for being the first to realize the potential for a commercial peony industry in Alaska and for her work developing the Georgeson Botanical Garden.

We look forward to her sharing many more years of her Alaskan horticultural knowledge and research. We know she won't rest on her laurels!



**Pat Holloway received a Lifetime Achievement Award from the Alaska Native Plant Society on November 11, 2023, when she came to Anchorage to attend a Food Policy Conference & Festival.**

*Photo generously provided by Donna Dewhurst*

# ANNUAL MEMBERSHIP APPLICATION/RENEWAL

The Alaska Native Plant Society was organized in 1982 by an enthusiastic group of amateur and professional botanists. It is a non-profit educational organization with the goal of uniting all persons interested in the flora of Alaska. Membership is open to any interested individual or organization. If you wish to join us or to renew, you can either use our convenient on-line method by going to <https://aknps.org/membership>, or fill in the form below, and mail it with the appropriate remittance to:

Alaska Native Plant Society  
P. O. Box 141613  
Anchorage, AK 99514

STATUS       NEW       RENEWAL

CATEGORY	E-Mail Newsletter	Snail-Mail Newsletter	Both Mail Deliveries
<input type="checkbox"/> Full-time Student	\$12	\$22	\$22
<input type="checkbox"/> Senior Citizen	\$12	\$22	\$22
<input type="checkbox"/> Individual	\$15	\$25	\$25
<input type="checkbox"/> Family	\$20	\$30	\$30

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: (Home) \_\_\_\_\_ (Cell) \_\_\_\_\_ E-mail \_\_\_\_\_

## PLEASE RENEW OR JOIN TODAY!

ANPS Membership is on a calendar-year basis, unless you are on recurring payment.  
Join now for 2024!

December and January Meetings Via Zoom Only  
Meeting ID: 938 2833 2935; Passcode: 362610