

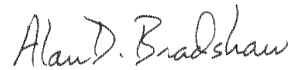
ALPLAINS

2013 SEED CATALOG

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Dear Growing Friends: Welcome to our 23rd annual seed catalog! The summer of 2012 was long, hot and brutal, with drought afflicting most of the U.S. Most of my botanical explorations were restricted to Idaho, Washington, Oregon and northern California but even there moisture was below average. In a year like this, seeps, swales, springs, vestigial snowbanks and localized rainstorms became much more important in my search for seeding plants. On the Snake River Plains of southern Idaho and the scablands of eastern Washington, early bloomers such as *Viola beckwithii*, *V. trinervata*, *Ranunculus glaberrimus*, *Ranunculus andersonii*, *Fritillaria pudica* and *Primula cusickiana* put on quite a show in mid-April but many populations could not set seed. In northern Idaho, *Erythronium idahoense* flowered extensively, whole meadows were covered with thousands of the creamy, pendant blossoms. One of my most satisfying finds in the Hells Canyon area had to be *Sedum valens*. The tiny glaucous rosettes, surrounded by a ring of red leaves, are a succulent connoisseur's dream. Higher up, the brilliant blue spikes of *Synthyris missurica* punctuated the canyon walls. In southern Oregon, the brilliant red spikes of *Pedicularis densiflora* lit up the Siskiyou forest floor. Further north in Oregon, large populations of *Erythronium elegans*, *Erythronium oregonum ssp. leucandrum*, *Erythronium revolutum*, trilliums and sedums provided wonderful picture-taking opportunities. Eriogonum species did well despite the drought, many of them true xerics. Collecting alpine species in the mountains of Colorado, Wyoming and Utah was disappointing. Quantities of such gems as *Aquilegia saximontana* and the blue-flowered *Phlox pulvinata* are limited. However, the wild seed collections combined with some excellent cultivated seed, plus some choice selections from the cactus and Yucca collections of Jeff Thompson provide over 180 new acquisitions for our seed catalog. Once again, we sincerely thank you for your continued support as we look forward to many more years of service. Happy growing!



— Alan D. Bradshaw

I personally guarantee your satisfaction!

Cover: *Primula cusickiana* A. Gray (Camas Co., ID, 5060 feet)

ORDERING INFORMATION

Please note that we have a minimum order requirement of \$15.00. Payment must be in U.S. funds, either by check drawn on a U.S. bank (which must accompany order), or by international money order (IMO). Cash accepted at your own risk (we recommend registered mail.) We cannot accept Eurocheques, etc., as we incur high conversion fees. We also accept Mastercard, Visa and Discover charge cards. We will accept purchase orders from recognized institutions such as Botanic Gardens and Universities; payment is expected within 30 days. You may FAX your order to (303) 621-2864. Unless payment is by credit card, FAX orders will be processed and held pending arrival of payment (not applicable to P.O.s). You may also mail orders to us using the postal service or send us an email at alandean7@msn.com. All of our orders are shipped via airmail, using padded mailers to protect seeds in transit. We package our seeds in double-fold envelopes, eliminating the need for inner glassine envelopes for all except the tiniest seed. Each envelope is labeled with the name of the seed and all relevant germination information. As some items are in short supply, please list substitutes on the reverse of the order form (not necessary for charge orders — we will charge only available seeds.) It is to your benefit to list several substitutions because we always give extra value if substitution is necessary. With every order we automatically include bonus seed to show our appreciation. Because seed for certain species is scarce, we reserve the right to limit quantities. If you have questions or problems, please write to us (regular mail or email).

The following cash discounts are offered on all orders (taken before shipping and handling charges are applied): > \$100.00 take 5%, > \$200.00 take 10%, > \$500.00 take 15%, > \$1000.00 take 20% off. We ship year round. All those who order from this catalog will automatically receive the next catalog. This catalog supersedes all previous catalogs. Prices listed are good until the next catalog is published. If the order blank is missing, mail or FAX your order on any piece of paper or letterhead, or email us. Please include your name and address, the items desired and the shipping charges: (\$4.00 U.S. & Canada, \$6.00 overseas.) For charge card orders, also include the card number, expiration date, 3-digit security number and your signature. This entire catalog is protected under copyright law and no part may be reproduced by any means without written permission of ALPLAINS.

In the vast majority of cases, our seed will come true to name. Seed quality is very important to us so we constantly run germination tests to ensure viability. If you are ever unhappy with our seeds, we will replace with new seed or an acceptable substitute. Our liability is limited to the original purchase price of the seed. In no case will we be liable for the abuse or misuse of our seeds or any of its products. For further information about germination requirements, refer to our recommended references (below), the legend (next page) or go to our website, www.alplains.com, and click on “Germination Tips” in the menu. Please note Norm Deno is no longer shipping his book *Seed Germination Theory and Practice*.

Join the North American Rock Garden Society for \$30.00 annually, which includes a subscription to the Rock Garden Quarterly and access to their seed exchange.

For more information, write to: Bobby Ward, Executive Secretary, P.O. Box 18604,
Raleigh, NC 27619-8604 or check out the NARGS website: www.nargs.org.

We recommend the following references for further information on seed germination:

- 1) Norm Deno, *Seed Germination Theory and Practice*, 139 Lenor Drive, State College, PA 16801
- 2) Dara E. Emery, *Seed Propagation of Native California Plants*, Santa Barbara Botanic Garden
- 3) Alpines '86 Publications Committee, *Rocky Mountain Alpines*, Timber Press, Portland, OR 97204
- 4) Peter Loewer, *Seeds, The Definitive Guide to Growing, History & Lore*, Macmillan, NY 10019

The following legend describes the codes for each listing:

Penstemon utahensis (Scrophulariaceae)(36x15, Z4, P, RGL, 3:8w) 40 seeds / \$4.00

Name (taxon)	Family	(a)	(b)	(c)	(d)	(e)
(a) Height x Width: approximate size at maturity, in <u>centimeters</u>			(b) Zone Rating:			Zone 1: < -50° F. Zone 2: -50° to -40° Zone 3: -40° to -30° Zone 4: -30° to -20° Zone 5: -20° to -10° Zone 6: -10° to 0° Zone 7: 0° to 10° Zone 8: 10° to 20° Zone 9: 20° to 30° Zone 10: 30° to 40° Zone 11: > 40° F.
(c) (P)erennial (A)nnual (B)iennial						
(d) Seed Pre-Treatment:						

(L)ight is required or seed is so tiny that it should not be buried.
 (S)carify seed by rubbing lightly on sandpaper or nick seed coat.
 (C)over seed to a depth of about 4 times the minimum seed dimension. (This is not a strict rule: most seeds have ambivalent light requirements and may be surface sown regardless of size. Those needing darkness will be so stated in the individual descriptions.)
 (R)ub vigorously between hands to remove impermeable seed coat or fuzz, etc., which may prevent water imbibition or cause seed rot.
 (E)dge-wise: seed is flat and wide — insert seed in sowing medium to stand on edge.
 (G)ibberelic Acid (GA3) treatment helpful in stimulating germination.
 (W)ater treatment: germination takes place under water.
 Note: More than one letter may be applicable.

- (e) Germination Codes:
- (1) No cold stratification necessary: germination is usually complete within a month or less.
 - (2) No cold stratification necessary: germination may be staggered over several weeks. Flushes may occur at intervals, especially if the sowing medium is allowed to dry out gradually and then re-wetted.
 - (3) Cold stratification required for the number of weeks indicated, followed by exposure to warmth, after which germination is usually complete within a month or less.
 - (4) Cold stratification required for the number of weeks indicated, followed by exposure to warmth, after which germination may be staggered over several weeks. Another period of cold may be helpful to encourage remaining seeds to sprout. Alternatively, seed may be exposed to outdoor winter conditions for germination in the spring.
 - (5) Warm, moist stratification required for 3 to 4 months, followed by 2 to 3 months cold stratification during which germination takes place while cold. Expose to warmth when germination is complete.
 - (6) Germination of fern spores — sterilize soil medium with boiling water, sow spores and keep moist with plastic or glass. A green film (prothalli) develops in several weeks, followed by baby ferns which can be transplanted when big enough to handle.
 - (7) Germination of orchid seeds requires specialized equipment — consult a reference.

87817.44 (example Collection Number) (W) wild-collected seeds — County, State (or Country) and approx. elevation in feet and/or meters. **JRT** numbers refer to Thompson field colls.

Please check our website, www.alplains.com, for many more seed offerings and latest updates!

- Abronia fragrans** (Nyctaginaceae) (15x12,Z5,P,C,3:4w) 30 seeds / \$3.50
30740.30 (W) Emery Co., UT, 4850ft, 1478m. Masses of white starburst flower clusters on spreading, prostrate plants with succulent, gray, rounded leaves. Nearly continuous bloomer. In pink sand.
- Abronia nana** (10x12,Z5,P,C,3:6w) 30 seeds / \$4.00
58060.10 (W) Emery Co., UT, 6600ft, 2012m. Tight clusters of round, succulent, gray leaves. Typical white star-burst flowers on short scapes. On W-facing hills of sandy clay.
- Abronia villosa v. aurita** (26x80,A,C,3:6w) 18 seeds / \$3.50
90455.10 (W) Riverside Co., CA, 4500ft, 1372m. Umbels of intense violet-magenta emerge seemingly by the hundreds on rambling, sticky herbage.
- Achillea tomentosa** (Asteraceae) (15x20,Z4,P,L,1) 100 seeds / \$3.00
78657.17 (W) Pont d'Ael, SW Alps, 900m. Dense mats of villous leaves sprout flat heads of yellow.
- Adenophora takedae v. howozana** (Campanulaceae) (10x25, Z5, P, L, 3:6w) 80 seeds / \$3.00
78052.18 Terminal racemes of violet-blue, broadly-open bells late in the year on dwarf plants.
- Adenophora triphylla v. japonica nana** (30x15, Z5, P, L, 3:6w) 80 seeds / \$2.50
78747.11 Elliptical, serrate leaves whorled in fours with panicles of nodding blue flowers.
- Aethionema grandiflorum** (Brassicaceae) (14x16,Z5,P,L,2) 40 seeds / \$3.00
32769.07 Similar to *A. schistosum* but slightly larger and the flowers a deep lilac.
- Aethionema schistosum** (14x25, Z4, P, L, 2) 70 seeds / \$2.50
76123.13 This Turkish native is covered with wonderfully fragrant pink spikes in early summer.
- Agastache aurantiaca** (Lamiaceae) (50x20, Z5, P, L, 1) 45 seeds / \$3.50
08740.08 Ex Durango, MX, 9000ft. Bright orange flower spikes over scalloped, grayish-green foliage.
- Agastache breviflora** (40x15,Z6,P,L,1) 90 seeds / \$3.50
10742.17 (W) Cochise Co., AZ, 6900ft, 2104m. Tight, raspberry spikes above dark-green foliage.
- Agastache cana** (80x40, Z4, P, L, 1) 90 seeds / \$2.50
12058.04 Sweet-minty foliage and brilliant purplish-rose flower masses.
- Agastache cusickii** (18x12, Z4, P, L, 3:5w) 60 seeds / \$3.00
12876.14 (W) Custer Co., ID, 7200ft, 2200m. Aromatic, ovate leaves with heads of white/lavender.
- Agastache micrantha** (80x30,Z6,P,L,1) 80 seeds / \$3.00
56412.09 Ex Doña Ana Co., NM, 9000ft. Plants are intensely mint-scented, spikes of tiny flowers.
- Agastache neomexicana** (50x32, Z6, P, L, 1) 80 seeds / \$3.00
58265.01 Dense, bushy, aromatic plants bear nice tight pink flower spikes.
- Agastache occidentalis** (65x35, Z6, P, L, 1) 50 seeds / \$3.00
61212.14 (W) Kittitas Co., WA, 2100ft, 640m. Spikes of violet in early summer, fragrant foliage.
- Agastache rugosa 'Heronswood Strain'** (90x40, Z6, P, L, 1) 50 seeds / \$3.00
74832.04 Deep blue spikes appear from mid-summer into fall over semi-glossy foliage. Korea.
- Agastache rupestris** (50x20, Z5, P, L, 1) 45 seeds / \$3.00
74870.07 Grayish-green aromatic leaves display robust spikes of attractive burnt-orange.
- Agave celsii v. albicans** (Agavaceae) (26x30,Z10,P,C,2) 30 seeds / \$3.00
12254.16 (W) Tuzanapa, Hidalgo, MX. Beautiful ghostly-white, glaucous rosettes of wide leaves.
- Agave chrysantha** (50x70, Z8, P, C, 2) 50 seeds / \$2.50
12357.16 (W) Gila Co., AZ, 4100ft, 1250m. Grayish-green, succulent rosettes with golden yellow fls.
- Agave deserti** (40x50, Z7, P, C, 2) 70 seeds / \$2.50
15276.18 (W) Riverside Co., CA, 4000ft, 1220m. Striking glaucous-gray rosettes.
- Agave difformis** (40x50,Z10,P,C,2) 30 seeds / \$3.00
15430.16 (W) El Tephe, Hidalgo, MX. Stiff green rosettes of long leaves with sinuous margins.
- Agave gracilipes** (25x35, Z7, P, C, 2) 55 seeds / \$3.00
32741.10 (W) Eddy Co., NM, 5750ft, 1753m. Essentially a dwarf form of *A. neomexicana*.
- Agave havardiana** (70x40,Z7,P,C,1) 60 seeds / \$3.00
35090.16 (W) Jeff Davis Co., TX, 6100ft, 1860m. Magnificent rosettes of very broad, blue leaves.

- Agave havardiana** (60x60,Z7,P,C,1) 40 seeds / \$4.00
35090.27 (W) Brewster Co., TX, 5000ft, 1524m. Here in the Glass Mtns, the rosettes show a tendency towards some wonderful blue forms, from blue-green to glaucous, steel-blue.
- Agave lechuguilla** (36x30,Z5,P,C,2) 40 seeds / \$3.00
54212.37 (W) Brewster Co., TX, 4900ft, 1494m. Narrow dagger stems with dark, etched patterning. This collection, from the Glass Mtns, is probably one of the hardiest populations.
- Agave mckelveyana** (14x24, Z7, P, C, 2) 70 seeds / \$2.50
56125.18 (W) Yavapai Co., AZ, 4600ft, 1402m. Dwarf species related to *A. deserti simplex*.
- Agave palmeri** (50x70,Z8,P,C,2) 60 seeds / \$2.50
70056.16 (W) Cochise Co., AZ, 5100ft, 1555m. Glaucous green, banded rosettes with short teeth.
- Agave parryi** (30x50, Z6, P, C, 2) 90 seeds / \$3.00
70074.13 (W) Coconino Co., AZ, 6800ft, 2073m. 8 g. (1000+ seeds) / \$12.00
The hardest population I've found, in coniferous forests near Flagstaff, which experiences considerable wind and cold with drifting and blowing snow during the winter. Rosettes of silver-gray.
- Agave parryi v. couesii** (30x50, Z6, P, C, 2) 90 seeds / \$3.00
70076.15 (W) Yavapai Co., AZ, 5800ft, 1768m. Ash-colored rosettes with variable leaf-edge spines, some almost to the point of being smooth. Such individuals should be labeled as "*f. integrifolia*."
- Agave polyacantha v. xalapensis** (60x50,Z10,P,C,2) 30 seeds / \$3.00
70655.16 (W) Las Vigas, MX. Glaucous, yellowish-green rosettes with fine rows of reddish teeth.
- Agave sobria** (50x60,Z9,P,C,2) 30 seeds / \$3.00
76610.16 (W) Santa Rosalia, BCS. Attractive glaucous-gray rosettes with conspicuous dark bands.
- Agave toumeyana** (10x22, Z7, P, C, 2) 100 seeds / \$2.50
78685.18 (W) Maricopa Co., AZ, 3500ft, 1067m. Dense, thickly-clustering, filiferous rosettes.
- Agave toumeyana ssp. bella** (8x16, Z7, P, C, 2) 100 seeds / \$3.50
78686.10 (W) Gila Co., AZ, 5000ft, 1524m. Beautiful rosettes, the lower leaf half is denticulate.
- Agave utahensis v. eborispina** (20x30, Z7, P, C, 2) 100 seeds / \$3.00
87804.11 (W) Clark Co., NV, 4000ft, 1220m. Long (to 4") apical spines and ivory teeth.
- Agave utahensis v. kaibabensis** (20x24,Z6,P,C,2) 70 seeds / \$3.50
87806.10 (W) Coconino Co., AZ, 5100ft, 1555m. Robust rosettes covered with blunt teeth and very long flowering stalks, often 15 to 20 feet tall.
- Agave utahensis v. nevadensis** (14x24,Z7,P,C,2) 100 seeds / \$3.50
87807.20 (W) San Bernadino Co., CA, 5100ft, 1555m. Smaller rosettes compared to *A. utahensis v. eborispina* with 2"-3" apical spines and 4 to 5 foot tall spikes bearing greenish-yellow flowers.
- Aletes humilis** (Apiaceae) (3x12,Z4,P,C,4:12w) 40 seeds / \$5.00
35856.18 (W) Boulder Co., CO, 8500ft, 2590m. Mounding buns of cut aromatic foliage cover themselves with yellow button flowers. Similar to *Shoshonea pulvinata*, but with larger leaves.
- Allium acuminatum** (Liliaceae) (20x6,Z5,C,L,3:8w) 100 seeds / \$3.50
01285.28 (W) Wallowa Co., OR, 4600ft, 1402m. Bright violet-lavender heads about 2 inches in diameter here clambering on the canyon walls of Hells Canyon.
- Allium amplexans** (16x16,Z6,P,C,3:8w) 70 seeds / \$3.50
05671.12 (W) Josephine Co., OR, 1400ft, 427m. Multiple heads of starry, pale pink florets on reddish stems. Frequents the stony red soils of the Illinois Valley.
- Allium atrorubens v. cristatum** (4x8,Z6,P,C,3:8w) 30 seeds / \$3.50
07871.10 (W) Inyo Co., CA, 5700ft, 1738m. Pale pink umbels lying on desert granite sands.
- Allium atroviolaceum** (80x18,Z5,P,C,3:8w) 60 seeds / \$3.50
07875.09 Ex Namrud, Elborz, Iran, 2100m. Dense, 3"-diameter umbels of dark violet flowers.
- Allium bisceptrum** (12x10,Z5,P,C,3:8w) 30 seeds / \$3.50
10476.15 (W) Mono Co., CA, 8500ft, 2591m. Flowers not seen here but this is the only *Allium* reported from this area. Flowers should be rosy-purple.
- Allium brandegei** (8x10,Z4,P,L,3:8w) 75 seeds / \$4.00
10744.18 (W) Owyhee Co., ID, 5800ft, 1768m. Over a few curling, wide leaves are borne several two-inch-wide heads of white to pink flowers. Growing in fractured basalt loam.

- Allium cernuum** (24x20,Z6,P,C,3:8w) 50 seeds / \$3.50
12275.12 (W) Tillamook Co., OR, 1630ft, 497m. Unlike many of the Alliums I offer, this species produces full clumps of flattened leaves, over which several pendulous heads sway. The lavender-pink flowers sport greatly exerted stamens. On steep volcanic cliffs.
- Allium cratericola** (3x9,Z5,P,C,3:8w) 70 seeds / \$4.00
12740.21 (W) Trinity Co., CA, 3650ft, 1113m. Dense umbels containing 30 to 40 pink, bell-shaped flowers atop a few narrow, channeled leaves. On exposed, W-facing serpentine slopes. Beautiful.
- Allium cristophii** (12x16,Z5,P,C,3:8w) 25 seeds / \$4.00
12744.09 Ex Kandovan, Elborz, Iran, 2300m. Rose umbels over 4" in diameter on thick stems.
- Allium falcifolium** (7x12,Z6,P,C,3:6w) 50 seeds / \$3.50
30054.10 (W) Josephine Co., OR, 2700ft, 823m. Over 2 strapping leaves arise large, round, short-stemmed heads up to 3" across of amethyst flowers with acuminate petals. On S-facing serpentine.
- Allium karataviense** (28x20,Z5,P,C,3:8w) 40 seeds / \$3.50
52075.07 Over two long and wide, gray-blue leaves erupt stout stems bearing globular heads of lavender-gray flowers. Handsome sp. from Turkestan.
- Allium macropetalum** (9x10,Z5,P,C,3:8w) 40 seeds / \$3.50
56014.38 (W) Grand Co., UT, 4400ft, 1341m. Umbels of white/pale pink, petals with purple midveins.
- Allium obtusum v. obtusum** (4x12,Z5,P,C,3:8w) 70 seeds / \$4.00
61091.11 (W) Mendocino Co., CA, 5900ft, 1800m. A higher-altitude version of *A. cratericola*. Multiple pale pink / white sessile umbels nest atop a few channeled leaves. Outstanding. Serpentine.
- Allium parvum** (5x7,Z4,P,L,3:6w) 50 seeds / \$3.00
30456.18 (W) Blaine Co., 6700ft, 2043m. The tiniest Allium with heads of violet. Was listed as *Allium sp.* (*Galena, ID*).
- Allium robinsonii** (2x9,Z6,P,C,3:8w) 30 seeds / \$4.00
74610.12 (W) Kittitas Co., WA, 775ft, 236m. Darling miniature with heads of long-tubed, raspberry-pink flowers over a few narrow, strapping leaves. Growing in volcanic sand.
- Allium simillimum** (2x5,Z3,P,C,3:8w) 60 seeds / \$4.00
76456.10 (W) Blaine Co., ID, 8800ft, 2683m. Prostrate, glacier-white flowers over thready leaves.
- Allium siskiyouense** (5x9,Z5,P,C,3:8w) 70 seeds / \$4.00
76476.41 (W) Siskiyou Co., CA, 6100ft, 1860m. Sessile umbels of deep rose-pink to magenta flowers over two narrow, falcate leaves. A dwarf version of *A. falcifolium* growing on high ridge crests.
- Allium sp. (Illinois Valley, OR)** (26x12,Z6,P,C,3:8w) 60 seeds / \$3.50
10654.12 (W) Josephine Co., OR, 1400ft, 427m. Heads of white flowers with green midribs. Too dissimilar to be *A. bolanderi*. I did find herbarium records matching this species but were not named.
- Allium tribracteatum** (2x6,Z7,P,C,3:8w) 50 seeds / \$4.00
78763.11 (W) Tuolumne Co., CA, 5400ft, 1646m. An exceptionally dwarf Allium with pale pink to purplish-pink flowers in small heads. Best effect en masse.
- Aloinopsis luckhoffii** (Aizoaceae) (5x9, Z9, P, L, 1) 100 seeds / \$3.00
54812.10 Ex Boonstevlei. Flowers often two-toned, peachy-yellow to apricot.
- Aloinopsis malherbei** (6x8, Z9, P, L, 1) 70 seeds / \$3.00
56054.00 Tufts of scalloped leaves with whitish bumps. Flowers in peach, apricot and tangerine.
- Aloinopsis orpenii** (6x9, Z9, P, L, 1) 60 seeds / \$3.00
67470.10 Ex E Kuruman. Bluish-olive leaves with large bright yellow flowers.
- Aloinopsis peersii** (5x12,Z7,P,L,1) 30 seeds / \$3.00
70227.09 Thick, flattened, brownish leaves give rise to big, thick-sepaled buds opening to golden-yellow flowers. Has a long bloom period starting in mid-spring.
- Aloinopsis rosulata** (4x9, Z9, P, L, 1) 70 seeds / \$3.00
74676.10 Pug-like foliage with yellow flowers sporting midline stripes.
- Aloinopsis rubrolineata** (5x8, Z9, P, L, 1) 40 seeds / \$3.00
74810.10 Ex Graaff-Reinet. Olive-green tongues bear pale yellow flowers, petals maroon-striped.
- Aloinopsis schooneesii** (6x10, Z9, P, L, 1) 50 seeds / \$3.00
76124.14 Plants resemble cobblestones. Small midline-striped flowers.

- Aloinopsis setifera** (4x9, Z9, P, L, 1) 50 seeds / \$3.00
76278.10 Finely-tubercled leaves with tiny sparse white teeth. Pale primrose flowers.
- Aloinopsis spathulata** (3x30,Z4,P,L,1) 60 seeds / \$3.50
76700.08 Mats of thick, blue, flattened leaves produce huge magenta flowers prolifically.
- Amorpha canescens** (Fabaceae) (70x40, Z4, P, SC, 1) 50 seeds / \$2.50
12059.13 Herbaceous shrublets with long spikes of shimmering purple and orange pea-blossoms.
- Amorpha nana** (40x60, Z4, P, SC, 1) 50 seeds / \$3.00
58058.17 (W) Boulder Co., CO, 5800ft, 1768m. Small olive-green shrublets with blue-violet spikes.
- Amsonia eastwoodiana** (Apocynaceae) (35x50,Z5,P,C,1) 40 seeds / \$3.50
20767.19 (W) Garfield Co., UT, 4650ft, 1418m. Multitudes of decumbent stems radiate from a central rootstalk clothed with linear, glabrous leaves. Multiple clusters of pale-blue, tubular flowers.
- Amsonia elliptica** (40x15,Z5,P,C,3:8w) 40 seeds / \$3.50
25454.00 Elliptical leaves on erect stems and clusters of pale blue flowers, darkening to deep blue in the throat. Occurs in China and Japan.
- Amsonia fugatei** (40x50, Z6, P, L, 3:8w) 60 seeds / \$3.00
30832.15 (W) Socorro Co., NM, 5000ft, 1524m. White flowers shading to a brownish throat with iridescent purple tubes. Lanceolate leaves cover a forest of erect stems. Growing in sandy soil.
- Amsonia jonesii** (50x60,Z4,P,L,3:8w) 55 seeds / \$3.50
50659.25 (W) Duchesne Co., UT, 6100ft, 1860m. Mature specimens bear 50 to 100 upright stems lined with elliptical leaves of a deep, soft green. Heads of pale blue, long-tubed flowers.
- Amsonia peeblesii** (50x50,Z5,P,C,3:6w) 15 seeds / \$4.50
70221.70 (W) Coconino Co., AZ, 4700ft, 1433m. Mature plants are bright green due to the shining narrow leaves on scores of stems from a woody crown. White corolla lobes shade to tubes of purple.
- Amsonia tharpaii** (35x16, Z7, P, C, 2) 60 seeds / \$3.00
78350.15 (W) Eddy Co., NM, 3100ft, 945m. Long, linear, falcate leaves, appearing overall like feathery spirals. Flowers not seen here but are reportedly white. Growing in calcareous rubble.
- Androsace chamaejasmae ssp. carinata** (Primulaceae) (4x15,Z3,P,L,3:8w) 90 seeds / \$3.50
12352.22 (W) Teller Co., CO, 12000ft, 3658m. Small mats of tiny, hairy rosettes bear numerous white, yellow-eyed flowers fading to rose. Grows in exposed alpine tundra on a granite substrate.
- Androstephium breviflorum** (Liliaceae) (9x6,Z5,P,CE,3:8w) 30 seeds / \$3.50
10743.28 (W) Grand Co., UT, 4400ft, 1341m. (= *Brodiaea breviflora*.) Few-flowered umbels of pale purple flowers, veined blue-purple.
- Anemone baldensis** (Ranunculaceae) (18x12,Z6,P,L,3:6w) 40 seeds / \$3.50
10054.11 (W) Dolomites, Italy, 7200ft, 2200m. Finely-lobed tufts sprout numerous white-petalled flowers, sometimes tinged pale pink or violet.
- Anemone drummondii** (Ranunculaceae) (6x10,Z5,P,L,3:8w) 100 seeds / \$4.00
15748.41 (W) Mono Co., CA, 9650ft, 2942m. Exquisite, multi-petaled white flowers, colored glacial blue on the petal reverses, erupt early in spring over dwarf mounds of dissected, hairy foliage.
- Anemone occidentalis** (40x15,Z4,P,C,3:8w) 90 seeds / \$3.50
61213.22 (W) Yakima Co., WA, 5500ft, 1677m. Bold clumps of lacinate foliage produce bowl-shaped creamy flowers. The silky seedheads look like woolly mops 3" to 4" long. On volcanic soils.
- Anemone oregana** (18x15,Z6,C,4:8w) 50 seeds / \$4.00
67423.12 (W) Chelan Co., WA, 2950ft, 900m. Gorgeous sky-blue to deep-blue flowers over palmately-divided leaves, each segment with small teeth. In the shade of conifers on volcanic loam.
- Anemone tuberosa** (20x8,Z7,P,C,3:8w) 50 seeds / \$3.50
78810.10 (W) Maricopa Co., AZ, 2300ft, 701m. Flowers not seen here but are typically in cream to pink shades over lacy foliage.
- Anemonopsis macrophylla** (Ranunculaceae) (50x30,Z6,P,GL,4:8w) 30 seeds / \$3.00
56012.07 Large, incised, ternate leaves with nodding, pale pinkish-purple to rose-colored flowers.
- Angelica grayi** (Apiaceae) (20x18,Z3,P,L,2) 50 seeds / \$3.00
32742.16 (W) Park Co., CO, 12400ft, 3780m. White umbels of capitate flower clusters in summer.

- Angelica roseana** (65x35,Z4,P,C,3:8w) 70 seeds / \$3.50
74679.12 (W) Sheridan Co., WY, 9200ft, 2805m. Thousands of white to pinkish florets in huge compound umbels over pinnate foliage. Alpine gullies in limestone substrate.
- Aquilegia barnebyi** (Ranunculaceae) (40x18,Z4,P,L,3:5w) 100 seeds / \$4.00
10074.21 (W) Garfield Co., CO, 7270ft, 2216m. The butter-yellow corollas contrast beautifully with the peachy-pink sepals over bold blue foliage. Growing on limestone deposits near running water.
- Aquilegia caerulea** (40x30, Z3, P, L, 3:4w) 100 seeds / \$2.50
12029.66 (W) Gunnison Co., CO, 12100ft, 3689m. Classic white sepals, deep sky-blue corollas.
- Aquilegia caerulea** (45x32,Z4,P,L,3:4w) 100 seeds / \$2.50
12029.58 (W) Boulder Co., CO, 8100ft, 2470m. Even more robust form here, on mesic meadows.
- Aquilegia caerulea v. ochroleuca** (40x30,Z3,P,L,3:4w) 100 seeds / \$3.00
12027.20 (W) Iron Co., UT, 11050ft, 3369m. Large, pure white, long-spurred flowers. Volcanic rock.
- Aquilegia flabellata v. pumila fl. pl.** (15x12,Z4,P,L,3:4w) 40 seeds / \$4.00
30539.00 Blue and white semi-double flowers over waxy, blue-green, fan-shaped leaves. Japan.
- Aquilegia flabellata v. pumila 'Rosea'** (15x12,Z4,P,L,3:4w) 40 seeds / \$4.00
30540.00 Lovely rosy-pink and cream flowers adorn dwarf tufts of waxy, blue-green leaves. Japan.
- Aquilegia flavescens** (50x22,Z3,P,L,3:6w) 100 seeds / \$4.00
30530.51 (W) Park Co., WY, 9400ft, 2866m. A hardier version of the yellow-flowered *A. chrysantha*, although the sepals and spurs tend to be more creamy-yellow. Partially shaded subalpine slopes.
- Aquilegia formosa** (75x30,Z5,P,L,3:6w) 100 seeds / \$3.50
30674.32 (W) Josephine Co., OR, 5450ft, 1662m. Exceptionally vigorous form here with numerous, well-branched stems and many red and yellow flowers with short, straight spurs. N-facing slopes.
- Aquilegia jonesii** (6x12,Z3,P,GL,3:6w) 100 seeds / \$4.50
50658.21 (W) Sheridan Co., WY, 10100ft, 3080m. A classic alpine species with gorgeous royal-blue flowers and powder-blue foliage. Forms tufted mounds on limestone rubble. A challenge to cultivate.
- Aquilegia laramiensis** (16x12,Z4,P,L,3:4w) 45 seeds / \$4.00
54074.11 (W) Albany Co., WY, 7800ft, 2378m. A rare species with pretty, dainty white flowers.
- Aquilegia X micrantha** (30x24,Z6,P,L,3:6w) 75 seeds / \$3.50
56413.35 (W) Montrose Co., CO, 5100ft, 1555m. The viscid leaves are pure *A. micrantha* but the flowers reflect influence from probably *A. elegantula*, yellow corollas and pink to peachy-red spurs.
- Aquilegia pyrenaica** (20x16,Z5,P,L,3:6w) 40 seeds / \$3.50
70968.09 Deep blue to lilac-blue flowers with straight spurs. A dwarf version of *A. alpina*.
- Aquilegia saximontana** (8x15,Z3,P,L,3:6w) 20 seeds / \$4.50
76094.12 (W) Boulder Co., CO, 11300ft, 3445m. Blue and white flowers with short spurs over blue-green tufts. Grows in sheltered areas between and under large granite rocks. A rare endemic of the Front Range in Colorado. Limited quantities this year.
- Aquilegia scopulorum** (12x15,Z4,P,GL,3:6w) 60 seeds / \$5.00
76128.31 (W) Piute Co., UT, 10950ft, 3338m. Beautiful dwarf with tight, glaucous, gray-green foliage and large, long-spurred, bi-colored flowers of blue and white. On E-facing scree of dolomite.
- Arabis lemmonii** (Brassicaceae) (7x12,Z4,P,L,3:6w) 60 seeds / \$4.00
54258.18 (W) Park Co., WY, 10650ft, 3247m. Rosettes of spatulate leaves bear sprays of pink fls.
- Arbutus menziesii** (Ericaceae) (600x350, Z8, P, L, 3:10w) 30 seeds / \$3.00
56258.14 (W) Siskiyou Co., CA, 1500ft, 457m. Attractive trees with smooth, dark pink bark and large, shiny green leaves. Pink flowers are followed by orange-red berries. Northern coastal ranges.
- Arbutus texana** (450x300, Z7, P, L, 1) 30 seeds / \$3.00
78294.24 (W) Eddy Co., NM, 5500ft, 1677m. Distinctive trees with smooth, pinkish-cinnamon, exfoliating bark and shiny, elliptical leaves. White, urn-shaped fls. followed by bright orange berries.
- Arctomecon californica** (Papaveraceae) (40x18,Z7,P,GL,4:6w) 100 seeds / \$5.00
12050.21 (W) Clark Co., NV, 2080ft, 634m. Turquoise blue and green rosettes clothed with long, silky white hairs. Corymbs of golden poppies. A difficult genus, this species and the next are probably best suited for the alpine house.
- Arctomecon merriamii** (35x22, Z7, P, GL, 4:6w) 80 seeds / \$4.00
56274.45 (W) Clark Co., NV, 4650ft, 1418m. Pure white poppy-like flowers. Bristly, blue rosettes.

- Arctostaphylos canescens** (Ericaceae) (100x100,Z6,P,SC,4:8w) 100 seeds / \$3.50
12060.22 (W) Josephine Co., OR, 3320ft, 1012m. New growth is silvery due to silky hairs on the ovate, blue-green leaves. Deep cinnamon-red, smooth bark and pendulous, tomentose, pink inflorescences, followed by clusters of red berries.
- Arctostaphylos coloradensis** (16x100,Z4,P,SC,4:8w) 90 seeds / \$4.00
12654.18 (W) Mesa Co., CO, 8000ft, 2439m. A handsome hybrid swarm of *A. patula*, *A. nevadensis* and *A. uva-ursi*. This seed collected from the dwarfest colonies, but expect variable progeny.
- Arctostaphylos columbiana** (175x120, Z6, P, SC, 4:8w) 90 seeds / \$2.50
12655.14 (W) Humboldt Co., CA, 3000ft, 915m. Stems and leaves are white-bristly. Maroon berries.
- Arctostaphylos glandulosa** (180x120,Z6,P,SC,4:8w) 70 seeds / \$3.50
32548.30 (W) Riverside Co., CA, 6000ft, 1829m. Viscid shrubs with blue-green leaves and masses of pendant pink urns. Beautiful in full bloom.
- Arctostaphylos manzanita** (200x140, Z7, P, SC, 4:8w) 90 seeds / \$2.50
56058.14 (W) Siskiyou Co., CA, 2200ft, 670m. Cinnamon bark, blue-green leaves, purplish berries.
- Arctostaphylos nevadensis** (25x300,Z4,P,SC,4:8w) 90 seeds / \$4.00
58290.15 (W) Siskiyou Co., CA, 7100ft, 2165m. Masses of pendant pink flowers in late spring.
- Arctostaphylos patula** (90x120,Z4,P,SC,4:8w) 90 seeds / \$3.50
70078.18 (W) Uintah Co., UT, 8150ft, 2485m. Contorted branches with cinnamon-red bark and thick, leathery green leaves bear multitudes of pendant flower clusters of ericaceous pink.
- Arctostaphylos pringlei** (150x180,Z5,P,SC,4:8w) 70 seeds / \$3.50
70749.10 (W) Coconino Co., AZ, 6900ft, 2104m. Rounded shrubs with blue-green leaves create an arresting display in full bloom. The inflorescences are apple-blossom pink and glandular-hairy.
- Arctostaphylos pungens** (180x120,Z6,P,SC,4:8w) 90 seeds / \$3.50
70858.29 (W) Washington Co., UT, 4800ft, 1465m. Similar to *A. patula* but about twice as tall and more heat and drought tolerant.
- Arctostaphylos sp. (plum berries)** (180x130, Z7, P, SC, 4:8w) 90 seeds / \$2.50
56292.14 (W) Plumas Co., CA, 3300ft, 1006m. Blue-green leaves with plum-red berries.
- Arctostaphylos sp. (black berries)** (150x140,Z6,P,SC,4:8w) 90 seeds / \$3.00
56059.15 (W) Siskiyou Co., CA, 4750ft, 1448m. Large shrubs with dark purple-black berries.
- Arenaria hookeri v. desertorum** (Caryophyllaceae) (2x20,Z4,P,L,2) 90 seeds / \$4.00
35665.38 (W) Uintah Co., UT, 7550ft, 2302m. Exceptionally tight green cushions with micro-fine needle (acerose) foliage. Covered with dense, flat-topped cymes of white flowers in early summer.
- Arenaria ledebouriana** (10x15,Z5,P,L,3:8w) 100 seeds / \$3.50
54216.00 Silver-gray, evergreen hummocks with starry, white flowers in summer.
- Arenaria nuttallii** (7x28,Z5,P,L,3:6w) 90 seeds / \$3.50
58878.18 (W) Malheur Co., OR, 3200ft, 976m. Phlox-like cushions of ropy stems covered with acerose foliage and white, starry flowers. On W-facing, tuff-ash slopes.
- Arenaria obtusiloba** (3x16,Z3,P,L,3:6w) 90 seeds / \$3.50
61078.31 (W) Park Co., CO, 12000ft, 3692m. Caespitose, flat mats of needle-like leaves. White flowers on short stems cover the cushions in early summer.
- Argemone hispida** (Papaveraceae) (50x30, Z3, P, C, 4:6w) 50 seeds / \$3.50
35476.17 (W) Albany Co., WY, 7100ft, 2165m. Blue, bristly leaves and large, white poppy flowers.
- Argemone sanguinea** (55x35,Z10,A/B/P,L,1) 100 seeds / \$3.50
76058.10 (W) Frio Co., TX, 550ft Very prickly plants with numerous flowers in rose, lavender, pink.
- Arisaema japonicum** (Araceae) (80x40,Z5,P,C,4:8w) 20 seeds / \$5.00
50070.30 (W) Mino Region, Japan, 70m. From a thick, underground tuber sprouts a single, huge, palmately-divided leaf. Flowers are borne on a club-shaped spadix surrounded by a dark-colored spathe all overhung by a very long tapering blade.
- Artemisia arctica ssp. saxicola** (Asteraceae) (28x16,Z3,P,L,1) 100 seeds / \$3.00
07412.29 (W) Boulder Co., CO, 10800ft, 3293m. Dissected, hairy foliage unfurl nodding heads of yellow-green, the phyllaries (bracts) boldly dark-edged.
- Artemisia filifolia** (80x60,Z4,P,L,1) 100 seeds / \$3.00
30454.26 (W) Lincoln Co., CO, 5300ft, 1616m. Shrubs with silvery-green, thready leaves.

- Artemisia frigida** (15x30,Z3,P,L,1) 100 seeds / \$2.50
30744.27 (W) Park Co., CO, 9800ft, 2988m. Condensed mats of incised silver-gray.
- Artemisia michauxiana** (22x24,Z4,P,L,1) 100 seeds / \$3.50
56414.18 (W) Carbon Co., MT, 9200ft, 2805m. Strongly-aromatic mats of irregularly-incised, emerald-green leaves. On high montane granite screes.
- Artemisia spinescens** (10x14,Z4,P,L,2) 70 seeds / \$4.00
76705.49 (W) Sweetwater Co., WY, 6700ft, 2043m. (= *Picrothamnus desertorum*.) Dense, spiny shrublets with pale green, finely-pedatifid, hairy leaves. The "spines" are marcescent flowering stems.
- Asarum caudatum** (Aristolochiaceae) (6x20,Z6,P,L,4:12w) 30 seeds / \$4.00
12081.11 (W) Linn Co., OR, 4600ft, 1402m. Unmarbled, deep green leaves with sparse, short hairs and fragrant of ginger spice. Maroon flowers with long tapering lobes.
- Asarum hartwegii** (12x30,Z6,P,L,4:12w) 60 seeds / \$5.00
35074.32 (W) Siskiyou Co., CA, 5170ft, 1576m. The large, lush, evergreen leaves are generously veined with silver. Maroon-striped, basal flowers with short tapering lobes. In the shade of conifers at the highest elevation I have ever seen for this species.
- Asarum marmoratum** (10x30,Z6,P,L,4:12w) 40 seeds / \$5.00
56075.22 (W) Josephine Co., OR, 3500ft, 1067m. Evergreen leaves generously marbled with paler green and silver and are fragrant of ginger spice. Red-brown, basal flowers with long, tapering lobes.
- Asclepiadaceae sp.** (250x150,Z7,P,C,3:6w) 40 seeds / \$3.00
10254.17 (W) Llano Co., TX, 2100ft, 640m. Very wiry, prickly stems with attractive heart-shaped leaves flecked with darker green. Chunky seed pods about 4" long and 2" wide. Flowers not seen.
- Asclepias asperula** (Asclepiadaceae) (42x30,Z4,P,C,3:6w) 30 seeds / \$3.50
07670.20 (W) Cache Co., UT, 4800ft, 1463m. Large, broadly-lanceolate leaves are in opposite pairs on the many thick stems which support umbels of yellowish-green and deep purple flowers.
- Asclepias cordifolia** (50x35,Z7,P,CE,3:6w) 40 seeds / \$3.50
12675.21 (W) Tuolumne Co., CA, 5400ft, 1646m. The stems and the heart-shaped leaves are all deep wine-purple in color and bear umbels of purple flowers with pinkish coronas. In volcanic scoria.
- Asclepias cryptoceras** (20x24,Z5,P,SL,4:4w) 20 seeds / \$5.00
12749.11 (W) Carbon Co., UT, 5650ft, 1720m. Large, striking flowers of purplish-maroon coronas and reflexed cream petals in pendant cymes. Found on S-facing slopes of sandy-clay soil.
- Asclepias cryptoceras** (7x12,Z4,P,SCE,4:6w) 20 seeds / \$5.00
12749.79 (W) Lander Co., NV, 6800ft, 2073m. Dwarfier plants with roundish leaves more cupped than the typical forms I see in Utah and Colorado. Typical purple and cream flowers.
- Asclepias eriocarpa** (55x26,Z6,P,CE,3:6w) 50 seeds / \$3.50
27446.20 (W) San Diego Co., CA, 4800ft, 1463m. The large, ovate leaves are covered with a fine layer of wool and the cream-colored flower clusters are sometimes tinted pink to pale purple.
- Asclepias hallii** (50x100, Z4, P, C, 3:6w) 75 seeds / \$3.50
35054.13 (W) Saguache Co., CO, 7800ft, 2378m. Huge flower balls of cream and pale purple-pink.
- Asclepias latifolia** (40x18,Z4,P,C,3:6w) 50 seeds / \$3.00
54078.27 (W) Washington Co., CO, 4750ft, 1448m. Wide, shining leaves; green and yellow flowers.
- Asclepias solanoana** (6x35,Z6,P,SCE,4:6w) 30 seeds / \$4.00
76654.16 (W) Trinity Co., CA, 4850ft, 1478m. Several trailing stems radiate from a caudex, each bearing flower umbels of reflexed purple corollas and tan-yellow hoods. Wavy, olive-green leaves.
- Asclepias tuberosa** (50x30,Z5,P,C,3:6w) 25 seeds / \$3.50
78811.07 Ex Montrose Co., CO, 6100ft, 1860m. Yellow-orange to orange flower heads.
- Aster alpigenus v. haydenii** (Asteraceae) (6x7,Z3,P,C,1) 50 seeds / \$3.50
05475.22 (W) Big Horn Co., WY, 9650ft, 2942m. Very narrow, thready foliage from a central root-stalk. Striking deep lavender-blue daisies in mid-summer. Growing on fractured limestone rock.
- Aster alpinus v. vierhapperi** (6x8, Z3, P, C, 1) 50 seeds / \$3.00
05471.14 (W) Gilpin Co., CO, 11360ft, 3463m. Hairy rosettes produce nice deep-lavender flowers.
- Aster coloradoensis** (5x12,Z3,P,L,1) 40 seeds / \$3.50
12656.27 (W) Hinsdale Co., CO, 10100ft, 3079m. Low tufts of serrated leaves produce luminous pink flowers. This population growing in the gravelly loam of a rolling montane meadow.

- Aster scopulorum** (6x15,Z5,P,L,3:4w) 40 seeds / \$3.50
76126.45 (W) Mono Co., CA, 8000ft, 2439m. Mats of stems with fir-like leaves and violet flowers.
- Astragalus alpinus** (Fabaceae) (10x18,Z3,P,SC,1) 40 seeds / \$3.50
05476.18 (W) Big Horn Co., WY, 9500ft, 2896m. Small carpets of green, pinnate leaves bear lax spikes of white/pale lavender flowers. On fractured limestone.
- Astragalus amphioxys v. vespertinus** (8x10,Z5,P,SC,1) 40 seeds / \$4.00
05670.28 (W) Mesa Co., CO, 4800ft, 1463m. Several large, purple-pink flowers are borne on short, erect stems which recline as the pods mature. Tufts of silver-hairy, pinnate leaves. On sandy clay.
- Astragalus asclepiadoides** (16x10,Z5,P,SC,1) 40 seeds / \$2.50
07612.25 (W) Montrose Co., CO, 6000ft, 1830m. Intriguing, more like an Asclepiad than Astragalus. Fleshy, broad leaves clasp the stems, diminishing in size up to the apical purplish-pink flowers.
- Astragalus barrii** (8x20,Z4,P,SC,1) 50 seeds / \$3.50
10075.18 (W) Johnson Co., WY, 4750ft, 1450m. Silver cushions with two-toned rosy-pink flowers.
- Astragalus calycosus** (4x10,Z4,P,SC,1) 40 seeds / \$3.00
12054.33 (W) Inyo Co., CA, 7300ft, 2225m. Small, pale purple flowers are followed by curved pods. Rounded, loose hummocks of chalky, pinnate foliage.
- Astragalus ceramicus v. filifolius** (20x8,Z4,P,SC,1) 40 seeds / \$3.50
12274.27 (W) San Miguel Co., CO, 6000ft, 1829m. Clusters of red-mottled pods like birds' eggs.
- Astragalus chamaeleuce** (4x7,Z5,P,SC,1) 30 seeds / \$3.50
12351.68 (W) Duchesne Co., UT, 5400ft, 1646m. Tufts of silver-gray, pinnate foliage and purple-pink flowers with a white splotch on the banner.
- Astragalus chloodes** (16x20,Z5,P,SC,1) 50 seeds / \$3.50
12355.21 (W) Uintah Co., UT, 5300ft, 1616m. A most unusual astragalus with magenta racemes over stiff clumps of grassy foliage. On sandstone ridges.
- Astragalus coccineus** (9x9,Z7,P,SC,1) 30 seeds / \$5.00
12610.81 (W) Riverside Co., CA, 4000ft, 1220m. Fabulous racemes of scarlet. The pinnate leaves and the large horned pods are covered with short, white, velvety hairs. On hills of dolomite.
- Astragalus cymboides** (2x5,Z5,P,SC,1) 40 seeds / \$3.00
12965.15 (W) Emery Co., UT, 7000ft, 2134m. Tufts of pinnate, silvery leaves and purplish pea-fls.
- Astragalus detritalis** (12x10, Z4, P, SC, 1) 40 seeds / \$3.00
15278.13 (W) Duchesne Co., UT, 5400ft, 1645m. Racemes of magenta over tufts of silver-gray.
- Astragalus iodanthus** (10x30,Z4,P,SC,1) 40 seeds / \$3.50
46150.19 (W) Eureka Co., NV, 6600ft, 2012m. Ample, green, pinnate leaves spread from a central crown and bear heads of dark violet to lavender blossoms, each with a white patch on the banner.
- Astragalus iodopetalus** (8x16,Z5,P,SC,1) 40 seeds / \$4.00
46156.22 (W) Archuleta Co., CO, 6560ft, 2000m. Lavender flowers with a prominent white blotch on the banner fade to iodine-stained blue. Luxurious, arching, pinnate leaves.
- Astragalus kentrophyta v. tegetarius** (1x15,Z3,P,SC,1) 15 seeds / \$4.50
52258.22 (W) Big Horn Co., WY, 9550ft, 2912m. This alpine form is perhaps the best of this wide-spread taxon. Blue-gray, prostrate mats of tiny, prickly leaves and sessile, purple flowers. Limestone.
- Astragalus loanus** (4x8,Z5,P,SC,1) 20 seeds / \$5.00
54605.11 (W) Sevier Co., UT, 6500ft, 1982m. Creamy-yellow and lavender flowers are followed by hairy, inflated pods. Tufts of silver, trifoliate leaves. An elegant plant on W-facing, shale slopes.
- Astragalus megacarpus** (10x16, Z4, P, SC, 3:6w) 30 seeds / \$3.00
56232.15 (W) Sevier Co., UT, 6350ft, 1935m. Huge, red-mottled, basal pods up to 4" long!
- Astragalus mollissimus v. thompsoniae** (12x15,Z5,P,SC,1) 40 seeds / \$3.50
56654.68 (W) San Juan Co., UT, 5250ft, 1600m. Long racemes of deep purple flowers, shading lighter on inside of banner. Felty-hairy, long-pinnate leaves. In deep, pink, sandy soils.
- Astragalus naturitensis** (12x18,Z5,P,SC,1) 40 seeds / \$3.50
58078.17 (W) San Miguel Co., CO, 6000ft, 1829m. An uncommon sp. with tufts of pinnate leaves and spikes of small flowers, the banners cream and the wings and keel lavender. In sandy soil.
- Astragalus neglectus** (80x50,Z4,P,SC,1) 40 seeds / \$3.50
58232.02 A shrubby Astragalus with creamy-white blossoms over pinnate foliage. Native to the northern midwestern states, from the Dakotas to Wisconsin.

Astragalus newberryi (7x15,Z4,P,SC,1)	40 seeds / \$3.50
58293.60 (W) Elko Co., NV, 6300ft, 1921m. Large purple-pink to magenta flowers with white lines inside the banner over woolly, silvery-white cushions. On stony loam of sagebrush meadows.	
Astragalus newberryi v. castoreus (3x7,Z4,P,SC,1)	30 seeds / \$4.00
58292.41 (W) Lander Co., NV, 7740ft, 2360m. Dwarfier, woollier plants here growing on rhyolite.	
Astragalus purshii v. concinnus (4x9,Z4,P,SC,1)	30 seeds / \$4.00
70872.68 (W) Butte Co., ID, 6500ft, 1982m. Short racemes of bright lavender and white flowers.	
Astragalus purshii v. lectulus (5x20,Z5,P,SC,1)	40 seeds / \$3.50
70874.25 Mono Co., CA, 6900ft, 2104m. Spectacular short racemes of purple-lilac over silver tufts.	
Astragalus purshii v. tinctus (6x24,Z5,P,SC,1)	40 seeds / \$3.50
70875.26 (W) Mendocino Co., CA, 5600ft, 1707m. Purple flowers on woolly, blue-silver mats.	
Astragalus saurinus (40x30,Z4,P,SC,1)	30 seeds / \$4.00
76087.18 (W) Uintah Co., UT, 5550ft, 1692m. Succulent shrublets, large racemes of magenta and white blossoms. On W-facing, crumbling, red sandstone slopes.	
Astragalus sericoleucus (2x16,Z4,P,SC,1)	20 seeds / \$4.00
76275.17 (W) Weld Co., CO, 5900ft, 1800m. Woolly, silver mats with small pink-purple blossoms.	
Astragalus succumbens (9x24, Z6, P, SC, 1)	45 seeds / \$3.00
76812.10 (W) Grant Co., WA, 700ft, 213m. Spectacular pink and lavender flowers on lax stems.	
Astragalus uncialis (3x5, Z5, P, SC, 1)	25 seeds / \$4.00
85812.15 (W) Millard Co., UT, 4800ft, 1463m. Silvery-gray tufts bear relatively large violet flowers.	
Astragalus utahensis (10x14, Z4, P, SC, 1)	40 seeds / \$3.50
87803.35 (W) Juab Co., UT, 4900ft, 1495m. Cottony mounds with racemes of large rosy-pink fls.	
Astragalus zionis (12x18,Z5,P,SC,1)	18 seeds / \$4.00
98465.19 (W) Kane Co., UT, 4900ft, 1494m. Purple/pink/white fls. on tufts with marcescent spines.	
Atriplex hymenelytra (Chenopodiaceae) (60x100,Z7,P,C,3:6w)	80 seeds / \$3.50
35965.11 (W) Clark Co., NV, 1700ft, 518m. "Desert Holly." Dioecious, glistening shrubs due to the crystalline-like, silvery-green, holly-shaped leaves. Very early bloomer with pendant chains of papery seed pods by early May.	
Aubrieta pinardii (Brassicaceae) (6x14,Z5,P,L,3:6w)	70 seeds / \$3.50
70459.07 Dwarf gray-green mats of pubescent, narrow, toothed leaves cover themselves with purple flowers on 2" scapes. Turkey.	
Azaleastrum albiflorum (Ericaceae) (150x100,Z5,P,L,3:8w)	100 seeds / \$3.50
05410.30 (W) Chelan Co., WA, 5700ft, 1738m. Short shrubs of deciduous elliptical foliage bear many shallowly campanulate white flowers nearly an inch wide in axillary clusters.	
Balsamorhiza hookeri v. lanata (Asteraceae) (20x18,Z5,P,L,3:6w)	20 seeds / \$4.00
35667.18 (W) Siskiyou Co., CA, 3000ft, 915m. Densely white-tomentose, slashed leaves. Yellow fls.	
Balsamorhiza sericea (20x24,Z6,P,L,3:6w)	30 seeds / \$3.50
76284.11 (W) Josephine Co., OR, 1500ft, 457m. Deeply-dissected leaves with tiny adpressed hairs give a satiny sheen to the upper surfaces. Yellow flowers are borne on variable-length stems.	
Baptisia australis (Fabaceae) (90x80,Z3,P,SC,1)	20 seeds / \$3.00
08867.14 A classic plant with rich indigo-blue racemes nearly a foot long over blue-green foliage.	
Baptisia bracteata (65x65, Z4, P, SC, 1)	20 seeds / \$4.00
10741.14 Magnificent clusters of rich, creamy-yellow flowers in early summer. Long-lived plant.	
Baptisia lactea (120x80, Z4, P, SC, 1)	35 seeds / \$3.00
54022.13 Large, white pea-flowers over semi-waxy, blue-green foliage.	
Baptisia minor (80x50,Z4,P,SC,1)	20 seeds / \$4.00
56468.02 A dwarf form of <i>B. australis</i> with deep blue flowers on small shrublets.	
Baptisia sphaerocarpa (80x50,Z5,P,SC,1)	30 seeds / \$3.50
76708.02 Beautiful large yellow blossoms carried high above the foliage in early summer.	
Baptisia tinctoria (50x30,Z4,P,SC,1)	40 seeds / \$3.50
78468.02 Numerous racemes of small yellow flowers later than the other Baptisias.	
Berkheya cirsifolia (Asteraceae) (60x60,Z8,P,L,1)	50 seeds / \$3.50
12484.00 Wickedly spiny rosettes bear white daisy flowers with yellow centers.	

Berkheya purpurea (40x35,Z6,P,C,1)	60 seeds / \$3.00
70885.17 Prickly leaves with large mauve flowers. Drakensberg, South Africa.	
Berlandiera lyrata (Asteraceae) (30x40,Z5,P,C,1)	30 seeds / \$3.00
54968.20 (W) Sierra Co., NM, 5000ft, 1524m. "Chocolate Flower." Clumps of lobed foliage and yellow daisies fragrant of chocolate. Found occasionally on dry plains from Kansas to Arizona.	
Bouvardia glaberrima (Rubiaceae) (75x40,Z9,P,L,1)	45 seeds / \$4.00
32541.40 (W) Santa Cruz Co., AZ, 5000ft, 1524m. Small bushes with dark green, sparsely-hairy leaves and terminal clusters of bright scarlet-orange, honeysuckle-like, tubular flowers.	
Bouvardia ternifolia (50x24, Z8, P, L, 2)	45 seeds / \$4.00
78284.14 (W) Jeff Davis Co., TX, 5600ft, 1707m. Heads of 2" long, tubular bright scarlet flowers.	
Buddleia utahensis (Loganiaceae) (20x20,Z7,P,L,1)	100 seeds / \$3.50
87805.21 (W) Washington Co., UT, 3700ft, 1125m. Crenulate leaves and skewered flower balls, several to each stem. Each fuzzy ball bears several florets, creamy yellow to purplish.	
Caesalpinia repens (Fabaceae) (9x18,Z5,P,SC,1)	30 seeds / \$4.00
74290.10 (W) Emery Co., UT, 4850ft, 1478m. Tapered racemes of rich yellow and blotched orange grace clumps of bluish-green, Mimosa-like leaves. Powerful, heavenly fragrance.	
Calliandra eriophylla (Fabaceae) (30x55,Z8,P,SC,1)	30 seeds / \$3.50
27449.28 (W) Yavapai Co., AZ, 3000ft, 915m. "Fairy Duster." Very pretty shrubs with Acacia-like foliage and pink to rosy-pink, powder-puff flower balls. In full bloom, shrubs appear as pink mist.	
Callirhoe bushii (Malvaceae) (50x100,Z5,P,SC,4:6w)	30 seeds / \$3.50
10896.02 Magenta to pink fls on plants which initially grow erect but eventually spread sideways.	
Callirhoe involucrata (16x120, Z4, P, SC, 4:6w)	50 seeds / \$3.00
47890.14 Cupped flowers of shimmering claret unfurl along runners of deep-green, fingered leaves.	
Callirhoe triangulata (12x50,Z5,P,SC,3:6w)	40 seeds / \$3.00
78746.09 Velvety, triangular, crenulate leaves on trailing stems terminate in deep magenta flowers.	
Calochortus albus (Liliaceae) (20x14,Z6,P,C,3:8w)	70 seeds / \$3.50
07410.29 (W) Mariposa Co., CA, 2100ft, 640m. Translucent, pearly-white, pendant lanterns grace numerous stems with lanceolate foliage.	
Calochortus aureus (16x6,Z6,P,C,3:6w)	70 seeds / \$3.50
08744.60 (W) Mohave Co., AZ, 5000ft, 1524m. Lovely golden bowls marked with dark maroon crescents at the petal base. Growing in deep sandy clay soils.	
Calochortus clavatus (15x8,Z7,P,C,3:8w)	80 seeds / \$3.50
12544.10 (W) Santa Barbara Co., CA, 3000ft, 915m. Deep yellow bowls with a squiggly reddish line delineating the throat area with numerous hairs. Late blooming.	
Calochortus eurycarpus (55x10, Z5, P, C, 3:6w)	70 seeds / \$3.50
28751.18 (W) Washington Co., ID, 3250ft, 991m. Bowls of cream with purple above the nectaries.	
Calochortus gunnisonii (26x10,Z4,P,C,3:6w)	60 seeds / \$4.00
32878.70 (W) Grand Co., CO, 9100ft, 2774m. Elegant bowls of cream to pale lavender with purple to green arches and a dense covering of yellow hairs on the glands. On E-facing mountain meadows.	
Calochortus macrocarpus (40x12,Z5,P,C,3:6w)	35 seeds / \$5.00
56032.28 (W) Butte Co., ID, 5800ft, 1768m. Large, beautiful bowls of pale lavender flowers with greenish-yellow hairs in the pale throat sit atop long, reflexed sepals which extend beyond the petals.	
Calochortus nuttallii (pink form) (20x8, Z4, P, C, 3:6w)	90 seeds / \$3.50
58898.20 (W) Grand Co., UT, 5200ft, 1585m. Lovely rose-pink forms predominate in this pop.	
Calochortus nuttallii (white form) (20x8,Z4,P,C,3:6w)	90 seeds / \$3.50
58899.28 (W) Fremont Co., WY, 6500ft, 1982m. Snow-white flowers here, with purple crescents.	
Caltha biflora v. rotundifolia (Ranunculaceae) (55x25,Z6,P,L,3:8w)	100 seeds / \$3.50
10451.10 (W) Jackson Co., OR, 6600ft, 2012m. Large, roundish leaves with white flowers.	
Calylophus hartwegii ssp. fendleri (Onagraceae) (24x20,Z5,P,L,2)	60 seeds / \$3.50
35095.35 (W) Grant Co., NM, 5200ft, 1585m. Numerous large, golden-orange fls. on bushy plants.	
Calylophus serrulatus (20x14, Z4, P, L, 2)	50 seeds / \$3.00
76294.13 (W) Elbert Co., CO, 6600ft, 2012m. Deep yellow blossoms from orange buds.	

- Calylophus tubicula** (18x24,Z7,P,L,2) 40 seeds / \$3.50
78830.25 (W) Eddy Co., NM, 3100ft, 945m. Yellow flowers with very long 1½"+ tubes.
- Calyptidium umbellatum** (Portulacaceae) (2x9,Z4,P,L,1) 90 seeds / \$4.00
87610.11 (W) Beaver Co., UT, 11500ft, 3506m. On a small eroded gully in volcanic ash were bright spots of raspberry. Closer inspection revealed huge decumbent flower heads splayed around miniature rosettes of rubbery, green, spatulate leaves. Far superior to any of the pallid Sierran forms.
- Camassia cusickii** (Liliaceae) (45x35,Z6,P,C,3:12w) 70 seeds / \$3.50
12896.18 (W) Wallowa Co., OR, 5700ft, 1738m. Fountains of long folded leaves produce racemes packed with starry, ice-blue-lilac flowers. Note: it is important to keep flats at 40°F for another two months after germination in order for the seedlings to develop properly.
- Camissonia claviformis** (Onagraceae) (16x12,A,L,1) 100 seeds / \$3.00
12543.11 (W) Imperial Co., CA, 0ft. An attractive desert annual with red-brown-eyed, four-petaled, white flowers in several clusters.
- Campanula piperi** (Campanulaceae) (3x12,Z5,P,L,3:8w) 100 seeds / \$6.00
70490.12 (W) Clallam Co., WA, 6200ft, 1890m. This superlative 'harebell' forms tufted mats of glossy, sharply-toothed leaves. Upward-facing lavender-blue blossoms are borne on short scapes. On crumbling, E-facing volcanic ledges and cracks.
- Campanula rotundifolia** (8x5,Z3,P,L,3:4w) 100 seeds / \$3.00
74698.25 (W) Gilpin Co., CO, 10800ft, 3292m. A dwarf alpine race with dainty clear blue bells.
- Campanula scabrella** (4x6, Z4, P, L, 2) 100 seeds / \$4.00
76122.22 (W) Siskiyou Co., CA, 8900ft, 2713m. Individual gray-green rosettes bear several up-turned bells variable in color from purple and lavender to very pale shades. Does not form mats.
- Campanula shetleri** (2x30,Z4,P,L,2) 100 seeds / \$5.00
76354.10 (W) Siskiyou Co., CA, 6200ft, 1890m. Extensive mats of tiny rosettes smothered in pale blue, upward-facing bells on very short stems in mid-summer. On N-facing granitic scree and cliffs.
- Cardiocrinum cordatum** (Liliaceae) (100x30,Z6,P,C,5) 55 seeds / \$3.50
12693.18 (W) Yoro Mtns, Japan, 90m. Stout stems with cordate, whorled leaves, bearing mildly fragrant, creamy lilies with reddish-brown speckling and pale yellow throats. Striking.
- Carpinteria californica** (Philadelphaceae) (300x220,Z7,P,L,3:6w) 100 seeds / \$4.00
12075.45 (W) Fresno Co., CA, 3200ft, 976m. Small trees with narrowly-elliptical, glossy-green, leathery leaves, tomentose below and beautiful, snow-white, fragrant, poppy-like flowers.
- Cassia roemeriana** (Fabaceae) (40x24, Z7, P, SC, 1) 40 seeds / \$2.50
74627.14 (W) Eddy Co., NM, 4800ft, 1463m. Capitulate clusters of yellow to orange pea-flowers.
- Castilleja angustifolia** (Scrophulariaceae) (16x12,Z4,P,RL3:6w) 100 seeds / \$3.50
07832.18 (W) Butte Co., ID, 6800ft, 2073m. A spring-blooming species with gorgeous flower spikes in various purple, plum or pink shades. On alluvial plains of gravelly, loamy soils.
- Castilleja chromosa** (28x15,Z5,P,RL,3:6w) 100 seeds / \$3.50
12363.38 (W) Mesa Co., CO, 4800ft, 1463m. The typical, more upright form here but with the same fiery-red flower spikes as *C. scabrida*. On dry hills of sandy clay.
- Castilleja covilleana** (14x18,Z3,P,RL,3:6w) 100 seeds / \$3.50
12710.18 (W) Blaine Co., ID, 7200ft, 2195m. Dark, finely-cut foliage and scarlet inflorescences glow like hot coals against its native scoria.
- Castilleja haydenii** (9x10,Z3,P,RL,3:6w) 100 seeds / \$4.00
35098.17 (W) Custer Co., CO, 12300ft, 3750m. A beautiful alpine dwarf with finely-shredded flowers in dense spikes of various deep rosy-pink-lavender hues.
- Castilleja parvula v. parvula** (9x10,Z4,P,RL,3:8w) 100 seeds / \$3.50
70096.20 (W) Beaver Co., UT, 11100ft, 3384m. Multiple stems compared to the next variety with the same deep rose to magenta flower spikes over hairy, viscid foliage. On volcanic alpine slopes.
- Castilleja parvula v. revealii** (10x8,Z5,P,RL,3:6w) 100 seeds / \$4.00
70097.19 (W) Garfield Co., UT, 7800ft, 2378m. Dark green tufts with one to three flower stems bearing brilliant deep plum-pink bracts. Endemic to NW-facing shaly limestone slopes.
- Castilleja rhexifolia** (30x20,Z3,P,RL,3:4w) 100 seeds / \$3.50
74354.18 (W) Big Horn Co., WY, 9400ft, 2866m. Brilliant rosy-pink spikes cover alpine slopes.

- Castilleja sessiliflora** (12x8,Z4,P,RL,3:4w) 100 seeds / \$3.00
76296.10 (W) Elbert Co., CO, 6650ft, 2030m. Unique tricolor fl. spikes of pink, cream and green.
- Ceanothus prostratus** (Rhamnaceae) (4x120,Z5,P,SC,4:8w) 40 seeds / \$4.00
70748.61 (W) Sierra Co., CA, 6200ft, 1890m. One of the most distinctive groundcovers, seen throughout the Sierra Nevadas. Dense, wide mats of prickly leaves produce short racemes of pale to deep blue flowers followed by exploding seed capsules.
- Ceanothus pumilus** (4x30,Z6,P,SC,4:8w) 60 seeds / \$5.00
70876.12 (W) Josephine Co., OR, 1700ft, 518m. Compact racemes of ghostly blue, whitish or pale lavender flowers on absolutely prostrate mats of rounded, blunt-toothed leaves.
- Centaurium calycosum** (Gentianaceae) (12x15,A,L,2) 100 seeds / \$3.00
12074.55 (W) Eddy Co., NM, 2975ft, 907m. Dense balls of saturated pink-lilac, saucer flowers.
- Cercis occidentalis** (Fabaceae) (250x110, Z6, P, SC, 3:6w) 40 seeds / \$2.50
63212.24 (W) Shasta Co., CA, 3500ft, 1067m. Heart-shaped leaves and purple-pink pea-flowers.
- Cercocarpus betuloides** (Rosaceae) (180x180,Z6,P,C,2) 40 seeds / \$3.50
10298.11 (W) Tuolumne Co., CA, 5400ft, 1646m. Attractive shrubs covered with birch-like leaves and fuzzy, long-tailed seed plumes.
- Cercocarpus ledifolius** (Rosaceae) (80x80,Z4,P,C,2) 50 seeds / \$3.50
54236.28 (W) Johnson Co., WY, 6000ft, 1829m. Gray-green shrubs with stiff, narrow, inrolled leaves. On hills of red sandstone. Considerably dwarfer than the Idaho forms.
- Chaenactis alpina** (Asteraceae) (8x10,Z3,P,L,3:6w) 40 seeds / \$3.50
07470.21 (W) Park Co., CO, 12000ft, 3692m. Attractive compact clumps of silvery-gray, incised rosettes with cream to pale pink, pin-cushion flowers in summer. W-facing alpine scree slopes.
- Chamaebatiaria millefolium** (Rosaceae) (100x120,Z5,P,L,1) 100 seeds / \$3.00
56474.25 (W) Butte Co., ID, 5600ft, 1707m. Finely-dissected leaves topped with white flower spikes.
- Chamaechaenactis scaposa** (Asteraceae) (5x10,Z5,P,L,1) 20 seeds / \$4.00
76125.37 (W) Montrose Co., CO, 6900ft, 2104m. Compact stacks of tiny round or heart-shaped gray leaves produce a few relatively huge white & pink pin-cushion flowers.
- Chasmatophyllum musculinum** (Aizoaceae) (4x20,Z7,P,L,1) 40 seeds / \$2.50
56896.09 Mats of succulent green leaves bear yellow flowers in abundance.
- Chilopsis linearis** (Bignoniaceae) (180x150,Z7,P,C,1) 30 seeds / \$3.00
54478.27 (W) Doña Ana Co., NM, 4400ft, 1341m. "Desert Orchid." Catalpa-like pink blossoms.
- Chilopsis linearis** (350x250,Z6,P,C,1) 30 seeds / \$3.50
54478.32 (W) San Miguel Co., NM, 4000ft, 1220m. **JRT5711** Solid pink flowers with darker magenta spots. Hardest population known.
- Chionophila jamesii** (Scrophulariaceae) (6x9,Z3,P,RL,3:8w) 90 seeds / \$3.50
50076.26 (W) Summit Co., CO, 12200ft, 3720m. Densely-packed, arching spikes of flattened creamy yellow flowers over tufts of narrow leaves which turn maroon-brown after frost.
- Chionophila tweedyi** (13x5,Z4,P,RL,3:8w) 80 seeds / \$3.50
78924.10 (W) Custer Co., ID, 10000ft, 3050m. From clumps of fleshy, lanceolate leaves arise secund, dark lavender spikes bearing white flowers shading to pink near the calyx. Colonies of this pretty alpine are often found under stunted timberline conifers.
- Cistus creticus** (Cistaceae) (75x80,Z9,P,L,3:8w) 100 seeds / \$3.50
12745.10 (W) Mariposa Co., CA, 2700ft, 823m. Not native to California, a small colony has naturalized itself in the Sierran foothills. Small shrubs covered with brilliant, silky, crinkled blossoms of pink to purple, flaunting a prominent boss of stamens.
- Clematis columbiana** (Ranunculaceae) (14x9,Z3,P,C,5) 50 seeds / \$4.00
12674.21 (W) Cache Co., UT, 9200ft, 2805m. Lovely pendant violet flowers sway over a few incised leaflets. Found on S- & E-facing rocky limestone slopes and crevices, often in large colonies. Segregation into *C. columbiana* v. *tenuiloba* is not supported taxonomically.
- Clematis columbiana** (35x14,Z4,P,C,5) 50 seeds / \$3.50
12674.37 (W) Bernalillo Co., NM, 10400ft, 3171m. (= *C. pseudoalpina*.) Small vine which climbs when it can, on steep, W-facing limestone cliffs and slopes. Lovely bluish-purple pendant flowers.

- Clematis columbiana (blue/pink)** (12x26,Z5,P,C,5) 40 seeds / \$5.00
12674.60 (W) Chelan Co., WA, 5700ft, 1738m. Though predominantly a blue-flowered population, many individual plants sport pink flowers, along with many intermediate shades. On N-facing slopes.
- Clematis hirsutissima** (30x16,Z5,P,C,5) 50 seeds / \$4.00
35470.40 (W) Custer Co., ID, 8550ft, 2606m. Dark blue-purple, pendant lanterns unfurl over dissected, hirsute foliage. On N-facing slopes of eroded rhyolite.
- Clematis hirsutissima** (45x25,Z5,P,C,5) 50 seeds / \$4.00
35470.51 (W) Mesa Co., CO, 10300ft, 3140m. Extra robust population here on the Grand Mesa.
- Clematis stans** (80x40, Z5, P, RL, 3:8w) 30 seeds / \$3.00
76782.14 (W) Hida Reg., Japan, 750m. Pale purple-blue bells, the outside white-tomentose.
- Clematis terniflora** (500x200,Z5,P,C,5) 20 seeds / \$3.50
78296.17 (W) Mino Reg., Japan, 262ft, 80m. Vigorous vines with starry, fragrant, white flowers.
- Clematis rhodantha** (Crassulaceae) (20x7,Z3,P,L,1) 100 seeds / \$3.00
74358.47 (W) Park Co., CO, 11900ft, 3628m. Spiky inflorescences of pale rose-pink flowers.
- Coluteocarpus vesicaria** (Brassicaceae) (8x10,Z5,P,L,3:6w) 40 seeds / \$3.50
90296.11 (W) Palandoken, Turkey, 9180ft, 2800m. Caespitose rosettes bearing several stems each with capitate racemes of pale pink to white flowers. Beautiful rock garden plant.
- Coreopsis gigantea** (Asteraceae) (150x40,Z10,P,C,1) 50 seeds / \$3.50
32453.20 (W) Ventura Co., CA, 350ft, 107m. Succulent, pinnate leaves sprout on top of a massive trunk. Numerous cymes of myriad yellow daisy-flowers early in spring.
- Coryphantha andreae** (Cactaceae) (14x7,Z8,P,L,3:4w) 30 seeds / \$4.00
07815.02 Thompson cult., ex Veracruz, MX. **JRT033** Single deep green, compressed stem with woolly crowns. Short grayish-yellow, brown-tipped spines. Narrow light yellow flowers and green fruits.
- Coryphantha echinus** (10x8,Z5,P,L,2) 40 seeds / \$3.50
23235.19 (W) Pecos Co., TX, 3500ft, 1067m. **JRT4151** Bright white spines with long, single, straight centrals thick enough to obscure the stems. Rather large yellow flowers.
- Coryphantha echinus** (10x7,Z5,P,L,2) 40 seeds / \$3.50
23235.22 (W) Howard Co., TX, 3800ft, 1158m. **JRT4152** Single stems with straw-colored spines. Few if any central spines on this form. Large bright yellow flowers.
- Coryphantha macromeris** (22x60,Z5,P,L,3:6w) 30 seeds / \$3.00
56033.21 (W) Pecos Co., TX. **JRT4161** Big, flabby, nipples stems 3" around that clump with time into mounds over two feet across. Light purple blossoms with ciliated petals.
- Coryphantha sulcata** (10x8,Z5,P,L,2) 30 seeds / \$3.50
76874.01 Ex Thompson cult. **JRT032** Multi-clumping stems with white spines. Large, bright yellow flowers with deep red throats.
- Coryphantha vivipara** (10x10,Z4,P,L,3:4w) 70 seeds / \$3.00
90510.18 (W) Albany Co., WY, 7400ft, 2255m. Tubercled barrel cacti with rosy-violet chalice.
- Coryphantha vivipara v. arizonica** (6x8,Z5,P,L,3:6w) 70 seeds / \$3.00
90512.15 (W) Millard Co., UT, 6100ft, 1860m. Bright lavender-violet fls. on white-spined barrels.
- Coryphantha vivipara v. buoflamma** (10x15, Z6, P, L, 3:4w) 60 seeds / \$2.50
90511.18 (W) Yavapai Co., AZ, 4400ft, 1341m. Apical flowers in yellow, pink and peach shades.
- Cryptantha abata** (Boraginaceae) (8x20,Z5,P,L,3:6w) 40 seeds / \$4.00
01009.19 (W) White Pine Co., NV, 7200ft, 2195m. Low, bristly, gray mounds with white flower spikes which scarcely extend beyond the leaves. Spreads horizontally in loam with limestone chips.
- Cryptantha caespitosa** (10x16,Z5,P,L,3:6w) 40 seeds / \$5.00
12036.18 (W) Fremont Co., WY, 6700ft, 2043m. Forms mounded cushions of bristly, gray leaves. Two or three dozen short, dense spikes of white flowers arch from mature cushions. Tuffaceous sand.
- Cryptantha compacta** (4x9,Z5,P,L,2) 40 seeds / \$5.00
12676.10 (W) Millard Co., UT, 5700ft, 1738m. Spikes of white, yellow-centered flowers above bristly, grayish buns. On limestone flats. One of the choicest and most compact in the genus.
- Cryptantha humilis v. nana** (5x12,Z5,P,L,3:6w) 35 seeds / \$4.00
35876.17 (W) Montrose Co., CO, 6900ft, 2104m. Caespitose silver-gray tufts of hairy leaves bear flat-topped inflorescences of rather densely-packed white flowers.

- Cryptantha johnstonii** (18x10,Z5,P,L,2) 50 seeds / \$3.50
50655.35 (W) Emery Co., UT, 6900ft, 2104m. White flowers with yellow fornicies in bristly calyxes.
- Cryptantha paradoxa** (6x10,Z5,P,C,2) 40 seeds / \$4.00
70094.15 (W) Montrose Co., CO, 5500ft, 1675m. Tufts of green, spatulate leaves produce masses of intensely-fragrant, white, yellow-throated, waxy blossoms. One of the best in the genus.
- Cusickiella quadricostata** (Brassicaceae) (3x16,Z5,P,L,3:8w) 35 seeds / \$4.00
72803.15 (W) Mono Co., CA, 8500ft, 2591m. (= *Draba quadricostata*.) Caespitose cushions of hundreds of tiny, gray-green rosettes, sometimes spanning 12" or more. Short racemes of pale yellow.
- Cylindropuntia imbricata** (Cactaceae) (180x90,Z4,P,SC,4:6w) 50 seeds / \$3.00
47610.26 (W) Fremont Co., CO, 6200ft, 1890m. Our prevalent cholla, magenta to violet blossoms.
- Cylindropuntia whipplei** (30x60,Z5,P,SC,4:6w) 50 seeds / \$3.00
92357.26 (W) Archuleta Co., CO, 6400ft, 1951m. Cylindrical stems with brilliant chartreuse fls.
- Cymopterus aboriginum** (Apiaceae) (6x15,Z6,P,C,4:8w) 40 seeds / \$4.00
01069.15 (W) Mono Co., CA, 6400ft, 1950m. Gorgeous gray-green mounds of very ferny, thrice-pinnatifid foliage of heavy substance. White fruiting clusters on short scapes. On N-facing carbonates.
- Cymopterus bulbosus** (8x12,Z4,P,RC,4:8w) 70 seeds / \$3.00
70542.13 (W) Mesa Co., CO, 5000ft, 1524m. Attractive flower heads of purple to maroon surrounded by white bracts. Large, undulating seed clusters and blue-green, lacy foliage.
- Cymopterus duchesnensis** (14x12,Z5,P,C,4:8w) 40 seeds / \$3.50
15832.15 (W) Uintah Co., UT, 5500ft, 1677m. Celery-like clumps with bright yellow flowers.
- Cymopterus longilobus** (16x15,Z3,P,L,4:12w) 60 seeds / \$3.50
54678.48 (W) Park Co., WY, 8000ft, 2439m. Glossy, intensely anise-scented foliage. Yellow heads.
- Cymopterus megacephalus** (6x24, Z5, P, L, 4:12w) 85 seeds / \$3.50
56253.15 (W) Coconino Co., AZ, 6100ft, 1860m. Fruit literally the size of golf balls.
- Cymopterus montanus** (5x10,Z5,P,C,4:8w) 40 seeds / \$3.50
56678.39 (W) Grand Co., CO, 7800ft, 2378m. Flowers not seen here but are probably yellow.
- Cymopterus sessiliflora** (10x18,Z4,P,C,4:8w) 70 seeds / \$3.50
10745.18 (W) Fremont Co., WY, 6400ft, 1951m. Was listed as *Cymopterus sp. novum*. Known from three other states, this population represents its first occurrence in Wyoming. Dark green, pinnatifid leaves in dense tufts sprout from a massive rhizomatous network. Small heads of yellow flowers.
- Dalea bicolor v. argyraea** (Fabaceae) (22x35, Z7, P, SC, 1) 40 seeds / \$3.50
10442.14 (W) Eddy Co., NM, 5750ft, 1753m. Bright purple and white flowers in autumn. Silver lvs.
- Dalea candida** (50x35,Z4,P,SC,1) 100 seeds / \$3.00
12090.02 Essentially a white-flowered version of *D. purpurea*.
- Dalea formosa** (40x40,Z6,P,SC,1) 15 seeds / \$4.00
30704.70 (W) Grant Co., NM, 5100ft. Dense shrubs with hairy flowers of white, yellow and purple.
- Dalea ornata** (38x22, Z6, P, SC, 1) 60 seeds / \$3.00
70458.14 (W) Benton Co., WA, 350ft, 107m. Eye-catching fat spikes of bright violet.
- Dalea pulchra** (80x60, Z8, P, SC, 1) 75 seeds / \$3.00
70884.11 (W) Pima Co., AZ, 4000ft, 1220m. Balls of purple flowers in early spring.
- Dalea purpurea** (50x35,Z4,P,SC,1) 100 seeds / \$3.00
70905.12 Showy legume with purple cylindrical flower heads at the end of multiple branching stems.
- Dalea villosa** (30x35, Z5, P, SC, 1) 20 seeds / \$4.00
90484.14 (W) Yuma Co., CO, 3100ft, 945m. Long spikes of lavender flowers. Villous plants.
- Daphne alpina** (Thymeliaceae) (35x60,Z4,P,C,4:12w) 20 seeds / \$5.00
08471.11 Neat, tidy shrubs with downy, gray-green leaves and terminal heads of white, fragrant flowers followed by red-orange fruits.
- Daphne kosaninii** (40x40,Z5,P,C,4:12w) 25 seeds / \$5.00
52706.11 Ex Pirin Mtns, 2200m. Obovate to elliptic, grayish-green, evergreen leaves on slow-growing bushlets bear creamy-white, fragrant flowers followed by pale orange berries.
- Daphne kurdica** (60x60,Z5,P,C,4:12w) 25 seeds / \$5.00
52904.11 Ex Ala Dag, Turkey, 2000m. Obovate to elliptic, waxy, bluish-green, evergreen leaves on slow-growing bushlets bear snow-white, fragrant flowers followed by orange berries.

Darlingtonia californica (Sarraceniaceae) (40x18,Z6,P,L,3:16w)	100 seeds / \$3.50
12085.20 (W) Siskiyou Co., CA, 6000ft, 1829m. Carnivorous plants with tubular, hooded pitchers flashing purplish, forked tongues to draw prey. Yellow-green, purple-veined, pendant flowers.	
Darmera peltata (Saxifragaceae) (120x80,Z7,P,L,3:8w)	100 seeds / \$3.50
70284.35 (W) Tuolumne Co., CA, 3400ft, 1037m. Huge umbrella-like, toothed leaves, each up to 2 feet across, from thick rhizomes. Umbels of pink flowers on 3 to 4 foot scapes appear in early spring.	
Dasyliirion wheeleri (Agavaceae) (110x110,Z7,P,C,1)	90 seeds / \$3.00
92355.24 (W) Eddy Co., NM, 5700ft, 1738m. Globular rosettes with huge, dense spikes of cream fls.	
Dasynotus daubenmirei (Boraginaceae) (40x40,Z4,P,L,3:8w)	15 seeds / \$6.00
15083.12 (W) Idaho Co., ID, 4920ft, 1500m. Superb herbaceous bushlets producing multiple stems clothed in sparsely-hairy, oblanceolate leaves and beautiful clusters of snow-white, inch-wide flowers.	
Delosperma basuticum (Aizoaceae) (2x8,Z6,P,L,1)	40 seeds / \$3.50
10106.19 Chiseled clumps of succulent foliage with large yellow, white-throated blossoms.	
Delosperma cooperi (6x40, Z6, P, L, 1)	90 seeds / \$2.50
12670.14 Succulent, creeping stems of deep green covered with rosy-magenta flowers all summer.	
Delosperma 'John Proffitt' (4x20, Z6, P, L, 1)	100 seeds / \$3.00
50665.19 A vigorous mat-former with abundant magenta-pink flowers.	
Delosperma sp. (ruby stars) (5x24, Z?, P, L, 1)	100 seeds / \$2.50
76711.18 Abundant brilliant magenta-ruby flowers are about 3/4" across.	
Delosperma sp. #2 (Sani Pass, RSA) (3x35, Z5, P, L, 1)	45 seeds / \$3.00
76710.01 Low-growing plants are covered with deep magenta flowers which fade to pink.	
Delphinium andersonii (Ranunculaceae) (45x18,Z5,P,RL,3:8w)	80 seeds / \$3.50
08815.35 (W) Mono Co., CA, 7835ft, 2389m. Spectacular, compact racemes of deep indigo blue.	
Delphinium barbeyi (80x35, Z3, P, L, 3:8w)	70 seeds / \$3.00
10104.23 (W) Gunnison Co., CO, 11100ft, 3384m. Bold spikes of blue-purple flowers.	
Delphinium barbeyi (90x40,Z3,P,L,3:8w)	100 seeds / \$3.00
10104.31 (W) Beaver Co., UT, 10650ft, 3247m. Basal clumps of minutely-hairy, dissected foliage produce several bold spikes of deep blue flowers. On subalpine meadows in the Wasatch dolomites.	
Delphinium bicolor (16x7,Z3,P,L,3:12w)	100 seeds / \$4.00
10415.17 (W) Bighorn Co., WY, 9400ft, 2866m. Flowers of deep blue with a white bee. Dwarf.	
Delphinium burkei (40x12,Z6,P,L,3:6w)	60 seeds / \$3.50
10904.19 (W) Klickitat Co., WA, 300ft, 91m. Dark-blue flowers spikes over tufts of gray foliage.	
Delphinium carolinianum ssp. virescens (60x15, Z4, P, L, 3:8w)	90 seeds / \$3.00
12104.14 (W) Fremont Co., CO, 5350ft, 1630m. Beautiful spikes of white flowers with dark bees.	
Delphinium decorum ssp. traceyi (16x7,Z5,P,L,3:6w)	40 seeds / \$4.00
15242.40 (W) Siskiyou Co., CA, 5600ft, 1707m. A dwarf, dainty montane species with tufts of deeply-lobed leaves and racemes of dark purple-blue flowers. In stony, serpentine soils under scrub.	
Delphinium geyeri (50x25,Z4,P,L,3:8w)	40 seeds / \$3.50
32299.10 (W) Boulder Co., CO, 5700ft, 1738m. Grayish-green, incised, basal foliage sprouts in early summer bold racemes of pink flowers which turn blue as they age, giving a nice two-tone effect.	
Delphinium glaucum (160x25, Z5, P, L, 5)	100 seeds / \$3.50
32543.15 (W) Jackson Co., OR, 6600ft, 2012m. Dense spikes of blue-purple over glaucous foliage.	
Delphinium hansenii ssp. ewaniamum (100x16,Z7,P,RL,3:8w)	50 seeds / \$4.00
35087.10 (W) Madera Co., CA, 1600ft, 488m. Gorgeous spikes of plum-colored flowers, each with a prominent, fuzzy white bee and the petals with diffuse central stripes of orangish-violet.	
Delphinium menziesii (16x10,Z4,P,L,3:8w)	60 seeds / \$3.50
56288.11 (W) Linn Co., OR, 5200ft, 1585m. Similar to <i>D. nuttallianum</i> with short racemes of dark blue flowers. On volcanic tufa and breccia.	
Delphinium novomexicanum (120x26,Z5,P,L,3:8w)	100 seeds / \$3.50
58720.17 (W) Lincoln Co., NM, 10100ft, 3079m. Imposing plants with luxurious, cut, basal foliage and stout stems bearing up to 100 or more purplish-blue to lavender flowers.	
Delphinium nudicaule (50x26,Z7,P,L,3:6w)	50 seeds / \$4.00
58845.71 (W) Lake Co., CA, 3300ft, 1006m. The beautiful scarlet to scarlet-orange flowers are held out on long pedicels on well-branched plants. Steep, W-facing embankments of volcanic loam.	

Delphinium parishii (48x18,Z7,P,RL,3:8w)	70 seeds / \$3.50
70104.45 (W) Clark Co., NV, 2300ft, 701m. Dense racemes of pale azure-blue fls. with a white bee.	
Delphinium pavonaceum (45x18,Z6,P,L,3:8w)	50 seeds / \$4.00
70120.29 (W) Polk Co., OR, 164ft, 50m. Creamy-white flowers with a dark blue or purple bee.	
Delphinium purpusii (52x20,Z7,P,RL,3:6w)	60 seeds / \$5.00
70904.35 (W) Kern Co., CA, 3800ft. Racemes of wonderful rosy-pink flowers with white bees.	
Delphinium scaposum (50x12,Z5,P,RL,3:8w)	50 seeds / \$3.50
76132.15 (W) Yavapai Co., AZ, 6000ft, 1829m. Deep sky-blue flowers with white bees.	
Delphinium uliginosum (35x12,Z7,P,L,3:8w)	100 seeds / \$4.00
85446.11 (W) Lake Co., CA, 2300ft, 701m. An unusual delphinium with semi-succulent, yellow-green, lobed, basal foliage and spikes of purple-blue, long-spurred flowers.	
Delphinium variegatum (40x12,Z7,P,RL,3:8w)	100 seeds / \$3.50
90104.41 (W) Mariposa Co., CA, 2375ft, 724m. Spikes of very dark blue flowers.	
Delphinium virescens v. wootonii (28x12,Z5,P,L,3:5w)	70 seeds / \$4.00
90505.50 (W) Grant Co., NM, 4750ft, 1448m. Pale lavender-pink flowers with darker spurs are emblazoned with large, snowy-white bees covered with long hairs.	
Delphinium viridescens (120x20,Z5,P,L,3:8w)	100 seeds / \$3.50
90506.10 (W) Chelan Co., WA, 3300ft, 1006m. Narrow, dense spikes of pubescent greenish-brown flowers. More odd than beautiful. In vernal wet meadows with a basalt substrate.	
Delphinium xantholeucum (50x14,Z6,P,L,3:8w)	100 seeds / \$3.50
94088.26 (W) Chelan Co., WA, 3500ft, 1067m. Creamy-white flowers, pale blue-green bees.	
Dianthus freynii (Caryophyllaceae) (6x15,Z5,P,L,1)	50 seeds / \$3.50
30746.07 Makes low tufts of narrow, gray-green leaves which are covered with myriad small, soft pink flowers on short stems. A great trough plant. Considered a form of <i>D. glacialis</i> .	
Dianthus subcaulis ssp. brachyanthus (7x20,Z4,P,C,2)	35 seeds / \$3.50
76841.09 Dense, spiny mats covered with pretty pale-to-rose-pink flowers. Endemic to the Pyrenees.	
Distegia involucrata (Caprifoliaceae) (65x100,Z4,P,L,3:8w)	40 seeds / \$3.00
48890.19 (W) Larimer Co., CO, 9300ft, 2835m. Multiply-stemmed, small shrubs with broad, ovate leaves and yellow flowers followed by purple-black berries surrounded by a bright maroon calyx.	
Dodecatheon alpinum (Primulaceae) (9x6,Z4,P,L,3:8w)	40 seeds / \$4.00
08470.12 (W) Trinity Co., CA, 7800ft, 2378m. Narrow, erect foliage with many violet flowers per umbel. Growing around a tarn near timberline.	
Dodecatheon clevelandii ssp. insulare (18x15,Z9,P,L,3:8w)	100 seeds / \$3.50
12545.20 (W) Ventura Co., CA, 350ft, 107m. Star-bursts of lavender-pink fls. with black anthers.	
Dodecatheon conjugens (18x12,Z4,P,L,3:8w)	70 seeds / \$3.50
12688.66 (W) Blaine Co., ID, 6700ft, 2043m. A robust population here in a vernal moist meadow with large, bright violet shooting stars over basal rosettes of slender leaves.	
Dodecatheon conjugens (15x9,Z4,P,L,3:8w)	70 seeds / \$3.50
12688.78 (W) Fremont Co., WY, 6500ft, 1982m. A somewhat dwarfier population here in stony red clay which bakes in the summer.	
Dodecatheon cusickii (16x10,Z5,P,L,3:8w)	100 seeds / \$4.00
12906.12 (W) Gem Co., ID, 2875ft, 876m. Nodding flowers of deep lavender to rose with yellow centers. On steep, N-facing, sandy, grassy hillsides.	
Dodecatheon dentatum (20x14,Z5,P,L,3:8w)	50 seeds / \$4.00
15289.60 (W) Chelan Co., WA, 5625ft, 1715m. Creamy-white, pendant flowers suffuse to yellow at the base which displays a distinct reddish, undulating ring. The thin leaves are conspicuously toothed.	
Dodecatheon hendersonii (22x10,Z6,P,L,3:8w)	80 seeds / \$3.50
35288.31 (W) Josephine Co., OR, 1350ft, 412m. Robust population of very deep lavender flowers with a pale yellow ring at the base of the corolla and a prominent black beak. Each rosette of wide, orbicular leaves may support several flowering stems.	
Dodecatheon jeffreyi (24x12,Z4,P,L,3:6w)	90 seeds / \$3.50
50260.29 (W) Idaho Co., ID, 7400ft, 2256m. Somewhat shorter plants with more flowers per head compared to the Oregon population. Flowers not seen.	

- Dodecatheon jeffreyi ssp. pygmaeum** (24x12,Z5,P,L,3:8w) 90 seeds / \$3.50
50261.15 (W) Siskiyou Co., CA, 6800ft, 2073m. Dwarf population with deep lavender flowers.
- Dodecatheon poeticum** (14x12,Z7,P,L,3:8w) 100 seeds / \$3.50
70630.86 (W) Klickitat Co., WA, 350ft, 107m. Bright rose flowers with yellow bands at the bases.
- Dodecatheon pulchellum** (7x6, Z3, P, L, 3:8w) 70 seeds / \$3.00
70886.15 (W) Gilpin Co., CO, 10750ft, 3277m. Deep violet stars over wispy basal tufts.
- Douglasia laevigata v. laevigata** (Primulaceae) (5x15,Z5,P,L,3:8w) 75 seeds / \$6.00
54032.11 (W) Linn Co., OR, 5600ft, 1707m. Rosettes of smooth, green, lanceolate leaves are packed into evergreen cushions. The bright rosy-pink flowers are borne in loose umbels. On volcanic cliffs.
- Douglasia nivalis (Chumstick form)** (3x16,Z5,P,L,3:8w) 60 seeds / \$5.00
58520.19 (W) Chelan Co., WA, 5700ft, 1738m. Gorgeous blue-gray compact mounds composed of linear downy leaves in rosettes. Umbels of deep rosy-pink to rosy-magenta flowers smother the cushions in early spring. A stunning sight when in full bloom.
- Draba aureola** (Brassicaceae) (8x6,Z3,P,L,3:6w) 80 seeds / \$4.00
08745.25 (W) Deschutes Co., OR, 9200ft, 2805m. Hairy rosettes elongate into a yellow fountain.
- Draba paysonii v. treleasii** (2x6,Z4,P,L,3:6w) 70 seeds / \$4.00
70099.62 (W) Custer Co., ID, 8940ft, 2726m. Tight, hairy rosettes in ball-like clumps covered with acid yellow flowers. On exposed, windy volcanic crests.
- Draba smithii** (12x20,Z4,P,L,3:6w) 100 seeds / \$3.00
76567.37 (W) Mineral Co., CO, 8500ft, 2590m. Myriad racemes of creamy-white flowers.
- Draba subalpina** (6x5,Z4,P,L,3:4w) 70 seeds / \$3.50
76840.20 (W) Iron Co., UT, 10600ft, 3230m. Dark green rosettes with racemes of comparatively large white flowers. An alpine species growing on dry, eroded, gypsiferous soils.
- Dryas octopetala v. hookeriana** (Rosaceae) (9x100,Z3,P,L,3:8w) 100 seeds / \$3.50
64278.21 (W) Big Horn Co., WY, 10100ft, 3079m. Ubiquitous alpine carpet of green, crenate leaves, tomentose below. Short scapes with creamy, rose-like blossoms turn into feathery seed heads.
- Dudleya caespitosa** (Crassulaceae) (15x30,Z10,P,L,1) 100 seeds / \$3.50
12039.80 (W) Monterey Co., CA, 100ft, 30m. Very thick, glaucous rosettes, the leaves often with reddish tips. Yellow flowers in dense clusters on sometimes lax stems. N-facing cliffs of serpentine.
- Dudleya caespitosa (dune form)** (40x16,Z10,P,L,1) 100 seeds / \$3.50
12039.60 (W) Monterey Co., CA, 33ft, 10m. A very different form here on fine sand dunes of multi-rosetted clusters, the leaves more lance-shaped, more glaucous and with less red on the tips. Strong, erect, multiple stems with yellow flowers.
- Dudleya calcicola** (10x6,Z6,P,L,1) 100 seeds / \$3.50
12086.50 (W) Kern Co., CA, 3800ft, 1159m. Small, glaucous white rosettes and inflorescences of pale yellow. Growing on E-facing, steep granite slopes. Also found on limestone slopes.
- Dudleya collomiae** (28x12,Z7,P,L,2) 100 seeds / \$3.50
12684.10 (W) Yavapai Co., AZ, 4600ft, 1402m. (= *Echeveria collomiae*). Succulent rosettes, glaucous blue and near white in the center, bear waxy yellow flowers on uncoiling coral-red stems.
- Dudleya cymosa (orange)** (16x12,Z7,P,L,1) 100 seeds / \$3.50
12968.31 (W) Tuolumne Co., CA, 5400ft, 1646m. Brilliant orange-red to salmon-orange inflorescences open above very glaucous, chalky-blue rosettes. Exceptional cold tolerance.
- Dudleya cymosa (yellow)** (14x10,Z9,P,L,1) 100 seeds / \$3.50
12968.70 (W) Mariposa Co., CA, 2100ft, 640m. This population has bright Sedum-yellow flowers over small glaucous rosettes. Grows on two separate substrates in the same area -- one on fractured slate and the other on serpentine outcrops, both N- and W-facing.
- Dudleya edulis** (24x20,Z10,P,L,1) 100 seeds / \$3.50
21588.40 (W) San Diego Co., CA, 600ft, 183m. Upright rosettes of numerous, narrow, cylindrical leaves sprout spreading inflorescences of creamy-white flowers. Reminiscent of succulent *Senecio* sp.
- Dudleya farinosa (glabrous)** (12x10,Z10,P,L,1) 100 seeds / \$3.00
30105.15 (W) San Francisco Co., CA, 50ft, 15m. Chalky gray rosettes with pale yellow flowers.
- Dudleya farinosa (glaucous)** (12x10,Z10,P,L,1) 100 seeds / \$3.00
30104.15 (W) Marin Co., CA, 200ft, 61m. Green, red-tipped rosettes with pale yellow flowers.

- Dudleya lanceolata** (45x12,Z10,P,L,1) 100 seeds / \$3.50
54088.80 (W) San Diego Co., CA, 600ft, 183m. Standard form here with usually single, glaucous green rosettes and rather tall flowering scapes bearing heads of yellow flowers.
- Dudleya lanceolata (mini form)** (12x12,Z6,P,L,1) 100 seeds / \$3.50
54088.60 (W) Santa Barbara Co., CA, 3800ft, 1158m. Miniature form here of glaucous green, clumping rosettes and orange-red flowers in broad heads. W-facing serpentine outcrops.
- Dudleya palmeri** (15x15,Z10,P,L,1) 100 seeds / \$3.50
70085.20 (W) San Luis Obispo Co., CA, 100ft, 30m. Very succulent rosettes, most glaucous, some green, all suffused ruby-red. Thick flower spikes bear deep red to orange flowers. Prefers level areas.
- Dudleya pulverulenta ssp. arizonica** (18x35,Z8,P,L,1) 100 seeds / \$3.50
70930.90 (W) San Diego Co., CA, 4100ft, 1250m. Generally smaller than the low-elevation forms but equally impressive. Drier and colder at this locality on the edge of the Anza-Borrego Desert.
- Dudleya pulverulenta ssp. pulverulenta** (30x75,Z9,P,L,1) 100 seeds / \$4.00
70931.30 (W) Santa Barbara Co., CA, 1000ft, 305m. Dinner-plate-sized rosettes heavily encrusted with chalk sprout several 2-3 foot long silver streamers bearing dusky-red, pendant flowers.
- Ebracteola wilmaniae** (Aizoaceae) (8x24,Z7,P,L,1) 30 seeds / \$3.50
92495.09 Ex Riverton, North Cape Province, RSA. Mats of gray-green, finger-like leaves turn purplish in the cold. Large, soft pink flowers appear in early spring and continue for several months.
- Echinacea paradoxa** (Asteraceae) (120x45, Z4, P, C, 3:4w) 50 seeds / \$3.00
70116.04 This Ozark native has large golden-yellow flowers on plants 3 to 5 feet tall.
- Echinocactus polycephalus** (Cactaceae) (35x75,Z7,P,GL,2) 30 seeds / \$3.00
70694.25 (W) Inyo Co., CA, 4500ft, 1372m. Fierce, multi-headed clumps bear pink-hued, yellow fls.
- We now offer seed of over 100 cactus species from the extensive collections of Jeff Thompson, an expert in this area for over 30 years. Look for the JRT numbers.**
- Echinocactus texensis** (9x16,Z7,P,GL,2) 40 seeds / \$3.00
78334.15 (W) Roosevelt Co., NM, 4000ft, 1220m. **JRT5211** Robust, hardy plants with variable spine lengths. Flowers in all combinations of white, red, pink and orange.
- Echinocereus canus** (Cactaceae) (16x7,Z7,P,GL,3:4w) 30 seeds / \$5.00
12098.19 Ex Solitario, Brewster Co., TX, (Thompson). (= *E. viridiflorus* ssp. *canus*.) Also listed as *E. russanthus* v. *neocapillus*. Giant cylindrical stems with thick-needled spines of white and violet. Bright green flowers. Low seed set.
- Echinocereus chloranthus** (26x9,Z6,P,GL,3:4w) 30 seeds / \$4.00
12361.29 (W) Coke Co., TX. **JRT432** "Neocapillus" type stems with juvenile hair. Thick needle spines in yellow and white. Yellowish-green flowers.
- Echinocereus chloranthus** (20x10,Z5,P,GL,3:4w) 40 seeds / \$3.00
12361.32 Thompson cult., ex Presidio Co., TX. **JRT037** Tight hugging spines stems in an array of colors: red, purple and white combinations, with short, sparse centrals. Unusual form with greenish-brown flowers opening close to the crown in rings.
- Echinocereus coccineus** (15x55,Z4,P,GL,3:4w) 40 seeds / \$3.00
12650.18 (W) Colfax Co., NM, 6800ft, 2073m. D. Salman. Huge clustering plants with scores of heads on volcanic prairie. Flowers not seen but most likely the typical red trumpets.
- Echinocereus coccineus** (10x12, Z6, P, GL, 3:4w) 70 seeds / \$3.00
12652.11 (W) Sierra Co., NM, 4900ft, 1494m. Multiheaded plants with brilliant scarlet flowers.
- Echinocereus coccineus** (16x20,Z6,P,GL,3:4w) 40 seeds / \$3.00
12652.28 (W) Otero Co., NM, 5300ft, 1616m. **JRT597** Peach-orange trumpets with white throats.
- Echinocereus coccineus** (16x20,Z6,P,GL,3:4w) 40 seeds / \$3.00
12652.35 (W) Otero Co., NM, 5300ft, 1616m. **JRT598** Cream white trumpets.
- Echinocereus coccineus** (16x20,Z6,P,GL,3:4w) 40 seeds / \$3.00
12652.47 (W) Otero Co., NM, 5300ft, 1616m. **JRT595** Green white trumpets.
- Echinocereus coccineus** (16x20,Z6,P,GL,3:4w) 40 seeds / \$3.00
12652.58 (W) Otero Co., NM, 5300ft, 1616m. **JRT599** Plum purple trumpets smaller than normal.
- Echinocereus coccineus** (16x20,Z6,P,GL,3:4w) 40 seeds / \$3.00
12652.65 (W) Otero Co., NM, 5300ft, 1616m. **JRT594** Large bright yellow trumpets.

Echinocereus coccineus (16x20,Z6,P,GL,3:4w)	40 seeds / \$3.00
12652.78 (W) Otero Co., NM, 5300ft, 1616m. JRT593 Bright white trumpets.	
Echinocereus coccineus (18x15,Z5,P,GL,3:4w)	40 seeds / \$3.00
12652.87 (W) Socorro Co., NM, 8000ft, 2439m. JRT560 Bright orange flowers shading to light orange-yellow center.	
Echinocereus coccineus (30x30,Z6,P,GL,3:4w)	40 seeds / \$3.00
12652.98 (W) Hudspeth Co., TX, 5400ft, 1646m. JRT481 Tall, cylindric, clumping stems with spine colors from straw-yellow and red to black. Large, light orange trumpet flowers with white centers.	
Echinocereus coccineus v. gurneyi (18x40, Z6, P, GL, 3:4w)	50 seeds / \$2.50
12653.01 Beautiful yellow-orange flowers tipped with deep orange.	
Echinocereus coccineus v. gurneyi (90x200,Z6,P,GL,3:4w)	40 seeds / \$3.00
12653.19 (W) Pecos Co., TX, 4700ft, 1433m. JRT482 Huge clumps 3 ft. high by over 6 ft. wide, comprised of 7-inch-thick stems. Nice large orange trumpet flowers.	
Echinocereus coccineus v. roetteri (16x20,Z6,P,GL,3:4w)	40 seeds / \$3.00
12651.17 (W) Otero Co., NM. JRT583 Large trumpets of yellow shading to feathery pink tips.	
Echinocereus coccineus v. roetteri (16x20,Z6,P,GL,3:4w)	40 seeds / \$3.00
12651.27 (W) Otero Co., NM. JRT584 Dark, burnt-orange fls. with sunset yellow to greenish centers.	
Echinocereus coccineus v. rosei (12x20,Z6,P,GL,3:4w)	40 seeds / \$3.00
12649.18 (W) Otero Co., NM, 5300ft, 1616m. JRT582 Hot, pinkish-red, double-layer-petalled fls.	
Echinocereus ctenoides (15x10,Z8,P,GL,3:4w)	40 seeds / \$3.50
12786.09 Ex Melcor Muzquiz, Coahuilla, MX. SB1536 Pure white-spined single stems with very large light orange flowers.	
Echinocereus dasyacanthus (25x18,Z5,P,GL,3:4w)	40 seeds / \$3.50
15116.12 (W) San Miguel Co., NM, 4000ft, 1220m. JRT5106 Single to multi-clumping stems with up to seven flowers per stem, ranging from dark yellow-orange to light creamy yellow and hints of pink in the midstripes. From the hardiest population known.	
Echinocereus dasyacanthus (18x12,Z6,P,GL,3:4w)	40 seeds / \$3.00
15116.45 (W) Crockett Co., TX. JRT4105 Smoky white spines, orange flowers with a trace of pink.	
Echinocereus dasyacanthus (18x12,Z6,P,GL,3:4w)	40 seeds / \$3.00
15116.65 (W) Terrell Co., TX, 2300ft, 701m. JRT4103 Glistening white spines, huge purple fls.	
Echinocereus X dasyacanthus (28x15,Z6,P,GL,3:4w)	40 seeds / \$3.00
15117.15 (W) Otero Co., NM, 5300ft, 1616m. JRT596 Intermediate spines, huge firey-red flowers.	
Echinocereus englemannii v. chrysocentrus (18x30,Z5,P,GL,3:4w)	50 seeds / \$3.50
29833.10 (W) Inyo Co., CA, 6050ft, 1845m. Dagger-like spines and purple-magenta fls. in spring.	
Echinocereus fendleri (18x8,Z5,P,GL,3:4w)	40 seeds / \$3.00
30298.15 (W) Fremont Co., CO, 5300ft, 1616m. JRT151 Robust 8" to 10" stems with variable spine colors and some partial hooks. Large purple flowers.	
Echinocereus fendleri (14x6,Z5,P,GL,3:4w)	40 seeds / \$3.00
30298.25 (W) Otero Co., NM, 5300ft, 1616m. JRT553 Distinct up-curving and twisting spines of variable length. Standard huge purple flowers.	
Echinocereus fendleri (20x10,Z5,P,GL,3:4w)	40 seeds / \$3.00
30298.47 (W) Socorro Co., NM, 6800ft, 2073m. JRT556 High elevation pop. with lax 4" dia. stems and 1½" upward-curving black central spines. Huge purple flowers.	
Echinocereus fendleri (40x30,Z6,P,GL,3:4w)	40 seeds / \$3.00
30298.57 (W) Chaves Co., NM, 5500ft, 1677m. JRT554 Giant clumping stems 6" dia. and 15" high with rectispinus-looking spines. Huge purple flowers.	
Echinocereus fendleri (15x6,Z6,P,GL,3:4w)	40 seeds / \$3.00
30298.67 (W) Guadalupe Co., NM, 3900ft, 1189m. JRT552 Long, up-curving central spines in black and ivory. Large purple-magenta flowers.	
Echinocereus fendleri (12x5,Z6,P,GL,3:4w)	40 seeds / \$3.00
30298.78 (W) Socorro Co., NM, 5000ft, 1524m. JRT557 Single, narrow stems with medium-sized, ivory and black spines. Large purple flowers.	
Echinocereus fendleri (12x16,Z6,P,GL,3:4w)	60 seeds / \$3.50
30298.80 (W) Sierra Co., NM, 6500ft, 1982m. Nice std. form here with the usual large magenta fls.	

- Echinocereus fendleri v. nova** (18x8,Z5,P,GL,3:4w) 30 seeds / \$3.50
30302.17 (W) Fremont Co., CO, 5300ft, 1616m. **JRT152** Tighter spines with short black centrals. Medium purple flowers.
- Echinocereus fitchii** (20x8,Z7,P,GL,3:4w) 40 seeds / \$3.00
30518.09 Ex Webb Co., TX. **JRT425** Nice orange to cinnamon spines on solitary, cylindric bodies. Profuse bloomer of pure pastel pink with a maroon center.
- Echinocereus X lloydii** (14x20,Z6,P,GL,3:4w) 100 seeds / \$3.00
54550.07 Densely-spined barrels bear huge flowers in various shades of orange, apricot and peach.
- Echinocereus X lloydii** (30x18,Z6,P,GL,3:4w) 40 seeds / \$3.00
54550.49 (W) Pecos Co., TX, 3200ft, 976m. **JRT492** Probably a natural hybrid of *E. coccineus* and *E. dasyacanthus*. Large 15" plus stems with huge dasy type, orange flowers, some with mid stripes.
- Echinocereus X lloydii** (35x15,Z6,P,GL,3:4w) 30 seeds / \$3.50
54550.57 (W) Pecos Co., TX, 4000ft, 1220m. **JRT493** Giant fat stems slowly offsetting. Giant dasyacanthus flowers in peachy-pink.
- Echinocereus X lloydii** (36x10,Z6,P,GL,3:4w) 40 seeds / \$3.00
54550.69 (W) Pecos Co., TX, 3200ft, 976m. **JRT491** Huge unusual custard-orange, dasy-type fls.
- Echinocereus pectinatus** (14x9,Z7,P,GL,3:4w) 40 seeds / \$3.00
70252.15 (W) Coahuila, (Thompson). Fat stems with tight red spines. Dark pink fls. / white centers.
- Echinocereus pectinatus v. wenigeri** (12x8,Z6,P,GL,3:4w) 40 seeds / \$3.00
70253.15 (W) Crockett Co., TX. **JRT441** Tight white spines, large pinkish-purple fls., white centers.
- Echinocereus pectinatus v. wenigeri** (10x15,Z6,P,GL,3:4w) 30 seeds / \$3.50
70253.29 Ex Thompson. **JRT012** Multi-clumping form producing stem size extremes, down to small clumping minors. Huge light pink flowers with white throats.
- Echinocereus pseudopectinatus** (20x6,Z6b,P,L,2) 40 seeds / \$3.00
70767.02 Thompson cult., ex Sonora, MX. **JRT036** Single cylindric, club-shaped stems with tight, hugging gray-purple spines. Large pinkish white flowers.
- Echinocereus reichenbachii** (10x5,Z5,P,GL,3:4w) 40 seeds / \$3.00
74248.25 (W) Morton Co., KS, 3500ft, 1067m. **JRT302** Red-/black-tipped spines. Pink-purple fls.
- Echinocereus reichenbachii** (20x6,Z5,P,GL,3:4w) 40 seeds / \$3.00
74248.45 (W) Beckham Co., OK, 1760ft, 537m. **JRT210** Short, tight spines variably colored black, red, straw and pink in distinct bands. Magenta flowers.
- Echinocereus reichenbachii** (25x7,Z5,P,GL,3:4w) 40 seeds / \$3.00
74248.65 (W) Greer Co., OK, 1600ft, 488m. **JRT217** Intermediate-spined plants of *E. baileyi* and *E. reichenbachii* with light colored spines of red, pink, yellow and white. Large, pure pink flowers.
- Echinocereus reichenbachii v. albispinus** (9x10, Z5, P, GL, 3:4w) 50 seeds / \$3.00
74246.00 Ex Troy Co., OK. Showy pale fuchsia flowers on barrels of spiraling, white spines.
- Echinocereus reichenbachii v. baileyi** (20x8,Z5,P,GL,3:4w) 40 seeds / \$3.00
74252.17 (W) Greer Co., OK, 1600ft. **JRT218** Tall, cylindric bodies with red, orange, yellow, white or pink spines. Nice large magenta flowers.
- Echinocereus reichenbachii v. baileyi** (16x5,Z5,P,GL,3:4w) 40 seeds / \$3.00
74252.38 (W) Commanche Co., OK. **JRT223** Semi-clumping with reddish spines and large pink fls.
- Echinocereus reichenbachii v. baileyi X perbellus** (20x4,Z5,P,GL,3:4w) 40 seeds / \$3.00
74252.48 (W) Kiowa Co., OK, 1400ft, 427m. **JRT220** Semi-clumping with intermediate spines in black, wine-red and lavender. Very stable pop.
- Echinocereus reichenbachii v. caespitosus** (14x5,Z5,P,GL,3:4w) 40 seeds / \$3.00
74245.28 (W) Johnston Co., OK, 850ft, 259m. **JRT215** Robust, large stems with tight short spines in white and peach tones. Flowers light pink with white centers.
- Echinocereus reichenbachii v. caespitosus** (10x6,Z6,P,GL,3:4w) 35 seeds / \$3.50
74251.27 Ex Kimble Co., TX, 1400ft., (Thompson). Single, mushroom-shaped stem with chalky-white spines. Large magenta flowers with a white center.
- Echinocereus reichenbachii v. caespitosus** (12x5,Z6,P,GL,3:4w) 40 seeds / \$3.00
74251.38 (W) San Saba Co., TX, 1200ft, 366m. **JRT419** Chunky stems with red to straw-yellow spines with red tips. Large flowers in light to dark pink shades.

- Echinocereus reichenbachii ssp. camanchensis** (15x30,Z5,P,GL,3:4w) 40 seeds / \$3.00
74254.18 (W) Kiowa Co., OK, 1500ft, 457m. **JRT221** Tight, pectinate spines with large, bright pink flowers. Most northwest population of caespitosus type found.
- Echinocereus reichenbachii v. castaneus** (16x5,Z7,P,GL,3:4w) 40 seeds / \$3.00
74249.19 (W) Llano Co., TX, 1600ft, 488m. **JRT418** Shaggy, comb-type spines with straw to rusty -pinkish-red bases and black tips. Castaneus black lace, clumping type.
- Echinocereus reichenbachii v. major** (9x12,Z5,P,GL,3:4w) 40 seeds / \$3.00
74247.15 Ex cult Thompson, origin unknown. Big fat clumper with 32-rib stems. Very short, tight spines and hairy areoles. Formerly listed as *E. reich. v. minor*.
- Echinocereus reichenbachii v. nova** (16x7,Z5,P,GL,3:4w) 40 seeds / \$3.00
74245.45 (W) Major Co., OK, 1900ft, 579m. **JRT205** A true black lace type but with long spines like *E. baileyi*. Long-tubed flowers of dark purple-pink. Formerly listed as *E. reich. v. purpureus*.
- Echinocereus reichenbachii ssp. pailanus** (15x5,Z7,P,GL,3:4w) 30 seeds / \$4.00
74253.08 Ex Sra Paila, Coahuila, MX. **JRT021** Mainly single stems with tight, brown spines and large, tri-colored flowers of white with red throats and hot pink tips.
- Echinocereus reichenbachii v. perbellus** (16x6,Z5,P,GL,3:4w) 40 seeds / \$3.00
74245.35 (W) Barber Co., KS, 1800ft, 550m. **JRT301** Bright orange-red to dark rust-red spines with nearly black tips. Magenta flowers with lighter centers.
- Echinocereus reichenbachii v. perbellus** (10x6,Z5,P,GL,3:4w) 40 seeds / \$3.00
74245.55 (W) Bent Co., CO, 4300ft, 1311m. **JRT111** Robust, fat stems, short tight spines. Large magenta flowers.
- Echinocereus reichenbachii v. perbellus** (10x6,Z5,P,GL,3:4w) 40 seeds / \$3.00
74245.67 (W) Las Animas Co., CO, 5600ft, 1707m. **JRT103** Small stems with tight, red and black spines. Flowers purple with a hint of pink.
- Echinocereus reichenbachii v. perbellus** (9x5,Z5,P,GL,3:4w) 40 seeds / \$3.00
74245.78 (W) Otero Co., NM, 4600ft, 1402m. **JRT108** Cylindric, narrow stems with extremely tight, short spines. Medium magenta flowers.
- Echinocereus reichenbachii v. perbellus** (35x18,Z5,P,GL,3:4w) 40 seeds / \$3.00
74245.85 (W) Woodward Co., OK, 1900ft, 579m. **JRT202** Tall cylindric clumps with stems to 15". Loose medium spines in rusty red black lace. Large dark magenta flowers with long tubes.
- Echinocereus reichenbachii v. perbellus** (8x4,Z5,P,GL,3:4w) 40 seeds / \$3.00
74248.15 (W) Ellis Co., OK, 1900ft, 579m. **JRT207** Small, mainly single stems with short, tight, chocolate-tinted spines. Relatively large, magenta flowers.
- Echinocereus reichenbachii v. perbellus** (14x5,Z5,P,GL,3:4w) 40 seeds / \$3.00
74248.38 (W) Cimmaron Co., OK, 4100ft, 1220m. **JRT216** Whitish spines with black tips. Pinkish-violet flowers with serrated fringing of the petals.
- Echinocereus reichenbachii v. perbellus** (20x5,Z5,P,GL,3:4w) 40 seeds / \$3.00
74248.55 (W) Woodward Co., OK, 1450ft, 442m. **JRT203** Short spine black lace. Magenta flowers.
- Echinocereus reichenbachii v. perbellus** (20x15,Z6,P,GL,3:4w) 40 seeds / \$3.00
74250.47 (W) Young Co., TX, 1300ft, 396m. **JRT413** Clumping, cylindric bodies with dark-tipped, straw-yellow to red spines. Large magenta flowers.
- Echinocereus reichenbachii v. perbellus** (15x6,Z5,P,GL,3:4w) 40 seeds / \$3.00
74250.57 (W) Hutchinson Co., TX, 2000ft, 610m. **JRT405** Silvery-white spines with a purplish, smokey haze and black tips. Large purplish-magenta flowers.
- Echinocereus reichenbachii v. perbellus** (20x10,Z5,P,GL,3:4w) 40 seeds / \$3.00
74250.78 (W) Tom Green Co., TX, 1800ft, 549m. **JRT415** Fat, mainly single stems with dark to almost white-colored spines tipped black. Huge white or green-centered, magenta flowers.
- Echinocereus rigidissimus v. rubrispinus** (15x8, Z10, P, GL, 1) 60 seeds / \$3.00
74472.14 Finely-knit spines are color-banded bright red, pink and ruby. Gorgeous deep violet fls.
- Echinocereus rusanthus v. cowie** (35x8,Z7,P,GL,3:4w) 40 seeds / \$3.00
74916.16 (W) Socorro Co., NM, 5500ft, 1677m. **JRT535** Clumping stems with fine needle spines and inner shorter radial spines white to bright golden yellow. Long central spines are bright red.

- Echinocereus russanthus v. neocapillus** (18x5,Z5,P,GL,3:4w) 30 seeds / \$3.50
74918.02 Thompson cult., ex Brewster Co., TX. **JRT038** Thick, golden and white-spined stems with greenish-chocolate flowers. Hairy seedlings.
- Echinocereus russanthus v. vulpis-cauda** (25x7,Z6,P,GL,3:4w) 40 seeds / \$3.00
74917.09 Ex Brewster Co., TX, 6000ft, (Thompson). Solitary, cylindric stems with dense, long, needle-type spines in violet-red and white. Small brownish-red flowers along the sides of the stem.
- Echinocereus triglochidiatus** (12x20, Z4, P, GL, 3:4w) 50 seeds / \$3.00
78752.33 (W) Uintah Co., UT, 6000ft, 1829m. Large, brilliant scarlet blossoms with green throats.
- Echinocereus triglochidiatus** (9x12,Z4,P,GL,3:4w) 40 seeds / \$3.00
78752.45 (W) Fremont Co., CO, 5500ft, 1677m. **JRT172** Short, white spines on short clumping stems. Flowers red with a hint of orange.
- Echinocereus triglochidiatus** (30x40,Z5,P,GL,3:4w) 40 seeds / \$3.00
78752.68 (W) Mesa Co., CO, 4800ft, 1463m. Huge mounds in this area, some containing over 200 stems. Long central spines and brilliant red flowers.
- Echinocereus triglochidiatus** (9x15,Z4,P,GL,3:4w) 50 seeds / \$3.50
78742.19 (W) Chaffee Co., CO, 7600ft, 2317m. A surprise find at this elevation. Small, clumping stems on a very rocky, E-facing slope. Flowers not seen, should be red.
- Echinocereus triglochidiatus** (40x65,Z5,P,GL,3:4w) 40 seeds / \$3.50
78752.10 (W) Beaver Co., UT, 6625ft, 2020m. The largest mounds I have ever seen, comprised of hundreds of heads, on black limestone cliffs.
- Echinocereus triglochidiatus f. inermis** (10x25, Z4, P, GL, 4:4w) 50 seeds / \$3.50
78749.18 (W) Mesa Co., CO, 6500ft, 1980m. A highly variable and fascinating population consisting of about 25% densely-spined, 50% sparsely-spined and 25% spineless forms. This seed was collected only from plants with little or no spination. Flowers the usual brilliant red.
- Echinocereus triglochidiatus v. mojavenis** (10x26,Z5,P,GL,3:4w) 40 seeds / \$3.00
78751.31 (W) San Bernadino Co., CA, 4500ft, 1372m. Attractive variant with long, twisting spines.
- Echinocereus triglochidiatus v. mojavenis** (8x25,Z5,P,GL,3:4w) 50 seeds / \$3.50
78751.40 (W) Coconino Co., AZ, 6200ft, 1890m. Few-headed plants here with medium-length, twisting spines. Originally offered as *Echinocereus triglochidiatus* (**78752.28**).
- Echinocereus triglochidiatus 'White Sands Strain'** (80x100,Z6,P,GL,3:4w) 45 seeds / \$3.00
78748.06 Ex Otero Co., NM. Robust, huge multi-headed mounds. Brilliant red-orange flowers.
- Echinocereus viridiflorus** (Cactaceae) (7x5,Z4,P,GL,3:4w) 40 seeds / \$3.00
90514.39 (W) Las Animas Co., CO, 5800ft, 1768m. **JRT139** Long, up-curving, central spines in red and white. Small bright green flowers with some brown tones, unusual.
- Echinocereus viridiflorus v. cylindricus** (35x10,Z6,P,GL,3:4w) 40 seeds / \$3.00
90523.28 (W) Chaves Co., NM, 5500ft, 1677m. **JRT536** Giant single stems with tight red & white radial spines. Prolific rings of large 1-1/2" dark brownish-green flowers.
- Echinocereus viridiflorus v. valencia** (10x6,Z5,P,GL,3:4w) 40 seeds / \$3.00
90515.16 (W) Valencia Co., NM, 5000ft, 1524m. **JRT533** Red & white radial spines in assorted color arrangements. Centrals in multiples of 2 or 3, white with red tips, and occasionally pure red.
- Edraianthus serbicus** (Campanulaceae) (9x12,Z6,P,L,3:6w) 80 seeds / \$3.50
76314.01 Tufts of long, linear leaves bear numerous stems with terminal clusters of dark violet-blue flowers. Beautiful rock garden plant from Bulgaria.
- Enceliopsis covillei** (Asteraceae) (65x30, Z5, P, C, 1) 30 seeds / \$3.00
12730.15 (W) Inyo Co., CA, 3600ft, 1100m. Huge yellow daisies, typically 5" to 6" across!
- Enceliopsis nudicaulis** (28x22,Z4,P,C,1) 40 seeds / \$3.00
58855.56 (W) Custer Co., ID, 5400ft, 1646m. Yellow daisies, scalloped leaves. The hardiest form.
- Ephedra minima** (Ephedraceae) (10x30,Z5,P,C,1) 40 seeds / \$3.50
56498.02 Lots of bright red berries by mid-summer on low tangled mats of blue-green stems.
- Ephedra nevadensis** (70x80,Z5,P,C,3:6w) 40 seeds / \$3.50
58330.30 (W) Inyo Co., CA, 6400ft, 1951m. Glaucous, gray-green stems bear pale brown to yellowish-green cones, followed by paired, brown seeds.

- Ephedra torreyana** (50x70,Z5,P,C,3:6w) 40 seeds / \$3.50
78755.10 (W) Emery Co., UT, 4300ft, 1311m. Every node of the grayish-green stems branches three ways, hence the original name *E. trifurca*. Fruits resemble "barite roses" cut from pinkish-tan paper.
- Ephedra viridis** (65x80,Z5,P,C,3:4w) 50 seeds / \$3.00
90516.47 (W) San Juan Co., NM, 6420ft, 1957m. Bright green, round stems bear yellow cones.
- Epilobium rigidum** (Onagraceae) (8x20,Z6,P,L,2) 12 seeds / \$7.50
74473.20 (W) Josephine Co., OR, 2500ft, 762m. To see is to want. Stunning contrast between the huge clusters of rose-violet blossoms and the intense icy-blue, clambering foliage. A challenge to cultivate but I have flowered it in my alpine house. In dry, serpentine gullies.
- Epipactis gigantea** (Orchidaceae) (35x25,Z7,P,L,7) 1000 seeds / \$4.00
32472.12 (W) Josephine Co., OR, 1700ft, 518m. An herbaceous perennial with multiple stems of lance-shaped leaves bearing reddish-brown, striped flowers, the lower petal cupped with a tongue colored yellowish. Streamside with *Darlingtonia californica* and *Lilium spp.*
- Epithelantha micromeris** (Cactaceae) (4x8,Z6,P,GL,3:4w) 30 seeds / \$3.00
56452.30 (W) Sutton Co., TX, 2200ft, 671m. Choice "Button Cactus" covered with fine white spines. Tiny salmon flowers are followed by bright red fruits clustered atop the stems.
- Eremalche rotundifolia** (Malvaceae) (20x20,A,SC,1) 30 seeds / \$3.00
74718.11 (W) San Bernadino Co., CA, 2950ft, 900m. A pretty desert annual with round lilac flowers, each of the 5 petals emblazoned with a prominent magenta blotch. Dark green, scalloped leaves.
- Erigeron basalticus** (Asteraceae) (5x15,Z6,P,L,1) 60 seeds / \$3.50
10116.19 (W) Yakima Co., WA, 1300ft, 396m. Loose rosettes of gray-green, lobed leaves bear lavender-tinged, white daisies all summer despite the heat. Endemic to basalt cliffs near Yakima.
- Erigeron breweri v. klamathensis** (9x22,Z5,P,L,3:6w) 100 seeds / \$4.00
10746.22 (W) Josephine Co., OR, 4700ft, 1433m. Multi-stemmed mounds clothed with white-haired, narrow leaves are covered with numerous violet flowers. Exposed, rocky ultramafic summits.
- Erigeron carringtonae** (5x8,Z4,P,L,1) 80 seeds / \$5.00
12114.28 (W) Sanpete Co., UT, 10550ft, 3216m. Tufts of thick, spatulate, dark-green leaves bear numerous lavender-pink flowers on very short stems. On a bare, windswept, calcareous ridge.
- Erigeron compactus** (5x10,Z5,P,L,1) 40 seeds / \$3.50
12696.10 (W) Emery Co., UT, 6600ft, 2073m. Dense, hard cushions of thread-like, gray-green foliage bear large, short-scaped, white daisies which age to pale pink. Wonderful for troughs.
- Erigeron coulteri** (15x12,Z4,P,L,3:6w) 100 seeds / \$3.50
12689.17 (W) Mineral Co., CO, 11300ft, 3445m. Large, snow-white daisies produced in abundance.
- Erigeron elegantulus** (4x30,Z5,P,L,3:4w) 30 seeds / \$4.00
25428.11 (W) Modoc Co., CA, 4600ft, 1402m. Mats of filiform leaves bear numerous smallish violet daisies. Growing on scoria fields. Would lend elegance to troughs.
- Erigeron glaucous** (14x16,Z9,P,L,1) 70 seeds / \$3.00
32544.19 (W) San Mateo Co., CA, 20ft, 6m. A coastal plant with rosettes of large obovate leaves and sumptuous blue to lavender daisies over an inch wide. Best grown as an annual in cold climates.
- Erigeron linearis** (10x24, Z5, P, L, 1) 70 seeds / \$3.00
54498.39 (W) Chelan Co., WA, 5700ft, 1738m. Bright, sunshine-yellow daisies. Very floriferous.
- Erigeron melanocephalus** (7x6, Z3, P, L, 1) 100 seeds / \$3.50
56294.24 (W) Gunnison Co., CO, 12200ft, 3720m. White flowers from woolly purple-black buds.
- Erigeron nanus** (6x9, Z4, P, L, 3:6w) 60 seeds / \$3.50
58098.24 (W) Cassia Co., ID, 9250ft, 2820m. A dwarf daisy bearing deep lavender-blue flowers.
- Erigeron ochroleucus v. scribneri** (4x6,Z3,P,L,1) 80 seeds / \$3.00
65235.25 (W) Sheridan Co., WY, 10100ft, 3079m. Gray, thready foliage and pale violet daisies.
- Erigeron peregrinus ssp. callianthemus** (15x10, Z3, P, L, 3:6w) 100 seeds / \$2.50
70314.14 (W) Chaffee Co., CO, 12100ft, 3689m. Large, Aster-like, deep violet fls. with wide rays.
- Erigeron pinnatisectus** (5x7,Z3,P,L,1) 70 seeds / \$3.50
70498.27 (W) Albany Co., WY, 10850ft, 3308m. Sumptuous lavender-blue fls. over pinnate foliage.
- Erigeron poliospermus** (5x8,Z6,P,L,1) 100 seeds / \$3.50
70695.22 (W) Kittitas Co., WA, 775ft, 236m. Nice lavender flowers over a woody crown.

- Erigeron pygmaeus** (3x7,Z3,P,L,3:6w) 50 seeds / \$4.00
70967.11 (W) Mono Co., CA, 11700ft, 3567m. Glandular tufts of linear leaves bear several short-stemmed violet daisies from black buds. On dolomitic screes.
- Erigeron radicans** (5x4,Z3,P,L,3:4w) 70 seeds / \$3.00
74055.16 (W) Fremont Co., WY, 8900ft, 2713m. Tufts of gray, linear leaves bear white flowers.
- Erigeron rydbergii** (4x5,Z3,P,L,3:6w) 30 seeds / \$3.50
74965.11 (W) Park Co., WY, 10300ft, 3140m. Tufts of narrowly-oblong leaves bear lavender-violet daisies. On windy, exposed alpine ridges.
- Erigeron tweedyi** (8x14,Z4,P,L,3:6w) 70 seeds / \$3.50
78926.20 (W) Custer Co., ID, 8950ft, 2728m. Tufts of oval, gray-green leaves bear numerous large lavender daisies radiating from a central rootstalk. Subalpine dweller of volcanic substrates.
- Erigeron uncialis** (2x5,Z5,P,L,2) 60 seeds / \$4.00
89812.19 (W) White Pine Co., NV, 10300ft, 3140m. Minute tufts of linear-spatulate leaves with large white flowers. Perfect miniature for troughs. Growing on limestone outcroppings.
- Erigeron ursinus** (5x10, Z5, P, L, 1) 75 seeds / \$3.50
91476.14 (W) Iron Co., UT, 10200ft, 3110m. Pretty bluish-lavender flowers over narrow leaves.
- Eriocyce curvispina** (Cactaceae) (8x11, Z6, P, GL, 3:6w) 90 seeds / \$3.00
12914.11 (W) Portillo, V Reg., Chile, 8000ft, 2439m. Long, twisting, grayish spines. Copper fls.
- Eriodictyon californicum** (Hydrophyllaceae) (90x45,Z7,P,GL,3:6w) 100 seeds / \$3.50
12094.40 (W) Tulare Co., CA, 5800ft, 1768m. "Yerba Santa." A xeric shrub with thick, dentate leaves, glossy above, paler below with prominent veins. Terminal clusters of tubular, lavender fls.
- Eriodictyon crassifolium** (120x90,Z7,P,GL,3:6w) 100 seeds / \$3.50
12746.20 (W) Riverside Co., CA, 4000ft, 1220m. Densely-felted, thick, crenulate leaves on robust bushes bear clusters of lavender, paler-throated, bell-shaped flowers.
- Eriodictyon traskiae** (120x90,Z7,P,GL,3:6w) 100 seeds / \$3.50
78761.10 (W) Santa Barbara Co., CA, 3700ft, 1128m. Clammy, tomentose leaves and lavender fls.
- Eriogonum bicolor** (Polygonaceae) (6x15,Z5,P,L,3:6w) 60 seeds / \$3.50
10452.15 (W) Mesa Co., CO, 5200ft, 1585m. Tufted mats of silver-gray, linear leaves bear poms very deep pink in bud, opening to reveal pale pink flowers. Grows on badlands of sandy clay.
- Eriogonum caespitosum** (10x16,Z4,P,C,3:4w) 80 seeds / \$4.00
12038.38 (W) Fremont Co., WY, 7750ft, 2363m. Dense buns of tiny, gray, spatulate leaves with short-scaped poms in red, chrome yellow and all intermediate combinations.
- Eriogonum chrysops** (9x15,Z4,P,L,3:8w) 70 seeds / \$4.00
12367.22 (W) Custer Co., ID, 8950ft, 2730m. Mats of white-woolly, oblong-spatulate leaves and poms of sulfur yellow which get shot through with red as they age. Plants with cream poms will occasionally be found. On exposed ridge crests of crumbling, metamorphic volcanic rocks.
- Eriogonum gracilipes** (8x12,Z4,P,L,3:8w) 50 seeds / \$5.00
32744.15 (W) Inyo Co., CA, 11400ft, 3475m. Outstanding crimson poms (sometimes flecked with cream) on pulvinate, grayish-green, woolly buns. Holds its form well in cultivation.
- Eriogonum heermannii v. sulcatum** (16x35,Z6,P,L,3:8w) 50 seeds / \$4.00
35272.10 (W) Clark Co., NV, 7000ft, 2134m. My vote for the most bizarre member of this genus. Horizontally-spreading, interwoven zig-zag stems form dense cushions which cover themselves with whitish flowers turning bright rust colors as they age. On steep, E-facing limestone screes.
- Eriogonum incanum** (12x26, Z5, P, L, 3:6w) 90 seeds / \$3.50
49812.10 (W) Jackson Co., OR, 7400ft, 2256m. Showy female poms of yellow and deep red.
- Eriogonum kingii** (6x14,Z4,P,L,3:8w) 40 seeds / \$4.00
52498.39 (W) Elko Co., NV, 8200ft, 2500m. Cushions of woolly, ovate leaves bear numerous poms of creamy yellow. Growing on granitic glacial detritus.
- Eriogonum libertini** (10x35,Z5,P,C,3:6w) 55 seeds / \$4.00
54450.12 (W) Trinity Co., CA, 5100ft, 1555m. Broad mats of tomentose, lanceolate, inrolled leaves in rosettes and bright yellow flowers on short stems. On serpentine screes.
- Eriogonum ovalifolium** (9x25,Z5,P,L,3:8w) 60 seeds / \$3.50
69009.51 (W) Modoc Co., CA, 4600ft, 1402m. A population with nice pink flowers on short scapes. On flats of pure scoria.

- Eriogonum ovalifolium (Wellington form)** (12x24,Z5,P,L,3:8w) 50 seeds / \$4.00
69009.38 (W) Carbon Co., UT, 5700ft, 1738m. Huge multicolored poms of yellow, red, and cream.
- Eriogonum ovalifolium v. nevadense** (10x16,Z5,P,L,3:6w) 75 seeds / \$3.50
69010.15 (W) Churchill Co., NV, 6000ft, 1829m. Bright chrome yellow poms aging to rusty pinks.
- Eriogonum ovalifolium v. nivale** (8x40,Z3,P,C,3:6w) 100 seeds / \$4.00
69011.51 (W) Washoe Co., NV, 8000ft, 2439m. Large tight mats of small oval leaves are covered with lax poms of white from rosy-pink buds. Great form here on decomposed white granite screes.
- Eriogonum shockleyi** (3x20,Z5,P,L,3:6w) 40 seeds / \$4.00
76360.80 (W) Beaver Co., UT, 5600ft, 1707m. Tight, silver-blue cushions studded with sessile cream poms aging rust. Growing in sandy clay, alkaline soils.
- Eriogonum siskiyouense** (10x22,Z5,P,L,3:6w) 40 seeds / \$4.00
76516.32 (W) Siskiyou Co., CA, 6300ft, 1920m. Dense mats of silvery blue-green, flat rosettes, the undersides of the oval leaves white felted. The bright lemon poms age to brilliant cherry-red shades.
- Eriogonum strictum v. greenei** (8x16,Z5,P,L,3:8w) 20 seeds / \$4.00
76822.12 (W) Siskiyou Co., CA, 8900ft, 2713m. Extremely condensed mats of thickly-felted, white leaves with poms on short stems that are white to pale pink, aging to a rusty deep pink. On exposed alpine, volcanic screes. Limited quantities.
- Eriogonum strictum v. proliferum** (15x25,Z5,P,L,3:8w) 70 seeds / \$4.00
76823.12 (W) Siskiyou Co., CA, 3900ft, 1190m. Mats of tomentose, oval leaves, much like a robust *E. ovalifolium*, with snow-white flower umbels, aging to rusty pink. On metamorphic volcanic rocks.
- Eriogonum thymoides** (14x20,Z5,P,C,3:8w) 100 seeds / \$4.00
78363.32 (W) Yakima Co., WA, 3550ft, 1082m. Tiny revolute linear leaves and masses of poms colored cream, chrome yellow, acid red, orange and every imaginable bicolor. On basalt scablands.
- Eriogonum umbellatum v. porteri** (6x12,Z3,P,C,3:4w) 100 seeds / \$4.00
89612.18 (W) Beaver Co., UT, 10400ft, 3170m. Absolutely the cutest buns of tiny, spatulate, green leaves, tinged red. Numerous poms of red and yellow turn orange-brown as they fade. Outstanding.
- Eriogonum ursinum** (24x35,Z6,P,C,3:6w) 80 seeds / \$4.00
91477.35 (W) Sierra Co., CA, 6000ft, 1829m. Large heads of deep yellow over olive-green mats.
- Eritrichium aretioides** (Boraginaceae) (3x5,Z3,P,L,2) 30 seeds / \$5.00
07431.48 (W) Sheridan Co., WY, 10100ft, 3079m. Silver-gray, woolly cushions sport sky-blue flowers. On a nearly level slope of limestone rubble. A classic challenge requiring sharp drainage.
- Erysimum jugicola** (Brassicaceae) (10x16,Z5,P,L,3:6w) 70 seeds / \$3.50
50872.00 Heads of bright yellow flowers over lance-shaped, toothed leaves.
- Erysimum pulchellum** (24x14,Z5,P,L,3:6w) 40 seeds / \$3.50
70896.08 Ex Turkey, Ula Dag, 2300m. Mustard-yellow flowers on stems about 12 inches tall.
- Erysimum wheeleri** (40x12,Z5,B,L,3:4w) 50 seeds / \$3.50
92356.66 (W) Graham Co., AZ, 7000ft, 2134m. Dense racemes of orange to deep orange-red fls.
- Erythronium californicum** (Liliaceae) (16x18,Z6,P,L,3:16w) 60 seeds / \$4.50
12095.11 (W) Humboldt Co., CA, 4850ft, 1478m. Cream flowers with cream anthers over heavily mottled leaves. Growing on N-facing serpentine slopes covered with a fine layer of pine duff.
- Erythronium citrinum** (14x15,Z6,P,L,3:16w) 70 seeds / \$4.50
12518.41 (W) Josephine Co., OR, 1300ft, 396m. Lovely creamy-white pendant flowers have a lemon-yellow base and fade to pinkish. On N-facing serpentine stony soil partly shaded by conifers.
- Erythronium elegans** (16x16,Z6,P,L,3:16w) 70 seeds / \$5.00
25429.12 (W) Tillamook Co., OR, 3150ft, 960m. Beautiful pendant white flowers with yellow-spotted bases and yellow anthers are often blushed pink. Unmottled leaves. Initially thought to be a hybrid between *E. revolutum* and *E. montanum*. On NE-facing ridge crests and woodland areas.
- Erythronium grandiflorum** (12x10,Z3,P,L,3:16w) 100 seeds / \$4.00
32748.29 (W) Albany Co., WY, 10600ft, 3232m. Golden yellow flowers / yellow anthers here.
- Erythronium hendersonii** (18x12,Z6,P,L,3:16w) 80 seeds / \$5.00
35298.32 (W) Jackson Co., OR, 1570ft, 479m. Beautiful lavender-pink flowers with a deep purple throat. Growing on gentle N-facing slopes in a heavily-shaded woodland area.

- Erythronium howellii** (14x15,Z6,P,L,3:16w) 45 seeds / \$4.00
35733.41 (W) Josephine Co., OR, 3100ft, 945m. Very similar to *E. citrinum* and doubtfully distinct from it, the only difference being the basal appendages on the petals are absent. N-facing serpentine slopes under scrub in a coniferous woodland.
- Erythronium idahoense** (16x12,Z4,P,L,3:16w) 100 seeds / \$5.00
41507.52 (W) Benewah Co., ID, 2750ft, 838m. Carpets the northern forests of Idaho by the thousands early in the spring with beautiful nodding cream flowers with white anthers, shading to yellow in the throat, over unmottled leaves.
- Erythronium klamathense** (11x10,Z5,P,L,3:16w) 100 seeds / \$4.00
52544.20 (W) Siskiyou Co., CA, 5800ft, 1768m. Cream flowers shading to yellow near the base, the whole aging pale pink over unmottled green leaves. Prefers N-facing side of serpentine outcrops.
- Erythronium montanum** (16x12,Z4,P,L,3:16w) 100 seeds / \$5.00
56699.52 (W) Yakima Co., WA, 5500ft, 1677m. These glistening white avalanche lilies appear in masses throughout the Cascades on N-facing slopes of volcanic loam. The snow-white flowers are up to 3" across and their throats are intricately lined with yellow-orange.
- Erythronium multiscapoideum (dwarf form)** (10x10,Z6,P,L,3:16w) 100 seeds / \$5.00
56894.22 (W) Trinity Co., CA, 5225ft, 1593m. Solitary pale yellow flowers on short scapes, fading to pale violet. On the gravelly serpentine soils of a broad ridge with just a slight northern aspect and lightly shaded. Much hardier and dwarfer than the Feather River populations.
- Erythronium oregonum ssp. leucandrum** (16x16,Z7,P,L,3:16w) 100 seeds / \$5.00
67427.12 (W) Douglas Co., OR, 1520ft, 463m. Nodding white flowers with white anthers, basally marked maroon to orangish-brown, mature to pink over mottled leaves. S-facing, but shaded, slopes.
- Erythronium revolutum** (18x16,Z7,P,L,3:16w) 35 seeds / \$5.00
74330.12 (W) Tillamook Co., OR, 1630ft, 497m. Bright pink tepals and bright yellow anthers over lightly-mottled leaves. In deep leaf-mould of partly-shaded woodland coastal mountain ridges.
- Erythronium tuolumnense** (15x16,Z6,P,L,3:16w) 70 seeds / \$4.00
78869.39 (W) Tuolumne Co., CA, 3400ft, 1037m. Bright yellow flowers are borne 2 or more per scape over green leaves with undulate margins. Prefers the deep shade of deciduous woodlands.
- Escobaria missouriensis** (Cactaceae) (2x4,Z5,P,L,3:4w) 25 seeds / \$4.00
56516.20 (W) Baca Co., CO, 4000ft, 1220m. **JRT1121** Tiny, usually single, flat stems. Medium straw-colored flowers. Small red fruits in the center of the stems, usually wintering over.
- Escobaria missouriensis** (9x24,Z5,P,L,3:4w) 25 seeds / \$4.00
56516.30 (W) Sedgewick Co., KS. **JRT3122** Multi-clumping type with straw-yellow flowers and dark mid-line stripes.
- Escobaria navajoensis** (3x9,Z5,P,L,3:4w) 20 seeds / \$3.50
56521.19 (W) Navajo Co., AZ. **JRT031** Flat-topped, nipped stem with short white spines and yellow-cream flowers. Occasionally clumps.
- Escobaria tuberculosa v. varicolor** (15x5,Z6,P,GL,2) 40 seeds / \$3.00
78853.19 Ex cult Thompson. **JRT029** Single cylindrical stems with semi-coarse, grayish-white spines. Flowers white with a hint of pink in rings at the top of the stem. Bright red fruits.
- Escobaria vivipara** (12x14,Z4,P,L,3:4w) 40 seeds / \$3.00
90530.37 (W) Mohave Co., AZ, 4500ft, 1372m. **JRT8101** Giant cylindrical stems with white, black-tipped spines. Bright, clear purple flowers in rings.
- Escobaria vivipara** (10x14,Z4,P,L,3:4w) 30 seeds / \$3.50
90530.62 Thompson cult., ex Coconino Co., AZ. **JRT034** Giant single stems with some white inner spines and covered with the blackest outer spines.
- Escobaria vivipara** (24x8,Z5,P,L,3:4w) 40 seeds / \$3.00
90530.78 (W) Hudspeth Co., TX. **JRT4112** Wide mammoth stems with flat tops. Spines fairly loose in red and white. Nice pink flowers.
- Escobaria vivipara** (18x5,Z5,P,L,3:4w) 40 seeds / \$3.00
90530.88 (W) Pecos Co., TX. **JRT4113** Tall cylindrical stem with semi-tight brownish-red and white spines. Magenta-pink flowers.
- Escobaria vivipara v. bisbeeana** (10x12,Z7,P,L,2) 75 seeds / \$2.50
10496.17 (W) Cochise Co., AZ, 4800ft, 1463m. Sumptuous flowers of deep pink shading to white.

- Escobaria vivipara v. bisbeeana** (15x8,Z5,P,L,2) 40 seeds / \$3.00
10496.22 Thompson cult., ex Gila Co., AZ. **JRT035** Light green stems with thin dark spines. Lighter than usual pink flowers.
- Eustoma grandiflorum** (Gentianaceae) (26x14,Z4,B,L,2) 1000 seeds / \$3.50
32753.27 (W) Fremont Co., CO, 5150ft, 1570m. One of our most spectacular wildflowers. Scores of vivid lavender-blue flowers with dark eyes on multiple stems bearing glaucous-blue leaves.
- Evolvulus nuttallianus** (Convolvulaceae) (10x18,Z5,P,SC,1) 60 seeds / \$3.50
58918.31 (W) Jefferson Co., CO, 6500ft, 1982m. From a central rootstalk arise silvery-green tufts of pinnate leaves clothed in silky hairs. 1-cm pale lavender morning-glory fls. are borne along the stems.
- Fendlera rupicola** (Saxifragaceae) (110x80,Z6,P,L,3:8w) 40 seeds / \$3.50
74920.18 (W) Grand Co., UT, 4000ft, 1220m. Pure snow-white flowers with spoon-shaped petals emit a delightfully intense fragrance. These small xeric shrubs are very early spring bloomers.
- Ferocactus acanthodes** (Cactaceae) (90x40,Z7,P,GL,2) 40 seeds / \$3.00
01210.15 (W) Mohave Co., AZ, 3800ft, 1160m. **JRT8701** Stems 1½ ft. round by 3½ ft. tall. Flat, vivid, pinkish-red, yellow and white spines in different combinations. Dark yellow flowers in rings.
- Ferocactus acanthodes ssp. lecontei** (90x40,Z5b,P,GL,2) 40 seeds / \$3.00
01211.02 Thompson cult. **JRT039** Giant single stems with time. Straw-yellow and pink spines with hooked centrals. Large yellow flowers ring the crown. Survived trials for 14 years outside to -20°F.
- Ferocactus acanthodes X wislizenii** (60x50,Z7,P,GL,2) 40 seeds / \$3.00
01212.01 Thompson cult. **JRT040** Cross performed by Jeff Thompson in 2011. Progeny expected to have intermediate characteristics.
- Ferocactus hamatacanthus** (40x30,Z8,P,GL,2) 40 seeds / \$3.00
35097.17 (W) Pecos Co., TX, 4300ft, 1311m. **JRT4401** Large barrels with about 15 ribs wrapped in very long, gray spines, the centrals recurved at the tip. Large yellow, fragrant fls. near the apex.
- Ferocactus sinuatus ssp. davisii** (30x12,Z7,P,GL,2) 30 seeds / \$3.00
76508.09 Ex TX (Thompson). **JRT030** Bright green, ribbed barrels adorned with all yellow spines and hooked centrals. Large yellow flowers with red centers in late summer.
- Ferocactus wislizenii** (40x60,Z8,P,GL,2) 40 seeds / \$3.50
92526.19 (W) Gila Co., AZ, 4600ft, 1402m. **JRT8705** Massive, squat barrels with heavy spines and hooked centrals. Large yellow flowers.
- Frasera albicaulis v. cusickii** (Gentianaceae) (28x15,Z4,P,GL,4:12w) 100 seeds / \$4.00
10412.18 (W) Owyhee Co., ID, 5600ft, 1707m. Grass-like clumps of long, white-edged leaves bear numerous scapes of starry, pale blue flowers. Sprouts from fractured basalt loam.
- Frasera fastigiata** (100x35,Z5,B,GL,4:12w) 40 seeds / \$3.50
30126.10 (W) Idaho Co., ID, 4800ft, 1463m. Columns of deep blue flowers over felted rosettes.
- Frasera speciosa** (135x30,Z3,B,L,4:12w) 100 seeds / \$3.00
76707.38 (W) Park Co., WY, 9500ft, 2896m. Large rosettes of soft-green, furrowed leaves may take several years to reach flowering size but when they do, the enormous columns of hundreds of cream and green, fringed blossoms may stand four to six feet high. Monocarpic.
- Fraxinus anomala** (Oleaceae) (200x150,Z5,P,C,4:8w) 75 seeds / \$3.50
05870.18 (W) Grand Co., UT, 4100ft, 1250m. "Singleleaf Ash." Small tree with Ginkgo-like leaves.
- Fremontodendron californicum** (Sterculiaceae) (180x150,Z7,P,C,3:12w) 40 seeds / \$3.50
12105.40 (W) Kern Co., CA, 7000ft, 2134m. Miniature trees with oak-like leaves bear five-petaled, nearly-circular, yellow blossoms in late spring followed by persistent, pendant, bristly fruits.
- Fritillaria camschatcensis** (45x16,Z3,P,C,4:12w) 50 seeds / \$3.50
12106.06 Ex Anchorage, AK, 100ft. "Chocolate Lily." Nodding dark chocolate-brown flowers.
- Fritillaria lanceolata** (14x9,Z5,P,C,3:12w) 40 seeds / \$4.00
54108.12 (W) Jefferson Co., WA, 4800ft, 1463m. Mottled flowers in various shades of green, purple and yellow over smooth, narrow leaves. Dwarf form here on S-facing, eroding, volcanic cliffs.
- Fritillaria pallidiflora** (35x14,Z5,P,C,4:12w) 30 seeds / \$4.00
70105.05 Ex Kazakhstan. Campanulate flowers of pale greenish yellow, tessellated maroon.
- Fritillaria pudica** (10x8,Z5,P,C,3:12w) 40 seeds / \$4.00
70865.36 (W) Yakima Co., WA, 3300ft, 1006m. Butterscotch-yellow flowers with brownish bases hang pendant over a few strips of narrow folded leaves. On S-facing loam derived from basalt.

- Gaillardia pulchella** (Asteraceae) (40x25,A,C,1) 75 seeds / \$2.50
70914.15 (W) Chaves Co., NM, 4500ft, 1372m. A very colorful and long-blooming annual with large flowers of cherry maroon at the center shading to orange and finally yellow at the notched tips.
- Garrya flavescens** (Garryaceae) (160x110,Z6,P,C,4:12w) 100 seeds / \$3.50
30547.19 (W) Washington Co., UT, 6100ft, 1860m. Drought-tolerant, dioecious shrubs of leathery, gray leaves bear catkins followed by grape-like clusters of purplish berries covered in silky hairs.
- Gentiana affinis** (Gentianaceae) (12x10, Z3, P, GL, 3:8w) 100 seeds / \$2.50
09030.23 (W) Park Co., CO, 9900ft, 3018m. A robust form with myriad very deep blue flowers.
- Gentiana algida** (6x8, Z3, P, L, 4:8w) 100 seeds / \$3.50
11432.39 (W) Park Co., CO, 12800ft, 3902m. (= *Gentianodes algida*.) Light green leaves with creamy, translucent trumpets vertically striped dark purple. Late bloomer, just before the first snows.
- Gentiana asclepiadea** (50x24,Z5,P,GL,3:8w) 100 seeds / \$3.50
13612.02 Robust plants with lanceolate leaves and clusters of sessile deep blue fls in the upper axils.
- Gentiana asclepiadea f. alba** (50x24,Z5,P,GL,3:8w) 100 seeds / \$3.50
13613.02 Clusters of sessile cream to white flowers in the upper axils.
- Gentiana asclepiadea f. rosea** (50x24,Z5,P,GL,3:8w) 100 seeds / \$3.50
13614.02 Clusters of sessile rose to pink flowers in the upper axils.
- Gentiana calycosa** (7x12,Z3,P,L,3:8w) 100 seeds / \$4.00
13056.21 (W) Uintah Co., UT, 11000ft, 3354m. A decumbent, creeping form with ovate leaves and deep-blue flowers with a cream, speckled throat. On moist alpine tundra at timberline.
- Gentiana calycosa v. asepala** (12x14, Z3, P, L, 3:8w) 100 seeds / \$3.00
13156.10 (W) Idaho Co., ID, 7600ft, 2317m. Blue fluted flowers spotted greenish inside. Erect form.
- Gentiana clusii ssp. alboviolacea** (5x11,Z5,P,GL,3:8w) 40 seeds / \$5.00
12558.01 Ex Germany. Stunning pale pink flowers, darker externally and spotted deep pink in the throat. Tiny stacks of triangular leaves.
- Gentiana lutea** (110x65,Z5,P,L,3:8w) 100 seeds / \$3.50
54938.02 Large leafy clumps erupt into several spikes densely covered with yellow flower clusters.
- Gentiana newberryi** (8x8,Z4,P,L,3:8w) 100 seeds / \$4.00
58352.22 (W) Trinity Co., CA, 7900ft, 2408m. Over small rosettes are borne dark blue, fringed flowers with darker stripes in the throat and speckles on the petals. Ultramafic soils near timberline.
- Gentiana paradoxa** (30x16,Z4,P,L,3:8w) 90 seeds / \$4.00
70134.05 (W) Halda coll. Needle-like leaves and green-marked blue flowers about 2" long, appearing for several weeks in late summer. West Caucasus on limestone rocks.
- Gentiana parryi** (18x12,Z3,P,L,3:8w) 100 seeds / \$4.00
70135.41 (W) Mesa Co., CO, 10300ft, 3140m. Extra robust form here on the Grand Mesa with multiple stems bearing terminal clusters of large deep blue flowers.
- Gentiana scabra v. buergeri** (40x10, Z5, P, L, 3:8w) 100 seeds / \$2.00
76130.14 (W) Hida Reg., Japan, 850m. Large flowers of deep blue, usually heavily spotted inside.
- Gentiana setigera** (12x7,Z6,P,L,3:8w) 90 seeds / \$4.00
76338.12 (W) Josephine Co., OR, 1850ft, 564m. A serpentine bog endemic forming prostrate, green-yellow rosettes. The deep blue, white-throated flowers are 4 cm long, with a few curly fibrillae.
- Gentiana sikokiana** (12x16,Z6,P,GL,1) 100 seeds / \$4.00
76512.00 Obovate leaves with rounded serrations bear blue, green-spotted funnel-flowers. Japan.
- Gentiana triflora v. japonica** (40x12,Z6,P,L,3:8w) 100 seeds / \$3.00
78757.18 (W) Sapporo, Japan, 20m. Tufts of lanceolate leaves along creeping rhizomes produce erect stems bearing several whorls of deep blue flowers.
- Gentiana triflora v. montana f. alba** (35x28,Z5,P,GL,3:8w) 100 seeds / \$3.50
78773.02 Tufts of lanceolate leaves from creeping rhizomes produce several stems with interrupted whorls of deep blue tubular flowers. Siberia.
- Gentiana verna** (7x9,Z4,P,GL,3:8w) 100 seeds / \$3.50
90334.02 Classic European Gentian with compact rosettes and dark inky-blue flowers on short stems.
- Gentianopsis barbellata** (12x5, Z3, B/P, L, 3:8w) 100 seeds / \$2.50
10134.14 (W) Summit Co., CO, 11800ft, 3598m. Linear leaves and deep blue, fringed flowers.

- Gentianopsis detonsa v. elegans** (15x7,Z4,B/P,L,3:8w) 100 seeds / \$3.50
15339.12 (W) Park Co., WY, 6600ft, 2012m. Somewhat dwarfed than *G. thermalis* and exhibits lighter colored flowers of blue to deep lavender shades. Edges of marshlands.
- Gentianopsis thermalis** (18x8,Z4,B/P,L,3:8w) 100 seeds / \$3.50
78360.17 (W) Mineral Co., CO, 9650ft, 2942m. Beautiful dark blue, deeply-fringed flowers.
- Geranium viscosissimum** (Geraniaceae) (35x30,Z4,P,SC,1) 15 seeds / \$3.50
90536.19 (W) Park Co., WY, 7550ft, 2302m. Slightly viscid plants with partially divided leaves and clusters of large magenta flowers, often conspicuously veined.
- Gilia aggregata (orange)** (Polemoniaceae) (40x15,Z5,B,L,3:6w) 90 seeds / \$3.50
09235.11 (W) Jackson Co., OR, 6500ft, 1982m. Flowers of minutely checkered red and yellow blend to a striking orange. On volcanic screes.
- Gilia aggregata (pink)** (50x24, Z3, B, L, 3:6w) 100 seeds / \$3.00
09234.23 (W) Park Co., CO, 9800ft, 2988m. Trumpets of pale to deep pink, including salmon-pink.
- Gilia aggregata (red)** (30x12, Z3, B, L, 3:6w) 55 seeds / \$3.00
09232.14 (W) Gunnison Co., CO, 9900ft, 3018m. The beautiful scarlet-orange form. Dwarf plants.
- Gilia aggregata (white)** (35x12, Z4, B, L, 3:6w) 90 seeds / \$2.50
09236.15 (W) Elbert Co., CO, 6650ft, 2030m. The pure white form predominates on the Plains.
- Gilia aggregata v. macrosiphon** (40x14, Z3, B, L, 3:6w) 75 seeds / \$3.00
09237.21 (W) Iron Co., UT, 9400ft, 2866m. A deeper, more luminous fuchsia color here.
- Gilia caespitosa** (10x16,Z5,P,L,2) 20 seeds / \$5.00
12033.10 (W) Wayne Co., UT, 7200ft, 2200m. The fabulous "Scarlet Gilia" ranks with *Kelseya uniflora* in rarity, mystique and cultivational challenges. Thready stems bear salverform flowers of scarlet. The cushions appear crystalline due to the native pinkish sand adhering to the viscid leaves.
- Gilia formosa** (10x18, Z5, P, L, 4:8w) 60 seeds / \$4.00
30734.14 (W) San Juan Co., NM, 6000ft., 1830m. Salverform flowers of lavender-pink. Choice.
- Gilia rigidula** (7x10,Z6,P,L,3:6w) 60 seeds / \$3.50
74492.25 (W) Eddy Co., NM, 3800ft, 1159m. Tufts of awl-shaped, glandular leaves produce prolific bowl-shaped flowers in a deep china-blue color darkening to a purple ring in the throat. Calciphile.
- Gilia stenothyrsa** (50x10,Z4,B,L,3:4w) 90 seeds / \$4.00
76788.17 (W) Uintah Co., UT, 5500ft, 1675m. Beautiful filigreed rosettes, one to several dense racemes of pure white flowers with exserted stamens. Worthy of cultivation. On sandstone ledges.
- Gilia subnuda** (20x15,Z6,B,L,3:6w) 100 seeds / \$3.50
76870.41 (W) Garfield Co., UT, 6000ft, 1829m. Viscid rosettes with maroon undersides erupt into busy panicles of hundreds of bright carmine-red, tubular flowers. Sandy canyon hillsides.
- Glandulicactus uncinatus ssp. wrightii** (Cactaceae) (15x7,Z7,P,GL,3:4w) 30 seeds / \$3.50
91812.18 (W) Hudspeth Co., TX, 3300ft, 1006m. **JRT4312** Single stems with 2-inch-long fish-hooked spines in yellow and dark pink. Apical, reddish-brown, striped flowers.
- Glandulicactus uncinatus ssp. wrightii** (20x8,Z7,P,GL,3:4w) 30 seeds / \$3.50
91812.28 (W) Pecos Co., TX. **JRT4311** 3-inch-long fish-hook spines in yellow and reddish-pink. One-inch, dark reddish-chocolate, striped flowers.
- Glaucidium palmatum** (Ranunculaceae) (40x40,Z6,P,GCE,4:8w) 30 seeds / \$5.00
70114.18 (W) Sapporo, Japan, 20m. Beautiful pale lavender-blue flowers 2" to 3" (5 to 8 cm) across with undulate margins are borne singly on short scapes. Best under cool and lime-free conditions.
- Glaucidium palmatum v. leucanthum** (40x40,Z6,P,GCE,4:8w) 30 seeds / \$5.00
70115.09 Ex Japan. This form has white flowers.
- Grahamia coahuilensis** (Portulacaceae) (5x12, Z10, P, L, 1) 30 seeds / \$3.50
12609.08 Ex Mex. A caudex-forming species with succulent, oblanceolate leaves and deep pink fls.
- Grayia spinosa** (Chenopodiaceae) (90x90,Z5,P,L,3:6w) 100 seeds / \$3.50
76712.20 (W) Utah. Small bushes with linear leaves and persistent woody spines. The tiny flowers appear in mid-spring and are surrounded by large reddish bracts.
- Gymnocalycium baldianum** (Cactaceae) (6x11,Z7,P,GL,3:4w) 40 seeds / \$3.00
10114.07 Ex Catamarca, Argentina. Semi-dome-shaped, dark-green stems with few soft tan spines adpressed to the stem. Tubular flowers in hot red to pink in rings on crown.

- Gymnocalycium bruchii** (4x9,Z5b,P,GL,3:4w) 40 seeds / \$3.00
10765.08 Ex Cordova Argentina. Low, dark-green, flat-topped, multi-clumping stems with few soft, white spines. Light pink flowers on top crown in rings.
- Haplopappus acaulis** (Asteraceae) (5x12,Z4,P,C,1) 50 seeds / \$3.50
01217.21 (W) Mono Co., CA, 11400ft, 3476m. (= *Stenotus acaulis*.) Prickly mats of sharp-tipped leaves produce many golden daisies on short stems in late spring. This population growing on gentle, E-facing slopes of dolomitic rubble.
- Haplopappus cf. glutinosus** (24x45,Z6,P,L,2) 30 seeds / \$3.50
32563.17 Low shrubs with spatulate, toothed leaves bear 1" yellow daisy-flowers on long peduncles all summer until frost.
- Haplopappus macronema** (24x35,Z3,P,C,3:6w) 40 seeds / \$3.50
56082.21 (W) Beaver Co., UT, 11100ft, 3384m. (= *Ericameria discoidea*.) A twiggy, alpine shrublet with narrow, crinkled leaves lining the white, tomentose stems. Bright yellow, rayless flowers terminate each stem late in the season. The entire plant has a fruity fragrance like pineapple.
- Haplopappus stenophyllus** (8x14,Z6,P,L,2) 40 seeds / \$3.50
76789.32 (W) Yakima Co., WA, 3550ft, 1082m. Acicular gray-green leaves and myriad yellow flowers. On basalt scablands.
- Hedeoma nana** (Lamiaceae) (10x8,Z5,P,L,1) 100 seeds / \$3.00
58128.15 (W) Garfield Co., UT, 7800ft, 2378m. Fragrant, Thyme-like plants with pale purple fls.
- Hereroa calycina** (Aizoaceae) (7x18,Z6,P,L,1) 40 seeds / \$3.00
12124.09 A vigorous grower forming mats of hatchet-shaped leaves. Nocturnal, yellow flowers.
- Hesperaloe parviflora** (Agavaceae) (120x70, Z8, P, C, 2) 50 seeds / \$3.00
70145.04 Ex Bernalillo, NM. Fleshy, pendant, tubular flowers of coral-red over Yucca-like foliage.
- Hesperocallis undulata** (Liliaceae) (45x26,Z9,P,EC,2) 50 seeds / \$4.00
92815.20 (W) Imperial Co., CA, 300ft. With sufficient rainfall, racemes bearing numerous silvery-white, 6-petalled flowers pop out of the sand dunes of its native habitat by the thousands. By early summer, the bluish, undulate, basal foliage dies back, leaving a few capsules on the dry stalks.
- Heuchera hallii** (Saxifragaceae) (20x20,Z4,P,L,1) 100 seeds / \$3.50
35124.17 (W) Chaffee Co., CO, 9200ft, 2805m. Scalloped leaves in a dense mass of rosettes bear campanulate cream flowers on several racemes. A most elegant plant. On north-facing granite tors.
- Heuchera parvifolia v. nivalis** (15x16,Z3,P,L,1) 100 seeds / \$3.00
70146.17 (W) Lake Co., CO, 12800ft, 3900m. Numerous spikes of white, campanulate flowers.
- Heuchera pulchella** (15x20,Z4,P,L,1) 100 seeds / \$4.00
70924.37 (W) Bernalillo Co., NM, 10400ft, 3171m. Dwarf rhizomes creep through limestone cracks and bear short spikes of pink to burgundy-colored, hairy bells. One of the best.
- Heuchera rubescens v. versicolor** (30x30,Z4,P,L,1) 100 seeds / \$3.50
74881.17 (W) Lincoln Co., NM, 10000ft, 3050m. Beautiful pale pink and burgundy fringed bells.
- Heuchera sanguinea v. pulchra** (20x12,Z7,P,L,1) 100 seeds / \$4.00
76131.10 (W) Cochise Co., AZ, 6800ft, 2073m. Hairy leaves in multiple rosettes grow hanging in crevices on N-facing granite cliffs. Startling racemes of brilliant fuchsia-pink to carmine. Super!
- Horkelia hendersonii** (Rosaceae) (10x20,Z5,P,L,3:6w) 90 seeds / \$4.00
35328.11 (W) Jackson Co., OR, 7400ft, 2256m. Mats of cylindric, cut, gray leaves covered with silky hairs. Heads of small pinkish flowers. A rare Siskiyou endemic.
- Hulsea algida** (Asteraceae) (18x16, Z3, P, L, 3:6w) 30 seeds / \$3.00
12432.14 (W) Carbon Co., MT, 9500ft, 2896m. Large yellow fls. over aromatic, undulate foliage.
- Hulsea nana** (9x16,Z5,P,L,3:6w) 40 seeds / \$4.00
58129.15 (W) Siskiyou Co., CA, 8900ft, 2713m. Numerous yellow flowers on viscid, compact mats.
- Hymenoxys acaulis v. caespitosa** (Asteraceae) (3x8, Z3, P, C, 1) 25 seeds / \$4.00
01215.37 (W) Albany Co., WY, 7200ft, 2195m. Superb form with sessile yellow flowers on tight, multi-headed, silver rosettes. Almost as compact as *H. lapidicola*. On windswept chalky knolls.
- Hymenoxys acaulis v. ivesiana** (26x14,Z5,P,L,1) 45 seeds / \$3.50
01216.27 (W) Montezuma Co., CO, 5900ft, 1800m. Branching scapes with large yellow flowers.

Hymenoxys argentea (10x12,Z5,P,C,1)	40 seeds / \$3.00
14432.15 (W) Torrance Co., NM, 6500ft Mats of spoon-shaped silver leaves erupt with yellow fls.	
Hymenoxys grandiflora (14x9,Z3,P,C,1)	70 seeds / \$3.50
32747.30 (W) Custer Co., ID, 10200ft, 3110m. Woolly, dissected leaves and huge yellow heads.	
Hymenoxys scaposa (12x18,Z5,P,L,1)	40 seeds / \$3.00
76127.17 (W) Mora Co., NM, 6300ft, 1921m. Prolific yellow daisies over grassy foliage.	
Hymenoxys subintegra (25x12,Z5,B,L,1)	50 seeds / \$3.00
76880.15 (W) Coconino Co., AZ, 6100ft, 1860m. Intensely-silver, dissected rosettes. Yellow fls.	
Hymenoxys torreyana (8x12,Z4,P,L,1)	40 seeds / \$4.00
78744.11 (W) Uintah Co., UT, 7550ft, 2302m. Dome-like, woolly cushions are covered with huge yellow daisies in early spring. A recollection of one of our best introductions, back in 1994.	
Liamna grandiflora (Malvaceae) (100x45,Z5,P,SC,3:4w)	35 seeds / \$4.00
32749.57 (W) Bernalillo Co., NM, 10300ft, 3140m. Vigorous Hollyhock-like bushes with large (over 2") lavender-pink flowers lining each stem by the hundreds. Magnificent in full bloom.	
Liamna rivularis (120x90,Z3,P,SC,1)	50 seeds / \$3.00
74570.17 (W) Teton Co., WY, 6800ft, 2075m. Satin cup-flowers in rich pink to pearly white hues.	
Impatiens textori (Balsamaceae) (60x25, A, C, 1)	16 seeds / \$2.50
78374.04 Bushy-looking plants with typical ovate leaves and broad, pink flowers. Japanese species.	
Ipomopsis globularis (Polemoniaceae) (12x8,Z3,B,L,4:6w)	60 seeds / \$3.50
32562.27 (W) Park Co., CO, 11900ft, 3628m. Fragrant furry globes of pale lavender to cream.	
Ipomopsis macombii (35x22,Z7,B,L,3:6w)	60 seeds / \$3.50
56092.17 (W) Santa Cruz Co., AZ, 6500ft, 1982m. Multiply-stemmed, glandular plants with linear leaves. The long-tubed flower trumpets are a beautiful shade of lavender-blue. Late summer bloomer.	
Iris bracteata (Iridaceae) (35x30,Z6,P,C,4:8w)	50 seeds / \$4.00
10748.32 (W) Josephine Co., OR, 3100ft, 945m. Beautiful large yellow flowers, veined maroon, over broad foliage. Endemic to a small area near Takilma in southern Oregon.	
Iris bucharica (40x18, Z6, P, C, 4:8w)	25 seeds / \$4.00
10892.04 Fragrant, cream and rich yellow flowers from horny-margined leaves stacked in tiers.	
Iris douglasiana (30x50,Z9,P,C,3:8w)	80 seeds / \$3.50
15691.32 (W) Curry Co., OR, 100ft, 33m. Flowers not seen but are usually in the blue to deep lavender shades, the falls with a yellow blotch over a network of dark veining. Seaside coastal areas.	
Iris ensata v. spontanea (40x25,Z5,P,C,4:8w)	20 seeds / \$3.50
33876.19 (W) Hida Region, Japan, 850m. A wild collection with deep blue flowers.	
Iris missouriensis (40x40,Z5,P,L,4:12w)	100 seeds / \$3.50
56556.37 (W) Bernalillo Co., NM, 10300ft, 3140m. Robust population with numerous blue-violet fls.	
Iris setosa ssp. canadensis (40x40,Z3,P,C,3:8W)	40 seeds / \$3.50
76358.01 Plum-blue flowers with a white spot at the base of the falls, all veined dark violet. Acid soil.	
Jamesia americana (Saxifragaceae) (150x50,Z4,P,L,2)	100 seeds / \$3.50
05636.18 (W) Larimer Co., CO, 8000ft, 2440m. An attractive, deciduous shrub with exfoliating bark and crenate leaves green above, gray-tomentose underneath. Showy terminal white flower clusters.	
Juniperus deppeana (Cupressaceae) (550x300,Z6,P,SC,4:8w)	30 seeds / \$3.00
15360.30 (W) Coconino Co., AZ, 7200ft, 2195m. "Alligator Juniper", so named because of its distinctive reptilian bark pattern. This seed from one of the hardiest populations.	
Keckiella cordifolia (Scrophulariaceae) (130x65,Z6,P,RL,3:8w)	100 seeds / \$3.50
12765.10 (W) San Diego Co., CA, 4700ft, 1433m. Arching sprays from a central woodstalk lined with cordate leaves and terminating in panicles of scarlet, bilabiate flowers.	
Keckiella corymbosa (40x30, Z6, P, RL, 3:6w)	100 seeds / \$3.00
12764.14 (W) Siskiyou Co., CA, 1600ft, 488m. Arching panicles of hairy, deep red, lipped flowers.	
Kelseya uniflora (Rosaceae) (3x24,Z3,P,L,4:6w)	45 seeds / \$6.00
85852.28 (W) Johnson Co., WY, 8200ft, 2500m. The classic cushion -- literally welds itself to limestone outcroppings, preferring shady, vertical, and seemingly the most inaccessible crevices. Domes of tight rosettes produce pale to rose-pink blossoms. Slow-growing, a challenge for the patient.	
Kirengeshoma palmata (Saxifragaceae) (100x45,Z5,P,L,3:16w)	45 seeds / \$3.00
70144.08 Palmately-lobed leaves and cymes of showy, trumpet-shaped, yellow flowers.	

- Koeleria macrantha** (Poaceae) (70x20,Z4,P,L,1) 100 seeds / \$3.00
56102.09 Produces lovely silvery-green seedhead spikes in early summer.
- Laserpitium halleri** (Apiaceae) (40x25,Z5,P,C,3:8w) 40 seeds / \$3.00
35154.11 (W) Valais, Switzerland, 6900ft, 2100m. Beautiful clumps of finely-pinnate foliage bear umbels of white flowers in summer.
- Lathyrus eucosmos** (Fabaceae) (16x75,Z4,P,SC,3:6w) 30 seeds / \$3.50
28136.29 (W) Elbert Co., CO, 6200ft, 1890m. Showy racemes of lavender-magenta pea-flowers, the keels shading to white, on shin-high plants. Growing in the loam of wind-swept prairies.
- Ledum glandulosum** (Ericaceae) (45x75,Z4,P,L,3:8w) 100 seeds / \$3.50
32550.20 (W) Idaho Co., ID, 7400ft, 2256m. Small shrubs with leathery, evergreen leaves fragrant of sandalwood. Terminal clusters of pure white flowers with protruding stamens.
- Lepidium nanum** (Brassicaceae) (2x16,Z4,P,L,1) 80 seeds / \$4.00
58158.20 (W) Nye Co., NV, 5200ft, 1585m. Tiny sessile cream flowers stud rock-hard green cushions. On fine white ash deposits.
- Leptodactylon californicum** (Polemoniaceae) (90x55,Z6,P,L,2) 50 seeds / \$4.00
12154.10 (W) Santa Barbara Co., CA, 1350ft, 410m. Wiry stems of acicular leaves and masses of large, bright deep pink flowers with a white eye. Blooms in under a year from seed.
- Leptodactylon pungens** (12x22,Z3,P,GL,3:8w) 100 seeds / \$4.00
70958.21 (W) Fremont Co., WY, 8050ft, 2454m. Spiny bushlets covered with fragrant, creamy fls.
- Leptodactylon watsonii** (6x15,Z4,P,GL,3:6w) 70 seeds / \$4.00
92178.15 (W) Custer Co., ID, 6600ft, 2012m. Forms delightful spiny clumps which cascade over rocky areas to perfection. Large cream blossoms open from tightly-spiralled buds in the evening.
- Lesquerella alpina** (Brassicaceae) (5x8,Z5,P,L,3:6w) 50 seeds / \$3.00
15470.11 (W) Garfield Co., UT, 8000ft, 2439m. Dense tufts of linear, silvery-white leaves bear broad umbel-like clusters of yellow. On limestone hills.
- Lesquerella alpina ssp. parvula** (4x9, Z3, P, L, 3:6w) 60 seeds / \$3.00
15471.13 (W) Lake Co., CO, 9500ft, 2896m. Tiny buns of thready leaves, short scapes of yellow.
- Lesquerella arizonica** (2x7,Z5,P,L,2) 70 seeds / \$3.50
07440.27 (W) Coconino Co., AZ, 6500ft, 1982m. Compact buns of gray linear lvs., yellow flowers.
- Lesquerella ovalifolia** (6x8, Z5, P, L, 3:4w) 90 seeds / \$3.00
69015.14 (W) Fremont Co., CO, 4800ft, 1465m. Intensely silver, oval leaves and racemes of yellow.
- Lesquerella subumbellata** (2x3,Z4,P,L,3:6w) 70 seeds / \$3.50
85587.17 (W) Uintah Co., UT, 7550ft, 2302m. Tiny silver-gray tufts with short scapes of yellow fls.
- Leucophyllum frutescens** (Scrophulariaceae) (150x120, Z7, P, L, 1) 100 seeds / \$2.50
30758.14 (W) Doña Ana Co., NM, 4400ft, 1340m. Blossoms are violet / white throats / gold speckles.
- Lewisia brachycalyx** (Portulacaceae) (4x9,Z5,P,L,3:8w) 80 seeds / \$4.00
10770.20 (W) Coconino Co., AZ, 7100ft, 2165m. From flat rosettes of deep-green, spatulate leaves arise spectacular bouquets of white to deep-pink, bowl-shaped, sessile flowers. Summer dormant.
- Lewisia brachycalyx** (4x9,Z5,P,L,3:8w) 80 seeds / \$4.00
10750.90 (W) Washington Co., UT, 6150ft, 1875m. This population has pure white flowers.
- Lewisia columbiana** (16x18,Z5,P,L,3:8w) 100 seeds / \$3.50
12750.20 (W) Chelan Co., WA, 5700ft, 1738m. Rosettes of fleshy, oblanceolate leaves bear loose panicles of starry, pinkish-magenta flowers with darker stripes. On ridge crests of fractured basalt.
- Lewisia columbiana v. wallowensis** (8x12,Z5,P,L,3:8w) 100 seeds / \$4.00
12753.12 (W) Idaho Co., ID, 7600ft, 2317m. A much dwarfier form here. Small rosettes bear myriad branching stems with hundreds of pale pink flowers. On metamorphic volcanic ridges near timberline.
- Lewisia cotyledon** (15x20,Z6,P,L,3:8w) 100 seeds / \$3.50
12778.16 (W) Siskiyou Co., CA, 5100ft, 1555m. The predominant form is white broadly striped deep pink. However, many variations prevail here from solid deep pink to red and orange hues.
- Lewisia cotyledon v. heckneri** (28x24,Z6,P,L,3:8w) 30 seeds / \$5.00
12780.16 Ex cult. from original wild site Trinity Co., CA, 5380ft, 1640m. A superb form with rosettes of large, serrated leaves. Spectacular inflorescences of pink to rose-pink. Hand-pollinated.

- Lewisia cotyledon v. howellii** (26x24,Z7,P,L,3:8w) 100 seeds / \$4.50
12781.11 (W) Shasta Co., CA, 3125ft, 953m. Luxurious plants with long, undulate-margined leaves and numerous flower clusters of soft pink. On N-facing cliffs of serpentine.
- Lewisia cotyledon v. purdyi** (12x8,Z6,P,L,3:8w) 80 seeds / \$4.00
12782.11 (W) Josephine Co., OR, 4700ft, 1433m. This form has rather tight rosettes of short, broadly obovate leaves, earning it the name "button rockrose." Deep pink to butter-yellow flowers.
- Lewisia leana (pink)** (18x16,Z6,P,L,3:8w) 50 seeds / \$4.00
54230.21 (W) Siskiyou Co., CA, 6050ft, 1845m. Acid-green rosettes of erect, quill-shaped leaves bear panicles of numerous small deep pink flowers. On N-facing outcrops of serpentine.
- Lewisia oppositifolia** (12x15,Z6,P,L,3:8w) 40 seeds / \$4.00
77070.40 (W) Josephine Co., OR, 2400ft. From thick root-stumps sprout blunt-tipped, lance-shaped leaves and several 4"-6" stalks bearing numerous white, frilly flowers. In W-facing, serpentine soils.
- Lewisia rediviva** (4x10, Z3, P, L, 3:8w) 90 seeds / \$3.50
74316.24 (W) Custer Co., ID, 7500ft, 2286m. Clusters of breathtaking satiny-rose flowers, 4 to 6 cm across. After a dry summer rest, succulent, quill-like rosettes sprout from the long, forked taproot.
- Lewisia rediviva v. minor** (4x6,Z5,P,L,3:8w) 80 seeds / \$4.00
74315.50 (W) Sevier Co., UT, 5450ft, 1661m. Large, sumptuous flowers of white. In white shale.
- Lewisia rediviva v. minor** (3x5,Z5,P,L,3:8w) 90 seeds / \$3.50
74315.45 (W) Mono Co., CA, 8000ft, 2439m. White flowers on dwarf plants.
- Lewisia rediviva v. minor** (5x7,Z5,P,L,3:8w) 80 seeds / \$4.00
74315.61 (W) Lander Co., NV, 7730ft, 2357m. A robust, isolated population growing on S-facing, fractured rhyolite.
- Lewisia tweedyi** (20x20,Z6,P,L,4:8w) 45 seeds / \$5.00
78932.82 (W) Chelan Co., WA, 1900ft, 580m. Considered the finest *Lewisia*. Some botanists regard this sp. worthy of its own genus given seed differences and its refusal to cross with other *Lewisia* spp. Broad, wavy, obovate leaves bear handfuls of pale pink, apricot or peach flowers, suffused with yellow, each over 2" in diameter. Germination erratic: hold flats at least 2 years.
- Lilium bolanderi** (Liliaceae) (35x15,Z6,P,C,5) 30 seeds / \$7.00
10756.22 (W) Josephine Co., OR, 4300ft, 1311m. One of the most regal of all lilies with several trumpets deep reddish-orange to reddish-purple, heavily speckled, atop 1 to 2 foot stems, whorled with thick, textured leaves. Very choice.
- Lilium bolanderi** (35x15,Z6,P,C,5) 30 seeds / \$7.00
10756.32 (W) Josephine Co., OR, 1700ft, 518m. A streamside population at a lower altitude. I will sub with this when the above collection runs out.
- Lilium columbianum** (50x18,Z5,P,C,5) 100 seeds / \$4.00
12755.22 (W) Jefferson Co., WA, 5375ft, 1638m. A dwarf form with reflexed, nodding orange flowers, speckled reddish, as full-sized as on the normal (taller) forms.
- Lilium formosanum v. pricei** (Liliaceae) (35x20,Z5,P,C,5) 40 seeds / \$5.00
30774.01 Grass-like clumps with several 6" violet-streaked, white trumpets, spicily fragrant. Wonderful native of alpine Taiwan.
- Lilium humboldtii ssp. ocellatum** (Liliaceae) (120x24,Z6,P,CE,5) 40 seeds / \$4.00
35957.20 (W) San Diego Co., CA, 4600ft, 1402m. Large, maroon-spotted, yellow-orange lilies with reflexed petals. Each slender plant supports up to a dozen flowers. Shaded slopes of granite.
- Lilium pardalinum ssp. pardalinum** (120x25,Z6,P,C,5) 75 seeds / \$3.50
70175.12 (W) Josephine Co., OR, 1700ft, 518m. Orange, spotted flowers with strongly recurved tepals shaded red at the tips. Streamside location.
- Lilium pardalinum ssp. vollmeri** (120x25,Z6,P,C,5) 90 seeds / \$3.50
70174.12 (W) Josephine Co., OR, 2100ft, 640m. Orange, spotted flowers with strongly recurved tepals shaded red into the throat. Serpentine seep.
- Lilium pumilum** (40x15,Z6,P,C,5) 40 seeds / \$4.00
70956.06 Pendant, orange-red to vermilion flowers with a glossy sheen. Very narrow leaves.
- Lilium washingtonianum** (120x30,Z5,P,C,5) 40 seeds / \$4.00
92176.15 (W) Siskiyou Co., CA, 4750ft, 1448m. Magnificent long and narrow white trumpets of heavy substance and powerful fragrance. On S-facing, dry volcanic slopes.

- Linanthastrum nuttallii** (Polemoniaceae) (14x18, Z3, P, L, 3:6w) 45 seeds / \$2.50
58978.14 (W) Lake Co., CO, 11300ft, 3445m. White, tubular fls. in whorls on stems with needled lvs.
- Linum kingii** (Linaceae) (7x10,Z5,P,GL,3:6w) 50 seeds / \$4.00
52558.38 (W) Fremont Co., WY, 6700ft, 2042m. Highly ornamental, powder-blue, spiraling foliage sprouts heads of lemon yellow flowers with helicopter-like petals. Loves calcareous soils.
- Linum rigidum** (10x12,A,C,3:6w) 100 seeds / \$3.00
74532.27 (W) Baca Co., CO, 5100ft, 1555m. Long-blooming annuals with attractive apricot flowers.
- Lobivia aurea ssp. leucomalla** (Cactaceae) (14x8,Z5b,P,L,2) 40 seeds / \$3.00
08752.02 Thompson cult., ex Argentina. **JRT041** Single stems with fine white, hair-like stems. Giant bright yellow flowers.
- Lomatium grayi** (Apiaceae) (15x15,Z5,P,C,4:8w) 30 seeds / \$3.50
32750.52 (W) Lincoln Co., ID, 4800ft, 1463m. Very finely dissected, aromatic foliage, with the finest segments lying in different planes, giving rise to a three-dimensional effect. Yellow umbels.
- Lotus mearnsii** (Fabaceae) (5x24,Z5,P,SC,1) 40 seeds / \$4.00
56217.10 (W) Navajo Co., AZ, 6200ft, 1890m. An outstanding silver mat-former with gorgeous masses of butter yellow and peach-pink pea-flowers cover the plants in late spring. Endemic.
- Luetkea pectinata** (Rosaceae) (9x60,Z6,P,L,1) 100 seeds / \$3.00
70312.35 (W) Deschutes Co., OR, 6900ft, 2104m. Spikes of creamy-yellow fls. over mossy rosettes.
- Lupinus arizonicus** (45x20,A,SC,1) 70 seeds / \$3.00
07459.10 (W) San Diego Co., CA, 650ft, 198m. This annual produces several stems of pink to magenta flowers over semi-succulent foliage.
- Lupinus caespitosus** (7x10,Z4,P,SC,1) 20 seeds / \$4.00
12049.10 (W) Grand Co., CO, 8950ft, 2730m. (= *L. lepidus ssp. caespitosus*.) Very short spikes of sky-blue flowers on compact plants. On S-facing embankments of granite gravel.
- Lychnis miqueliana** (Caryophyllaceae) (55x25,Z5,P,L,3:6w) 40 seeds / \$3.00
56572.04 Plants bear several stems clothed in ovate leaves and heads of numerous apricot flowers.
- Macronema discoideum** (Asteraceae) (35x35,Z3,P,C,2) 40 seeds / \$3.00
15586.27 (W) Lake Co., CO, 10800ft, 3293m. Cinnamon-fragrant shrubs with creamy flower heads.
- Maihuenia poeppigii** (Cactaceae) (6x60, Z6, P, GL, 4:6w) 50 seeds / \$4.00
70638.11 (W) Volcán Antuco, VIII Reg., Chile, 5500ft, 1677m. Prickly mats with white spines and small finger-like, terete leaves. Yellow fls. appear in summer and are followed by egg-like capsules.
- Malacothamnus fremontii** (Malvaceae) (80x40,Z6,P,SC,1) 40 seeds / \$3.50
30753.25 (W) Tulare Co., CA, 6500ft, 1982m. Pale purple flowers and white-felted foliage.
- Mammillaria heyderi** (Cactaceae) (6x10,Z6,P,L,2) 40 seeds / \$3.00
35308.15 (W) Kent Co., TX, 1800ft, 550m. **JRT4181** Flat stems about 4" round. Short, typical yellow or red spines with dark tips. Creamy, pink-tinted flowers in rings with mid-stripes, red fruits.
- Mammillaria heyderi** (6x10,Z6,P,L,2) 40 seeds / \$3.50
35308.29 (W) Mitchell Co., TX. **JRT4184** Golden-yellow spines in this population.
- Mammillaria heyderi v. nova** (4x6,Z6,P,L,2) 30 seeds / \$4.00
35309.17 (W) Wichita Co., TX, 1000ft, 305m. **JRT4182** Flat stems only 3" or less in diameter but with much longer spines than usual. The radials are 7/16" long and the centrals are 5/16" long, in a wine-red color. Creamy white, pink-tinged flowers with mid-stripes. Likely a new variant.
- Mammillaria meiacantha** (2x15, Z6, P, L, 2) 90 seeds / \$3.00
56251.10 (W) Eddy Co., NM, 5750ft, 1753m. Large-tubercled, flat bodies with pink fls. / red fruits.
- Mammillaria meiacantha** (15x8,Z6,P,L,2) 40 seeds / \$3.00
56251.25 (W) Pecos Co., TX, 3200ft, 976m. **JRT4191** Giant stems over 6" in diameter by 3" tall. Metallic-hued flowers often in double rings, white with tannish mid-stripes, reddish-purple fruits.
- Mammillaria meiacantha** (4x8,Z6,P,L,2) 40 seeds / \$3.00
56251.35 (W) San Miguel Co., NM, 4000ft, 1220m. **JRT5191** Nice blue-green-tinted stems about 4" in diameter. Flowers and fruits like **56251.25**.
- Mammillaria meridiorosei** (8x4,Z7,P,L,2) 40 seeds / \$3.00
56384.29 Ex Hidalgo Co., NM. **JRT08** DC531 Densely-spined barrels, nice pink to purple flowers.

- Mammillaria mystax** (20x10,Z8,P,GL,2) 40 seeds / \$3.00
56978.02 Thompson cult., ex Hidalgo, MX. **JRT042** Sphaerical stems elongating in time with white, brown-tipped spines. Very woolly inner stem and crown. Purplish-pink fls. in rings with red fruits.
- Mammillaria spinosissima** (30x12,Z8,P,GL,2) 40 seeds / \$3.00
76733.02 Thompson cult., ex Hidalgo, MX. **JRT043** "Big Red." Columnar, dark bluish-green stems with dark red spines. Small reddish-pink to purple flowers in rings with green to pinkish fruit.
- Mammillaria wrightii** (12x8,Z5,P,L,2) 30 seeds / \$3.50
92755.32 (W) San Miguel Co., NM, 4000ft, 1220m. **JRT5195** Broad, sphaerical stems with some wool in the crown. White inner blackish-tipped spines with central hooks. Large purple flowers with greenish, purple-tinted fruits. Robust northeastern form.
- Maurandya wislizenii** (Scrophulariaceae) (100x60, Z7, P, L, 3:6w) 40 seeds / \$3.00
92586.14 (W) Socorro Co., NM, 4800ft, 1463m. Vines with sagittate leaves, striking 1" soft blue fls.
- Melampodium leucanthum** (Asteraceae) (14x22, Z5, P, C, 1) 30 seeds / \$3.00
54292.14 (W) Fremont Co., CO, 4800ft, 1465m. "Blackfoot Daisy." Pure white *Zinnia*-like blossoms on symmetrical mounds nearly all summer. Excellent for hot, dry sites. Enjoys limey soils.
- Mentzelia involucrata** (Loasaceae) (9x15,A,L,1) 50 seeds / \$3.00
56890.10 (W) San Diego Co., CA, 1300ft, 396m. A desert annual with bristly leaves and large, pearly flowers of ghostly beauty.
- Mertensia alpina** (Boraginaceae) (5x20, Z3, P, C, 3:8w) 50 seeds / \$5.00
05472.12 (W) El Paso Co., CO, 13200ft, 4024m. Prostrate stems terminate in clusters of intense blue bell-flowers. One of the most exquisite of alpine flora, growing in pink granite screes.
- Mertensia arizonica** (45x40,Z4,P,L,3:8w) 20 seeds / \$4.00
07460.20 (W) Iron Co., UT, 11050ft, 3368m. From a crown sprout twenty to thirty stems bearing ovate leaves and large pendant clusters of blue and pink flowers. Similar to a dwarf *M. ciliata*.
- Mertensia bakeri** (9x15,Z3,P,L,3:6w) 50 seeds / \$4.00
10162.28 (W) Gunnison Co., CO, 11600ft, 3536m. An alpine species akin to *M. lanceolata* with narrow, sericeous leaves. Variable pop., you may obtain some plants with wider, greener leaves.
- Mertensia brevistyla** (14x18,Z3,P,L,3:8w) 40 seeds / \$5.00
30986.18 (W) Mesa Co., CO, 9100ft, 2774m. A choice dwarf species with silvery leaves and tightly-packed, nodding clusters of long, bright blue trumpets. W-facing, subalpine slopes of gravelly loam.
- Mertensia campanulata** (60x25,Z5,P,L,3:8w) 40 seeds / \$3.50
12166.16 (W) Blaine Co., ID, 6700ft, 2042m. Vigorous plants with multiple stems clothed in glaucous, gray-green foliage bearing hundreds of pendant, long-tubed, blue bell-flowers.
- Mertensia lanceolata** (15x20,Z4,P,L,3:6w) 40 seeds / \$3.50
54168.12 (W) Elbert Co., CO, 6650ft, 2027m. A lovely bluebell found chiefly on the meadows and hillsides of the eastern Plains, often in pine duff. Glaucous blue, narrow leaves and blue/pink fls.
- Mertensia maddougali** (15x12,Z5,P,L,3:6w) 30 seeds / \$5.00
56122.10 (W) Coconino Co., AZ, 6850ft, 2088m. Glaucous, gray-green, widely-ovate foliage bears compact nodding clusters of bluebells. Distinctive and beautiful endemic of pine forests in north AZ.
- Mertensia oblongifolia** (12x25,Z4,P,L,3:8w) 20 seeds / \$4.00
72054.20 (W) Blaine Co., ID, 6800ft, 2073m. Similar in habit to *M. viridis* with multiple stems from a branching caudex. The lance-elliptical leaves, however, are covered with strigose hairs, giving them a soft feel. Elongated flower heads of deep blue. On exposed, montane, granite alluvium.
- Mertensia viridis (velvet form)** (12x15,Z4,P,L,3:6w) 50 seeds / \$5.00
90584.48 (W) Park Co., WY, 7700ft, 2348m. Robust population with wonderfully-hairy leaves on both sides, like velvet. Nodding blue flower bells. On gravelly loam over limestone substrate.
- Mertensia viridis (Uintah form)** (12x16,Z3,P,C,3:6w) 30 seeds / \$3.50
90584.58 (W) Uintah Co., UT, 11900ft, 3628m. Another great form of robust clumps with much wider, almost obovate leaves, somewhat thicker than typical. Dense heads of blue bell-flowers.
- Michauxia campanuloides** (Campanulaceae) (120x35,Z5,B,L,1) 100 seeds / \$4.00
12167.14 (W) Anamur to Alanya, Turkey. From a rosette of bristly, toothed, lanceolate leaves erupts a stout raceme bearing myriad pendant white flowers with reflexed petals tinged purple on the reverse.
- Mimulus bigelovii v. cuspidata** (Scrophulariaceae) (10x14,A,L,3:6w) 100 seeds / \$3.00
10543.25 (W) Esmeralda Co., NV, 7200ft, 2195m. Deep magenta flowers with gold speckles.

- Mimulus cardinalis** (80x20, Z6, P, L, 1) 100 seeds / \$3.00
12184.10 (W) Butte Co., CA, 1600ft, 488m. Sticky foliage bears intense red blossoms in every axil.
- Mimulus cusickii** (15x12, A, L, 3:4w) 100 seeds / \$3.00
12986.15 (W) Wheeler Co., OR, 3300ft, 1006m. Globes of sticky foliage, fls. of luminous rose-pink.
- Mimulus eastwoodiae** (8x60,Z5,P,L,1) 100 seeds / \$4.00
21867.22 (W) Delta Co., CO, 6050ft, 1845m. Grows on vertical and overhanging walls of sandstone seeps. Glandular, dentate foliage produces large, sumptuous, pendant scarlet flowers. Rare endemic.
- Mimulus jungermannioides** (6x24,Z6,P,L,1) 100 seeds / \$3.50
50968.10 (W) Sherman Co., OR, 250ft, 76m. Viscid herbage bearing multitudes of small yellow, orange-speckled flowers. Creeps up and down vertical basalt walls.
- Mimulus lewisii** (60x28, Z3, P, L, 1) 100 seeds / \$2.50
54402.11 (W) Carbon Co., WY, 9400ft, 2866m. Bicolored fls of magenta or rose with yellow throats.
- Mimulus longiflorus** (12x20,Z7,P,L,1) 100 seeds / \$3.50
54770.15 (W) Tulare Co., CA, 5050ft, 1540m. Pale peachy-yellow flowers on cascading shrublets.
- Mimulus luteus** (50x20, Z6, P, L, 1) 100 seeds / \$3.00
54988.11 (W) Farellones, Reg. Metro., Chile, 6400ft, 1951m. Large yellow, red-blotched flowers.
- Mimulus palmeri** (8x5,A,L,1) 100 seeds / \$3.00
70164.17 (W) Kern Co., CA, 3000ft, 915m. Masses of deep pink flowers suspended on 1"-2" long pedicels, shading to purple on the upper throat with the lower throat yellow.
- Mimulus primuloides ssp. linearifolius** (7x20, Z5, P, L, 1) 100 seeds / \$3.00
70755.14 (W) Siskiyou Co., CA, 6100ft, 1860m. Mats of hundreds of yellow, orange-blotched fls.
- Mimulus pulchellus** (2x3,A,L,1) 100 seeds / \$3.50
70964.35 (W) Tuolumne Co., CA, 3500ft, 1067m. The tiniest tufts bearing several gorgeous flowers of lower yellow petals, upper lavender petals and maroon throats. On loamy soils derived from basalt.
- Mimulus ringens** (65x25,Z4,P,L,1) 100 seeds / \$3.00
74568.06 Hundreds of blue to lavender flowers for weeks in late summer on robust plants.
- Mimulus rupicola** (6x7,Z7,P,L,2) 50 seeds / \$5.00
74980.20 (W) Inyo Co., CA, 5100ft, 1555m. Breathtakingly beautiful blossoms of cream blushed pink with a yellow throat and deep maroon stripes are borne on viscid tufts sprouting from limestone crevices. Extremely drought-tolerant and nearly everblooming under garden conditions but must be sharply drained and kept on the dry side.
- Mimulus tricolor** (2x7,A,L,3:6w) 100 seeds / \$3.50
78764.42 (W) Shasta Co., CA, 3550ft, 1082m. Tiny tufts of clammy foliage bear numerous pink, magenta and yellow flowers. Sandy volcanic soil in vernal-moist depressions.
- Minuartia laricifolia** (Caryophyllaceae) (12x20,Z5,P,L,1) 100 seeds / \$3.50
54184.01 Mats of acrose leaves bear starry white flowers in spring. Good for crevices.
- Mirabilis multiflora** (Nyctaginaceae) (45x80,Z4,P,C,2) 25 seeds / \$3.50
56964.19 (W) Chaffee Co., CO, 7600ft, 2317m. Huge mounds of thick cordate leaves bearing brilliant deep violet to magenta funnel-flowers. On S-facing slopes of very rocky loam.
- Monarda austromontana** (Lamiaceae) (35x25, Z5, B, L, 1) 100 seeds / \$2.50
09867.08 Handsome plants with hairy foliage and whorled stems of pink flowers.
- Monarda pectinata** (16x10, A, L, 1) 100 seeds / \$2.50
70322.21 (W) Harding Co., NM, 4500ft, 1372m. Skewered cream, pale pink or pale lavender heads.
- Monardella nana v. arida** (Lamiaceae) (4x18,Z6,P,L,1) 20 seeds / \$4.00
58168.21 (W) Riverside Co., CA, 4000ft, 1220m. White pin-cushion flowers on green-white bracted heads from pink buds. Broad cushions of cinereous leaves on dolomite outcroppings.
- Monardella odoratissima** (Lamiaceae) (20x24,Z5,P,L,3:12w) 100 seeds / \$3.50
61578.58 (W) Beaver Co., UT, 10600ft, 3232m. Bright lavender to violet heads over very minty fragrant foliage. On S-facing volcanic slopes.
- Monardella purpurea** (12x24,Z5,P,L,3:6w) 40 seeds / \$3.50
70985.22 (W) Siskiyou Co., CA, 5200ft, 1585m. Aromatic plants of deep green, oblong, leathery leaves and globose heads of deep lavender.

Morina longifolia (Morinaceae) (100x25,Z6,P,C,3:8w)	20 seeds / \$4.00
54772.07 An odd plant from alpine regions in Bhutan with spiny leaves in whorls and heads of numerous pink and white flowers in interrupted whorls.	
Nama lobbii (Hydrophyllaceae) (8x20, Z6, P, GL, 3:4w)	70 seeds / \$2.50
54730.14 (W) Plumas Co., CA, 5800ft, 1768m. Deep purple, tubular flowers on hispid stems.	
Nama rothrockii (12x60, Z6, P, L, 3:4w)	90 seeds / \$2.50
74798.14 (W) Tulare Co., CA, 7000ft, 2134m. Golfball-sized bristly globes of violet flowers.	
Nananthus aff. broomii (Aizoaceae) (4x18,Z7,P,L,1)	30 seeds / \$3.00
10767.09 The thick, triangular, blue-gray foliage forms very attractive, tight mounds which sport numerous yellow, red-stripped flowers over a long period in the spring.	
Nananthus transvaalensis (4x10, Z9, P, L, 1)	70 seeds / \$2.50
78753.02 Succulent pointed leaves bear yellow flowers with mid-line maroon stripes.	
Nananthus X (3x8, Z9, P, L, 1)	50 seeds / \$3.00
10012.00 Sessile flowers vary in color from deep pink and claret to deep yellow.	
Narthecium californicum (Liliaceae) (30x12,Z5,P,L,3:8w)	100 seeds / \$3.50
12174.20 (W) Josephine Co., OR, 1700ft, 518m. Clumps of grass-like foliage bear racemes of greenish-yellow, starchy flowers with woolly stamens.	
Neolloydia conoidea (Cactaceae) (8x12,Z7,P,GL,2)	40 seeds / \$3.50
12775.19 (W) Pecos Co., TX, 5800ft, 1768m. JRT4175 Cylindric, semi-clumping small barrels with short, black centrals, woolly towards the apex. Wide-petaled, magenta flowers.	
Neolloydia johnsonii (12x10,Z7,P,GL,3:6w)	40 seeds / \$4.00
50754.21 (W) Clark Co., NV, 1900ft, 580m. Large, iridescent-violet blossoms on robust barrels.	
Neolloydia johnsonii v. lutescens (13x9,Z8,P,GL,2)	40 seeds / \$3.50
50755.18 (W) Yavapai Co., AZ, 3000ft, 915m. Solitary barrels covered with dense, thick, gray-purple spines. Chartreuse flowers with red throats.	
Nepeta phyllochlams (Lamiaceae) (8x16, Z5, P, C, 3:5w)	50 seeds / \$2.50
70371.05 Prostrate creeper with attractive blue-gray, pebbled foliage. Small speckled fls. in summer.	
Nolina microcarpa (Agavaceae) (150x100,Z6,P,C,1)	75 seeds / \$3.50
56532.29 (W) Coconino Co., AZ, 6400ft, 1951m. Long panicles of creamy flowers soar over coarse clumps of grass-like foliage.	
Nolina parryi (360x180,Z8,P,C,2)	70 seeds / \$4.00
70196.60 (W) San Bernardino Co., CA 3800ft. Huge, thick, thatched trunks bear globose heads of long, thin, non-serrated green leaves. Old specimens may have 2 or 3 heads. Gigantic inflorescences at least as tall as the plants bear thousands of whitish florets.	
Nolina texana (110x135,Z5,P,C,1)	30 seeds / \$3.00
78415.17 (W) Harding Co., NM, 5400ft, 1646m. JRT5511 Short inflorescences of creamy flowers over grassy clumps.	
Oenothera caespitosa v. marginata (Onagraceae) (10x18, Z6, P, L, 2)	50 seeds / \$3.00
12040.14 (W) San Juan Co., UT, 4430ft, 1350m. Large-toothed rosettes with large white/pink fls.	
Oenothera caespitosa v. navajoensis (7x14,Z4,P,L,2)	50 seeds / \$3.50
12046.25 (W) Emery Co., UT, 6400ft, 1951m. Compact form of short-tubed white fls. fading pink.	
Oenothera macrocarpa (14x18,Z6,P,L,3:6w)	40 seeds / \$3.50
56142.27 (W) Hill Co., TX, 1200ft, 366m. Large, bright yellow, basal fls. and huge winged fruits.	
Oenothera organensis (35x12,Z7,P,L,1)	60 seeds / \$3.50
80432.06 Grayish-green, roughly pubescent leaves and large yellow flowers with very long tubes.	
Opuntia basilaris (Cactaceae) (15x25,Z7,P,C,2)	30 seeds / \$3.00
10206.25 (W) Clark Co., NV, 2500ft, 762m. Spineless, ice-blue pads. Violet to magenta flowers.	
Opuntia basilaris v. heilii (12x20,Z5,P,C,2)	35 seeds / \$3.00
10207.17 (W) Wayne Co., UT, 4400ft, 1341m. Spineless pads, flowers in the magenta range.	
Opuntia clavata (8x40, Z6, P, C, 2)	60 seeds / \$3.00
12553.15 (W) Socorro Co., NM, 4900ft, 1494m. Globose stems with dagger spines. Yellow flowers.	
Opuntia erinacea (15x30, Z4, P, SC, 4:6w)	60 seeds / \$3.00
27458.14 (W) Wayne Co., UT, 6800ft, 2073m. Blossoms in yellow, peach and apricot shades here.	

- Opuntia polyacantha** (12x60,Z5,P,C,2) 40 seeds / \$3.50
70784.25 (W) Uintah Co., UT, 5300ft, 1616m. Beautiful strawberry-red fls., to pink and magenta.
- Opuntia pulchella** (14x25,Z5,P,C,2) 20 seeds / \$5.00
70984.21 (W) Washoe Co., NV, 4020ft, 1226m. Multiple cylindrical stems with dagger-like, white centrals, bearing apical pink to magenta flowers. On outwashes of white granite screes.
- Opuntia ursina** (40x40,Z7,P,C,2) 30 seeds / \$3.00
00476.15 (W) Inyo Co., CA, 6800ft, 2073m. Covered in long, white, flexible spines. Yellow fls.
- Origanum calcaratum** (Lamiaceae) (35x30,Z9,P,L,1) 30 seeds / \$4.00
12185.07 Ex Crete. Little shrubs of grayish-white, woolly leaves and lots of pink flowers.
- Origanum laevigatum** (25x25,Z7,P,L,1) 70 seeds / \$3.50
54042.07 Showy heads of red-purple bracts with long-tubed pink flowers. Burgundy leaves.
- Oxytropis besseyi v. argophylla** (Fabaceae) (7x8,Z4,P,SC,1) 30 seeds / \$4.00
10402.46 (W) Beaverhead Co., MT, 6300ft, 1921m. Tight, silvery-white cushions bear racemes of brilliant magenta. Far superior to the typical form of *O. besseyi*. On S-facing hills of hard limestone.
- Oxytropis besseyi v. obnapiformis** (20x24,Z4,P,SC,1) 40 seeds / \$3.50
10404.19 (W) Moffat Co., CO, 6200ft, 1890m. Clusters of brilliant violet and white flowers on rather large plants. Growing in pure white sand.
- Oxytropis besseyi v. salmonensis** (12x20,Z5,P,SC,1) 20 seeds / \$4.00
10405.16 (W) Custer Co., ID, 5400ft, 1646m. Spectacular large racemes of magenta over silver lvs.
- Oxytropis besseyi v. ventosa** (6x8,Z3,P,SC,1) 40 seeds / \$4.00
10406.17 (W) Park Co., WY, 8000ft, 2439m. Capitata, brilliant rose-pink flowers on silvery tufts.
- Oxytropis campanulata** (18x16,Z4,P,SC,1) 60 seeds / \$3.00
12187.01 Tightly-packed, erect heads of magenta-purple over pinnate, green plants. Russian native.
- Oxytropis campestris v. cusickii** (10x12,Z3,P,SC,1) 50 seeds / \$3.00
12186.14 (W) Lake Co., CO, 12050ft, 3675m. Racemes of creamy yellow from black, woolly buds.
- Oxytropis lagopus** (3x9,Z4,P,SC,1) 50 seeds / \$4.00
54162.26 (W) Custer Co., ID, 8325ft, 2538m. Silver, woolly cushions and short racemes of brilliant violet-red. The buds have a peppery look due to the presence of black hairs. Limestone slopes.
- Oxytropis lambertii** (12x14, Z4, P, SC, 1) 90 seeds / \$2.00
54186.17 (W) Elbert Co., CO, 6650ft, 2030m. Flowers in shades of magenta, maroon, ruby and rose.
- Oxytropis X lambertii** (24x20,Z4,P,SC,1) 100 seeds / \$3.00
54186.29 (W) Summit Co., CO, 9100ft, 2774m. An apparent hybrid with *O. sericea*, this population displays an amazing assortment of colors: blue, lavender, magenta, pink and all shades in between.
- Oxytropis multiceps** (4x12, Z4, P, SC, 1) 25 seeds / \$3.00
56984.33 (W) Albany Co., WY, 7400ft, 2256m. Low cushions of silver bear small pink pea-flowers.
- Oxytropis nana** (10x12, Z3, P, SC, 1) 40 seeds / \$3.50
58188.13 (W) Carbon Co., WY, 6400ft, 1950m. Large-flowered racemes from rosy-purple to pink.
- Oxytropis oreophila** (3x8,Z4,P,SC,1) 30 seeds / \$4.00
67438.18 (W) Beaver Co., UT, 11100ft, 3384m. Very condensed cushions of bluish-gray, silky-hairy, pinnate leaves. Purple, bluish or red-violet flowers, depending on age.
- Oxytropis podocarpa** (3x12,Z3,P,SC,1) 30 seeds / \$4.00
70745.16 (W) Summit Co., CO, 12500ft, 3810m. Mats of rhizomatic stems with pinnatifid leaves bear lavender-purple flowers. Growing on steep, N-facing alpine tundra.
- Oxytropis sericea** (15x15,Z4,P,SC,1) 90 seeds / \$3.00
76404.49 (W) Daggett Co., UT, 7450ft, 2271m. Dwarf plants at this locality with large racemes of pure white, fragrant flowers.
- Oxytropis splendens** (16x12, Z3, P, SC, 1) 50 seeds / \$2.50
76722.14 (W) Lake Co., CO, 10200ft, 3110m. Whorled, silvery leaves with woolly heads of pink.
- Parrya nudicaulis** (Brassicaceae) (12x10,Z3,P,L,3:8w) 30 seeds / \$6.00
58955.88 (W) Park Co., WY, 10400ft, 3170m. Rosettes of dark-green, slightly-clammy, toothed leaves with tight clusters of bright rosy-pink, lilac-scented flowers. W-facing, steep, dolomitic screes.

- Pedicularis densiflora** (Scrophulariaceae) (15x24,Z6,P,C,3:12w) 40 seeds / \$5.00
15398.22 (W) Jackson Co., OR, 1550ft, 473m. Brilliant deep red to carmine inflorescences over doubly-toothed foliage often lined brownish-red. Grows in semi-shady pine duff. Early blooming with *Erythronium hendersonii*. Challenging in cultivation but well worth the effort.
- Pediocactus simpsonii** (Cactaceae) (6x10,Z4,P,GL,3:4w) 40 seeds / \$3.50
76597.68 (W) Grand Co., CO, 7800ft, 2378m. Dwells on barren, stony loam soil. Pink flowers.
- Pediocactus simpsonii (snowball)** (7x8,Z4,P,GL,3:4w) 20 seeds / \$4.00
76597.48 (W) Jefferson Co., CO, 6700ft, 2043m. These barrels are so densely spined with short white spines that the plants look like little snowballs. Pink flowers.
- Pediocactus simpsonii** (8x9, Z4, P, GL, 3:4w) 40 seeds / \$3.50
76598.18 (W) Uintah Co., UT, 8000ft, 2439m. Cream-white flowers shading to a pale yellow throat.
- Pediocactus simpsonii v. indranus** (3x6,Z5,P,GL,3:8w) 40 seeds / \$4.00
76595.12 (W) Custer Co., ID, 6375ft, 1944m. Small, flat barrels, often multi-headed, with pale pink flowers, on limestone alluvium.
- Pediocactus simpsonii v. nigrispinus** (13x15, Z6, P, GL, 3:4w) 40 seeds / \$3.50
76596.16 (W) Kittitas Co., WA, 2500ft, 762m. Deep magenta-pink flowers on black-spined barrels.
- Pelargonium endlicherianum** (Geraniaceae) (20x24,Z5,P,SC,1) 8 seeds / \$5.00
39815.08 Caudex-former with numerous scapes of deep rosy-pink flowers hovering like butterflies.
- Pennisetum setaceum** (Poaceae) (110x45,Z6,P,L,1) 40 seeds / \$3.00
76418.19 (W) Gila Co., AZ, 2100ft, 640m. "Fountain Grass." Naturalized in Arizona, this beautiful grass has nodding, foot-long, hairy spikes which emerge purplish and age paler as they extend.
- Penstemon abietinus** (Scrophulariaceae) (6x20,Z4,P,L,4:12w) 90 seeds / \$4.00
01056.17 (W) Sevier Co., UT, 7200ft, 2195m. "Firleaf Penstemon." Decumbent stems are densely clothed in realistic, fir-like leaves. Ascending spikes of blue flowers with golden beards. Choice.
- Penstemon acuminatus** (14x12, Z6, P, L, 3:8w) 90 seeds / \$3.00
01299.10 (W) Grant Co., WA, 600ft, 183m. Bright blue flowers over leathery glaucous leaves.
- Penstemon albidus (lavender)** (16x12,Z4,P,L,4:8w) 60 seeds / \$3.50
19410.27 (W) Baca Co., CO, 5100ft, 1555m. Gorgeous lavender flowers on multiple stems.
- Penstemon ambiguus** (24x32,Z5,P,L,2) 100 seeds / \$3.50
19610.17 (W) Yuma Co., CO, 3500ft, 1067m. Deep pink, Phlox-like flowers by the hundreds on dwarf plants with linear leaves. This is the hardiest population known.
- Penstemon angustifolius v. venosus (blue fls)** (30x14, Z4, P, GL, 4:8w) 90 seeds / \$2.50
19833.14 (W) San Juan Co., NM, 5800ft, 1768m. Glaucous leaves and bright blue flowers.
- Penstemon angustifolius v. venosus (lav. fls)** (28x12, Z4, P, GL, 4:8w) 90 seeds / \$2.50
19832.14 (W) San Juan Co., UT, 5000ft, 1524m. Lavender fls. in this population, growing in sand.
- Penstemon arenicola** (10x6, Z4, P, L, 4:12w) 50 seeds / \$3.50
07439.13 (W) Sublette Co., WY, 7000ft, 2135m. Densely-crowded verticillasters of intense blue.
- Penstemon auriberbis** (18x10, Z5, P, L, 3:8w) 100 seeds / \$3.00
08758.23 (W) Fremont Co., CO, 6200ft, 1890m. Deep lavender flowers with flamboyant gold beards.
- Penstemon azureus** (40x35,Z5,P,L,3:8w) 100 seeds / \$3.50
09901.22 (W) Shasta Co., CA, 2820ft, 860m. Multi-stemmed plants clothed in glaucous-blue, elliptical leaves bear loads of bright blue flowers in early summer. On metamorphic volcanic rock.
- Penstemon baccharifolius** (45x35,Z7,P,L,3:8w) 100 seeds / \$5.00
10152.37 (W) Edwards Co., TX, 2450ft, 747m. A favorite Pent of mine with minutely-serrated, oblong leaves and panicles of deep-red, pale-throated flowers. On vertical limestone road cuts.
- Penstemon barrettiae** (40x70,Z6,P,GL,3:8w) 100 seeds / \$3.50
10214.19 (W) Klickitat Co., WA, 250ft, 76m. From a crown arises myriad woody stems bearing leathery, glaucous leaves and spectacular racemes of rosy-lavender flowers shading to pale lavender.
- Penstemon bicolor** (80x30,Z6,P,L,3:8w) 50 seeds / \$3.00
10554.28 (W) Clark Co., NV, 4000ft, 1220m. This pop. has bright yellow fls. on limestone rock.
- Penstemon brandegei** (45x18, Z5, P, L, 3:8w) 100 seeds / \$3.00
10755.14 (W) Las Animas Co., CO, 7300ft, 2226m. Dense spikes of large blue flowers.

- Penstemon buckleyi** (50x24, Z6, P, RL, 3:6w) 50 seeds / \$3.00
10952.15 (W) Chaves Co., NM, 4100ft, 1250m. Lavender fls. in whorls around the massive stems.
- Penstemon caesius** (15x40, Z5, P, RGL, 3:8w) 100 seeds / \$2.50
12045.18 (W) Tulare Co., CA, 9000ft, 2744m. Blue-gray mats with open panicles of blue-purple fls.
- Penstemon cardinalis** (50x28, Z6, P, L, 3:8w) 100 seeds / \$3.00
12214.14 (W) Lincoln Co., NM, 7700ft, 2348m. Spectacular racemes of red, tubular flowers.
- Penstemon cardwellii** (12x30,Z5,P,L,3:12w) 100 seeds / \$4.00
12215.52 (W) Tillamook Co., OR, 3150ft, 960m. Bright green, toothed, oval leaves and violet to bright purple fls. on low growing plants intermediate in size between *P. davidsonii* and *P. fruticosus*.
- Penstemon carnosus** (12x8, Z4, P, L, 3:12w) 75 seeds / \$3.00
12216.10 (W) Emery Co., UT, 7200ft, 2195m. Thick glaucous rosettes bear lavender-grape flowers.
- Penstemon caryi** (12x12, Z3, P, GL, 4:12w) 60 seeds / \$3.50
12217.10 (W) Sheridan Co., WY, 9200ft, 2805m. Racemes packed with blue to blue-purple flowers.
- Penstemon centranthifolius** (100x25,Z6,P,L,2) 100 seeds / \$4.00
12398.60 (W) Riverside Co., CA, 4800ft. Glaucous blue foliage, wands of vibrant red flowers.
- Penstemon clevelandii v. connatus** (40x30,Z6,P,GL,3:8w) 100 seeds / \$3.50
12556.10 (W) Riverside Co., CA, 5200ft, 1585m. Tubular flowers of a striking fuchsia-magenta.
- Penstemon clutei** (50x32,Z4,P,L,1) 45 seeds / \$4.00
12562.19 (W) Coconino Co., AZ, 6400ft, 1951m. Dense racemes of rosy-pink blossoms and leathery, clasping, finely-serrated leaves. Grows on volcanic scoria.
- Penstemon compactus** (12x10, Z3, P, RGL, 4:8w) 45 seeds / \$4.00
12797.14 (W) Cache Co., UT, 9700ft, 2957m. A dwarf form of *P. cyananthus* with dense racemes of brilliant blue/violet in tight whorls on short ascending stems. On S-facing limestone cliffs.
- Penstemon confusus** (26x12,Z5,P,L,4:12w) 100 seeds / \$4.00
12802.11 (W) Iron Co., UT, 6500ft, 1982m. An unimaginative name for such a colorful Pent. Rather like a miniature version of *P. utahensis* with bright lilac or violet to magenta, white-throated flowers. Found under pinyons in decomposed granite gravel soil.
- Penstemon crandallii v. atratus** (5x16,Z4,P,GL,3:8w) 50 seeds / \$4.00
12754.25 (W) San Juan Co., UT, 8500ft, 2591m. Prostrate, creeping stems branching from a woody base. Profuse flowers just under an inch long appear in blue, lavender and violet shades.
- Penstemon cyananthus** (50x18, Z4, P, L, 4:12w) 100 seeds / \$3.00
12975.23 (W) Cache Co., UT, 8100ft, 2470m. Brilliant blue flowers over glossy lanceolate leaves.
- Penstemon cyaneus** (45x18, Z3, P, L, 4:12w) 100 seeds / \$3.00
12976.14 (W) Park Co., WY, 7200ft, 2195m. Veined leaves and large, sky-blue, purple-throated fls.
- Penstemon cyanocaulis** (35x15,Z5,P,L,3:12w) 90 seeds / \$3.00
12977.15 (W) Montrose Co., CO, 6000ft, 1829m. Undulate leaves and small blue-violet flowers.
- Penstemon cyathophorus** (30x8,Z4,P,RL,3:12w) 90 seeds / \$3.50
12974.28 (W) Grand Co., CO, 7500ft, 2286m. Tightly-packed whorls of pale lavender-pink to bluish-pink flowers sprout from glaucous rosettes of thick leaves.
- Penstemon davidsonii** (9x40, Z5, P, RL, 3:8w) 100 seeds / \$4.00
15231.15 (W) Jackson Co., OR, 7500ft, 2286m. Floriferous pop. with purple, violet to deep pink fls.
- Penstemon davidsonii v. menziesii** (5x15, Z5, P, RL, 3:8w) 100 seeds / \$4.00
15232.12 (W) Clallam Co., WA, 6200ft, 1890m. Serrated leaves and short racemes of blue-violet.
- Penstemon davidsonii v. praeteritus** (10x40, Z4, P, RL, 3:8w) 100 seeds / \$3.00
15233.17 (W) Harney Co., OR, 8900ft, 2713m. Relatively huge, upward-facing, gaping blossoms of violet to lavender-blue on short racemes cover domed mats of thyme-like, gray-green leaves.
- Penstemon debilis** (9x16, Z5, P, GL, 3:8w) 30 seeds / \$5.00
15350.13 (W) Garfield Co., CO, 8200ft, 2500m. Beautiful compact mounds of silver-green foliage bear dense clusters of pale pink to pale lavender flowers. Super plant of sliding oil shale scree.
- Penstemon digitalis** (70x35, Z4, P, L, 3:8w) 100 seeds / \$2.50
15572.03 Panicles of pure white flowers from pink buds, the throat striated maroon. Glabrous foliage.
- Penstemon duchesnensis** (10x10, Z4, P, L, 4:12w) 50 seeds / \$3.00
15952.15 (W) Duchesne Co., UT, 5400ft, 1645m. Tufts of olive-green, globes of deep sky-blue fls.

- Penstemon eatonii** (45x20, Z4, P, L, 3:8w) 100 seeds / \$3.00
20800.24 (W) Iron Co., UT, 9100ft, 2774m. Bright scarlet bugles over glossy green foliage.
- Penstemon eatonii v. undosus** (55x24,Z5,P,L,3:8w) 60 seeds / \$3.00
20802.15 (W) Montrose Co., CO, 6000ft, 1829m. A robust form with crisply-wavy leaf margins.
- Penstemon ellipticus** (12x22,Z3,P,RL,3:12w) 100 seeds / \$4.00
39454.20 (W) Boundary Co., ID, 5810ft, 1771m. Another beautiful member of the Subgenus Dasanthera with short, semi-secund inflorescences of light blue-purple flowers. The slightly-serrate, elliptical leaves are packed together fairly tightly. Growing on subalpine cliffs of basalt.
- Penstemon eriantherus** (20x12, Z4, P, C, 4:16w) 100 seeds / \$2.50
27454.23 (W) Albany Co., WY, 7200ft, 2195m. Large lilac fls. and gray-green, pubescent foliage.
- Penstemon eriantherus v. redactus** (16x12,Z4,P,C,4:16w) 100 seeds / \$3.50
27456.18 (W) Custer Co., ID, 6400ft, 1951m. Showy pale lavender-purple flowers on dwarf plants with gray-green leaves. Growing in deep, loamy gravel.
- Penstemon eriantherus v. whitedii** (20x15, Z6, P, L, 4:16w) 90 seeds / \$3.00
27457.10 (W) Chelan Co., WA, 3500ft, 1067m. Whorls of large violet flowers, several per stem.
- Penstemon euglaucus** (40x100,Z6,P,L,4:8w) 100 seeds / \$3.00
29725.15 (W) Linn Co., OR, 3800ft, 1159m. Lavender-blue fls. over mats of elliptical leaves.
- Penstemon flowersii** (12x8,Z5,P,L,3:12w) 100 seeds / \$3.50
30561.41 (W) Duchesne Co., UT, 5250ft, 1600m. Leaves like *P. carnosus* but with sugar-pink fls.
- Penstemon franklinii** (8x10,Z5,P,GL,3:12w) 90 seeds / \$4.00
30754.15 (W) Iron Co., UT, 5425ft, 1654m. Tufts of narrow leaves bear glandular inflorescences crowded with blue flowers, the exerted staminodes yellow-bearded. Choice dwarf allied to *P. nanus*.
- Penstemon fremontii** (12x8, Z5, P, GL, 3:8w) 100 seeds / \$3.50
30756.23 (W) Uintah Co., UT, 7500ft, 2287m. Deep blue flowers above cinereous-gray leaves.
- Penstemon frutescens** (15x10, Z6, P, L, 2) 45 seeds / \$3.00
30762.08 Ovate leaves clasp erect stems bearing tubular, pale purple, inch-long fls. in late summer.
- Penstemon fruticiformis** (40x40, Z7, P, L, 2) 100 seeds / \$2.00
30763.15 (W) Inyo Co., CA, 3500ft, 1065m. Nearly cylindrical leaves and cream/pale pink flowers.
- Penstemon fruticosus** (24x40,Z5,P,L,3:12w) 100 seeds / \$2.50
30764.15 (W) Deschutes Co., OR, 4900ft, 1494m. A forest of violet racemes over serrated leaves.
- Penstemon gairdneri** (12x10, Z6, P, L, 3:12w) 50 seeds / \$3.00
32061.34 (W) Kittitas Co., WA, 2650ft, 808m. Cinereous, linear lvs. with orchid-colored blossoms.
- Penstemon glaber v. alpinus** (30x16, Z3, P, GL, 3:12w) 100 seeds / \$3.00
32554.13 (W) Park Co., CO, 9200ft, 2805m. Gorgeous, deep blue flowers packed on several stems make their appearance over glossy green, obovate foliage in alpine meadows during the summer.
- Penstemon grandiflorus** (60x18, Z4, P, C, 3:8w) 50 seeds / \$2.50
32757.05 Wide, deep pink blossoms over fleshy, gray-green leaves. Imposing magnificence.
- Penstemon grahamii** (15x8,Z5,P,GL,3:8w) 15 seeds / \$5.00
32754.08 "Of Cultivated Origin." Because of this species' classification (Threatened Candidate), we cultivate our own plants and hand-pollinate to obtain our own seed. Basal, olive-green leaves sprout a dense, compact raceme of huge, gaping, lavender-pink blossoms with dense golden staminodes.
- Penstemon grinnellii** (50x25, Z6, P, L, 3:8w) 100 seeds / \$2.50
32758.18 (W) Ventura Co., CA, 5600ft, 1707m. Glauous blue-green leaves and pale pink flowers.
- Penstemon hallii** (9x7,Z3,P,L,1) 100 seeds / \$3.50
35194.19 (W) Park Co., CO, 12100ft, 3689m. Tufts of linear foliage with clumps of violet-blue dragons hovering on short stems. Classic miniature alpine easily grown.
- Penstemon harbourii** (5x16,Z3,P,RL,2) 75 seeds / \$4.00
35215.11 (W) Summit Co., CO, 12100ft, 3688m. Loose mats of green, leathery foliage are covered with short racemes of attractive powder-blue flowers in summer. On S-facing alpine screes.
- Penstemon humilis** (12x15,Z4,P,L,3:8w) 100 seeds / \$3.50
35995.28 (W) Butte Co., ID, 6000ft, 1829m. Multiple spires densely-packed with small blue fls.
- Penstemon humilis v. brevifolius** (9x12, Z3, P, GL, 3:8w) 100 seeds / \$3.50
35996.23 (W) Salt Lake Co., UT, 9850ft, 3003m. Deep blue, glandular flowers in congested whorls.

Penstemon idahoensis (12x20, Z5, P, GL, 3:8w)	90 seeds / \$3.50
41517.11 (W) Cassia Co., ID, 5150ft, 1570m. Glandular tufts carry crowded blue-purple flowers.	
Penstemon incertus (50x60,Z7,P,L,2)	90 seeds / \$3.00
59812.10 (W) Inyo Co., CA, 5100ft, 1555m. Thick, linear leaves and baggy blue flowers.	
Penstemon kingii (20x24,Z5,P,RL,4:8w)	50 seeds / \$3.50
52598.25 (W) Eureka Co., NV, 6100ft, 1860m. Cinereous tufts with intensely blue or violet-blue fls.	
Penstemon laevis (40x16,Z5,P,GL,4:8w)	75 seeds / \$3.00
54043.14 (W) Kane Co., UT, 5750ft, 1753m. Secund racemes of blue-purple flowers. Smooth leaves.	
Penstemon laricifolius ssp. laricifolius (10x12,Z3,P,GL,4:16w)	100 seeds / \$3.50
54215.28 (W) Fremont Co., WY, 7750ft, 2363m. Some lovely deep pink forms in this population.	
Penstemon lemhiensis (32x12,Z4,P,L,4:12w)	60 seeds / \$4.00
54396.38 (W) Lemhi Co., ID, 7500ft, 2286m. Bold plants like <i>P. cyaneus</i> , but shorter with narrow, glaucous leaves and large, deep-blue flowers. On N-facing, rocky loam with sagebrush.	
Penstemon leonardii (9x25, Z3, P, GL, 3:12w)	60 seeds / \$4.00
54279.13 (W) Cache Co., UT, 9800ft, 2988m. Myriad deep blue flowers in narrow panicles.	
Penstemon linarioides ssp. coloradoensis (16x14, Z5, P, GL, 3:8w)	60 seeds / \$4.00
54598.43 (W) La Plata Co., CO, 8200ft, 2500m. The mostly erect stems and linear foliage are glaucous blue with pale to medium-blue, white-throated flowers growing from the upper nodes.	
Penstemon linarioides ssp. compactifolius (9x28, Z5, P, GL, 3:8w)	100 seeds / \$3.00
54599.11 (W) Coconino Co., AZ, 7000ft, 2134m. Arching stems with blue to lavender flowers.	
Penstemon mensarum (50x20,Z4,P,RL,3:8w)	100 seeds / \$3.50
56398.21 (W) Mesa Co., CO, 10300ft, 3140m. Rich, royal, cobalt blue flowers on multiple racemes.	
Penstemon moffatii (20x10, Z4, P, L, 3:8w)	90 seeds / \$3.00
56770.14 (W) Mesa Co., CO, 5200ft, 1585m. Wavy, sage-green leaves and deep purple-blue fls.	
Penstemon monoensis (20x24, Z6, P, RGL, 4:8w)	90 seeds / \$2.50
56800.35 (W) Inyo Co., CA, 4400ft, 1340m. Spikes of rosy-pink fls. over ashy-gray, undulate leaves.	
Penstemon montanus ssp. idahoensis (15x24, Z3, P, GL, 3:8w)	100 seeds / \$3.50
56799.14 (W) Valley Co., ID, 7900ft, 2408m. The leaves range from green-blue to icy-blue, and are generally hairy. Large lavender flowers in dense spikes. Exquisite. Endemic to central Idaho.	
Penstemon montanus ssp. montanus (12x18,Z4,P,GL,3:8w)	100 seeds / \$3.50
56798.30 (W) Custer Co., ID, 8900ft, 2713m. Large, up-facing, deep lavender flowers sit on glandular, blue-green, toothed foliage, forming mats in limestone scree.	
Penstemon murrayanus (90x35,Z6,P,L,3:8w)	40 seeds / \$3.50
57014.37 (W) Louisiana. Scarlet-red flowers in early spring line stems encircled by blue-green leaves. Native to eastern TX and Louisiana, this plant can take more water than similar western sp.	
Penstemon nanus (2x4, Z5, P, GL, 4:12w)	60 seeds / \$5.00
58198.10 (W) Millard Co., UT, 6300ft, 1921m. Miniature with small gray leaves and blue flowers.	
Penstemon neomexicanus (60x18, Z5, P, C, 3:8w)	100 seeds / \$2.50
58279.25 (W) Otero Co., NM, 8500ft, 2590m. Glabrous, leathery basal rosettes, racemes of blue.	
Penstemon newberryi (16x20,Z5,P,L,3:12w)	100 seeds / \$3.50
58432.30 (W) Plumas Co., CA, 7100ft, 2165m. Mats of blue, serrated leaves, beautiful rose-red fls.	
Penstemon nitidus (12x10,Z4,P,RGL,3:8w)	90 seeds / \$2.50
58618.14 (W) Jefferson Co., MT, 6300ft, 1920m. Sky blue flowers and glaucous blue leaves.	
Penstemon nitidus v. longifolius (40x22, Z4, P, RGL, 3:8w)	90 seeds / \$2.50
58619.17 (W) Powell Co., MT, 4400ft, 1341m. Shiny blue, strapping leaves, bright blue flowers.	
Penstemon ophianthus (10x8, Z5, P, L, 3:8w)	90 seeds / \$3.00
81035.17 (W) Sevier Co., UT, 8000ft, 2439m. Gray-green tufts, densely-bearded violet to pink fls.	
Penstemon ovatus (65x35, Z5, P, GL, 3:8w)	100 seeds / \$3.00
69021.04 A showy species with oval, toothed leaves and an open inflorescence of many deep blue fls.	
Penstemon pachyphyllus v. congestus (35x15,Z4,P,L,4:8w)	100 seeds / \$3.00
70152.17 (W) Sevier Co., UT, 7100ft, 2165m. Thick, gray-green leaves, intense blue-violet spikes.	
Penstemon palmeri (110x35,Z4,P,L,3:8w)	100 seeds / \$2.50
70194.26 (W) Butte Co., ID, 5500ft, 1676m. Tall stems loaded with huge, pink, fragrant blossoms.	

Penstemon palmeri v. eglandulosus (90x20, Z5, P, L, 3:8w)	100 seeds / \$2.50
70195.14 (W) Kane Co., UT, 6200ft, 1890m. A glabrous population here with pale pink to white fls.	
Penstemon parvulus (30x30, Z5, P, GL, 3:8w)	100 seeds / \$3.00
70215.50 (W) Jackson Co., OR, 5800ft, 1768m. Glaucous leaves with dense blue-lavender racemes.	
Penstemon patens (30x22, Z6, P, RGL, 3:8w)	100 seeds / \$2.50
70218.18 (W) Inyo Co., CA, 7400ft, 2256m. Blue-gray mounds sprout lavender to violet panicles.	
Penstemon payettensis (50x24, Z5, P, GL, 4:12w)	100 seeds / \$2.50
70111.34 (W) Adams Co., ID, 3200ft, 975m. Brilliant blue flowers and leathery, rich green leaves.	
Penstemon paysoniorum (9x8, Z3, P, GL, 4:12w)	50 seeds / \$3.50
70110.13 (W) Fremont Co., WY, 6800ft, 2073m. Undulate, glossy-green foliage and pure blue fls.	
Penstemon perpulcher (35x30, Z4, P, RGL, 3:8w)	80 seeds / \$3.50
70414.50 (W) Blaine Co., ID, 4700ft, 1433m. Bright blue flowers over narrow green foliage.	
Penstemon petiolatus (9x14,Z7,P,L,2)	60 seeds / \$5.00
70418.11 (W) Washington Co., UT, 3700ft, 1125m. Perhaps the most brilliantly-colored Pent with rose-magenta flowers on handsome, serrated, glaucous blue foliage. Sprouts from limestone cliffs.	
Penstemon pinifolius 'Compactum' (16x35, Z4, P, L, 4:8w)	100 seeds / \$3.50
70599.08 A choice dwarf selection. Compact racemes of red-orange on diminutive shrublets.	
Penstemon platyphyllus (40x28,Z4,P,L,4:8w)	60 seeds / \$3.50
70554.19 (W) Salt Lake Co., UT, 6500ft, 1982m. Myriad lavender flowers over elliptical leaves.	
Penstemon procerus v. brachyanthus (18x15,Z5,P,L,3:8w)	100 seeds / \$3.50
70762.15 (W) Linn Co., OR, 5400ft, 1646m. Whorls of small deep blue flowers on numerous stems.	
Penstemon procerus v. formosus (7x25,Z4,P,L,3;8w)	100 seeds / \$3.50
70763.15 (W) Siskiyou Co., CA, 8900ft, 2713m. Thick dark green leaves are packed into short rosettes which create mats over a foot across or more. Dense heads of deep blue-violet. Volcanic scree.	
Penstemon procumbens (10x30, Z3, P, L, 4:12w)	75 seeds / \$3.00
70760.46 (W) Gunnison Co., CO, 9800ft, 2990m. Creeper with small rounded leaves and blue fls.	
Penstemon pumilus (4x9,Z4,P,L,3:8w)	70 seeds / \$4.00
70997.68 (W) Butte Co., ID, 5600ft. Tufts of gray-green, cinereous, lance-shaped leaves sprout several very short stems bearing many blue, white-throated flowers. Endemic to central Idaho.	
Penstemon ramaleyi (16x20, Z4, P, GL, 3:12w)	100 seeds / \$3.00
74196.13 (W) Saguache Co., CO, 10000ft, 3048m. Linear, thread-like leaves and misty blue flowers.	
Penstemon retrorsus (8x20, Z5, P, GL, 4:12w)	40 seeds / \$4.00
74418.15 (W) Montrose Co., CO, 6000ft, 1830m. Silver-green tufts, erect spikes of deep blue.	
Penstemon richardsonii (65x35, Z5, P, L, 3:6w)	100 seeds / \$2.50
74552.17 (W) Klickitat Co., WA, 500ft, 152m. Low arcs of bright lavender-pink in late season.	
Penstemon richardsonii v. dentatus (20x25, Z5, P, L, 3:6w)	100 seeds / \$2.50
74553.16 (W) Wheeler Co., OR, 2500ft, 762m. Sprays of bright lilac-pink on dwarfer plants.	
Penstemon roezlii (28x35, Z5, P, GL, 4:12w)	70 seeds / \$2.50
74643.14 (W) Plumas Co., CA, 5800ft, 1768m. Racemes of deep blue-purple fls. over gray-green lvs.	
Penstemon rostriflorus (50x30,Z6,P,L,4:8w)	100 seeds / \$2.50
74816.45 (W) Tulare Co., CA, 6100ft, 1860m. Reddish-orange flowers with creamy-yellow throats.	
Penstemon rupicola (16x45,Z5,P,L,3:8w)	100 seeds / \$4.00
75010.52 (W) Shasta Co., CA, 3150ft, 960m. Sumptuous pink flowers opening from very deep pink buds give a lovely two-tone effect here. Cascading powder-blue foliage over N-facing granite cliffs.	
Penstemon rupicola (5x15,Z5,P,L,3:8w)	100 seeds / \$4.00
75010.62 (W) Josephine Co., OR, 4700ft, 1433m. A compact form here with deep rosy-pink flowers over powder-blue foliage. On subalpine serpentine cliffs.	
Penstemon scapoides (25x20, Z5, P, RL, 4:8w)	100 seeds / \$2.00
76135.15 (W) Inyo Co., CA, 7800ft, 2377m. Mats of bluish-gray with panicles of pinched blue fls.	
Penstemon secundiflorus (35x10,Z4,P,L,3:8w)	100 seeds / \$3.00
76352.27 (W) Elbert Co., CO, 6650ft, 2027m. Beautiful, luminescent, lavender-pink blossoms.	

- Penstemon speciosus** (30x24,Z4,P,RL,3:12w) 100 seeds / \$4.00
76719.21 (W) Lander Co., NV, 8600ft, 2622m. Dwarf plants compared to the valley forms with several secund inflorescences of large bright blue flowers shading to lilac-violet on the lips and sides.
- Penstemon speciosus ssp. kennedyi** (10x12,Z4,P,RL,4:12w) 70 seeds / \$4.00
76720.25 (W) Washoe Co., NV, 8900ft, 2713m. A striking dwarf form with blue-gray rosettes and multiple clusters of large, white-throated, deep blue flowers. In fine granitic scree, facing south.
- Penstemon spectabilis** (120x60,Z6,P,L,3:12w) 100 seeds / \$3.50
76730.20 (W) San Diego Co., CA, 5100ft, 1555m. Bicolored flowers of blue and pale lavender with white throats. The toothed leaves are fused around the stems. Growing in granite soils.
- Penstemon superbus** (120x55, Z6, P, L, 3:8w) 100 seeds / \$3.00
77010.00 Spectacular vivid coral-red flowers line tall spires.
- Penstemon teucroides** (7x15, Z3, P, L, 4:12w) 40 seeds / \$3.00
78295.13 (W) Park Co., CO, 9250ft, 2820m. Linear, gray-pubescent leaves and pale blue/purplish fls.
- Penstemon thompsoniae** (3x10,Z4,P,GL,4:12w) 70 seeds / \$3.50
78370.29 (W) White Pine Co., NV, 7200ft, 2195m. One of the most compact forms I have seen with tiny ashy-gray leaves densely packed on creeping stems. Flowering stems ascend slightly and bear clusters of small, dark blue flowers. Growing on caliche with *Lepidium nanum*.
- Penstemon tiehmii** (12x12,Z4,P,L,3:12w) 60 seeds / \$6.00
78437.11 (W) Lander Co., NV, 8600ft, 2622m. Probably new to cultivation is this dwarf, subalpine penstemon with gray-green leaves lying flat on the ground bearing a thyrse of small violet flowers. Growing on south-facing cliffs and screes of dense volcanic rock.
- Penstemon triflorus** (40x14,Z7,P,L,3:8w) 100 seeds / \$4.00
78758.17 (W) Edwards Co., TX, 2100ft, 640m. Beautiful deep rose-pink flowers with maroon-pink striations from the corolla tips into the white throats. Shiny green leaves. On a limestone roadcut.
- Penstemon tusharensis** (6x16, Z4, P, GL, 4:12w) 40 seeds / \$4.00
79016.14 (W) Beaver Co., UT, 8300ft, 2530m. (= *P. caespitosus* v. *suffruticosus*.) Prostrate, bonsai-like plants with blue-gray, tiny round leaves edged in maroon bear violet-blue flowers. Beautiful sp.
- Penstemon uintahensis** (8x12,Z3,P,GL,4:12w) 45 seeds / \$5.00
85987.36 (W) Uintah Co., UT, 11500ft, 3506m. Mats of leathery, linear-spatulate, dark-green leaves bear several short racemes of sky-blue, secund flowers. A treasure endemic to the Uintah Mtns.
- Penstemon utahensis** (36x15,Z4,P,RGL,3:8w) 40 seeds / \$4.00
87817.65 (W) Emery Co., UT, 5400ft, 1646m. Racemes of brilliant carmine-pink flowers will illuminate your garden in early spring. Attractive glaucous blue foliage in thick tufts. Sandy soils.
- Penstemon venustus** (40x50,Z4,P,L,3:8w) 100 seeds / \$3.00
90398.38 (W) Caribou Co., ID, 6750ft, 2058m. Multiple stems from a woody crown bear serrated leaves and bright lavender-purple flowers in narrow terminal panicles.
- Penstemon virens** (20x20,Z3,P,L,4:12w) 100 seeds / \$2.50
90614.17 (W) Elbert Co., CO, 6650ft, 2027m. Mats of glossy, deep green, spatulate leaves sprout numerous spikes bearing deep blue flowers. No pink forms on the Plains, just the occasional albino.
- Penstemon wardii** (14x6, Z5, P, GL, 3:8w) 40 seeds / \$2.50
92214.17 (W) Sevier Co., UT, 6800ft, 2073m. Large fls of clear violet-blue over pubescent tufts.
- Penstemon washingtonensis** (18x12, Z5, P, L, 3:8w) 100 seeds / \$2.50
92216.17 (W) Chelan Co., WA, 6200ft, 1890m. Deep blue, tubular fls in several interrupted whorls.
- Penstemon whippleanus** (30x20,Z3,P,L,4:8w) 100 seeds / \$3.50
92368.27 (W) Mineral Co., CO, 10860ft, 3311m. Dark purple to literally black fls. in this population.
- Penstemon yampaensis** (2x10,Z4,P,L,4:12w) 20 seeds / \$5.00
96196.81 (W) Moffat Co., CO, 6150ft, 1875m. Tufts of linear leaves produce large, sessile, heavenly blue flowers, so numerous as to totally obscure the foliage. Challenging.
- Petrophyton caespitosum** (Rosaceae) (10x40, Z3, P, L, 1) 100 seeds / \$3.50
12034.13 (W) Johnson Co., WY, 8200ft, 2500m. Also spelled *Petrophytum*. Slow-growing, bright blue-green mats produce white *Astilbe*-like spikes in late summer. Highly adaptable calciphile.
- Petunia integrifolia** (Solanaceae) (16x45,A,L,1) 100 seeds / \$3.00
59879.07 Ascending runners are massed with 1½" (4 cm) vivid plum-purple flowers all summer.

- Phacelia sericea** (Hydrophyllaceae) (16x14,Z3,P,L,3:6w) 100 seeds / \$2.50
76415.36 (W) Park Co., CO, 12150ft, 3704m. Showy spikes of blue-purple, exserted golden stamens.
- Philadelphus lewisii** (Philadelphaceae) (220x150,Z4,P,L,3:8w) 100 seeds / \$3.50
54432.10 (W) Adams Co., ID, 4000ft, 1220m. One of the truly outstanding shrubs of the Pacific Northwest. In mid-summer, thousands of white, Dogwood-like flowers burst into fragrant splendor.
- Phlox aculeata** (Polemoniaceae) (5x20,Z5,P,C,3:12w) 18 seeds / \$5.00
01300.52 (W) Blaine Co., ID, 4800ft, 1463m. Loose cushions of awl-shaped leaves with pale to deep pink flowers. Found throughout the Snake River Plains. On volcanic loam.
- Phlox adsurgens** (7x16,Z5,P,L,4:12w) 10 seeds / \$6.00
15576.66 (W) Josephine Co., OR, 5500ft, 1677m. Loosely-mat-forming perennial with ovate leaves and scapes terminating in clusters of fragrant, broad-petalled pink flowers with darker eye markings.
- Phlox albomarginata** (3x12,Z4,P,L,4:12w) 15 seeds / \$6.00
19411.39 (W) Butte Co., ID, 7100ft, 2165m. Dense, slightly-viscid cushions of awl-shaped leaves with thickened, whitish margins. Large, beautiful, snow-white flowers stud the cushions in the spring.
- Phlox alyssifolia ssp. abdita** (2x10,Z4,P,C,4:12w) 15 seeds / \$6.00
05510.25 (W) Pennington Co., SD, 6600ft, 2012m. Mats of stiff, wide leaves are covered with large, wide-open flowers colored pink, lavender or white. On limestone hills covered with pine duff.
- Phlox austromontana** (5x15,Z5,P,C,4:10w) 12 seeds / \$6.00
10167.40 (W) Coconino Co., AZ, 6500ft, 1982m. Spiny, loose mats, the awl-shaped leaves up to 1-cm long. Very wide color variation among populations, this one has some very nice rosy-pink forms.
- Phlox austromontana v. jonesii** (10x24,Z6,P,C,3:8w) 12 seeds / \$6.00
10168.11 (W) Washington Co., UT, 4200ft, 1280m. Myriad bright pink, almost red, flowers adorn prickly plants covered with long awl-shaped leaves. Growing on S- and W-facing basalt slopes.
- Phlox colubrina** (15x35,Z6,P,L,4:12w) 20 seeds / \$6.00
12794.18 (W) Washington Co., ID, 2300ft, 701m. Masses of vibrant, deep pink, long-petalled fls.
- Phlox griseola** (3x20,Z5,P,C,4:12w) 10 seeds / \$7.00
32772.11 (W) Iron Co., UT, 6500ft, 1982m. Superb gray-green, tight, bumpy-surfaced cushions studded with white to pale pink fragrant flowers. Grows on decomposed granite soils.
- Phlox opalensis** (3x15,Z4,P,L,4:12w) 10 seeds / \$6.00
67019.49 (W) Lincoln Co., WY, 6800ft, 2073m. Essentially a robust form of *Phlox bryoides*. The dense, compact buns of square stems are covered with white wool and bear large white flowers.
- Phlox pilosa ssp. riparia** (8x20,Z7,P,L,3:8w) 15 seeds / \$5.00
70594.17 (W) Kerr Co., TX, 2200ft, 671m. The dwarfest among the *Phlox pilosa* clan. Bright, deep-pink flowers over hairy, glandular foliage. On limestone roadsides.
- Phlox pulvinata (blue-flowered form)** (2x12,Z3,P,C,4:12w) 10 seeds / \$6.00
70864.12 (W) Albany Co., WY, 11000ft, 3354m. The deep icy-blue flowers are mirrored by the glacial lakes below the alpine ridges where these dense, caespitose cushions grow. Variation in color is considerable, from very pale blue to deep china blues and even a few lavender-blues. Limited.
- Phlox pungens** (4x10,Z4,P,C,4:12w) 10 seeds / \$7.50
70998.18 (W) Fremont Co., WY, 6700ft, 2043m. Dense and prickly mats of stiff, ribbed leaves. cover themselves with white flowers. Endemic to tuffaceous soils in west-central Wyoming.
- Phlox roemeriana** (8x10,A,C,2) 30 seeds / \$4.00
74639.10 (W) Edwards Co., TX, 2600ft, 793m. Sumptuous deep lavender-pink flowers with gold starburst centers. An annual well worth growing from the limestone terraces of the Edwards Plateau.
- Phlox speciosa (pink)** (16x20,Z6,P,L,4:12w) 15 seeds / \$5.00
76716.36 (W) Siskiyou Co., CA, 3600ft, 1098m. A very nice, robust form here with narrow, slightly viscid foliage and bushels of deep pink, notched flowers. On N-facing serpentine slopes.
- Phlox speciosa (white)** (12x24,Z6,P,C,3:12w) 30 seeds / \$5.00
76747.12 (W) Chelan Co., WA, 2500ft, 762m. These wonderfully-fragrant cushions with white, notched flowers cover the hills above Wenatchee in the spring like drifting snow.
- Phlox stansburyi** (12x14, Z6, P, C, 4:8w) 40 seeds / \$5.00
76794.11 (W) Inyo Co., CA, 7200ft, 2195m. Very viscid, lanceolate foliage erupt into dozens of white, pink-throated trumpets with unusually long tubes, over an inch (3 cm). In volcanic desert soil.

- Phlox stansburyi (dwarf form)** (5x20,Z5,P,C,4:8w) 40 seeds / \$5.00
76795.25 (W) Mono Co., CA, 8000ft, 2439m. Wonderful pink flowers covering stiff-leaved open mats. The corolla tubes are shorter and the plants are dwarfier and more spreading than the preceding.
- Phlox woodhousei** (7x16,Z5,P,L,3:8w) 15 seeds / \$5.00
92675.20 (W) Coconino Co., AZ, 7100ft, 2165m. Narrow-leaved foliage and clusters of pink, white-throated, notched flowers. On level areas of loam derived from basalt.
- Phyllodoce breweri** (Ericaceae) (12x60,Z4,P,L,3:6w) 1000 seeds / \$3.50
10758.10 (W) Plumas Co., CA, 6850ft, 2088m. Rosy-pink blossoms over fir-like stems.
- Phyllodoce empetriformis** (15x35,Z5,P,L,3:8w) 1000 seeds / \$3.00
39670.19 (W) Idaho Co., ID, 7400ft, 2256m. Acicular leaves with deep pink campanulate flowers.
- Physaria acutifolia** (Brassicaceae) (6x16, Z5, P, L, 3:6w) 50 seeds / \$2.50
01301.13 (W) Grand Co., UT, 7800ft, 2378m. Gray rosettes erupt into a blaze of yellow.
- Physaria alpina** (4x14, Z3, P, L, 1) 75 seeds / \$3.50
05470.19 (W) Park Co., CO, 12100ft, 3689m. Silver, offsetting rosettes surround themselves with deep yellow blossoms shading to almost orange in the throat. On alpine screes. One of the best.
- Physaria condensata** (2x7,Z4,P,L,3:6w) 10 seeds / \$5.00
12800.16 (W) Lincoln Co., WY, 6900ft, 2104m. Dwarf, silver-white rosettes, bright yellow racemes.
- Physaria dornii** (6x16, Z4, P, C, 2) 75 seeds / \$2.50
15814.13 (W) Lincoln Co., WY, 6700ft, 2042m. Yellow fls. transform to voluminous brown fruits.
- Physaria integrifolia v. monticola** (14x8, Z3, P, L, 3:6w) 50 seeds / \$3.00
59878.13 (W) Sublette Co., WY, 8600ft, 2622m. Silver rosettes, yellow flowers, billows of fruit.
- Physaria newberryi** (8x18,Z6,P,L,3:6w) 50 seeds / \$3.50
58433.27 (W) San Juan Co., NM, 7100ft, 2165m. Large silver-gray rosettes, voluminous fruit.
- Physaria rollinsii** (2x5,Z4,P,L,3:5w) 40 seeds / \$4.00
74794.20 (W) Saguache Co., CO, 8300ft, 2530m. One of the smallest in the genus, perfect for troughs. Decumbent yellow flowers are splayed around silver-gray rosettes.
- Physaria saximontana** (4x10,Z5,P,L,3:6w) 50 seeds / \$3.50
76234.18 (W) Fremont Co., WY, 6700ft, 2043m. A choice dwarf species with chalky rosettes and clusters of yellow flowers. On tuffaceous mud/sandstone.
- Physoplexis comosa** (Campanulaceae) (6x9,Z4,P,GL,1) 60 seeds / \$4.00
12796.11 (W) Ex Germany. Sessile, inflated flowers in umbels colored dark purple-blue near the corolla tips shading to lilac or bluish below. GA3 needed for timely germination.
- Pinus flexilis** (Pinaceae) (540x360, Z3, P, C, 3:8w) 45 seeds / \$3.00
30556.13 (W) Johnson Co., WY, 8200ft, 2500m. "White Pine." Similar to Foxtail Pine, longer needles.
- Polemonium brandegei** (Polemoniaceae) (18x15, Z3, P, GL, 4:8w) 80 seeds / \$3.00
10754.45 (W) Albany Co., WY, 7400ft, 2255m. Spikes of large, snow-white, campanulate flowers.
- Polemonium carneum** (22x16,Z5,P,L,3:8w) 60 seeds / \$4.00
12218.16 (W) Douglas Co., OR, 5025ft, 1532m. Loose mounds of green, pinnate foliage bear flower heads in delicate shades of soft salmon-pink. Found here under the shade of coniferous forests.
- Polemonium chartaceum** (8x18,Z4,P,L,3:6w) 100 seeds / \$4.00
12364.15 (W) Siskiyou Co., CA, 8900ft, 2713m. Tufted rosettes of chunky, sculptural leaves covered with glandular hairs. The funnellform, deep blue fls. appear in dense balls just above the foliage.
- Polemonium confertum** (16x14, Z3, P, L, 3:8w) 100 seeds / \$4.00
12798.13 (W) Gunnison Co., CO, 12100ft, 3689m. (= *P. grayanum*.) Robust version of *P. viscosum* with super flower heads 3"-4" long. Flaring, campanulate fls. of bright sky-blue with orange anthers.
- Polemonium foliosissimum v. alpinum** (50x24,Z3,P,L,3:8w) 100 seeds / \$3.50
30794.11 (W) Cache Co., UT, 8600ft, 2622m. (= *P. albiflorum*.) Several upright stems from a central rootstalk bear large capitate flower clusters of snow white. The tallest of the species offered here.
- Polemonium pauciflorum** (32x65,Z6,P,L,3:6w) 90 seeds / \$3.50
70095.17 (W) Cochise Co., AZ, 6800ft, 2073m. Lax, pinnate foliage, often climbing on surrounding shrubs, bearing long-tubed trumpets in various peach and pale yellow shades.
- Polemonium pulcherrimum** (12x14,Z5,P,L,3:6w) 90 seeds / \$3.50
70994.29 (W) Chelan Co., WA, 5000ft, 1524m. More upright form compared to the Jackson Co., Oregon collection **70994.10**. Pinnate foliage, deep blue to pale blue flower heads.

- Polemonium viscosum** (10x16,Z3,P,L,3:6w) 100 seeds / \$3.50
90616.62 (W) Park Co., WY, 10450ft, 3186m. An apparent dwarf form here but may be only because of the exceptionally cold and windy conditions on this N-facing slope in the Beartooth Mtns. Small viscid leaves and trusses of purple-blue flowers.
- Poliomintha incana** (Lamiaceae) (50x50,Z5,P,C,1) 30 seeds / \$4.00
59813.39 (W) Garfield Co., UT, 6000ft, 1829m. Broad bushlets with gray-silver, aromatic, linear leaves and pale lavender flowers. Growing on pink sand dunes.
- Potentilla pensylvanica** (Rosaceae) (8x10,Z4,P,L,3:6w) 100 seeds / \$3.00
70398.15 (W) Iron Co., UT, 11300ft, 3445m. Hairy, pinnate leaves and dense clusters of yellow fls.
- Potentilla thurberi** (35x24, Z5, P, L, 3:6w) 50 seeds / \$3.00
78372.04 Ex Santa Cruz Co., AZ, 9000ft. Unusually large dark velvet-red flowers nearly all summer.
- Potentilla uniflora** (4x16,Z3,P,L,3:6w) 60 seeds / \$4.00
85857.29 (W) Park Co., CO, 12400ft, 3780m. One of the best alpine cushion plants. Tight buns of trifoliolate, silver-green leaves with solitary yellow flowers on short scapes.
- Primula alcalina** (Primulaceae) (10x5,Z5,P,L,3:8w) 100 seeds / \$3.50
19412.12 (W) Custer Co., ID, 6465ft, 1971m. Tufts of fleshy, somewhat rugose, lanceolate leaves with short stems of capitate heads of small white flowers, their bases in yellow rings. Not spectacular, probably only of interest to collectors. In grassland several feet away from a creek.
- Primula angustifolia** (4x3,Z3,P,L,3:8w) 40 seeds / \$5.00
19834.40 (W) El Paso Co., CO, 13500ft, 4116m. Minute, slow-growing tufts of linear-spatulate leaves which bear deep violet flowers with a yellow throat. Primarily a Colorado endemic.
- Primula auricula** (12x14,Z5,P,L,3:8w) 100 seeds / \$3.50
08759.00 Fleshy obovate leaves, often farinose, bearing clusters of deeply-notched, white-eyed, yellow flowers on short scapes. One of the easiest and most rewarding to grow.
- Primula cusickiana** (7x6,Z5,P,L,3:8w) 100 seeds / \$5.00
13017.72 (W) Camas Co., ID, 5060ft, 1543m. Blue to violet-blue, round-petalled flowers shading to a darker ring around the yellow throat. This population, which bakes on the volcanic Snake River Plains all summer, is probably much more heat-tolerant than the alpine population offered last year.
- Primula parryi** (18x20,Z3,P,L,3:6w) 100 seeds / \$3.00
70214.49 (W) Boulder Co., CO, 10900ft, 3323m. "Rocky Mountain Primrose" with magenta fls.
- Primula sieboldii** (15x15,Z5,P,L,3:8w) 70 seeds / \$3.50
76435.00 The well-known Japanese Primula in a mix of colors over fringed foliage.
- Primula specuicola** (8x8,Z5,P,L,3:5w) 100 seeds / \$4.00
76718.31 (W) Grand Co., UT, 4500ft, 1372m. The rosettes of spatulate, sparsely-toothed leaves are covered with a white farina and bear delicate umbels of lavender-purple fls with a large white eye.
- Primula suffrutescens** (12x9,Z4,P,L,3:8w) 100 seeds / \$5.00
76970.50 (W) Plumas Co., CA, 7400ft, 2256m. Rosettes of spoon-shaped, toothed leaves dot the alpine tundra with bright heads of magenta in late summer. This Sierran species is one of the best.
- Primula uralensis** (18x10,Z4,P,L,3:8w) 50 seeds / \$3.00
87419.07 (= *P. veris* ssp. *macrocalyx*.) Bright yellow fls from inflated calyxes over rugose, hairy lvs.
- Pteropyrum olivieri** (Polygonaceae) (60x120,Z5,P,L,3:8w) 30 seeds / \$4.00
65463.00 Small shrubs with fascicled, oblong leaves and pale pink flowers, followed by deep rosy-pink, winged fruit. Native to Pakistan and Turkey.
- Ptilotrichum spinosum** (Brassicaceae) (8x30,Z5,P,L,1) 60 seeds / \$3.50
76731.01 Prickly, mounding shrublets of silver-gray leaves are densely covered with white to pink flowers early in the summer. From the Atlas Mountains.
- Pulsatilla patens** (Ranunculaceae) (18x12, Z4, P, C, 3:8w) 80 seeds / \$3.50
70219.37 (W) Mesa Co., CO, 8000ft, 2439m. The beautiful "Pasqueflower." Ice-blue cup-flowers.
- Pulsatilla patens** (12x10,Z3,P,C,3:8w) 80 seeds / \$4.00
70219.48 (W) Big Horn Co., WY, 9400ft, 2866m. Dwarf form here with pale blue cups. Limestone.
- Pulsatilla rubra** (10x12,Z5,P,C,3:8w) 30 seeds / \$4.00
74950.00 Deep ruby-red flowers on dwarf plants.

- Purshia stansburiana** (Rosaceae) (180x80,Z6,P,C,3:4w) 40 seeds / \$3.50
56434.29 (W) Kane Co., UT, 5700ft, 1738m. Woody shrubs with small, deeply-lobed leaves and abundant white, fragrant, rose-like flowers which transform into feathery plumes.
- Puya coerulea v. violacea** (Bromeliaceae) (100x45, Z7, P, L, 3:6w) 100 seeds / \$3.00
12641.11 (W) Amerillo, VII Reg., Chile, 3300ft, 1006m. Flesh-colored bracts and purple-black fls.
- Pyrrocoma uniflora** (Asteraceae) (3x9,Z3,P,L,3:6w) 50 seeds / \$4.00
85858.17 (W) Gunnison Co., CO, 12200ft, 3658m. Tight tufts of lanceolate leaves bear relatively large (3cm), solitary yellow flowers on short stems. An alpine gem which grows only on mtn. crests.
- Rabiea difformis** (Aizoaceae) (5x16,Z8,P,L,1) 60 seeds / \$3.00
15580.09 Ex Craddock. Chunky gray tufts bear huge flowers of golden-yellow aging to orange.
- Rafinesquia neomexicana** (Asteraceae) (12x20,A,C,1) 40 seeds / \$3.00
58280.10 (W) San Diego Co., CA, 900ft, 274m. A cute little annual with white, chicory-like flowers and smooth, gray-green stems.
- Raillardella argentea** (Asteraceae) (6x15,Z5,P,L,3:6w) 16 seeds / \$4.00
22432.11 (W) Jackson Co., OR, 7500ft, 2286m. Dense mats of acuminate leaves, covered with long silky, silvery hairs. On N-facing volcanic screes.
- Ramonda myconi** (Gesneriaceae) (10x16, Z5, P, L, 1) 100 seeds / \$2.50
56976.06 Clusters of violet to deep lilac, 5-petalled, open flowers with yellow centers.
- Ramonda myconi f. alborosea** (10x16, Z5, P, L, 1) 100 seeds / \$3.00
56977.03 Flowers not seen but are presumably white and pink.
- Ranunculus andersonii** (Ranunculaceae) (16x12,Z5,P,RGL,3:12w) 50 seeds / \$5.00
20815.61 (W) Tooele Co., UT, 4750ft, 1448m. Basal tufts of glaucous, dissected leaves with deep pink to red cup-flowers, the first to bloom in the spring, often pushing right through the snowbanks. Rubbing the seed will reveal the tiny, cone-shaped seed inside the papery achenes. This xeric pop. is more tolerant of the summer heat compared to the Idaho alpine form. On north slopes of rocky loam.
- Ranunculus andersonii** (6x12,Z5,P,RGL,3:12w) 50 seeds / \$5.00
20815.72 (W) Camas Co., ID, 5060ft, 1543m. White flowers here on much shorter peduncles compared to the Utah population. On basalt plains.
- Ranunculus glaberrimus** (10x16,Z5,P,L,3:6w) 50 seeds / \$3.50
32564.32 (W) Twin Falls Co., ID, 3520ft, 1073m. Shining, bright yellow flowers over semi-succulent, broadly-lobed foliage. These drought-resistant plants are often found on sagebrush plains and are among the earliest spring bloomers.
- Rhamnus crocea** (Rhamnaceae) (150x150,Z7,P,C,4:8w) 40 seeds / \$3.50
12762.10 (W) Gila Co., AZ, 4800ft, 1463m. Beautiful little dioecious bushes with leathery, Holly-like, evergreen leaves and bright red berries in the autumn. On N-facing slopes of rhyolite.
- Rhodiola integrifolia** (Crassulaceae) (15x4,Z3,P,L,1) 100 seeds / \$3.00
60878.19 (W) Park Co., CO, 12700ft, 3872m. The "King's Crown" of the Rockies. Forms multi-stemmed stands, each fleshy stem topped with flattened deep rose-red heads.
- Rhododendron occidentale** (Ericaceae) (110x90,Z6,P,L,3:8w) 100 seeds / \$3.50
76212.12 (W) Josephine Co., OR, 3320ft, 1012m. Beautiful flowers in various white, pink or salmon shades, often with gold splashes on the upper petals.
- Rhus microphylla** (Anacardiaceae) (120x120, Z6, P, SC, 4:8w) 45 seeds / \$2.50
56562.14 (W) Eddy Co., NM, 4800ft, 1463m. Small-leaved bush and hairy orange berries in the fall.
- Rhus trilobata** (190x200,Z4,P,SC,4:8w) 45 seeds / \$2.50
78759.18 (W) Uintah Co., UT, 5400ft, 1646m. Large bushes with crenate, three-lobed leaves. Clusters of bright orange berries.
- Romneya coulteri** (Papaveraceae) (120x35, Z6, P, GL, 4:8w) 100 seeds / \$2.50
12700.15 (W) Ventura Co., CA, 4000ft, 1220m. "Matilija Poppy." Huge white poppy fls. up to 6".
- Ruellia ciliata f. depressa** (Acanthaceae) (6x10, Z5, P, C, 3:12w) 20 seeds / \$4.00
12604.04 Tufts of hairy, burgundy-colored foliage bear capitate clusters of bluish-lavender trumpets.
- Ruellia humilis** (16x12, Z5, P, C, 3:12w) 40 seeds / \$3.00
36006.09 "Wild Petunia." Delicate flowers of bluish-lavender, crinkled like a miniature Petunia.
- Ruschia pulvinaris** (Aizoaceae) (5x40,Z5,P,L,1) 70 seeds / \$3.00
71004.05 Heat-loving succulent with gray-green, tubercled foliage. Masses of pink in mid-spring.

- Ruschia sp. (Hantamberg)** (20x35,Z7,P,L,1) 30 seeds / \$3.00
35208.09 Ex Hantamberg, N Cape Province, RSA. Bright pink flowers on huge woody domes.
- Salicornia utahensis** (Chenopodiaceae) (15x40,Z5,P,L,2) 100 seeds / \$3.50
87819.71 (W) Utah Co., UT, 4520ft, 1378m. Bizarre succulent with knobby, jointed branching stems turning reddish with frosts. This halophyte dwells on alkaline mud flats which dry out late in summer.
- Salvia apiana** (Lamiaceae) (100x100, Z7, P, L, 2) 100 seeds / \$3.00
07056.15 Ventura Co., CA, 4900ft, 1494m. Ash-gray lvs and spikes with whorls of white/lavender fls.
- Salvia dorrii v. carnosa** (80x80,Z6,P,L,1) 30 seeds / \$3.50
15835.29 (W) Yakima Co., WA, 2100ft, 640m. Long spikes of blue flowers and large purple bracts.
- Salvia dorrii v. dorrii** (35x35,Z5,P,L,1) 40 seeds / \$3.50
15834.31 (W) Washington Co., UT, 6600ft, 2012m. Silvery-green, fragrant rounded leaves packed onto these dense subshrubs support showy spikes of purplish-blue bracts and blue flowers.
- Salvia dorrii v. pilosa** (50x60,Z7,P,L,1) 30 seeds / \$3.50
15837.10 (W) Kern Co., CA, 5100ft, 1555m. Truly xeric version of this widespread taxon, found in many areas of the Mojave Desert. Spectacular bush in full bloom.
- Salvia eremostachya** (65x75,Z7,P,L,2) 80 seeds / \$4.00
27441.61 (W) Riverside Co., CA, 3600ft, 1100m. Rounded shrubs with narrow, resinous, rugose foliage. Lilac flowers surrounded by rosy-purplish bracts in small heads.
- Salvia greggii** (55x60,Z6,P,C,2) 45 seeds / \$3.00
32762.11 **JRT05G** Multitudes of bright cherry-red blossoms practically the entire summer and fall.
- Salvia jurisicii** (26x26,Z4,P,L,1) 60 seeds / \$3.00
51034.06 Ferny and hirsute foliage with many deep blue spikes of "upside-down" flowers.
- Salvia lemmoni** (40x40,Z7,P,C,1) 20 seeds / \$3.50
54416.26 (W) Santa Cruz Co., AZ, 7200ft, 2195m. (= *S. microphylla* v. *wislizeni*). Diminutive woody subshrubs with fragrant leaves burst into color in summer with spikes of brilliant fuchsia.
- Salvia mohavensis** (35x35,Z7,P,C,2) 50 seeds / \$4.00
56795.20 (W) San Bernadino Co., CA, 4200ft, 1280m. Multiple stems terminated with heads packed with sky blue flowers, the anthers greatly exerted, all surrounded by large creamy bracts.
- Salvia pachyphylla** (60x50, Z5, P, C, 2) 50 seeds / \$4.00
70172.15 (W) Tulare Co., CA, 6100ft, 1859m. A more robust cousin of *Salvia dorrii* with 4" to 6" ovate flower spikes of rosy-purple bracts surrounding blue trumpets. My original "robust form."
- Salvia sonomensis** (16x60,Z5,P,L,3:6w) 100 seeds / \$3.50
76818.11 (W) Siskiyou Co., CA, 4200ft, 1280m. Mats of gray; blue-purple fls. with large lower lips.
- Salvia texana** (18x14,Z8,P,L,1) 40 seeds / \$3.00
78454.19 (W) Hill Co., TX, 1200ft, 366m. Hirsute plants sporting many gaping, blue flowers with white patches near the throat.
- Saponaria caespitosa** (Caryophyllaceae) (10x15,Z4,P,L,3:8w) 40 seeds / \$3.00
12048.06 Dense and tight succulent tufts with showy heads of rosy-pink flowers.
- Saponaria pulvinaris** (5x35,Z5,P,L,2) 50 seeds / \$3.50
71015.18 Ex Bolgar Dag, Turkey, 3000m. Rich pink flowers on bright green, compact cushions.
- Saponaria X sündermannii** (8x25,Z4,P,L,3:8w) 40 seeds / \$3.50
94963.01 A hybrid between *S. bellidifolia* and *S. caespitosa* which retains the compact habit of the former and heads of rose flowers of the latter.
- Satureja spinosa** (8x12,Z4,P,L,2) 45 seeds / \$3.00
76726.15 Ex Crete. Thymbra-like foliage turns white in late summer with thousands of tiny blossoms.
- Saxifraga chrysantha** (Saxifragaceae) (4x9,Z3,P,L,3:6w) 100 seeds / \$3.50
12373.11 (W) El Paso Co., CO, 13500ft, 4116m. Tiny rubbery rosettes bear clear yellow flowers.
- Saxifraga grisebachii** (10x12,Z5,P,L,3:6w) 100 seeds / \$3.00
32774.11 (W) Korab Mtns, Macedonia, 3600ft, 1100m. Small, stiff, lime-encrusted rosettes erupt with those wonderful velvety, crimson inflorescences on cherry-pink stems.
- Saxifraga mertensiana** (12x10,Z5,P,L,3:10w) 100 seeds / \$4.00
56435.12 (W) Whatcom Co., WA, 5100ft, 1555m. The leaves might be the most attractive feature -- ruffled, pleated and toothed foliage with short sprays of tiny pale pink flowers. On NW-facing rocks.

- Saxifraga oppositifolia** (2x40,Z3,P,L,4:8w) 100 seeds / \$3.50
83070.19 (W) Park Co., WY, 10450ft, 3186m. Dense rubbery cushions display sessile, deep rose-purple blossoms. On steep, N-facing cliffs of igneous origin.
- Saxifraga paniculata** (25x25,Z3,P,L,3:8w) 100 seeds / \$3.00
70222.06 Spreading cushions of gray-green leaves. Densely-branched inflorescences of white flowers.
- Saxifraga tolmiei** (6x20,Z4,P,L,3:10w) 100 seeds / \$4.00
78814.12 (W) Whatcom Co., WA, 5000ft, 1524m. Mats of tiny, succulent, shiny, bright green leaves bear numerous 1"-2" scapes of starry white flowers. On volcanic alpine slopes.
- Saxifraga tricuspidata** (8x55,Z3,P,L,3:8w) 100 seeds / \$3.00
78760.06 Ex Anchorage, AK, 100ft. Clouds of spotted, white flowers over prickly rosettes.
- Schrankia occidentalis** (Fabaceae) (10x100, Z6, P, SC, 1) 40 seeds / \$2.50
77212.27 (W) Eddy Co., NM, 3300ft, 1006m. Trailing, barbed stems bear bright pink puff-balls.
- Sclerocactus parviflorus** (Cactaceae) (16x12, Z6, P, GL, 3:4w) 50 seeds / \$3.00
70235.23 (W) San Juan Co., UT, 6600ft, 2012m. Apical flowers of purple-magenta to light violet.
- Sclerocactus parviflorus (robust)** (30x10,Z6,P,GL,3:4w) 60 seeds / \$3.50
70235.37 (W) Montezuma Co., CO, 5600ft, 1707m. Foot-tall barrels. Purple to lavender flowers.
- Scutellaria resinosa** (Lamiaceae) (16x16, Z4, P, L, 2) 100 seeds / \$3.50
74436.02 Blue-purple flowers with two prominent white guidelines on the flaring lower lip.
- Sedum divergens** (Crassulaceae) (5x8,Z5,P,L,1) 100 seeds / \$3.50
15650.15 (W) Linn Co., OR, 5600ft, 1707m. Sphaerical, reddish leaves and yellow, starry flowers.
- Sedum griffithsii** (6x15,Z7,P,L,1) 100 seeds / \$3.00
32764.17 (W) Cochise Co., AZ, 6800ft, 2073m. Pointed rosettes bear lax heads of pale pink flowers.
- Sedum kamtschaticum** (14x100,Z5,P,L,1) 100 seeds / \$3.00
52216.01 A great ground cover of evergreen, toothed, succulent foliage covered with yellow star-like flowers in spring and summer.
- Sedum lanceolatum** (10x8,Z4,P,L,1) 100 seeds / \$3.50
54218.18 (W) Park Co., WY, 7500ft, 2286m. The ubiquitous *Sedum* throughout the Rocky Mountains with bright yellow flowers and tightly-packed, lanceolate leaves. Especially robust form here.
- Sedum laxum ssp. heckneri** (7x12, Z7, P, L, 1) 100 seeds / \$3.00
54254.14 (W) Siskiyou Co., CA, 1400ft, 427m. Tiny flat rosettes appear margined in crystal. Pink fls.
- Sedum niveum** (7x22,Z6,P,L,1) 100 seeds / \$3.00
58650.15 (W) Riverside Co., CA, 7700ft, 2348m. Stacks of dark-green leaves with large white fls.
- Sedum obtusatum** (8x10,Z5,P,L,1) 100 seeds / \$3.00
77078.15 (W) Siskiyou Co., CA, 5800ft, 1768m. Glauous rosettes with racemes of yellow flowers.
- Sedum oreganum** (10x25,Z7,P,L,2) 100 seeds / \$3.50
67424.12 (W) Tillamook Co., OR, 1630ft, 497m. Rosettes of small obovate leaves bearing inflorescences of yellow, the petals long-acuminate. Leaves and flowering stems often turn various shades of red to orange depending on light intensity and cold exposure.
- Sedum oregonense** (10x25,Z5,P,L,1) 100 seeds / \$3.50
67440.42 (W) Josephine Co., OR, 5425ft, 1654m. Mats of thick, glauous blue leaves, similar to *S. obtusatum*. Creamy-yellow urceolate flowers in compact panicles. On a N-facing serpentine outcrop.
- Sedum pilosum** (10x5,Z6,B,L,1) 100 seeds / \$3.00
70614.05 Very attractive first-year rosettes, compact and sphaerical. Sprays of showy pink flowers.
- Sedum aff. rupicolum** (8x8,Z4,P,L,1) 100 seeds / \$4.00
75030.28 (W) Blaine Co., ID, 8200ft, 2500m. Small clumps of burgundy and chalk-colored, ovoid leaves with yellow flowers. Considered a ssp. of *S. lanceolatum*, but not reported from my locality.
- Sedum spathulifolium** (6x16,Z6,P,L,1) 100 seeds / \$3.00
76724.35 (W) Lane Co., OR, 5600ft, 1707m. Glauous bluish-white rosettes with starry yellow fls.
- Sedum stelliforme** (9x6,Z6,P,L,1) 100 seeds / \$3.00
76798.17 (W) Cochise Co., AZ, 6800ft, 2073m. Succulent rosettes of rounded leaves bear upright scapes of whitish or pale pinkish which dry to a distinctive white-gray stellar pattern.
- Sedum valens** (10x8,Z5,B,L,3:8w) 100 seeds / \$4.00
90214.12 (W) Idaho Co., ID, 2000ft, 609m. Beautiful tightly-packed rosettes of glauous gray-green surrounded by a ring of maroon leaves. Flat heads of bright yellow fls. On W-facing cliffs of basalt.

- Shepherdia argentea** (Elaeagnaceae) (160x100,Z3,P,C,3:12w) 55 seeds / \$3.00
23432.25 (W) Uintah Co., UT, 5580ft, 1701m. "Silver Buffaloberry." Silver shrubs / orange berries.
- Shepherdia rotundifolia** (110x200,Z6,P,C,3:12w) 25 seeds / \$5.00
74838.11 (W) Wayne Co., UT, 8400ft, 2561m. Beautiful shrubs coated with silvery farina-meal.
- Shoshonea pulvinata** (Apiaceae) (6x20, Z3, P, GL, 4:12w) 60 seeds / \$6.00
71014.28 (W) Park Co., WY, 8000ft, 2439m. Dense, aromatic mounds with yellow fls. Fantastic.
- Silene acaulis ssp. acaulescens** (Caryophyllaceae) (2x24,Z3,P,L,2) 100 seeds / \$3.50
01224.31 (W) Albany Co., WY, 10100ft, 3079m. Tight mats of fleshy green spike-like leaves are studded with small pink flowers.
- Silene argaea** (5x16,Z4,P,L,2) 40 seeds / \$3.00
23433.05 Ex Ericas Dag, Turkey, 3200m. Large inflated, deep rose-pink blossoms.
- Silene compacta** (30x26,Z5,B,L,3:4w) 100 seeds / \$3.00
12816.17 (W) Reg. Khevi, Tschcheris Z'hali, Georgia, 2000m. Carnation-like, gray-green leaves with compact, globular heads of many bright pink flowers.
- Silene delavayi** (15x15,Z5,P,L,3:6w) 60 seeds / \$3.50
15414.08 Magenta flowers over mounds of blue-green, velvety-textured foliage. Yunnan.
- Silene fenzi** (6x10, Z5, P, L, 2) 45 seeds / \$3.50
30418.04 Ex Turkey, Bolgar Dag, 2600m. Tufts of hairy, linear leaves with pink-red flowers.
- Silene hookeri** (5x8,Z6,P,L,3:6w) 25 seeds / \$5.00
35683.19 (W) Josephine Co., OR, 1500ft, 457m. Very dwarf plants of broad, velvety, grayish-green leaves. Over-sized flowers with deeply slashed petals variously colored deep salmon to light pinks.
- Silene jenissensis** (30x25,Z4,P,L,1) 90 seeds / \$3.00
50418.11 (W) Altai, Russia, 7220ft, 2200m. Tufts of narrow leaves bear several stems with white to pink, bifid flowers. Little-known plant from Russian mountain-steppe belt.
- Silene plankii** (7x16, Z6, P, L, 2) 50 seeds / \$4.00
70556.14 (W) El Paso Co., TX, 6850ft, 2085m. Tufted mats with bright red-orange, lacinate fls.
- Silene regia** (90x20,Z5,P,L,3:8w) 70 seeds / \$3.50
74392.02 Crimson-red flowers adorn sticky stems in mid to late summer. Great hummingbird plant.
- Sisyrinchium douglasii** (Iridaceae) (20x7,Z7,P,L,3:8w) 40 seeds / \$4.00
15699.21 (W) Siskiyou Co., CA, 2875ft, 876m. Satiny, bright reddish-violet flowers over grassy foliage very early in spring.
- Solidago virgaurea ssp. minuta** (Asteraceae) (25x15,Z5,P,L,1) 80 seeds / \$3.50
90635.11 (W) Tyrol, Mt. Patcherkofel, Austria, 6560ft, 2000m. "Alpine Goldenrod." Lanceolate leaves, myriad small yellow daisies from every axil on the upper stems.
- Sophora secundiflora** (Fabaceae) (100x80,Z7,P,SC,1) 30 seeds / \$3.50
76372.20 (W) Real Co., TX, 2200ft, 670m. Deep evergreen glossy pinnate leaves. Beautiful dense clusters of violet-blue to lavender flowers followed by silvery chained pods.
- Sphaeralcea ambigua** (Malvaceae) (40x38,Z6,P,SL,3:6w) 75 seeds / \$3.00
21610.25 (W) Mono Co., CA, 6100ft, 1860m. Densely-packed, deep orange, cupped flowers.
- Sphaeralcea coccinea** (12x16,Z4,P,SL,3:6w) 50 seeds / \$3.50
12772.21 (W) Wayne Co., UT, 7000ft, 2134m. Very nice deep orange flowering colony here.
- Sphaeralcea gierischii** (65x30,Z7,P,SL,2) 50 seeds / \$3.00
32443.15 (W) Mohave Co., AZ, 3500ft, 1067m. Dark leaves and bright, deep orange flowers.
- Sphaeralcea parviflora** (50x30, Z5, P, SL, 3:6w) 75 seeds / \$2.50
70234.44 (W) San Juan Co., UT, 6500ft, 1982m. Stems dense with large orange flower clusters.
- Sphaeromeria capitata** (Asteraceae) (12x20, Z4, P, L, 2) 40 seeds / \$2.50
12230.04 Ex Albany Co., WY, 7275ft. Silver-gray mats of filigreed foliage with greenish poms.
- Stachys coccinea** (Lamiaceae) (30x18,Z6,P,C,1) 25 seeds / \$4.00
12773.96 (W) Graham Co., AZ, 7000ft, 2134m. Soft-hairy, emerald foliage bears spikes of red, tubular flowers with flaring lips from summer to frost. Easily grown, blooms the first year from seed.
- Stachys lavandulifolia** (14x24,Z4,P,C,3:6w) 25 seeds / \$4.00
54251.01 Mats of grooved, hairy, grayish-green leaves. The flower spikes consist of numerous woolly calyxes with spidery appendages, embedded in which are bright purple blossoms. Exquisite sp.

- Stanleya pinnata** (Brassicaceae) (90x30,Z5,P,L,1) 100 seeds / \$3.50
70619.12 (W) Fremont Co., CO, 5100ft, 1555m. Tall racemes of starry, golden blossoms, like the "Foxtail Lily." Often found on badland areas throughout Colorado and Utah.
- Stomatium sp. (Sutherland)** (3x16,Z6,P,L,1) 40 seeds / \$3.00
77038.09 Ex Sutherland, N. Cape Province, RSA. Outstanding tight mats of pewter-gray, toothed leaves with sheets of fragrant, nocturnal, lemon-yellow flowers.
- Swertia perennis** (Gentianaceae) (26x12,Z3,P,L,3:8w) 90 seeds / \$3.50
70434.22 (W) Park Co., WY, 6600ft, 2012m. From pleated, basal foliage sprout several racemes of star-like flowers in a dark "electric" blue that defies description. Near an alpine swamp.
- Synthyris missurica** (Scrophulariaceae) (14x10,Z5,P,L,3:8w) 90 seeds / \$4.00
56636.32 (W) Idaho Co., ID, 5500ft, 1677m. Plumes of dark blue flowers over tufts of rounded, toothed leaves. On volcanic slopes. One of the loveliest and earliest-blooming of the PNW wildfls.
- Synthyris pinnatifida v. canescens** (9x7,Z3,P,L,3:8w) 100 seeds / \$3.50
70617.30 (W) Custer Co., ID, 10200ft, 3110m. Tight rosettes of grayish, ferny foliage. Short spikes of densely-packed purple flowers unfurl soon after the snowbanks recede. On N-facing slopes.
- Synthyris pinnatifida v. laciniata** (10x16, Z3, P, L, 3:8w) 100 seeds / \$3.50
70620.10 (W) Iron Co., UT, 11270ft, 3436m. Spikes of purple-blue flowers and lacinated leaves.
- Synthyris pinnatifida v. lanuginosa** (8x5,Z5,P,L,3:8w) 70 seeds / \$6.00
70616.42 (W) Clallam Co., WA, 6100ft, 1860m. Perhaps the best form of all with its hairy (tomentulose), silver-gray, pinnate foliage and congested spikes of blue-purple. On volcanic scree.
- Synthyris platycarpa** (34x20,Z4,P,L,3:8w) 100 seeds / \$4.00
70557.39 (W) Idaho Co., ID, 2100ft, 640m. Endemic to the Selway River area, this woodlander bears soft reniform leaves and dense racemes several inches long of lavender fls with lacinated petals.
- Tacitus bellus** (Crassulaceae) (10x14, Z10, P, L, 1) 100 seeds / \$3.00
10424.04 *Echeveria*-like rosettes of blue-gray tinged red bear enormous deep pink star-flowers.
- Tagetes lemmonii** (Asteraceae) (120x120,Z8,P,L,1) 40 seeds / \$3.00
54426.09 Drought-resistant, heat-tolerant aromatic, shrublets with vibrant yellow daisies.
- Talinum thompsonae** (Portulacaceae) (4x8,Z5,P,L,3:4w) 40 seeds / \$3.50
78373.09 Ex Emery Co., UT, 7800ft, 2377m. Tiny Sedum-like clumps bear pink flowers in its native habitat. Somewhat larger and more vigorous under cultivation.
- Tanacetum uralense** (Asteraceae) (30x16, Z3, P, L, 1) 55 seeds / \$3.00
87422.01 Soft, blue-white, finely-cut foliage. Yellow flowers appear in early summer.
- Telesonix jamesii** (Saxifragaceae) (12x16, Z3, P, L, 2) 100 seeds / \$3.50
50226.10 (W) Teller Co., CO, 12600ft, 3841m. Stunning magenta-pink fls. / scalloped, viscid foliage.
- Tephrosia virginiana** (Fabaceae) (30x25,Z5,P,SC,1) 35 seeds / \$3.50
90644.02 Unusual bicolor pale yellow and fuchsia pea-flowers atop feathery, grayish-green foliage.
- Teucrium orientale** (Lamiaceae) (16x30,Z5,P,C,3:6w) 40 seeds / \$3.00
67459.06 Elegant little plants with aromatic, blue-green foliage and pale purple-blue flowers.
- Thermopsis rhombifolia** (Fabaceae)(12x9, Z4, P, SC, 1) 35 seeds / \$3.00
74373.10 (W) Douglas Co., CO, 6400ft, 1951m. Clumps of golden pea-flowers in early spring.
- Tonestus pygmaeus** (Asteraceae) (4x10,Z3,P,L,3:6w) 40 seeds / \$3.50
70980.41 (W) Park Co., CO, 12000ft, 3658m. Caespitose plants of hairy, oblong leaves and yellow daisies on very short stems.
- Townsendia condensata** (Asteraceae) (3x7, Z3, B, C, 3:4w) 15 seeds / \$5.00
12828.18 (W) Beaver Co., UT, 11500ft, 3506m. Huge white daisies embedded in hairy, silver mounds.
- Townsendia exscapa** (2x7,Z5,P,C,1) 30 seeds / \$4.00
46476.12 (W) Elbert Co., CO, 6650ft, 2027m. Compact buns of silver, linear leaves are covered with white daisies early in the spring. Our local "Easter Daisy."
- Townsendia florifer** (5x12,Z4,A/B,L,1) 30 seeds / \$3.00
30563.36 (W) Custer Co., ID, 6400ft, 1951m. Creeping stems with myriad pink fls. for several weeks.
- Townsendia glabella** (4x15,Z4,P,C,1) 60 seeds / \$4.00
32557.12 (W) Archuleta Co., CO, 7130ft, 2175m. Mats of linear, grayish leaves with white to pale lavender flowers from spring to mid-summer. On fine black shale soils.

Townsendia grandiflora (5x14,Z5,B,C,1)	40 seeds / \$3.50
32773.11 (W) Jefferson Co., CO, 6500ft, 1982m. Large white flowers on flat rosettes which keep branching sideways all summer.	
Townsendia incana (3x8,Z5,P,C,1)	30 seeds / \$3.50
62812.28 (W) San Juan Co., UT, 5250ft, 1600m. Silver-gray buns with prolific white flowers.	
Townsendia jonesii v. jonesii (2x4,Z5,P,C,1)	20 seeds / \$5.00
50827.30 (W) Sevier Co., UT, 6300ft, 1920m. Tufted, silver-gray cushions bear creamy flowers. Any pale yellow flowering variants that show up will be <i>T. j. v. lutea</i> . On S-facing sandy shales.	
Townsendia jonesii v. lutea (2x4,Z5,P,L,3:6w)	15 seeds / \$5.00
50828.20 (W) Sevier Co., UT, 5412ft, 1650m. Ethereal yellow, stemless daisies. The reverse of the petals is lavender, imparting a mysterious tangerine overtone to the flower color. On shale ridges.	
Townsendia leptotes (1x3,Z4,P,L,1)	30 seeds / \$4.00
54440.17 (W) Saguache Co., CO, 9100ft, 2775m. Exceptionally tiny, gray tufts. Sessile white daisies.	
Townsendia leptotes (2x7,Z4,P,L,1)	40 seeds / \$3.50
54440.50 (W) Sanpete Co., UT, 10500ft, 3201m. Different form than the Colo. pop. Tufts of linear, silvery leaves with several white to pale pink daisies embedded. Ridge crest of limestone pavement.	
Townsendia montana (white) (3x8,Z3,P,C,1)	40 seeds / \$4.00
56828.78 (W) Uintah Co., UT, 8700ft, 2652m. Robust gray-green tufts of linear leaves. White fls.	
Townsendia montana v. caelilinensis (2x8,Z3,P,C,1)	40 seeds / \$5.00
56830.10 (W) Sanpete Co., UT, 10800ft, 3290m. Large flowers of pure white over dark-green, linear -spatulate foliage. Growing on fractured shaly-limestone, alpine flats.	
Townsendia parryi (8x10, Z3, B, C, 1)	40 seeds / \$4.00
70244.24 (W) Custer Co., ID, 8300ft, 2530m. Large violet to purple flowers on hairy rosettes.	
Townsendia spathulata (2x7, Z4, P, C, 1)	40 seeds / \$4.50
76717.18 (W) Fremont Co., WY, 8900ft, 2713m. Tiny silver mounds studded with pale pink daisies.	
Tradescantia occidentalis (Commelinaceae) (30x16,Z5,P,C,3:8w)	40 seeds / \$3.50
78212.11 (W) Garfield Co., UT, 6000ft, 1829m. Surprising sight to see these pop out of the sand dunes displaying their dark blue to magenta flower clusters. The ephemeral flowers are replaced daily.	
Tricyrtis puberula (Liliaceae) (30x50,Z5,P,L,2)	100 seeds / \$3.50
70981.11 (W) Taldai Shan, China. Hairy, glaucous leaves with large black spots bear numerous sprays of yellow-brown, spotted flowers. A woodland plant that starts blooming in mid-summer.	
Trifolium brandegei (Fabaceae) (8x10,Z3,P,SC,1)	30 seeds / \$4.00
10764.27 (W) Mineral Co., CO, 11400ft, 3475m. Unusual pendulous, deep rose flower heads.	
Trifolium dasyphyllum (8x25, Z3, P, SC, 1)	55 seeds / \$2.50
15246.17 (W) Park Co., CO, 12000ft, 3660m. Bicolored heads of creamy banners and purple keels.	
Trifolium dasyphyllum v. anemophilum (2x15, Z3, P, SC, 1)	20 seeds / \$4.00
15247.13 (W) Albany Co., WY, 7350ft, 2241m. Prostrate mats of tri-fingered, pointed foliage. Pure lilac flowers on decumbent scapes early in the spring. Inhabits bare limestone outcrops and ledges.	
Trifolium haydenii (7x35,Z3,P,SC,1)	40 seeds / \$4.00
35113.38 (W) Carbon Co., MT, 8600ft, 2622m. Forms hummocky mats of small, thick leaves, the edges erratically jagged. Pendant heads of intriguing peachy-pink to creamy-apricot flowers.	
Trifolium macrocephalum (15x30, Z6, P, SC, 1)	55 seeds / \$3.00
56182.10 (W) Kittitas Co., WA, 2500ft, 762m. Large pale pink and rose flower clusters.	
Trifolium monoense (4x16,Z4,P,SC,1)	40 seeds / \$3.50
56829.25 (W) Inyo Co., CA, 11400ft, 3476m. (= <i>T. andersonii v. beatleyae</i> .) Caespitose cushions surrounded by decumbent pink-lavender flower heads, covered with dense, silky white wool.	
Trifolium nanum (1x30,Z3,P,SC,1)	40 seeds / \$5.00
58228.37 (W) Park Co., CO, 13200ft, 4024m. Pulvinate, green mats on N-facing, gentle alpine slopes with erect three-fingered leaves tightly packed. Purple to lavender flowers.	
Trifolium X nanum (4x35,Z3,P,SC,1)	40 seeds / \$5.00
58228.17 (W) Park Co., CO, 12500ft, 3811m. Exceptionally vigorous and robust plants which may be hybrids of <i>T. nanum</i> and <i>T. dasyphyllum</i> . Dense cushions of erect, trifoliate leaves with loads of solitary violet flowers lying prostrate around the plants. On rocky, south-facing, alpine slopes.	

- Trifolium owyheense** (6x20,Z5,P,SC,1) 40 seeds / \$5.00
69313.38 (W) Malheur Co., OR, 4500ft, 1372m. A decumbent plant with gray-green, leathery foliage and large flower heads of bright rosy-violet. Growing on E-facing screes of ash-tuff.
- Trillium ovatum** (Liliaceae) (24x14,Z5,P,GL,3:8w) 60 seeds / \$4.00
69024.22 (W) Adams Co., ID, 4250ft, 1296m. One of the most wide-spread Trilliums in the Pacific Northwest with white to pink flowers, on several stems. Growing in deep pine duff in heavy shade.
- Tripterospermum japonicum** (Gentianaceae) (100x20,Z6,P,L,4:8w) 50 seeds / \$3.50
50240.00 (= *Gentiana trinervis*.) An odd climbing or trailing Gentian relative with ovate, 3-nerved leaves and profuse pendant bell flowers in pale blue-purple shades.
- Triteleia peduncularis** (Liliaceae) (16x20,Z7,P,L,3:8w) 70 seeds / \$3.50
70385.11 (W) Lake Co., CA, 2300ft, 701m. Huge umbels of long-pediceled white flowers striped dark violet on the outside. Interesting novelty.
- Trollius albiflorus** (Ranunculaceae) (8x12,Z3,P,L,4:12w) 100 seeds / \$3.50
22410.42 (W) Albany Co., WY, 10350ft, 3155m. Above clumps of cut foliage spread several beautiful pale primrose-yellow blossoms, each punctuated by a boss of yellow stamens. A lovely alpine.
- Umbellularia californica** (Lauraceae) (200x150,Z7,P,C,3:12w) 30 seeds / \$3.50
12225.12 (W) Josephine Co., OR, 2500ft, 762m. "Myrtlewood." An aromatic shrub with bright green leaves and yellow-green inflorescences which are followed by small avocado-like drupes. This seed from a population which experiences colder temperatures than in California and can also take brutally hot and dry conditions in the summer.
- Valeriana columbiana** (Valerianaceae) (16x16,Z4,P,L,3:8w) 25 seeds / \$4.00
12234.20 (W) Chelan Co., WA, 5700ft, 1738m. From mounds of deeply-lobed leaves emerge several stems bearing terminal clusters of creamy-white flowers. On N-facing basaltic screes.
- Vella spinosa** (Brassicaceae) (25x35,Z7,P,L,1) 30 seeds / \$3.50
76732.11 (W) Sierra Nevada, Trevenque, Spain, 6560ft, 2000m. Intricately-branched, spiny, mounding subshrubs covered with straw-yellow flowers in late spring.
- Veratrum formosanum** (Melanthiaceae) (70x30,Z5,P,C,3:8w) 30 seeds / \$4.00
30854.01 Ex Nantou, Taiwan, 3000m. Fantastic, late-flowering relative of the Lily family with drooping spikes of numerous deep purple-black flowers over quickly-clumping, grass-like foliage.
- Verbascum atrovioleaceum** (Scrophulariaceae) (42x18, Z4, B, L, 3:4w) 90 seeds / \$3.00
25874.04 Spikes of rich purple-brown flowers. From the Caucasus, Russia.
- Verbena gooddingii** (Verbenaceae) (18x24,Z5,P,L,3:8w) 100 seeds / \$3.50
32679.16 (W) Graham Co., AZ, 8800ft, 2683m. Plants of hirsute, deeply-cut foliage bear terminal heads of bright deep lilac for most of the summer, especially if kept dead-headed.
- Wyethia scabra** (80x60,Z4,P,C,1) 40 seeds / \$3.50
76139.18 (W) Fremont Co., WY, 4850ft, 1480m. The northern-most population I've seen, definitely hardy. Long-lived, bushy plants of sand-paper leaves and large, yellow daisies.
- Xerophyllum tenax** (Liliaceae) (130x45,Z5,P,C,4:12w) 100 seeds / \$3.50
78448.50 (W) Boundary Co., ID, 5800ft, 1768m. "Beargrass." Attractive grassy rosettes produce stout wands of innumerable white flowers. Leaching seed in water for a day may speed germination.
- Xylorhiza confertifolia** (Asteraceae) (15x24,Z5,P,L,1) 40 seeds / \$3.50
12850.39 (W) Garfield Co., UT, 6350ft, 1936m. The dwarfest of the *Xylorhiza spp.* listed here. The large white daisies are held over loose mounds of linear leaves. Growing on alkaline clay slopes.
- Xylorhiza glabriuscula** (15x22,Z4,P,C,1) 40 seeds / \$3.00
32559.15 (W) Albany Co., WY, 6900ft, 2104m. Dozens of white flowers on low plants with branched caudices. These distinctive perennials put on a show when in bloom on the Laramie Plains.
- Xylorhiza orcuttii** (60x120,Z9,P,L,1) 40 seeds / \$4.00
86412.31 (W) Imperial Co., CA, 0ft. Larger, bushier shrubs compared to *Xylorhiza tortifolia* with spiny leaves and large lavender flowers.
- Xylorhiza tortifolia** (25x25,Z7,P,L,1) 40 seeds / \$3.00
78864.20 (W) Inyo Co., CA, 4500ft, 1372m. "Mojave Aster." Large pale blue daisies, spiny leaves.
- Xylorhiza venusta** (30x20, Z5, P, C, 3:4w) 40 seeds / \$3.00
90448.13 (W) San Juan Co., UT, 6700ft, 2043m. Clumps of gray-green, rough-hewn leaves produce numerous scapes bearing large creamy-white daisy flowers. An extremely drought-tolerant perennial endemic to the northwest section of the Colorado Plateau.

- Yucca angustissima** (Liliaceae) (90x45,Z5,P,C,1) 50 seeds / \$3.50
24832.12 (W) Mesa Co., CO, 4750ft, 1450m. Very narrow, long leaves copiously lined with filament hairs. Cream flowers on three foot spikes. Small populations concentrated in western Colorado.
- Yucca baccata** (70x75, Z5, P, C, 1) 50 seeds / \$2.50
10202.13 (W) San Juan Co., UT, 6600ft, 2012m. Huge waxy flower clusters of cream with darker-tinted sepals nestle in rosettes of stiff, dagger-like leaves. Banana-like fruits.
- Yucca brevifolia** (300x180,Z6,P,C,1) 30 seeds / \$4.00
10761.48 (W) Kern Co., CA, 5100ft, 1555m. The famous "Joshua Tree," symbol of the Mojave Desert. Stiff and sharp leaves stack tightly to form multi-headed trunks in old specimens. Waxy cream and green flowers appear in favorable years.
- Yucca constricta** (120x45,Z7,P,C,1) 60 seeds / \$3.00
12849.17 (W) Menard Co., TX, 2100ft, 640m. Large rosettes of narrow leaves and spectacular, multiply-branched inflorescences. One of the predominant Yuccas on the Edwards Plateau.
- Yucca elata** (250x80,Z6,P,C,1) 60 seeds / \$3.00
25426.27 (W) Lincoln Co., NM, 6400ft, 1951m. Clumping stems of narrow, sharp-tipped leaves produce spectacular racemes of cream flowers in late spring. Ancient specimens develop trunks.
- Yucca elata** (400x300,Z5,P,C,1) 30 seeds / \$3.50
25426.32 (W) Pueblo Co., CO. **JRT044** Giant form with multi-clumping stems to fifteen feet high with up to 30 heads. Giant southern forms transplanted to Pueblo in the 1980s and thriving ever since.
- Yucca harrimaniae** (Var.#2) (35x20,Z5,P,C,1) 30 seeds / \$3.50
35264.60 (W) Wayne Co., UT, 5100ft, 1555m. Miniature rosettes with coarsely-filiferous leaves grow on sandstone ledges. Short spikes of cream-colored flowers.
- Yucca harrimaniae** (Var.#4) (60x30,Z5,P,C,1) 40 seeds / \$3.50
35264.50 (W) Duchesne Co., UT, 6000ft, 1829m. A robust population of larger rosettes and slightly wider, bluish leaves. Deep cream or pale yellow-cream flower spikes.
- Yucca nana** (65x15,Z5,P,C,1) 30 seeds / \$4.00
58248.12 (W) San Juan Co., UT, 6600ft, 2012m. The flowering stalks are taller than in the typical *Y. harrimaniae* population and the rosettes are, on average, tinier yet. Limited quantities.
- Yucca pallida** (100x40,Z7,P,C,1) 50 seeds / \$3.50
70246.12 (W) Callahan Co., TX. **JRT462** Wide, sky-blue leaves with ivory flower stalks.
- Yucca rupicola** (100x40,Z7,P,C,1) 50 seeds / \$3.50
75060.27 (W) Mills Co., TX, 1800ft, 549m. "Twisted-Leaf Yucca." Another dominant Yucca on the Edwards Plateau with wide leaves which often twist. Multiply-branched inflorescences of cream fls.
- Yucca rupicola** (180x40,Z7,P,C,1) 50 seeds / \$3.50
75060.42 (W) Brown Co., TX. **JRT461** Variable population with bright green to bluish tinted, wide, twisted leaves. Bloom stalks range from four to nine feet, possibly reflecting some *Y. reverchoni* influence. Nice ivory flowers.
- Yucca schottii** (200x55,Z7,P,C,1) 30 seeds / \$3.50
76142.19 (W) Santa Cruz Co., AZ, 4800ft, 1463m. **JRT8901** Glaucous blue leaves atop trunks covered with thatched old leaves. Sphaerical white flowers in panicles.
- Yucca thompsoniana** (150x55,Z7,P,C,2) 40 seeds / \$3.50
78375.17 (W) Pecos Co., TX, 4500ft, 1372m. Rosettes of tightly-packed, long, slender, blue-green leaves often margined yellowish. Trunk-forming with age, with showy, branched racemes of white fls.
- Zauschneria garrettii** (Onagraceae) (35x60, Z4, P, L, 2) 80 seeds / \$4.00
32264.19 (W) Salt Lake Co., UT, 6300ft, 1920m. Masses of the scarlet-orange, lacinate blossoms in late summer. The hardiest in the genus and very long-lived.
- Zinnia grandiflora** (Asteraceae) (8x20,Z5,P,C,2) 40 seeds / \$3.50
32765.22 (W) Fremont Co., CO, 5500ft, 1677m. Dwarf plants with linear, twisted foliage and large, orange-centered, sunshine-yellow daisies. Drought and heat tolerant, great for the xeric garden.
- Zoellnerallium andinum** (Liliaceae) (30x12,Z7,P,C,3:8w) 40 seeds / \$3.50
24815.11 (W) Portillo, Chile. Typical Allium habit with long, narrow leaves and heads of white fls.
- Zygadenus elegans** (Melanthiaceae) (15x18,Z3,P,C,3:12w) 80 seeds / \$4.00
25442.10 (W) Teller Co., CO, 12000ft, 3660m. Superb alpine form of several compact racemes of cream flowers with pale yellow centers.