

# INDEX SEMINUM 2017



DENVER BOTANIC  
**GARDENS**

## ON THE COVER

Photo credit: Mike Kintgen, *Hymenoxys grandiflora* (Torr. & A. Gray ex A. Gray) Parker (old-man-on-the-mountain), in Colorado

### "Wildflowers of the Rocky Mountains"

A new field guide entitled "Wildflowers of the Rocky Mountain Region" will be released through Timber Press during summer 2018. This book, written by Denver Botanic Gardens' staff, covers the expansive region between northern New Mexico in the United States and central Alberta and British Columbia in Canada. The book is arranged by flower color and includes over 1,200 species of flowering plants, accompanied by descriptions, maps of their known native ranges and color photographs.

## ABOUT DENVER BOTANIC GARDENS

Denver Botanic Gardens is situated at Latitude 39°43'55.4"N, Longitude 104°57'36.5"W, at an elevation of 5277 feet (1609 meters) above sea level. The Gardens includes 24 acres of display and collections including a tropical conservatory, rock alpine garden, Japanese garden, native plant gardens and water gardens.

Denver Botanic Gardens  
909 York Street  
Denver, Colorado 80206  
United States

Tel: 720-865-3553  
Fax: 720-865-3679

Email: [indexseminum@botanicgardens.org](mailto:indexseminum@botanicgardens.org)

## INTERNATIONAL PLANT EXCHANGE NETWORK (IPEN)

Denver Botanic Gardens is a member of IPEN with code KHD.

The IPEN number consists of four elements:

1. Country of origin (abbreviation according to IO 3166-1-alpha-2 (<http://www.iso.org>, "XX" for unknown origin))
2. Restrictions of transfer ("1" if there exists a restriction, "0" if no restrictions).
3. Garden codes can be found on Botanic Gardens Conservation International website, <http://www.bgci.org/policy/ipen/>
4. Identification number (accession number from originating IPEN member garden)

For example:

US-0-KHD-060654

US: Plant material originates from the United States

0: There are no restrictions of transfer

KHD: Denver Botanic Gardens' IPEN code

060654: Our accession number

## GARDENS NAVIGATOR

We invite you to learn more about the selections provided through this year's Index Seminum through our Gardens Navigator website. Species names are linked to images, phenology and descriptive data throughout this catalog.

# SEED OF CULTIVATED PLANTS

All plant names are linked to descriptions and, in many cases, to images on Gardens Navigator website at [gardensnavigator.org](http://gardensnavigator.org).

ORDER #	FAMILY/NAME	IPEN #	PLANT SOURCE
<b>AIZOACEAE</b>			
1	<i>Dorotheanthus bellidiformis</i> (Burm.f.) N.E. Br.	XX-0-KHD-161204	
<b>AMARYLLIDACEAE</b>			
2	<i>Allium cernuum</i> Roth	XX-0-KHD-021491	
3	<i>Allium geyeri</i> S. Watson	XX-0-KHD-131264	
4	<i>Allium geyeri</i> S. Watson	XX-0-KHD-171085	
5	<i>Allium karataviense</i> Regel	XX-0-KHD-163058	
<b>APIACEAE</b>			
6	<i>Angelica acutiloba</i> (Siebold & Zucc.) Kitag.	XX-0-KHD-930908	
7	<i>Eryngium glaciale</i> Boiss.	XX-0-KHD-140735	
8	<i>Peucedanum terebinthaceum</i> (Fischer ex Treviranus) Ledebour var. <i>terebinthaceum</i>	XX-0-KHD-041622	
9	<i>Seseli elatum</i> L. ssp. <i>osseum</i> (Crantz) P.W. Ball	XX-0-TUEB-1599	Botanischer Garten der Universität Tübingen, 2009 Index Seminum
<b>ASTERACEAE</b>			
10	<i>Arctotis venusta</i> Norl.	XX-0-KHD-020211	
11	<i>Berkheya purpurea</i> (DC.) Mast.	XX-0-KHD-161192	
12	<i>Berlandiera lyrata</i> Benth.	XX-0-KHD-121193	
13	<i>Coreopsis auriculata</i> L. 'Nana'	XX-0-KHD-100579	
14	<i>Cotula</i> 'Tiffindell Gold'	XX-0-KHD-141659	
15	<i>Echinacea pallida</i> (Nutt.) Nutt.	XX-0-KHD-032042	
16	<i>Echinacea tenesseeensis</i> (Beadle) Small	XX-0-KHD-032370	
17	<i>Engelmannia peristenia</i> (Rafinesque) Goodman & C. A. Lawson	XX-0-KHD-163563	
18	<i>Erigeron leiomerus</i> A. Gray	US-0-KHD-160987	United States: Colorado: Horseshoe Mt. 12000 ft. Kintgen, M. s.n. 10 Sep 2015.
19	<i>Erigeron linearis</i> (Hook.) Piper	XX-0-KHD-161958	
20	<i>Erigeron speciosus</i> (Lindl.) DC.	XX-0-KHD-002520	
21	<i>Gaillardia aristata</i> Pursh	XX-0-KHD-002522	
22	<i>Inula rhizocephala</i> Schrenk ex Fisch. & C.A. Mey.	XX-0-KHD-162746	
23	<i>Ratibida columnifera</i> (Nutt.) Wooton & Standl.	XX-0-KHD-002511	
24	<i>Solidago multiradiata</i> Ait.	XX-0-KHD-180630	
25	<i>Solidago rigida</i> L.	XX-0-KHD-970226	
26	<i>Zinnia grandiflora</i> Nutt.	XX-0-KHD-163037	
<b>BORAGINACEAE</b>			
27	<i>Echium russicum</i> J. F. Gmel. compact form	XX-0-KHD-052599	
<b>BRASSICACEAE</b>			
28	<i>Aethionema capitatum</i> Boiss. & Balansa	XX-0-KHD-112727	
29	<i>Alyssum minutum</i> Schltdl. ex DC.	XX-0-KHD-150011	
30	<i>Draba alpina</i> L. var. <i>glacialis</i> (Adams) Dickie	XX-0-KHD-071172	

# SEED OF CULTIVATED PLANTS

ORDER #	FAMILY/NAME	IPEN #	PLANT SOURCE
<b>CAMPANULACEAE</b>			
31	<i>Campanula hofmannii</i> (Pantan.) Greuter & Burdet	XX-0-KHD-800382	
32	<i>Campanula rotundifolia</i> L.	XX-0-KHD-002550	
33	<i>Campanula sarmatica</i> Ker Gawl.	XX-0-KHD-790371	Conservatoire et Jardin Botaniques de la Ville Genève, 1978 Index Seminum
34	<i>Campanula tommasiniana</i> K. Koch	XX-0-KHD-090903	
35	<i>Campanula versicolor</i> Andrews	XX-0-KHD-130088	
36	<i>Michauxia campanuloides</i> L'Her. ex Ait.	TR-0-KHD-861944	Turkey. Archibald, J. s.n.
37	<i>Phyteuma sieberi</i> Spreng.	XX-0-KHD-021956	
38	<i>Trachelium jacquinii</i> (Sieber) Boiss. ssp. <i>rumelianum</i> (Hampe) T.G. Tutin	GR-0-KHD-920570	Greece: Mt. Olympus. Jurasek, J. s.n. 1 Jul 1991.
<b>CARYOPHYLLACEAE</b>			
39	<i>Dianthus caucaseus</i> Sims	XX-0-KHD-140132	
40	<i>Dianthus cruentus</i> Griseb.	XX-0-KHD-830221	
41	<i>Dianthus petraeus</i> Waldst. & Kit. ssp. <i>noeanus</i> (Boiss.) Tutin	XX-0-KHD-802809	
42	<i>Silene chalconica</i> (L) E. H. L. Krause 'Morgenrot'	XX-0-KHD-981831	
43	<i>Silene regia</i> Sims	XX-0-KHD-130447	
<b>CELASTRACEAE</b>			
44	<i>Evonymus latifolius</i> (L.) Mill.	XX-0-KHD-171394	
<b>CLEOMACEAE</b>			
45	<i>Cleome serrulata</i> Pursh	US-0-KHD-980554	United States: Colorado: Rocky Mountain Arsenal, CO. Johnson, D. s.n. 18 Sep 1997.
<b>CRASSULACEAE</b>			
46	<i>Rhodiola rhodantha</i> (Gray) Jacobsen	XX-0-KHD-180631	
47	<i>Rosularia alpestris</i> (Kar. & Kir.) Boriss. ssp. <i>marnieri</i> (Raymond-Hamet ex H. Ohba) Egli	CN-0-KHD-152344	China: Tibet. Chadwell, C. 7535. 8 Feb 2015.
<b>FABACEAE</b>			
48	<i>Astragalus centralpinus</i> Braun-Blanq.	XX-0-KHD-161191	
49	<i>Caragana erinacea</i> Kom.	XX-0-KHD-972276	
50	<i>Caragana pygmaea</i> (L.) DC.	XX-0-KHD-850268	
51	<i>Dalea purpurea</i> Vent.	XX-0-KHD-022795	
52	<i>Oxytropis besseyi</i> (Rydb.) Blank. var. <i>argophylla</i> (Rydb.) Barneby	XX-0-KHD-162829	
53	<i>Thermopsis montana</i> Nutt.	XX-0-KHD-002538	
<b>GENTIANACEAE</b>			
54	<i>Gentiana paradoxa</i> Albov	XX-0-KHD-072763	
55	<i>Gentiana septemfida</i> Pall. var. <i>lagodechiana</i> I.V. Kusn.	XX-0-KHD-090847	

# SEED OF CULTIVATED PLANTS

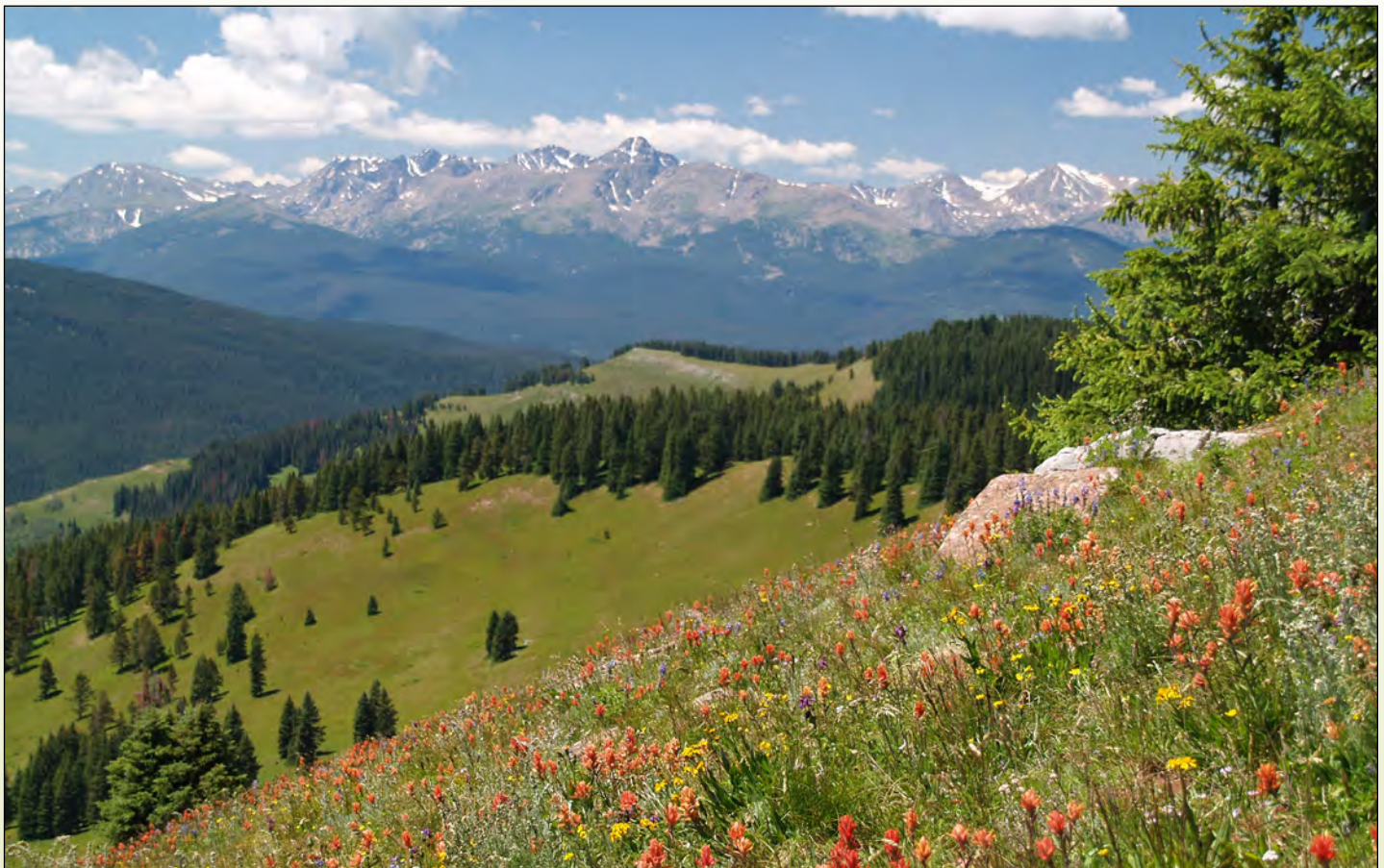
ORDER #	FAMILY/NAME	IPEN #	PLANT SOURCE
<b>LAMIACEAE</b>			
56	<i>Salvia chrysophylla</i> Stapf	XX-0-KHD-163644	
57	<i>Salvia phlomoides</i> Asso	XX-0-KHD-162750	
58	<i>Salvia pisidica</i> Boiss. & Heldr. ex Benth.	TR-0-KHD-850106	Turkey: Antalya: 1000 m. Buckshaw Gardens.
59	<i>Satureja spicigera</i> (K. Koch) Boiss.	XX-0-KHD-090900	
60	<i>Scutellaria supina</i> L.	XX-0-KHD-160747	
61	<i>Thymus comosus</i> Heuff. ex Griseb.	XX-0-KHD-081552	
<b>LILIACEAE</b>			
62	<i>Lilium formosanum</i> Wallace var. <i>pricei</i> Stoker	XX-0-KHD-171094	
<b>LINACEAE</b>			
63	<i>Linum lewisii</i> Pursh	XX-0-KHD-002527	
64	<i>Linum narbonense</i> L.	XX-0-KHD-131874	
<b>MALVACEAE</b>			
65	<i>Alcea pallida</i> (Waldst. & Kit. ex Willd.) Waldst. & Kit.	XX-0-KHD-040304	
66	<i>Alcea rugosa</i> Alef.	XX-0-KHD-900402	
67	<i>Callirhoe involucrata</i> (Torr. & A. Gray) A. Gray	XX-0-KHD-111787	
<b>MONTIACEAE</b>			
68	<i>Montiopsis umbellata</i> (Ruiz & Pav.) D. I. Ford	XX-0-KHD-161194	
<b>NYCTAGINACEAE</b>			
69	<i>Mirabilis multiflora</i> (Torr.) A. Gray var. <i>glandulosa</i> (Standl.) J.F. Macbr.	XX-0-KHD-002508	
<b>OLEACEAE</b>			
70	<i>Forestiera neomexicana</i> A. Gray	XX-0-KHD-131081	
<b>PAPAVERACEAE</b>			
71	<i>Papaver somniferum</i> L.	XX-0-KHD-180448	
<b>PLANTAGINACEAE</b>			
72	<i>Penstemon barbatus</i> (Cav.) Roth	XX-0-KHD-002582	
73	<i>Penstemon confertus</i> Douglas ex Lindl.	XX-0-KHD-122438	
74	<i>Penstemon degeneri</i> F. Crosswhite	US-0-KHD-911052	United States: Colorado: Fremont County. Dawson, C. s.n.
75	<i>Penstemon glaber</i> Pursh var. <i>brandegeei</i> (Porter) Freeman	XX-0-KHD-152690	
76	<i>Penstemon grandiflorus</i> Nutt. 'P010S' PRAIRIE JEWEL®	XX-0-KHD-002509	
77	<i>Penstemon rostriflorus</i> Kellogg	XX-0-KHD-861676	
78	<i>Penstemon strictus</i> Benth.	XX-0-KHD-951408	
79	<i>Penstemon uintahensis</i> Pennell	XX-0-KHD-162747	
80	<i>Plantago patagonica</i> Jacq.	US-0-KHD-160577	United States: Colorado: Jefferson: Roxborough State Park: Lost Arrow Trail. Bone, M. s.n. 17 Aug 2015.

# SEED OF CULTIVATED PLANTS

ORDER #	FAMILY/NAME	IPEN #	PLANT SOURCE
<b>PLUMBAGINACEAE</b>			
81	<i>Acantholimon hohenackeri</i> (Jaub. & Spach) Boiss.	XX-0-KHD-941402	
82	<i>Goniolimon tataricum</i> (L.) Boiss.	XX-0-KHD-941107	
<b>POACEAE</b>			
83	<i>Festuca valesiaca</i> Schleich. ex Gaudin var. <i>glauca</i>	XX-0-KHD-161209	
84	<i>Koeleria macrantha</i> (Ledeb.) Schult.	US-0-KHD-163828	United States: Colorado: Gunnison County: Cement Creek trailhead. 9600 ft. 38°49'46"N, 106°51'38"W. Full sun. Bone, M. WB-16. 21 Aug 2016.
85	<i>Sporobolus heterolepis</i> (A. Gray) A. Gray	XX-0-KHD-002428	
86	<i>Stipa barbata</i> Desf.	XX-0-KHD-051045	
87	<i>Stipa ichu</i> (Ruiz & Pav.) Kunth	XX-0-KHD-052298	University of California Berkeley Botanical Garden
88	<i>Stipa pulcherrima</i> K. Koch	XX-0-KHD-941659	Universita di Torino Giardino Botanico Alpino Chanousia, 1994 Index Seminum, item 655
<b>POLYGONACEAE</b>			
89	<i>Eriogonum jamesii</i> Benth.	XX-0-KHD-002714	
90	<i>Eriogonum umbellatum</i> Torr. var. <i>majus</i> Hook.	US-0-KHD-060013	United States: Colorado: Routt County: Mill Creek, 2 miles W of Steamboat Lake. Dry south facing hillside. With <i>Artemisia tridentata</i> . 8000 ft. Kintgen, M. s.n. 30 Jul 2005.
91	<i>Eriogonum umbellatum</i> Torr. var. <i>majus</i> Hook.	US-0-KHD-110367	United States: Colorado: Routt County: Steamboat Lake. reddish forms. Mike Kintgen s.n. 1 Jul 2010.
92	<i>Eriogonum umbellatum</i> Torr. var. <i>porteri</i> (Small) S. Stokes	XX-0-KHD-050536	United States: Utah: Beaver County. 10400 ft. Igneous mountain slopes. Bradshaw, A. Alplains accession #89612.18. 1989.
<b>PRIMULACEAE</b>			
93	<i>Dodecatheon pulchellum</i> (Raf.) Merrill	XX-0-KHD-131265	
<b>RANUNCULACEAE</b>			
94	<i>Anemone multifida</i> Poir. var. <i>multifida</i> Poir.	XX-0-KHD-161941	
95	<i>Aquilegia barnebyi</i> Munz	US-0-KHD-060654	United States: Colorado: Rio Blanco County: Oil shale screes and in gullies. 7400 ft. Butter yellow corollas contrast beautifully with the peachy-pink sepals. Bradshaw, A. Alplains accession #10074.13. 2010.
96	<i>Aquilegia chrysantha</i> A. Gray	XX-0-KHD-002505	
97	<i>Aquilegia flabellata</i> Sieb. & Zucc. 'Nana'	XX-0-KHD-120928	
98	<i>Aquilegia saximontana</i> Rydb.	XX-0-KHD-021951	
99	<i>Clematis fremontii</i> S. Wats.	XX-0-KHD-981061	
100	<i>Clematis hirsutissima</i> Pursh var. <i>scottii</i> (Porter) R.O. Ericksen	XX-0-KHD-032304	
101	<i>Clematis stans</i> Siebold & Zucc.	XX-0-KHD-060497	
102	<i>Pulsatilla campanella</i> Fisch. ex Krylov	XX-0-KHD-140964	
103	<i>Pulsatilla vulgaris</i> Mill.	XX-0-KHD-800320	

# SEED OF CULTIVATED PLANTS

ORDER #	FAMILY/NAME	IPEN #	PLANT SOURCE
<b>SAXIFRAGACEAE</b>			
104	<i>Heuchera hallii</i> A. Gray	XX-0-KHD-003024	
105	<i>Heuchera hallii</i> A. Gray	XX-0-KHD-110419	
106	<i>Heuchera pulchella</i> Wooton & Standl.	XX-0-KHD-023705	
107	<i>Heuchera pulchella</i> Wooton & Standl.	XX-0-KHD-131257	
108	<i>Saxifraga</i> × <i>macnabiana</i> R. Lindsay	XX-0-KHD-061169	
109	<i>Telesonix jamesii</i> (Torr.) Raf.	XX-0-KHD-131248	
<b>SCROPHULARIACEAE</b>			
110	<i>Verbascum roripifolium</i> (Halacsy) I.K. Ferguson	GR-0-B-2418792	Greece. 400 m., B Index Seminum 1992: det. Dr. Thomas Raus 1998.
111	<i>Verbascum splendidum</i> Boiss.	TR-0-KHD-082136	Turkey: Senirkent. Gardens North.
<b>SOLANACEAE</b>			
112	<i>Schizanthus grahamii</i> Gillies ex. Hook.	XX-0-KHD-160946	
<b>VERBENACEAE</b>			
113	<i>Glandularia bipinnatifida</i> (Nuttall) Nuttall	XX-0-KHD-163036	
<b>XANTHORRHOEACEAE</b>			
114	<i>Asphodeline liburnica</i> (Scop.) Rchb.	GR-0-KHD-821681	Greece: Crete: Muri. Taylor, A. s.n.



# WILD COLLECTED SEEDS

ORDER #	FAMILY/NAME	IPEN #	WILD DATA
<b>APIACEAE</b>			
115	<i>Perideridia gairdneri</i> (Hook. & Arn.) Mathias	US-0-KHD-180626	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
<b>ASTERACEAE</b>			
116	<i>Erigeron speciosus</i> (Lindl.) DC.	US-0-KHD-180619	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
117	<i>Heliomeris multiflora</i> Nutt.	US-0-KHD-180622	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
118	<i>Hymenoxys hoopesii</i> (A. Gray) Bierner	US-0-KHD-180621	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
119	<i>Senecio bigelovii</i> A. Gray	US-0-KHD-180628	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
120	<i>Senecio serra</i> Hook.	US-0-KHD-180629	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
<b>BORAGINACEAE</b>			
121	<i>Hydrophyllum capitatum</i> Douglas ex Benth.	US-0-KHD-180623	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
<b>LAMIACEAE</b>			
122	<i>Agastache urticifolia</i> (Benth.) Kuntze	US-0-KHD-180615	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.



# WILD COLLECTED SEEDS

ORDER #	FAMILY/NAME	IPEN #	WILD DATA
<b>OROBANCHACEAE</b>			
123	<i>Castilleja miniata</i> Douglas ex Hooker	US-0-KHD-180617	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
124	<i>Castilleja sulphurea</i> Rydb.	US-0-KHD-180618	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
125	<i>Pedicularis groenlandica</i> Retz.	US-0-KHD-180624	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
<b>PLANTAGINACEAE</b>			
126	<i>Penstemon rydbergii</i> A. Nels.	US-0-KHD-180625	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
<b>POLYGONACEAE</b>			
127	<i>Eriogonum umbellatum</i> Torr. var. <i>majus</i> Hook.	US-0-KHD-180620	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
<b>PRIMULACEAE</b>			
128	<i>Androsace septentrionalis</i> L.	US-0-KHD-180616	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.
<b>ROSACEAE</b>			
129	<i>Potentilla arguta</i> Pursh	US-0-KHD-180627	United States: Colorado: Routt County: 1 mile west of Steamboat Lake in the Mill Creek Valley, privately owned 35 acre parcel of intact ecosystem adjoining Routt National Forest. ca 8250 ft. 40°47'15"N, 106°59'36"W. Mike Kintgen s.n. 2017.

# GENERAL INFORMATION

Please note:

- Seeds of some species are in short supply and will be distributed in order of request.
- Seeds are the result of open pollination and may be hybridized.
- We give no warranty as to the quality, productiveness or any other matter for seeds we supply.
- Species are chosen for their performance in Denver, Colorado's climate; we cannot speak to qualities such as invasiveness in other climates, but we request any data pertaining to invasiveness of these species in other regions to be communicated to Denver Botanic Gardens for future reference. We will not knowingly distribute seed to places where a taxon has been identified as invasive.

Seeds from cultivated plants collected by Katy Wieczorek, Mike Bone, and Mike Kintgen. Seed requests fulfilled and data tracked by Denver Botanic Gardens volunteers Barry Levene and Gary Waggoner. Catalog coordinated by Cindy Newlander.

## SOURCES FOR NOMENCLATURE

Plant names and family arrangement are based on data found in The Plant List ([theplantlist.org](http://theplantlist.org)), The Flora of North America and Germplasm Resources Information Network (GRIN) ([ars-grin.gov/](http://ars-grin.gov/)).

## CLIMATIC CONDITIONS IN DENVER (1971-2000)

### AVERAGE PRECIPITATION

	JAN	FEB	MAR	APRIL	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
inches	0.47	0.47	1.26	1.73	2.28	1.69	2.05	2.05	1.06	1.06	0.83	0.59	15.54

### 2017 PRECIPITATION

	JAN	FEB	MAR	APRIL	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	2017 ACTUAL
inches	0.89	0.16	0.84	2.43	2.41	1.13	1.17	0.89	1.52	1.26	0.26	0.12	13.08

### AVERAGE HIGH TEMPS

	JAN	FEB	MAR	APRIL	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
° F	44	46	54	61	71	81	88	86	77	65	52	43	64.0

### 2017 MONTHLY HIGH TEMPS

	JAN	FEB	MAR	APRIL	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC
° F	63	82.9	82	81	88	102	102	97	98.1	84	79	71.1

### AVERAGE LOW TEMPS

	JAN	FEB	MAR	APRIL	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
° F	17	20	26	34	44	53	59	57	47	36	25	17	36.3

### 2017 MONTHLY LOW TEMPS

	JAN	FEB	MAR	APRIL	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC
° F	7	14	17.1	25	28.9	46	51.1	53.1	42.1	19.9	21.9	1

source: 2017 data source: U.S. climate data (Stapleton weather station) and Denver Botanic Gardens rain gauge

Historical data (1981-2010): U.S. climate data (<http://www.usclimatedata.com/climate/denver/colorado/united-states/usco0105>)

Lowest temperature recorded (1921-2011) -25° F/-3.9° C

Highest temperature recorded (1921-2011) 105° F/40.6° C