

THE VASCULAR PLANT TYPE SPECIMENS IN THE ROBERT BEBB HERBARIUM OF THE UNIVERSITY OF OKLAHOMA (OKL)

Wayne Elisens¹, Amy Buthod, and Priscilla Crawford

Oklahoma Biological Survey and ¹Department of Botany and Microbiology
University of Oklahoma, Norman, OK 73019

ABSTRACT. – The Robert Bebb Herbarium contains over 210,000 specimens and is a repository for 213 vascular plant type specimens. Type specimens deposited at OKL represent 100 genera in 43 families and comprise 15 holotypes, 195 isotypes, and 3 isolectotypes. Types have been collected in 21 states of the U.S.A., whereas 13 types are from localities in four other North American countries. States with the greatest number of type specimens in decreasing order are Nevada, Oklahoma, Utah, California, Idaho, and Texas. Families with the largest number of type specimens include the Asteraceae, Polygonaceae, Brassicaceae, Fabaceae, and Scrophulariaceae; genera with the most type specimens include *Eriogonum*, *Penstemon*, *Astragalus*, and *Erigeron*. The Robert Bebb Herbarium has type specimens from the historically significant collections of B. F. Bush, A. W. Chapman, A. H. Curtiss, E. L. Greene, F. J. Lindheimer, and H. N. Patterson; collectors with the greatest number of type specimens include J. L. Reveal, I. W. Clokey, N. H. Holmgren, U. T. Waterfall, and G. J. Goodman. A list of type specimens is presented for the first time; a searchable list of type specimens at OKL will be made available at the web page of the Robert Bebb Herbarium.

The herbarium of the University of Oklahoma (OKL; Holmgren and Holmgren 1990) originated in 1893 when Edwin C. DeBarr gave 450 mounted plants to the university (Rice and Cross 1990). After a fire destroyed the entire collection of botanical specimens in 1903, the herbarium was begun anew and grew steadily under the leadership of curators such as Royal Jeffs, George Goodman, Milton Hopkins, and James Estes (Rice and Cross 1990). In 1942, over 30,000 specimens comprising the personal collection of Mr. Robert Bebb were donated to the University of Oklahoma, which nearly doubled the size of the herbarium. To honor this contribution, the OU Board of Regents named in 1942 the herbarium 'The Robert Bebb Herbarium' (Foreman 1943, Hopkins 1943). Robert Bebb was an amateur botanist and floral company owner from Muskogee Oklahoma; he was the son of noted American willow specialist Michael S. Bebb (Deane 1896). The majority of Robert Bebb's collections were from Oklahoma, but there also were many specimens from Illinois, Indiana, Texas, Minnesota, California, and the Rocky Mountain states (Hopkins 1943).

Today, the Robert Bebb Herbarium houses the largest collection of Oklahoma plant specimens and maintains currently over 210,000 specimens. The majority represent the vascular flora of Oklahoma, with secondary strengths in plants from the Rocky

Mountain, intermountain, and southeastern states. There are fewer than 300 algal and fungal specimens, and approximately 1700 bryophyte and 700 lichen specimens. The Bebb Herbarium has extensive collections of Poaceae, Asteraceae, Fabaceae, Cyperaceae, Polygonaceae, and Rosaceae, and *Carex* L., *Eriogonum* Michx., and *Quercus* L. Notable botanists whose collections reside at OKL include: G. J. Goodman, E. L. Little, G. W. Stevens, C. S. Wallis, and U. T. Waterfall. Noteworthy exsiccatae include specimens of B. F. Bush from the mid-continent region, A. W. Chapman from Florida, I. W. Clokey from Nevada, N. H. Holmgren from the intermountain region, F. J. Lindheimer from Texas, and J. L. Reveal from the western U.S.A.

The Bebb Herbarium has 213 type specimens of vascular plants, which are stored in a designated cabinet. All but six of the types represent flowering plants; it is not known whether there are type specimens among the bryophyte, lichen, and phycological collections. Basionyms were described at various ranks including 118 species, 12 subspecies, 69 varieties, 11 forms, and three hybrids. The OKL type collection represents 100 genera in 43 families (sensu Cronquist 1981), and comprises 15 holotypes (specimens designated by the authority), 195 isotypes (duplicates of holotypes), and 3 isolectotypes (duplicates of types selected by the authority when there is no holotype). Known paratypes (specimens cited other than the holotype) and topotypes (specimens

¹E-mail: elisens@ou.edu

collected from the type locality) (Davis and Heywood 1973) are not included in the list of type specimens. We have no identified syntypes (specimens cited by an author when there is no holotype) or neotypes (selected when there is no extant type material) among the type specimens. Verification of type status, literature citation, and collection information were obtained from the plant specimens, relevant taxonomic literature, and various nomenclatural data bases such as The International Plant Names Index (2005) and VAScular Tropicos (VAST) Nomenclatural Database (2005). The families with the largest number of type specimens include the Asteraceae (13 genera), Polygonaceae (6 genera), and Brassicaceae, Fabaceae, and Scrophulariaceae with 5 genera each. Genera with the greatest number of type specimens include *Eriogonum* (81 taxa) followed distantly by *Penstemon* Schmidel (6 taxa), *Astragalus* L. (5 taxa), and *Erigeron* L. (5 taxa).

The geographic areas represented by the type collection include 21 states in the western, south central and southeastern regions of the U.S.A. The six states with the greatest number of type specimens are Nevada (56), Oklahoma (34), Utah (27), California (20), and Idaho and Texas with 10 each (Table 1). Only 13 type specimens are foreign collections, which include 10 from Mexico and 1 each from Canada, Costa Rica, and Honduras. Type specimens from Oklahoma were collected in 21 counties distributed throughout the state. Oklahoma counties with the greatest number of type collections include McCurtain and Murray counties with four each, and Cimarron and Woods counties with three each.

At least 69 collectors have specimens in the OKL type collection (Table 2). Collectors are organized by senior collector - the principal collector who recorded the collection number (VAScular Tropicos Exsiccatae Database 2005). Individuals with the greatest number of type specimens include J. L. Reveal (50, mostly in the genus *Eriogonum*), I. W. Clokey (28), N. H. Holmgren (16), U. T. Waterfall (13), and G. J. Goodman (11). Type specimens representing historically important collections include those of B. F. Bush (2), A. W. Chapman (4), A. H. Curtiss (2), E. L. Greene (1), F. J. Lindheimer (4), and H. N. Patterson (1).

This list of type specimens constitutes the first compendium of types in the Robert Bebb Herbarium of the University of Oklahoma. In addition to this printed version, a searchable list of type specimens at OKL will be made available at the web page of the Bebb Herbarium

URL: (<http://www.biosurvey.ou.edu/bebb/bebb-home.html>).

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Table 1. Geographic representation of type specimens from throughout the U.S.A. and from Oklahoma in the Robert Bebb Herbarium of the University of Oklahoma (OKL).

State	Specimens from the U.S.A.		County	Specimens from Oklahoma	
		Number of specimens			Number of specimens
Alabama		2	Blaine		1
Arkansas		3	Cherokee		1
Arizona		7	Cimarron		3
California		20	Cleveland		2
Colorado		5	Creek		1
Florida		5	Custer		1
Georgia		3	Greer		2
Idaho		10	Johnston		1
Kansas		1	Kay		1
Missouri		2	Kiowa		1
Montana		1	Latimer		1
Nevada		56	Major		1
New Mexico		2	Marshall		1
Oklahoma		33	Mayes		1
Oregon		6	McClain		1
Tennessee		1	McCurtain		4
Texas		10	Murray		4
Utah		27	Payne		1
Washington		2	Pontotoc		1
West Virginia		1	Pushmataha		1
Wyoming		3	Woods		3
Totals		200			33

Table 2. Senior collectors represented by specimens in the type collection of the Robert Bebb Herbarium (OKL).

Senior collector (collector associated with the number)	Collection numbers (dates if collection is unnumbered; binomial if collection is s. n. and undated)	Number of type specimens at OKL
Alexander, A. M.	3357	1
Atwood, N. D.	5895	1
Baker, C. F.	1239	1
Barkley, C. F.	16M548	1
Beatley, J.	9458, 10898, 12950, 13447, 13460	5
Breitung, A. J.	3970	1
Bush, B. F.	155, 417	2
Chapman, A. W.	s.n., no dates: <i>Aster eryngiifolius</i> , <i>Baptisia megacarpa</i> , <i>Macbridea alba</i> , <i>Physalis ciliosa</i>	4
Clokey, I. W.	5548, 5638, 5850, 7094, 7312, 7322, 7456, 7459, 7468, 7479, 7491, 7492, 7501, 7514, 7567, 7572, 7573, 7576, 7715, 7718, 7742, 7969, 7974, 8029, 8038, 8113, 8409, 8430	28
Cronquist, A.	8622, 10648	2
Curtiss, A. H.	922, 6778	2
Cusick, W. C.	2163	1
Demaree, D.	17198, 39432	2
Duncan, W. H.	5693	1
Eastwood, A.	5857	1
Erdman, J.	s.n. 31 May 1959	1

Table 2. Continued.

Senior collector (collector associated with the number)	Collection numbers (dates if collection is unnumbered; binomial if collection is s. n. and undated)	Number of type specimens at OKL
Fosberg, F. R.	8281	1
Freeman, J. D.	625	1
Galloway, L. A.	1751	1
Garrett, A. O.	7068	1
Gilbert, F. A.	s.n. 9 Jul 1937	1
Goodman, G. J.	1263, 1601, 2077, 2375, 4519, 4748, 4904, 5358, 5507, 6474, 7101	11
Greene, E. L.	s.n. Sep 1886	1
Hall, M. T.	66305-1	1
Harper, R. M.	3944	1
Hitchcock, C. L.	19513, 19546, 19554, 22305, 23868	5
Holmgren, A. H.	163, 16003	2
Holmgren, N. H.	1037, 1576, 2216, 2730, 2772, 2938, 2990, 2991, 3001, 3010, 3012, 3017, 3019, 3022, 3661, 4650	16
Hoover, R. F.	7248	1
Hopkins, M.	688, 1296	2
Jones, M. E.	s.n. 19 May 1915	1
Kral, R.	36370, 39113	2
Lent, R. W.	42	1
Lindheimer, F. J.	743, 746, 1062, 1115	4
Little, E. L.	18581, 18991, 23011	3
Magrath, L. K.	6147	1
Maguire, B.	25418, 25534	2
Mason, H. L.	12604	1
Molina, A.	24379	1
Moran, R.	19964	1
Munz, P. A.	6208	1
Ownbey, G. B.	2146	1
Ownbey, M.	2774	1
Parish, S. B.	4140	1
Patterson, H. N.	154	1
Payson, E. B.	4894, 5048	2
Pinkava, D.	13400	1
Pitts, D.	s.n. 19 Apr 1915	1
Porter, C. L.	4969	1
Raven, P. H.	9321	1
Reveal, J. L.	629, 665, 675, 873, 878, 919, 949, 956, 957, 1887, 2090, 2157, 2202, 2283, 2458, 2498, 2737, 2770, 2780, 2785, 2874, 2904, 2906, 3037, 3144, 3147, 3149, 3211, 3674, 3678, 3686, 3687, 3688, 3702, 3814, 3876, 3883, 3894, 3909, 3924, 3925, 3955, 3961, 3971, 4501, 4596, 4737, 4788, 4815, 6956	50
Robbins, G. T.	3063	1
Rollins, R. C.	1733, 1861, 2383	3
Shinners, L. H.	18967	1
Smith, E. B.	3008	1
Stevens, G. W.	463, 665, 1015.1, 1728, 1812, A3072	6
Stokes, S. G.	22345	1
Taylor, R. J.	32788	1
Thompson, J. W.	11490	1
Van Rensselaer, M.	557	1
Wade, A. E.	77	1
Wagner, W. H.	74159	1
Warner, L.	s.n. 10 Sep 1957	1

Table 2. Continued.

Senior collector (collector associated with the number)	Collection numbers (dates if collection is unnumbered; binomial if collection is s. n. and undated)	Number of type specimens at OKL
Warnock, B. H.	46979	1
Waterfall, U. T.	6455, 6523, 6529, 6620, 7308, 7340, 7914, 8198, 8472, 11276, 11380, 13134, 17478	13
Weber, W. A.	15355	1
Welsh, S. L.	9389	1
Wendt, T. S.	3299	1
69	TOTALS	213

**LIST OF VASCULAR PLANT TYPE SPECIMENS IN
THE ROBERT BEBB HERBARIUM OF THE UNI-
VERSITY OF OKLAHOMA (OKL)**

LYCOPHYTES

Selaginellaceae

- Selaginella eclipse* Buck ISOTYPE
W. H. Wagner, P. Redfearn, P. Nelson, & F. S.
Wagner 74159. USA. Missouri: Douglas
County
Canad. J. Bot. 55: 366. 1977.

CONIFERS

Cupressaceae

- Juniperus saltillensis* M. T. Hall ISOTYPE
M. T. Hall 66305-1. MEXICO. Coahuila:
Saltillo
Fieldiana, Bot. 34: 45. 1971.

Pinaceae

- Picea engelmannii* Engelm. var. *glabra* Goodman
HOLOTYPE
G. J. Goodman 4904. USA. Wyoming:
Albany County
Madrono 10: 177. 1950.
Pinus cembroides Zucc. var. *bicolor* Little ISOTYPE
E. L. Little 23011. USA. Arizona: Santa Cruz
County
Phytologia 17: 336. 1968.
Pinus cembroides Zucc. var. *remota* Little ISOTYPE
E. L. Little & D. S. Correll 18991. USA. Texas:
Val Verde County
Wrightia 3: 183. 1966.
Pinus edulis Engelm. var. *fallax* Little ISOTYPE
E. L. Little 18581. USA. Arizona: Gila County
Phytologia 68: 49. 1968.

FLOWERING PLANTS

Acanthaceae

- Dicliptera glandulosa* Scheele ISOTYPE
F. Lindheimer 1062. USA. Texas: New
Braunfels
Linnaea 21: 765. 1848.

Amaranthaceae

- Amaranthus microphyllus* Shinnars ISOTYPE
U. T. Waterfall 6620. USA. Texas: El Paso
County
Sida 1: 248. 1964.

Apiaceae

- Aletes macdougalii* Coult. & Rose subsp. *breviradiatus*
W. L. Theob. & C. C. Tseng ISOTYPE
J. Erdman s.n. 31 May 1959. USA. Colorado:
Montezuma County.
Brittonia 16: 306. 1964.
Angelica scabrida Clokey & Mathias ISOTYPE
I. W. & C. B. Clokey 5548. USA. Nevada:
Charleston Park
Bull. S. Calif. Acad. Sci. 37: 8. 1938.

Asclepiadaceae

- Sarcostemma lobatum* Waterf. HOLOTYPE
U. T. Waterfall 7914. USA. Oklahoma:
Cimarron County
Rhodora 51: 58. 1949.

Asteraceae

- Antennaria aprica* Greene forma *roseoides* B. Boivin
ISOTYPE
A. J. Breitung 3970. CANADA. Saskatchewan
Naturaliste Canad. 80: 121. 1953.
Antennaria soliceps S. F. Blake ISOTYPE
I. W. Clokey & R. Bean 7459. USA. Nevada:
Clark County
Proc. Biol. Soc. Wash. 51: 7. 1938.
Artemisia porteri Cronquist ISOTYPE
C. L. Porter 4969. USA. Wyoming: Fremont
County
Madrono 11:145. 1951.

- Aster eryngiifolius* Torr. & A. Gray
ISOLECTOTYPE
A. W. Chapman s.n., no date. USA. Florida.
Fl. N. Amer (Torr. & A. Gray) 2: 502. 1843.
- Cirsium clokeyi* S. F. Blake ISOTYPE
I. W. Clokey 7456. USA. Nevada: Clark
County
Proc. Biol. Soc. Wash. 51: 8. 1938.
- Echinacea paradoxa* Britton ISOTYPE
B. F. Bush 155. USA. Missouri: Swan
Ill. Fl. N. U.S. (ed. 2) 3: 476. 1913.
- Enceliopsis nudicaulis* A. Nelson var. *corrugata*
Cronquist ISOTYPE
A. Cronquist 10648. USA. Nevada: Nye
County.
Bull. Torrey Bot. Club 99: 246. 1972.
- Erigeron bellidiastrum* Nutt. var. *robustus* Cronquist
ISOTYPE
G. W. Stevens 1015.1. USA. Oklahoma: Greer
County
Brittonia 6: 256. 1947.
- Erigeron clokeyi* Cronquist ISOTYPE
I. W. Clokey 7742. USA. Nevada: Clark
County
Brittonia 6: 214. 1947.
- Erigeron flagellaris* A. Gray forma *breviligulatus* W.
A. Weber ISOTYPE
W. A. Weber & J. Wingate 15355. USA.
Colorado: Boulder County
Phytologia 41: 487. 1979.
- Erigeron piperianus* Cronquist ISOTYPE
J. W. Thompson 11490. USA. Washington:
Grant County
Brittonia 6: 197. 1947.
- Erigeron uintahensis* Cronquist ISOTYPE
E. B. Payson & L. B. Payson 4894. USA. Utah:
Summit County
Bull. Torrey Bot. Club 70: 270.
- Grindelia fraxino-pratensis* J. L. Reveal & Beatley
ISOTYPE
J. L. Reveal & N. H. Holmgren 1887. USA.
Nevada: Nye County
Bull. Torrey Bot. Club 98: 334. 1971.
- Lactuca canadensis* L. forma *stenopoda* Wiegand
ISOTYPE
G. W. Stevens 1812. USA. Oklahoma: Kay
County
Rhodora 22: 11. 1920.
- Senecio andersonii* Clokey ISOTYPE
I. W. Clokey & E. G. Anderson 5638. USA.
Nevada: Clark County
Bull. S. Calif. Acad. Sci. 37: 10. 1938.
- Solidago ouachitensis* C. E. S. Taylor & R. J. Taylor
ISOTYPE
R. J. & C. E. Taylor 32788. USA. Oklahoma:
Leflore County
Sida 11: 333. 1986.
- Sphaeromeria ruthiae* A. H. Holmgren, L. M. Shultz
& T. K. Lowrey ISOTYPE
A. H. Holmgren, L. Shultz & T. K. Lowrey
16003. USA. Utah: Washington
County
Brittonia 28: 257. 1976.
- Vernonia baldwinii* Torr. var. *interior* (Small) B. G.
Schub. forma *alba* Waterf. HOLOTYPE
U. T. Waterfall 8472. USA. Oklahoma:
McCurtain County
Rhodora 52: 175. 1950.
- Bignoniaceae**
Tynnanthus macranthus L. O. Williams ISOTYPE
R. W. Lent 42. COSTA RICA. Heredia Prov.
Fieldiana, Bot. 31: 250. 1967.
- Brassicaceae**
Draba apiculata C. L. Hitchc. ISOTYPE
E. B. & L. B. Payson 5048. USA. Utah: Summit
County
Univ. Wash. Publ. Biol. 11: 72. 1941.
- Lesquerella calcicola* Rollins ISOTYPE
R. C. Rollins 1861. USA. Colorado: Las Animas
County
Amer. J. Bot. 26: 419. 1939.
- Lesquerella hitchcockii* Munz subsp. *confluens*
Maguire & A. H. Holmgren ISOTYPE
B. Maguire & A. H. Holmgren 25534. USA.
Nevada: Nye County
Madrono 11: 174. 1951.
- Lesquerella kingii* S. Watson var. *nevadensis* Maguire
& A. H. Holmgren ISOTYPE
B. Maguire & A. H. Holmgren 25418. USA.
Nevada: Nye County
Madrono 11: 182. 1951.
- Lesquerella ovalifolia* Rydb. var. *alba* Goodman
HOLOTYPE
G. J. Goodman 2077. USA. Oklahoma: Murray
County
Rhodora 38: 239. 1936.
- Stanleya pinnata* (Pursh) Britton var. *gibberosa*
Rollins ISOTYPE
R. C. Rollins 2383. USA. Wyoming: Uinta
County
Lloydia 2: 119. 1939.
- Streptanthus squamiformis* Goodman HOLOTYPE
G. J. Goodman 5507. USA. Oklahoma:
McCurtain County
Rhodora 58: 354. 1957.

Thelypodium wrightii A. Gray subsp. *oklahomensis*
Al-Shebaz ISOTYPE
G. J. Goodman & R. W. Kelting 5358. USA.
Oklahoma: Cimarron County
Contr. Gray Herb. 204: 128. 1973.

Cactaceae

Coryphantha rosea Clokey ISOTYPE
I. W. Clokey 8038. USA. Nevada: Clark
County
Madrono 7: 75. 1943.
Opuntia charlestonensis Clokey ISOTYPE
I. W. Clokey 8029. USA. Nevada: Clark
County
Madrono 7: 71. 1943.
Opuntia multigeniculata Clokey ISOTYPE
I. W. Clokey 8430. USA. Nevada: Clark
County
Madrono 7: 69. 1943.

Campanulaceae

Triodanis holzingeri McVaugh ISOTYPE
M. Hopkins & C. T. Eskew 688. USA.
Oklahoma: McClain County
Wrightia 1: 45. 1945.

Caryophyllaceae

Silene andersonii Clokey ISOTYPE
I. W. Clokey 7514. USA. Nevada: Clark
County
Bull. S. Calif. Acad. Sci. 38: 2. 1939.

Celastraceae

Forsellesia planitierum M. Ensign ISOTYPE
G. W. Stevens 463. USA. Oklahoma: Cimarron
County
Amer. Midl. Nat. 27: 509. 1942.

Cistaceae

Lechea villosa. Elliott var. *macrotheca* Hodgdon
ISOTYPE
G. W. Stevens 1728. USA. Oklahoma: Major
County
Rhodora 40:54. 1938.

Cuscutaceae

Cuscuta warneri Yuncker ISOTYPE
L. Warner s.n. 10 Sep 1957. USA. Utah: Millard
County
Brittonia 12: 38. 1960.

Cyperaceae

Carex interior L. H. Bailey var. *charlestonensis*
Clokey ISOTYPE
I. W. Clokey 7468. USA. Nevada: Clark
County
Bull. S. Calif. Acad. Sci. 38: 1. 1939.

Carex latebracteata Waterf. ISOTYPE
U. T. Waterfall 11380. USA. Oklahoma:
McCurtain County
Rhodora 56: 23. 1954.

Euphorbiaceae

Acalypha gracilens A. Gray var. *delzii* Lill. W. Mill.
ISOTYPE
D. Demaree 39432. USA. Arkansas: Hot
Springs County
Sida 3: 447. 1969.
Ditaxis diversiflora Clokey ISOTYPE
I. W. Clokey 7576. USA. Nevada: Clark
County
Bull. S. Calif. Acad. Sci. 37: 6. 1938.
Euphorbia carunculata Waterf. HOLOTYPE
G. J. Goodman & U. T. Waterfall 4519. USA.
Oklahoma: Woods County
Rhodora 50: 63. 1948.
Stillingia texana I. M. Johnst. var. *latifolia* Waterf.
HOLOTYPE
U. T. Waterfall 6523. USA. Oklahoma: Murray
County
Rhodora 50: 95. 1948.

Fabaceae

Amorpha texana Buckley var. *glabrescens* E. J. Palmer
ISOTYPE
F. Lindheimer 743. USA. Texas: New Braufels
J. Arnold Arbor. 12: 180. 1931.
Astragalus aequalis Clokey ISOTYPE
I. W. Clokey 7572. USA. Nevada: Clark
County
Madrono 6: 215. 1942.
Astragalus hemigyryrus Clokey ISOTYPE
C. B. & I. W. Clokey 8409. USA. Nevada: Clark
County
Madrono 6: 220. 1942.
Astragalus lentiginosus Douglas var. *sierrae* M. E.
Jones ISOTYPE
I. W. Clokey & R. Bean 7573. USA. Nevada:
Clark County
Rev. N. Amer. Astragalus 124. 1923.
Astragalus lindheimeri Engelm. ISOLECTOTYPE
F. Lindheimer 746. USA. Texas: New
Braunfels
Smithsonian Contr. Knowl. 3: 52. 1852.
Astragalus rafaelsensis M. E. Jones ISOTYPE
M. E. Jones s.n. 19 May 1915. USA. Utah:
Cedar Mountain
Rev. N. Amer. Astragalus 146. 1923.
Baptisia arachnifera W. H. Duncan ISOTYPE
W. H. Duncan 5693. USA. Georgia: Wayne
County
Rhodora 46: 29. 1944

Baptisia megacarpa Chapm. ex Torr. & A. Gray
ISOTYPE

A. W. Chapman s.n., no date. USA. Florida:
Gadsden County
Fl. N. Amer. 1: 386. 1840.

Hedysarum gremiale Rollins ISOTYPE
R. C. Rollins 1733. USA. Utah: Uintah County
Rhodora 42: 230. 1940.

Lathyrus hichcockianus Barneby & J. L. Reveal
ISOTYPE
J. L. Reveal 2202. USA. Nevada: Nye County
Aliso 7: 362. 1971.

Gentianaceae

Centaurium beyrichii (Torr. & A. Gray) B. L. Rob.
forma *albiflorum* Waterf. HOLOTYPE
U. T. Waterfall 6529. USA. Oklahoma: Murray
County
Rhodora 50: 98. 1948.

Centaurium namophilum J. L. Reveal, C. R. Broome,
& Beatley ISOTYPE
J. Beatley & J. L. Reveal 13447. USA. Nevada:
Nye County
Bull. Torrey Bot. Club 100: 353. 1974.

Eustoma barkleyi Standl. ex Shinnery ISOTYPE
F. A. Barkley, A. C. Hernandez, & C. M. Rowell
16M548. MEXICO. Coahuila: Ojo de
Caliente
Southw. Naturalist 2: 38. 1957.

Frasera pahutensis J. L. Reveal ISOTYPE
J. Beatley & J. L. Reveal 10898. USA. Nevada:
Nye County
Bull. Torrey Bot. Club 98: 107. 1971.

Hydrophyllaceae

Nama stevensii C. L. Hitchc. ISOTYPE
G. W. Stevens 665. USA. Oklahoma: Woods
County
Amer. J. Bot. 20: 525. 1933.

Phacelia strictiflora A. Gray forma *albiflora* Waterf.
ISOTYPE
U. T. Waterfall 11276. USA. Oklahoma:
Pushmataha County
Rhodora 56: 160. 1954.

Phacelia strictiflora A. Gray var. *robbinsii* Constance
ISOTYPE
G. T. Robbins 3063. USA. Oklahoma: Johnston
County
Contr. Gray Herb. 168: 20. 1949.

Lamiaceae

Macbridea alba Chapm. ISOTYPE
A. W. Chapman s.n., no date. USA. Florida
Fl. South. U. S. 325. 1860.

Monarda punctata L. subsp. *occidentalis* Epling
ISOTYPE
G. W. Stevens A3072. USA. Oklahoma: Woods
County
Madrono 3: 25. 1935.

Monarda stipitatoglandulosa Waterf. ISOTYPE
U. T. Waterfall 17478. USA. Oklahoma:
McCurtain County
Rhodora 72: 503. 1970.

Salvia betulifolia Epling var. *chasmena* J. L. Reveal &
W. J. Hess ISOTYPE
J. L. Reveal & W. J. Hess 3037. MEXICO. Sierra
Madre Occidental, Ojito
Phytologia 24: 378. 1972.

Scutellaria wrightii A. Gray forma *alba* Waterf.
ISOTYPE
U. T. Waterfall 6455. USA. Oklahoma: Murray
County
Rhodora 50: 98. 1948.

Lilliaceae

Calochortus rhodotheucus Clokey ISOTYPE
I. W. Clokey 7479. USA. Nevada: Clark
County
Bull. S. Calif. Acad. Sci. 37: 1. 1938.

Trillium reliquum Freeman ISOTYPE
J. D. Freeman, J. T. Murrell, & M. & K. Ihara
625. USA. Georgia: Augusta
Brittonia 27: 21. 1975.

Magnoliaceae

Magnolia hondurensis A. Molina ISOTYPE
A. Molina & A. R. Molina 24379. HONDURAS.
La Paz: cordillera Guajiquiro
Ceiba 18: 95. 1974.

Malvaceae

Callirhoe involucreta A. Gray forma *incisa* M.
Hopkins HOLOTYPE
M. Hopkins 1296. USA. Oklahoma: Cleveland
County
Rhodora 45: 271. 1943.

Sida spinosa L. forma *albiflora* Magrath ISOTYPE
L. K. Magrath 6147. USA. Kansas: Douglas
County
Rhodora 74: 383. 1972.

Sidalcea malvaeflora A. Gray subsp. *patula* C. L.
Hitchc. ISOTYPE
C. L. Hitchcock 19513. USA. California: Del
Norte County
Univ. Wash. Publ. Biol. 18: 21. 1957.

Sidalcea malvaeflora A. Gray subsp. *sparsifolia* C. L.
Hitchc. ISOTYPE
C. L. Hitchcock 19546. USA. California: Kern
County
Univ. Wash. Publ. Biol. 18:32.

Sidalcea malvaeflora A. Gray var. *stellata* C. L. Hitchc.
ISOTYPE
C. L. Hitchcock 19554. USA. California: San
Diego County
Univ. Wash. Publ. Biol. 18: 35. 1957.

Nyctaginaceae

Abronia macrocarpa L. A. Galloway ISOTYPE
L. A. Galloway 1751. USA. Texas: Leon
County
Brittonia 24: 148. 1972.

Onagraceae

Clarkia franciscana Lewis & Raven ISOTYPE
P. H. Raven 9321. USA. California: San
Francisco
Brittonia 10: 7. 1958.
Ludwigia curtissii Chapm. ISOTYPE
A. H. Curtiss 922. USA. Florida: Brevard
County
Fl. South. U. S. Suppl. 621. 1883.
Oenothera fruticosa L. var. *goodmanii* Munz
ISOTYPE
G. J. Goodman 7101. USA. Oklahoma: Latimer
County
N. Amer. Fl. (ser. 2) 5: 89. 1965.
Oenothera linifolia Nutt. var. *glandulosa* Munz
ISOTYPE
A. H. Curtiss 6778. USA. Georgia: Little Stone
Mt.
Bull. Torrey Bot. Club 64: 289. 1937.

Orobanchaceae

Orobanche fasciculata Nutt. var. *subulata* Goodman
HOLOTYPE
G. J. Goodman 2375. USA. Oklahoma: Blaine
County
Leafl. W. Bot. 5: 36. 1947.

Papaveraceae

Argemone corymbosa Greene subsp. *arenicola* G. B.
Ownbey ISOTYPE
G. B. & F. Ownbey 2146. USA. Utah: Emery
County
Mem. Torrey Bot. Club 21: 118. 1958.

Passifloraceae

Passiflora incarnata L. forma *alba* Waterf.
HOLOTYPE
U. T. Waterfall 8198. USA. Oklahoma: Mayes
County
Rhodora 52: 35. 1950.

Poaceae

Elymus ambiguus Vasey & Scribn. var. *salmonis* C. L.
Hitchc. ISOTYPE
C. L. Hitchcock & C. V. Muhlick 22305. USA.
Idaho: Custer County
Univ. Wash. Publ. Biol. 17: 558. 1969.

Oryzopsis swallenii C. L. Hitchc. & Spellenberg
ISOTYPE
C. L. Hitchcock 23868. USA. Idaho: Clark
County
Brittonia 20: 164. 1968.

Poa pattersoni Vasey ISOTYPE
H. N. Patterson 154. USA. Colorado: Mt.
McClellan
Contrib. U. S. Nat. Herb. 1: 275. 1893.
Triodia oklahomensis Feath. ISOTYPE
A. E. Wade 77. USA. Oklahoma: Payne
County
Rhodora 40: 243. 1938.

Polemoniaceae

Eriastrum brandegeae H. Mason ISOTYPE
H. L. Mason 12604. USA. California: Lake
County
Madrono 8: 88. 1945.
Phlox longipilosa Waterf. ISOTYPE
U. T. Waterfall 13134. USA. Oklahoma: Kiowa
County
Rhodora 73: 577. 1971.

Polygonaceae

Chorizanthe procumbens Nutt. var. *mexicana*
Goodman ISOTYPE
F. R. Fosberg 8281. MEXICO. Baja California:
Tecate
Ann. Missouri Bot. Gard. 21: 87. 1934.
Chorizanthe pungens Benth. var. *hartwegiana* J. L.
Reveal & C. B. Hardham ISOTYPE
J. L. Reveal 6956. USA. California: Santa Cruz
County
Phytologia 66: 125. 1989.
Dedeckera eurekaensis J. L. Reveal & J. T. Howell
ISOTYPE
J. L. Reveal, M. C. DeDecker, & P. W. DeDecker
3909. USA. California: Inyo County
Brittonia 28: 246. 1976.
Eriogonum abertianum Torr. var. *vilosum* Fosberg
ISOTYPE
G. J. Goodman & C. L. Hitchcock 1263. USA.
Arizona: Santa Catalina Mts.
Madrono 4: 191. 1938.
Eriogonum aliquantum J. L. Reveal ISOTYPE
J. L. & C. G. Reveal 2770. USA. New Mexico:
Colfax County
Phytologia 34: 460. 1976.
Eriogonum ammophilum J. L. Reveal ISOTYPE
N. H. & P. K. Holmgren 4650. USA. Utah:
Millard County
Phytologia 23: 163. 1972.

- Eriogonum apachense* J. L. Reveal ISOTYPE
D. Pinkava, D. Keil, E. Lehto 13400. USA.
Arizona: Graham County
J. Arizona Acad. Sci. 5: 222. 1969.
- Eriogonum argophyllum* J. L. Reveal ISOTYPE
N. H. Holmgren & P. M. Kern 3661. USA.
Nevada: Elko County
Phytologia 23: 168. 1972.
- Eriogonum atrorubens* Engelm. var. *auritulum* W. J. Hess & J. L. Reveal ISOTYPE
J. L. Reveal & W. J. Hess 3149. MEXICO.
Nuevo Leon: Pabillo
Great Basin Nat. 36: 301. 1976.
- Eriogonum atrorubens* Engelm. var. *nemorosum* W. J. Hess & J. L. Reveal ISOTYPE
J. L. Reveal, W. J. Hess, & R. W. Kiger 2737.
MEXICO. Durango: Parral
Great Basin Nat. 36: 302. 1976.
- Eriogonum beatleyae* J. L. Reveal ISOTYPE
J. L. & A. H. Reveal, J. C. Beatley, N. H. & P. K. Holmgren 2498. USA. Nevada: Nye County
Aliso 7: 415. 1972.
- Eriogonum bifurcatum* J. L. Reveal ISOTYPE
J. L. Reveal 2283. USA. Nevada: Nye County
Aliso 7: 357. 1971.
- Eriogonum x blissianum* H. Mason ISOTYPE
M. Van Rensselaer 557. USA. California: Santa Barbara County
Madrono 4: 290. 1938.
- Eriogonum capistratum* J. L. Reveal ISOTYPE
J. L. Reveal & B. J. Ertter 3876. USA. Idaho: Custer County
Phytologia 66: 254. 1989.
- Eriogonum capistratum* J. L. Reveal var. *muhlickii* J. L. Reveal ISOTYPE
J. L. Reveal 3814. USA. Montana: Ravalli County
Phytologia 66: 256. 1989.
- Eriogonum capistratum* J. L. Reveal var. *welshii* J. L. Reveal ISOTYPE
J. L. Reveal & S. L. Welsh 4501. USA. Idaho: Custer County
Phytologia 66: 256. 1989.
- Eriogonum carolinae* J. L. Reveal ISOTYPE
J. L. Reveal 3688. USA. Idaho: Owyhee County
Phytologia 66: 254. 1989.
- Eriogonum chrysocephalum* A. Gray subsp. *alpestre* S. Stokes ISOTYPE
G. J. Goodman & C. L. Hitchcock 1601. USA.
Utah: Cedar City
Eriogonum 93. 1936.
- Eriogonum chrysocephalum* A. Gray subsp. *desertorum* Maguire ISOTYPE
A. H. Holmgren & C. O. Lund 163. USA.
Nevada: Elko County
Leafl. W. Bot. 3: 11. 1941.
- Eriogonum collinum* S. Stokes ex M. E. Jones ISOTYPE
S. G. Stokes 22345. USA. Nevada: Reno
Contr. W. Bot. 11: 15. 1903.
- Eriogonum correllii* J. L. Reveal ISOTYPE
J. L. Reveal & G. Davidse 878. USA. Texas: Armstrong County
Sida 3: 198. 1968.
- Eriogonum corymbosum* Benth. var. *davidsei* J. L. Reveal ISOTYPE
J. L. Reveal & G. Davidse 956. USA. Utah: Carbon County
Great Basin Nat. 27: 216. 1967.
- Eriogonum corymbosum* Benth. var. *erectum* J. L. Reveal & Brotherson ISOTYPE
N. H. Holmgren & J. L. Reveal 3022. USA.
Utah: Wasatch County
Great Basin Nat. 27: 213. 1968.
- Eriogonum corymbosum* Benth. var. *velutinum* J. L. Reveal ISOTYPE
J. L. Reveal & G. Davidse 919. USA. New Mexico: Socorro County
Great Basin Nat. 27: 224. 1968.
- Eriogonum cronquistii* J. L. Reveal ISOTYPE
N. H. Holmgren & J. L. Reveal 3010. USA.
Utah: Garfield County
Madrono 19: 289. 1969.
- Eriogonum deductum* Greene ISOTYPE
C. F. Baker 1239. USA. Nevada: Carson City
Pittonia 5: 71. 1902.
- Eriogonum deflexum* Torr. var. *nevadense* J. L. Reveal ISOTYPE
J. L. & C. G. Reveal 2785. USA. Nevada: Nye County
Phytologia 25: 206. 1973.
- Eriogonum eastwoodianum* J. T. Howell ISOTYPE
A. Eastwood & J. T. Howell 5857. USA.
California: Fresno County
Leafl. W. Bot. 2: 133. 1938.
- Eriogonum eremicola* J. T. Howell & J. L. Reveal ISOTYPE
J. L. & J. L. Reveal 873. USA. California: Inyo County
Leafl. W. Bot. 10: 174. 1965.

- Eriogonum fimbriatum* W. J. Hess & J. L. Reveal
ISOTYPE
J. L. Reveal & W. J. Hess 3144. MEXICO.
Nuevo Leon: San Roberto jct
Great Basin Nat. 36: 308. 1976.
- Eriogonum harperi* Goodman HOLOTYPE
R. M. Harper 3944. USA. Alabama: Colbert
County
Bull. Torrey Bot. Club 74: 329. 1947.
- Eriogonum heermannii* Dur. & Hilg. var. *clokeyi* J. L.
Reveal ISOTYPE
N. H. Holmgren & J. L. Reveal 2990. USA.
Nevada: Clark County
Phytologia 34: 437. 1976.
- Eriogonum heracleoides* Nutt. var. *leucophaeum* J. L.
Reveal ISOTYPE
N. H. Holmgren & J. L. Reveal 2730. USA.
Washington: Spokane County
Phytologia 25: 200. 1973.
- Eriogonum holmgrenii* J. L. Reveal ISOTYPE
N. H. Holmgren & J. L. Reveal 1576. USA.
Nevada: White Pine County
Leafl. W. Bot. 10: 184. 1965.
- Eriogonum humivagans* J. L. Reveal ISOTYPE
N. H. Holmgren & J. L. Reveal 3001. USA.
Utah: San Juan County
Madrono 19: 291. 1969.
- Eriogonum hylophilum* J. L. Reveal & Brotherson
ISOTYPE
N. H. Holmgren & J. L. Reveal 3017. USA.
Utah: Duchesne County
Great Basin Nat. 27: 190. 1968.
- Eriogonum inflatum* Torr. & Frem. var. *contiguum* J.
L. Reveal ISOTYPE
J. L. Reveal & M. E. Matthews 2157. USA.
Nevada: Nye County
Aliso 7: 221. 1970.
- Eriogonum jamesii* Benth. var. *rupicola* J. L. Reveal
ISOTYPE
J. L. & C. G. Reveal 2874. USA. Utah:
Washington County
Phytologia 25: 202. 1973.
- Eriogonum kennedyi* Porter ex S. Watson forma
alpigenum Munz & I. M. Johnst. ISOTYPE
P. A. Munz 6208. USA. California: San
Bernadino Mountains
Bull. Torrey Bot. Club 51: 296. 1924.
- Eriogonum lancifolium* J. L. Reveal & Brotherson
ISOTYPE
J. L. Reveal & G. Davidse 957. USA. Utah:
Carbon County
Great Basin Nat. 27: 187. 1968.
- Eriogonum leptocladon* Torr. & A. Gray var.
papiliunculi J. L. Reveal ISOTYPE
J. L. Reveal 2906. USA. Arizona: Coconino
County
Brittonia 26: 92. 1974.
- Eriogonum lewisii* J. L. Reveal ISOTYPE
J. L. Reveal & C. G. Reveal 4596. USA. Nevada:
Elko County
Great Basin Nat. 45: 277. 1985.
- Eriogonum libertini* J. L. Reveal ISOTYPE
J. L. Reveal 4788. USA. California: Tehama
County
Madrono 28: 163. 1981.
- Eriogonum longifolium* Nutt. var. *lindheimeri*
Gandoger ISOTYPE
F. Lindheimer 1115. USA. Texas: New
Braunfels
Bull. Soc. Roy. Bot. Belgique 42: 190. 1906.
- Eriogonum meledonum* J. L. Reveal ISOTYPE
J. L. Reveal 3674. USA. Idaho: Custer County
Phytologia 66: 254. 1989.
- Eriogonum microthecum* Nutt. var. *corymbosoides* J. L.
Reveal ISOTYPE
J. L. Reveal 2090. USA. California: San
Bernadino County
Brigham Young Univ. Sci. Bull. 13: 25. 1971.
- Eriogonum mortonianum* J. L. Reveal ISOTYPE
J. L. Reveal 2904. USA. Arizona: Mohave
County
Brittonia 26: 90. 1974.
- Eriogonum nanum* J. L. Reveal ISOTYPE
J. L. Reveal & N. H. Holmgren 665. USA. Utah:
Box Elder County
Phytologia 25: 194. 1973.
- Eriogonum natum* J. L. Reveal ISOTYPE
J. L. & M. L. Reveal 3924. USA. Utah: Millard
County
Great Basin Nat. 35: 363. 1975.
- Eriogonum nudicaule* (Torr.) Small subsp. *garettii* S.
Stokes ISOTYPE
A. O. Garrett 7068. USA. Utah: Morgan
County
Eriogonum 83. 1936.
- Eriogonum nudum* Dougl. ex Benth. var. *paralinum* J.
L. Reveal ISOTYPE
J. L. & M. L. Reveal 3961. USA. Oregon: Curry
County
Phytologia 66: 258. 1989.
- Eriogonum nutans* Torr. ex Gray var. *glabratum* J. L.
Reveal ISOTYPE
N. H. Holmgren & J. L. Reveal 1037. USA.
Nevada: Elko County
Madrono 18: 172. 1966.

- Eriogonum ochrocephalum* S. Watson var. *alexandrae*
J. L. Reveal ISOTYPE
J. L. Reveal, C. R. Broome, M. J. Williams, C. M. Cagle 4737. USA. Nevada: Lyon County
Great Basin Nat. 45: 276. 1985.
- Eriogonum ochrocephalum* S. Watson var. *sceptrum* J. L. Reveal ISOTYPE
J. L. Reveal 3687. USA. Idaho: Owyhee County
Phytologia 66: 252. 1989.
- Eriogonum ovalifolium* Nutt. var. *caelestinum* J. L. Reveal ISOTYPE
J. L. Reveal 629. USA. Nevada: Nye County
Great Basin Nat. 32: 115. 1972.
- Eriogonum ovalifolium* Nutt. var. *pansum* J. L. Reveal ISOTYPE
J. L. Reveal & B. J. Ertter 3883. USA. Idaho: Boise County
Phytologia 66: 259. 1989.
- Eriogonum pelinophilum* J. L. Reveal ISOTYPE
J. L. & C. G. Reveal 2780. USA. Colorado: Delta County
Great Basin Nat. 33: 120. 1973.
- Eriogonum pharnaceoides* Torr. var. *cervinum* J. L. Reveal ISOTYPE
N. D. Atwood & L. G. Higgins 5895. USA. Utah: Washington County
Great Basin Nat. 34: 346. 1974.
- Eriogonum pratense* S. Stokes ISOTYPE
A. M. Alexander & L. Kellogg 3357. USA. California: Inyo County
Leafl. W. Bot. 3: 201. 1943.
- Eriogonum preclarum* J. L. Reveal ISOTYPE
R. Moran & J. L. Reveal 19964. MEXICO. Baja California: Arroyo de las Casitas
Brittonia 28: 338. 1976.
- Eriogonum prociduum* J. L. Reveal ISOTYPE
J. L. Reveal 2458. USA. Oregon: Lake County
Aliso 7: 417. 1972.
- Eriogonum reliquum* S. Stokes ISOTYPE
I. W. Clokey 7491. USA. Nevada: Clark County
Leafl. W. Bot. 2: 52. 1937.
- Eriogonum revealianum* S. L. Welsh ISOTYPE
S. L. & S. L. Welsh 9389. USA. Utah: Garfield County
Great Basin Nat. 30: 17. 1970.
- Eriogonum rubescens* Greene ISOTYPE
E. L. Greene s.n. Sep 1886. USA. California: San Miguel Island
Pittonia 1: 39. 1887.
- Eriogonum rotundifolium* Benth. var. *angustum*
Goodman HOLOTYPE
B. H. Warnock 46979. USA. Texas: Presidio County
Leafl. W. Bot. 6: 71. 1950.
- Eriogonum rupinum* J. L. Reveal ISOTYPE
J. Beatley 9458. USA. Nevada: Nye County
Aliso 7: 226. 1970.
- Eriogonum saurinum* J. L. Reveal ISOTYPE
N. H. Holmgren & J. L. Reveal 3019. USA. Utah: Uintah County
Great Basin Nat. 27: 196. 1968.
- Eriogonum scabrellum* J. L. Reveal ISOTYPE
J. L. Reveal & G. Davidse 949. USA. Utah: Grant County
Ann. Missouri Bot. Gard. 55: 74. 1968.
- Eriogonum shockleyi* S. Watson var. *packardae* J. L. Reveal ISOTYPE
J. L. Reveal, P. L. Packard, & D. H. Peter 3686. USA. Idaho: Ada County
Phytologia 66: 257. 1989.
- Eriogonum smithii* J. L. Reveal ISOTYPE
N. H. Holmgren & J. L. Reveal 3012. USA. Utah: Emery County
Great Basin Nat. 27: 202. 1968.
- Eriogonum thompsonae* S. Watson var. *albiflorum* J. L. Reveal ISOTYPE
N. H. Holmgren & J. L. Reveal 2991. USA. Utah: Washington County
Madrono 19: 299. 1969.
- Eriogonum thompsonae* S. Watson var. *atwoodii* J. L. Reveal ISOTYPE
J. L. & C. G. Reveal 3211. USA. Arizona: Mohave County
Great Basin Nat. 34: 245. 1974.
- Eriogonum turneri* J. L. Reveal ISOTYPE
J. L. Reveal & W. J. Hess 3147. MEXICO. Nuevo Leon: El Refugio
Sida 5: 265. 1974.
- Eriogonum umbellatum* Torr. var. *argus* J. L. Reveal ISOTYPE
J. L. & M. L. Reveal 3955. USA. California: Siskiyou Mountains
Phytologia 66: 261. 1989.
- Eriogonum umbellatum* Torr. var. *chlorothamnus* J. L. Reveal in Munz ISOTYPE
N. H. Holmgren & J. L. Reveal 2938. USA. California: Inyo County
Calif. Fl. Suppl. 44: 1968.
- Eriogonum umbellatum* Torr. var. *desereticum* J. L. Reveal ISOTYPE
J. L. Reveal 3702. USA. Utah: Utah County
Great Basin Nat. 35: 365. 1975.

- Eriogonum umbellatum* Torr. var. *furcosum* J. L. Reveal ISOTYPE
J. L. Reveal 3971. USA. California: El Dorado County
Great Basin Nat. 45: 278. 1985.
- Eriogonum umbellatum* Torr. var. *goodmanii* J. L. Reveal ISOTYPE
J. L. & D. S. Reveal 4815. USA. Oregon: Josephine County
Phytologia 66: 259. 1989.
- Eriogonum umbellatum* Torr. var. *juniporinum* J. L. Reveal ISOTYPE
J. L. & M. L. Reveal 3925. USA. Nevada: White Pine County
Great Basin Nat. 45: 279. 1985.
- Eriogonum umbellatum* Torr. var. *subaridum* S. Stokes ISOTYPE
I. W. & C. B. Clokey 7492. USA. Nevada: Clark County
Leafl. W. Bot. 2: 53. 1937.
- Eriogonum verrucosum* J. L. Reveal ISOTYPE
J. L. Reveal 3678. USA. Idaho: Custer County
Phytologia 66: 253. 1989.
- Eriogonum vespinum* Shinnars ISOTYPE
L. H. Shinnars 18967. USA. Texas: Upshur County
Field & Lab. 22: 68. 1954.
- Eriogonum vimineum* Dougl. ex Benth. var. *oregonense* Gand. ISOTYPE
W. C. Cusick 2163. USA. Oregon: eastern Oregon
Bull. Soc. Roy. Bot. Belgique 42: 199. 1906.
- Eriogonum viridulum* J. L. Reveal ISOTYPE
J. L. Reveal 675. USA. Utah: Duchesne County
Proc. Utah Acad. Sci. 42: 287. 1965.
- Mucronea perfoliata* (A. Gray) A. Heller var. *opaca* Hoover ISOTYPE
R. F. Hoover 7248. USA. California: San Luis Obispo County
Leafl. W. Bot. 10: 343. 1966.
- Nemacaulis denudata* Nutt. var. *gracilis* Goodman & L. D. Benson ISOTYPE
S. B. Parish 4140. USA. California: Palm Springs
Aliso 4: 89. 1958.
- Polygonum heterosepalum* M. E. Peck & Ownbey ISOTYPE
M. & G. B. Ownbey 2774. USA. Oregon: Malheur County
Madrono 10: 250. 1950.

Primulaceae

- Primula nevadensis* N. H. Holmgren ISOTYPE
N. H. Holmgren, J. L. Reveal, & C. LaFrance 2216. USA. Nevada: White Pine County
Madrono 19: 27. 1967.

Ranunculaceae

- Aquilegia scopulorum* Tidestr. subsp. *perplexans* Clokey ISOTYPE
I. W. Clokey 7094. USA. Nevada: Clark County
Bull. S. Calif. Acad. Sci. 37: 3. 1938.
- Delphinium alabamicum* Kral ISOTYPE
R. Kral 39113. USA. Alabama: Franklin County
Sida 6: 250. 1976.

Rosaceae

- Holodiscus microphyllus* Rydb. var. *sericeus* F. A. Ley ISOTYPE
I. W. Clokey 7969. USA. Nevada: Clark County
Bull. Torrey Bot. Club 70: 283. 1943.
- Ivesia rhypara* B. J. Ertter & J. L. Reveal ISOTYPE
J. L. Reveal & B. J. Ertter 3894. USA. Oregon: Malheur County
Madrono 24: 224. 1977.
- Potentilla beanii* Clokey ISOTYPE
I. W. Clokey 7974. USA. Nevada: Clark County
Bull. S. Calif. Acad. Sci. 38: 4. 1939.
- Potentilla cryptocaulis* Clokey ISOTYPE
I. W. Clokey 7567. USA. Nevada: Clark County
Bull. S. Calif. Acad. Sci. 37: 4. 1938.

Rubiaceae

- Elaeagia uxpanapensis* D. H. Lorence ISOTYPE
T. Wendt, S. Koch, A. Villalobos, J. Garcia, et al 3299. MEXICO. Oaxaca: Uxpanapa
Bol. Soc. Bot. Mexico 45: 66. 1983.
- Hedyotis ouachitana* E. B. Sm. ISOTYPE
E. B. Smith 3008. USA. Arkansas: Montgomery County
Brittonia 28: 457. 1976.
- Houstonia longifolia* Gaertn. var. *compacta* Terrell ISOTYPE
F. A. Gilbert s.n. 9 Jul 1937. USA. West Virginia: Cabell County
Rhodora 61: 202. 1959.

Saxifragaceae

- Saxifraga virginiana* Michx. var. *subintegra* Goodman HOLOTYPE
G. J. Goodman & U. T. Waterfall 4748. USA. Oklahoma: Cherokee County
Rhodora 52: 183. 1953.

Scrophulariaceae

- Castilleja clokeyi* Pennell ISOTYPE
I. W. Clokey & C. B. Clokey 7322. USA.
Nevada: Clark County
Proc. Acad. Nat. Sci. Philadelphia 89: 420.
1938.
- Castilleja dissitiflora* N. H. Holmgren ISOTYPE
N. H. Holmgren & J. L. Reveal 2772. USA.
Nevada: White Pine County
Mem. New York Bot. Gard. 21: 46. 1971.
- Cordylanthus glandulosus* Pennell & Clokey
ISOTYPE
I. W. Clokey 7715. USA. Nevada: Clark
County
Proc. Acad. Nat. Sci. Philadelphia 90: 11. 1938.
- Gerardia crustata* Greene ISOTYPE
B. F. Bush 417. USA. Oklahoma: Creek
County
Leafl. Bot. Observ. Crit. 2: 108. 1910.
- Pedicularis semibarbata* A. Gray var. *charlestonensis*
Pennell & Clokey ISOTYPE
I. W. Clokey 7718. USA. Nevada: Clark
County
Bull. S. Calif. Acad. Sci. 38: 6. 1939.
- Penstemon ambiguous* Torr. subsp. *laevissimus* D. D.
Keck ISOTYPE
I. W. Clokey 8113. USA. Nevada: Clark
County
J. Wash. Acad. Sci. 29: 491. 1939.
- Penstemon bicolor* (Brandege) Clokey & D. D. Keck
subsp. *roseus* Clokey & D. D. Keck ISOTYPE
I. W. Clokey 5850. USA. Nevada: Clark
County
Bull. S. Calif. Acad. Sci. 38: 12. 1939.
- Penstemon davidsonii* Greene var. *praeteritus*
Cronquist ISOTYPE
A. Cronquist 8622. USA. Nevada: Humboldt
County
Leafl. W. Bot. 10: 129. 1964.
- Penstemon keckii* Clokey ISOTYPE
I. W. & C. B. Clokey 7312. USA. Nevada: Clark
County
Madrono 4: 128. 1937.
- Penstemon pudicus* Reveal & Beatley ISOTYPE
J. Beatley 12950. USA. Nevada: Nye County
Bull. Torrey Bot. Club 98: 332. 1971.
- Penstemon thurberi* Torr. var. *anestius* Reveal &
Beatley ISOTYPE
J. Beatley & T. Ackerman 13460. USA. Nevada:
Clark County
Great Basin Nat. 34: 230. 1974.

Solanaceae

- Physalis ciosa* Rydb. ISOLECTOTYPE
A. W. Chapman s.n. no date. USA. Florida.
Mem. Torrey Bot. Club 4: 346. 1898.
- Physalis virginiana* Mill. var. *hispida* Waterf.
ISOTYPE
U. T. Waterfall 7308. USA. Oklahoma: Greer
County
Rhodora 60: 154. 1958.
- Solanum torreyi* A. Gray forma *album* Waterf.
HOLOTYPE
U. T. Waterfall 7340. USA. Oklahoma: Custer
County
Rhodora 51: 27. 1949

Verbenaceae

- Verbena demareei* Moldenke ISOTYPE
D. Demaree 17198. USA. Arkansas: Clark
County
Amer. Midl. Naturalist 24: 752. 1940.
- Verbena x goodmanii* Moldenke ISOTYPE
G. J. Goodman 6474. USA. Oklahoma:
Marshall County
Phytologia 6: 330. 1958.
- Verbena x oklahomensis* Moldenke ISOTYPE
D. Pitts s.n. 19 Apr 1915. USA. Oklahoma:
Cleveland County
Known Geog. Distrib. Verbenac. & Avicenniaceae.
78. 1942.

Violaceae

- Viola charlestonensis* M. S. Baker & J. C. Clausen
ISOTYPE
I. W. Clokey 7501. USA. Nevada: Clark
County
Madrono 8: 58. 1945.

Xyridaceae

- Xyris tennesseensis* Kral ISOTYPE
R. Kral 36370. USA. Tennessee: Lewis County
Rhodora 80: 444. 1978.