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5th Floor, Hunt Library
Carnegie Mellon University
4909 Frew Street
Pittsburgh, PA 15213-3890
Telephone: 412-268-2434
Email: huntinst@andrew.cmu.edu
Web site: www.huntbotanical.org

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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

S. "glanopsis" And I do.

Adamo Co. Weiser R., 8 mi W Van Meadows, 3500 ft
Elev 9231, 9233

These ♀ + ♂ are very juvenile, antlers
do just opening but seem to be the
S. glanopsis complex

~~Not in USN~~

Digitized by ~~Smith~~ Institute for Botanical Documentation

Take, Henderson 3603 (as *S. glanopsis*)
in 1895, Ennaw ^{sent post.} (USN)

Middle Valley, 2300 ft.

M E Jones 6544 July 8, 1899

broad leaf (small) (USN)
(as *S. leucocarpa*)

Salix orestera Schn.

Lark

Custer Co. Mt Hyndman

Davis 1708
(C.F.B., W.S.)

This specimen is ~~*S. pseudo-lappaceum*~~
S. Wolfii *isaborensis* Zell
others were *S. Lehmannii* & *S. commutata* *pandemula*

Digitized by Hunt Institute for Botanical Documentation

None in K S N
Some of them belong to other sps.
probably "pauciflora"

S. Wolfii B. var. idahoensis B. & S.

Blaine Co. ~~Sawtooth Mts. 7,700 ft. Thompson 1142 (CAB)~~
 Alturas 2. Hitchcock + Davis 459 (CAB)
 Pole Creek 10479 (CAB) " 483 (CAB)
 Sawtooth Mts. 6500 ft. Thompson 14151 (USC) (CAB)
 (Wood R. Barley Fire Camp)

Custer Co. near Stanley 5000 ft. Christ 9674 (CAB)
 9675, 96159 (CAB)
 Boulder Creek, Davis 552 (CAB)
 Livingston Mine Davis 687 (CAB)

14041, 14037 (CAB) ~~Donner 6500 ft. Nash + Payson 3470 (USN)~~
 Idaho Co. 6 mi E Burgdorf, Christ + Ward 11008 (CAB)
 (CAB) ~~Donner 6500 ft. Nash + Payson 3470 (USN)~~
 (CAB) ~~Donner 6500 ft. Nash + Payson 3470 (USN)~~

Fremont Co. Yellowstone Trail Ball 2177 (CAB) (USN)

Alturas 2. 7700 ft. Evenden 419 (USN)
 Hot Springs, Henderson 8155 (USN)

Payette Natl Fr. 4950 ft. Mule D-15 (CAB) 3
 " " " 6200 " D-69 (CAB) 3
 " " " 5700 Marlineau 56 (US) 3

Custer Co. M. Kyndmann Davis 1708 (CAB)
 var. S. cresteri

Valley Co. Valley, Hitchcock + Muhlack 9720 (CAB)
 Sawtooth Mts. 7500 ft. Thompson
 13774, 13776, 13820, 13830, 13831

S. Barclayi Aul.

Idaho

Boise Co. 10 mi. E of Town, 8100 ft. Hitchcock + Muhl. 10032 (CRB)

Blaine Co. High mt. side, 20 mi W of Ketchikan Point
Pale yellow
Sawtooth Mts., 7500 ft. 16037, 16038 (CRB both)

Custer Co. Lion Pass, 14000 ft. Thompson 14143 (CRB)
Mayfield Co. 15697 (CRB)

Chmore Co. Rd. Mid. Fr. Boise R., above Ottertail
Hitchcock + Muhl. 10153 (CRB)

Idaho Co. Bitterroot Mts. 6000 ft. Constantine + Parnell
" Mt. Fr., 5000 ft. 2011 (CRB WSC)

(one m P.I., perhaps 2011 above) White 378 (75, 94, 45)

Lemhi Co. Rd. of Spring Creek, Hitchcock 14348
+ Muhl.

Shoshone or Clearwater Co. Clearwater R. For. Expt. R.S. 5000 ft.
Epling, Hauck 9667 (CRB)
Idaho Co. Cl. N.F. Fish L. Cr. 5000 ft. " " 9461 (CRB)
" " " " 6000 " " " 9618 " " "

Shoshone Co. 6 mi. SE Red Leno R.S. Christ 17059 (CRB)

Poyette For., 5600 ft. (75 11688) JS

See Epling

S. Eastwardia all Not in Idaho

X Check 2 spec in USN
(both were S. commutata or
var. of it)

Digitized by Hunt Institute for Botanical Documentation

Payette Natl. For. 6000 ft. Sparhawk 161 (223)
(= S. commutata puberula)

X check

= S. comm. var. puberula
Valley Co. 10 mi S. landmark, 5500 ft. Christ. 9694
" " Payette R. Jan 10 910

Salix commutata Rebb. Idaho

? ^{Bannock Co.} Rem. L. ? } Cache N.E., Meadows Cr., 8000 ft. Aug. Rec. 209 (CAR)

? Bannock Co. Upper Priest R., 3000 ft. July 7361 (CAR)

Carter Co. Lemhi N. F., Wildhorse Cr. Eggleson 14036 (USN)

Franklin Co. Hillyard Cr. Divide Davis 3985 (CAR) (USN)

Idaho Co. [Orogrande, Humptress, Wyo] Christ 11589 (CAR)

Bernhard Lake

Davis 2316 (CAR)

Digitized by Hunt Institute for Botanical Documentation

Lolo Trail in Packers Meadows, 5100 ft., Kirkwood 2049

Clematis N.E., Oxford P.S., 5000 ft. Epling & Hauck

Fish L. 6000

9678 (CAR)

9617 (CAR)

Poyekh Lake M.B. Jones no No., 28/7/99 (USN)

Shoshone Co. Shrub 5-6 ft. high forming extensive
thicket in moist meadow. To sagebrush saddle.
535, Twp. 43 N, R. 3 E, C. Shubert 224, July 18, 1941. WSC
(aments sterile, probably hybrid)
Red Horse P.S., 6 mi E Christ 17058 (CAR)

Valley Co. 26 mi S. of Randmark, 5000 ft. Christ 9689 (CAR)
1 " E " Elk Summit, 9000 ft. Davis 2645 (CAR)
Randmark. 1 Davis 2710 (CAR)

See Epling

Scommata v. dendrata Bell

Idaho

Banner or
Boundary Co? Upper Priest R. Kellogg 7361

Franklin Co. Creek R.

Christ 16222 (1908)

~~Idaho Co. Tolo Pass, meadow, Davis 8692 (1908), WSB~~
~~chr. ag. 1908~~

Digitized by Hunt Institute for Botanical Documentation

Owyhee Co. S of Silver A.

Christ 8049 (1908)
+ Ward

none used

S. commutata var. puberula Rebb ^{Idaho}

Co. Trail crossing, Monroe Co, Clear-
water Natl For, elev 6000, Kirkwood 1990 ^{CRB}

Custer Co., Loom Pass, Mayfield Co. Christ 15698 ^{CRB}

Idaho Co. Lolo Trail Christ 17122 (CRB)

Corr. 2' above mts. S. of St. Joe

Clearwater R., 1600 m. Leiber, 1246
OK (USN)

Soldier Mtns alt 10300 ft,
3401 m. Henderson 3401 Jan 15, 95 (USN)

Payette Co. Marans & Gould in 1899 (USN)

(as puberula.
var. { S. californica by CRB } caps
S. com. by Schu. pub

* ~~See Leiber 1246 Id. USN~~
~~not a leaf but OK~~

S. monticola Bebl

(Not in) Index

min

Co. Clearwater Soc, Cyr's Cabin over Fish h.
Creek, 5000 ft. Kirkwood 1879 (Mont U).

This was sent me by Prof
Sewary, of Mont U and
proved to be

S. pseudomonticola var. fulva (the type)
Bebl

None in U.S.N.

S. pseudomonticola Bell Shs

— Clearwater Fox, Indian Graves
Camp. 6000 ft. E Kirkwood
2006 (Wm. Mott as *S. discolor*)

— Big Camas Prairie, Wilson Creek,
Henderson 3400 (W. Mott, as
S. cordata marckeniana)
(1 tiny, not fully developed = *S. pseudomonticola* a)
2 twigs with lvs. lvs. broad (cordate) based
peristoma *S. marckeniana*)

(leaves on 3400 to 9 x 4, 11 x 4.6
10 x 4, 10.5 x 4.3
10.5 x 4)

~~Center of Josephus Park, Nevada
July 2006 3572~~

S. pseudomonticola v. pedophylla ^{Idaho} _(fall)

Custer Co. Josephus Lakes, 6500 ft.
Macbride & Payson 3572 (USN)
(fruit on peduncles 0.7-1 cm long
with 2-3 small oval leaves).

— Clearwater Spr. Cyr's Cabin on Fish
Lake Creek, 5000 ft. J.E. Kirkwood
1879 (Univ. Thore).

(det. as S. monticola by me in 1932)

S. Tweedy (Bebb) Ball

Dr. Elbert B. Little, Jr.,
Div. Dendrology,
Forest Service, U.S.D.A.

3814 Jocelyn St., N.W.,
Washington 15, D.C.

October 20, 1948

Dear Dr. Little:

In revising and completing the description of *Salix Tweedyi* (Bebb) Ball, of which no staminate material had been available until recently, I find record of four Forest Service collections for which I would like to have the names of the counties in which collected, if possible. The four are as follows:

Idaho: Lemhi Forest:

Lemhi North Fork above big meadows, 7600 ft. elev., B (or P). B. Johnson 88,
F.S. ~~55518~~ 56518, July 28, 1927.

Custer Head of Left Fork of Mahogany Creek, elev. 8500 ft., ~~XX~~ A.M. Casick 44,
F.S. ~~55518~~ 63078, Aug. 6, 1929.

Lincoln or Sublette Co.

Wyoming, Bridger-Wyom. Nat. Forest, Badger Creek, elev. 8000 ft., McDonald and
Cheeseman 37 C, F.S. 54997, July 17, 1926.

Teton Teton Natl. For., along Cache Creek above coal mine, elev. 6800 ft.,
F. Richenroth 96, F.S. 58554, July 23, 1927.

If you can give me the county names without too much trouble, I will greatly appreciate the courtesy. *S. Tweedy* is so rare and so localized, I would like to get its distribution definitely recorded.

I now am writing the willows of Idaho for Prof. Ray J. Davis, of the Idaho State College at Pocatello. There too I have records of many Forest Service collections and may wish to get counties for some of the rarer and more local species and varieties.

Cordially yours,

Carleton R. Ball

You can reply to Extension Service, Care J.L. Boatman, Rm. 6409, if you prefer.

DISTRIBUTION OF RARE IDAHO WILLOWS

Based on Specimens Determined by Carleton R. Ball and now in
His Herbarium unless Otherwise Indicated

S. caudata var. hyemalis Ball & Breckin.

Sect. PHYLLOCLADAE

(This glabrous variety less common than the hairy-twigged species)

- OK Davis 4102. Canyon Co.: Riverbank, Curtis Park, 8/15/41.
= scab
OK Epling 8606. Bonner Co. Upper Priest River, elev. approx. 3000 ft., 7/-/25.
OK Merrill & Wilcox 820. Fremont Co., St. Anthony, 7/4/01.
OK Meyer 1431. Nez Perce Co. No. bank of Clearwater River, about 5 mi. east of Spalding, Upper Sonoran Zone, 4/24/38.
OK Maguire, Bassett, et al 5316. Custer Co.: along bars of Salmon River, 10 mi. No. of Challis, 7/15/34.
OK Muenscher & Maguire 2294. Blaine Co.: Irrigation ditch $\frac{1}{2}$ mi. No. of McCammon, 5/30/33.
OK Piper 6655. Bonner Co.: near head of lower lake, Priest Lake, 8/8/23. (Wash. St. Coll.)

S. Fendleri Ball (Common in Canadian Rockies)

Sect. CORDATAE

- OK Hitchcock & Muhlick 11172. Custer Co.: Wet meadow at head of West Fork of Pahsimeroi River, No. side of Lost River Mtns, elev. 10,000 ft., 8/16/44

S. lutea var. Watsoni (Bebb) Jepson. (More common southward)

- OK Hitchcock & Muhlick 8991. Custer Co.: River bank, about 20 mi. So. of Challis, on Salmon River, 6/10/45.

Sect. WOLFIANAE

S. Wolfii Bebb (Less Common in Idaho than more hairy var. idahoensis)

- OK Davis 286. Clark Co.: Camas Meadows, 6/20/38) 333
OK Grazing Reconnaissance 333. Blaine Co.: Cache Natl. For., elev. 8000 ft., 8/15/16. 3

S. Tweedii (Bebb) Ball (Wyo., Mont., to NE Wash.) Sect. CHRYSEANTHAE

- OK Cusick, A.M., 44 (F.S. 63078). Lemhi Natl. Forest. Last spring basin at extreme head of Left Fork of Mahogany Creek, elev. 8500 ft., Apytly rare. 8/6/29.
OK Davis 1702. Custer Co.: Mt. Hyndman, 8/11/39.
OK Johnson, R.B. 88 (For. Serv. 56513). Lemhi Natl. For., rare, along creek banks, North Fork above big meadows (browsed by sheep), 7/28/27.
OK Thompson 14142. Blaine Co. Alpine stream banks, Boulder Creek Canyon, Sawtooth Mtns., Sawtooth Natl. For., elev. 8000 ft., 8/6/37.
OK Woods, C.N. ---. Blaine Co., Sawtooth Natl. For., 8 ft. high, near head of East Fork of Wood River, elev. 8500 ft., probably rare, 7/16/13.

S. medicellaris var. hypoglauca Fernald.

Sect. ROSEAE

- OK Piper 3720. Bonner Co.: Priest Lake, Aug., 1901. (prob. Herb. Wash. State Coll.)
(Should be found in boggy areas of northern Idaho)

S. nivalis Hook., var. Saximontana (Rydb.) Schn. Sect. RETICULATAE.

- OK Hitchcock & Muhlick 10881. Custer Co.: No. slope of peak immediately east of Castle Peak, near head of So. Fork of Salmon River, elev. 11500 ft. 8/12/44.
OK do 10882 10932. Custer Co.: Cirque at NW base of Mt. Borah, head of Rock Creek, Lost River Mtns., elev. 11500 ft., 8/12/44/
OK do 11094 A. Custer Co.: Basin at head of East Fork of Pahsimeroi River, Lost River Mtns., elev. 10300 ft., 8/14/44.
OK Thompson 13632. Blaine Co.: alpine talus slopes, Mt. Hyndman, Sawtooth Range, elev. 9000 ft., 7/30/36.
OK Thompson 13634. Blaine Co.: As last but leaves small and appr. S. nivalis.

S. anglorum Cham., var. araeoclada Schneider Sect. OVALIFOLIAE

- OK Davis 1715. Custer Co., Mt. Hyndman. 8/11/39.
 OK Hitchcock & Muhlick 11220. Custer Co.: Wet meadow at head of West Fork of Pahsimeroi River, No. side of Lost River Mtns., elev. 10000 ft., 8/14/44.
 OK Thompson 13582. Blaine Co., mountain meadow at base of Devil's Bedstead, Sawtooth Range, elev. 8000 ft., 7/23/36.

S. petrophila Rydberg.

- OK Davis 667. Custer Co.: Livingston Mine, 7/25/38.
 OK Hitchcock & Muhlick 11040. Custer Co.: Limestone bench at head of Mahogany Creek, Lost River Mtns., about 2 mi. No. of Mt. Borah, 8/12/44.
 OK Thompson 13572. Blaine Co.: Alpine slopes at base of Devel's Bedstead, Sawtooth Range, elev. 8000 ft., 7/23/36.
 OK Thompson 13606. Blaine Co.: slopes of mt. Hyndman, Sawtooth Range, elev. 9000 ft. 7/30/36.

S. orestera Schneider

Sect. GLAUCAE.

- V Davis 1708. Custer Co.: Mt. Hyndman, 8/11/39. = *S. Wolfii idahoensis* Pa

S. Lemmonii Bebb

Sect. ARGENTAE.

- OK Cronquist 2532. Blaine Co.: Edge of swamp near upper edge of Alturus Lake, elev. 7100 ft. 5/21/41. (So. Br. of Idaho Univ.)

N. sp. of n. var. near S. Lemmonii

- 2 Christ & Ward 8055, 8060, 8061. Owyhee Co.: In gulch so. of Silver City, 6/27/37.
 Davis 1333. Cassia Co.: Mt. Harrison, 7/14/39

S. planifolia Ph., var. monica (Bebb) Schn.

Sect. PHYLLICIFOLIAE

- OK (Davis 1687. Custer Co.: Mt. Hyndman. 8/11/39. OK
 Davis 1688. " " " " (what herb.? See St. Paul

IDAHO Willows

Distribution Lists by Counties

Data from
Identification Lists of CRB
Herbarium of CRB.

U.S. National Herbarium

U.S. Forest Serv.

Lists typed only for *S. lasiocarpa*,
S. canadensis, and *S. amygdaloides*
(carbon copy sent Ray J. Davis)

IDAHO WILLOWS IN Plant INDUSTRY HERB.

- 2 S. amygdaloides And. Idaho Co., Snake R. Canyon, Constance, Hedrick & Peters 1819, 1820 (as S. caudata) ✓
Twin Falls Co. Neslon & Macbride 2225
- 0 S. argophylla Nutt.
- 1 S. Barclayi And. Idaho Co.
- 0 S. bella Piper
- 0 S. brachycarpa Nutt. and vars.
- 0 S. discolor Muhl. and vars.
- 1 S. exigua Nutt. Twin Falls Co. ✓
- 0 S. Farrae Ball
- 0 S. Geyeriana And. and vars.
- 0 S. lasiandra and vars.
- 0 S. lasiolepis and vars.
- 0 S. Lemmoni
- 0 S. lutea and vars.
- 0 S. mackenziana
- 0 S. monochroma Ball
- 1 S. melanopsis Nuttall, Bonner Co. Lake Pend Oreille, Eggleston 8889
- 0 S. pedicellaris var. hypoglauca Fern.
n
- 0 S. plaifolia Bursh, and vars. monica and Nelsonii
- 0 S. pseudocordata (also under S. pseudomyrsinites) and var. aequalis
- 1 S. Scoulaeana Sanson, Bonner Co., Lakeview, Eggleston 8887

All entered on Idaho distribution sheets and do not change the ranges

Salix lasiandra Benth.

- Benewah Co. St. Maries. 2700 ft. Epling 8124
 " " " Epling in 1927
 Bonner Co. Sandpoint Substation, Christ 15100 (CRB)
 " Priest Lake, Bonner Ferry, W.W. White Epling 7763
 Bonner or Boundary Co. Upper Priest Lake, Epling 7708 1934-a-3 (JS)
 ? Nez Perce Co. So. side of Clearwater R. Mayer 877 (WSC) Dist
 Shoshone Co. Wallace, 2700 ft. Epling, 8125
 Boundary Co. Sand Point W.W. White 1934-a-3 (JS)

Salix lasiandra var. lanceifolia (Andersson) Ball

- Benewah Co. Latah Creek, Zensed, Christ 15082 CRB
 Pack River, Davis 3890
 Bonner Co. Sand Creek, 1 mi. N. of Sandpoint Christ 12439 (CRB)
 Pack R., Davis 3920 (CRB)
 ? Nez Perce Co. Clearwater River Mayer 877
 Washington Co. Weiser, Davis 154

Salix lasiandra, var. lanceifolia (Andersson) bebb

- Beer Lake Co. Fish Haven Davis 1562 (CRB)
 Benewah Co. St. Maries, Epling & Wyckoff in 1927
 " " " St. Joe Ferry, W.W. White 51, 52 (34)
 Bonner Co. Sandpoint Substation, Christ 15008 CRB
 Priest Lake, 2700 ft. Epling 7763 (CRB)
 Boundary Co. Bonner's Ferry, Ball 2086 (CRB)
 ? Clearwater Co. ? Orogrande Creek, Clearwater Natl. Forest.
 3000 ft., Epling & Shuck 9312, in 9319 (CRB)
 Washington Co. No. of Weiser, 2800 ft. Christ 9204 A, 9204 B (CRB).

S. lasiandra var. macrophylla Andersson (S. lyallii; S. lasiandra var. lyallii)

None in my lists of Idaho determinations
 None in Herb. CRB. or U.S. natl. Herbarium

DISTRIBUTION OF IDAHO WILLOWS BY COUNTIES (CRB, 1948)

Based on lists of determinations, and Ball and U.S. National Herbariums

Salix caudata (Nuttall) Heller

- Ada Co. Bank of Boise R., 3 mi. W. of Meridian, R.R. Wilson 200: 290 (CRB)
15 mi. N. of Boise, " " 640 (CRB)
Bannock Co. Pocatello, Piper 13 (CRB, WSC)
Bear Lake Co. Marsh 10 mi. SE. of Montpelier, Christ 9015 (CRB)
Benewah Co., St. Maries River, Fernwood, " 7653 "
Latah Creek, Tensed, " 15080 "
Blaine Co. Trail Creek divide, 7850 ft. " 9780 (CRB)
Cortez, 5700 ft. Macbride & Payson 2932 (USN)
Bonner Co. Priest R., McCabe Falls, Christ 4609 (CRB)
Sandpoint, Epling in 1926
6 mi. E. of Hope, 3 Maguires 5315 (CRB)
Manitou Natl. For. 2400 ft. W.W. White 69175 (69175-35) * list
Bonner or Boundary Co. Upper Priest R., 3000 ft. Epling 8606, 8609 (both CRB)
Canyon Co. New Plymouth, 2200 ft., Macbride 67 (as S. Fendleriana, WSC)
Cassia Co. Howell's Canyon, 7500 ft. Davis 2791 (CRB)
Elmore Co. Middle Fk Boise R., 7 mi. E. of Atlanta, Christ 8171 (CRB)
Pierce, 4200 ft. Davis 2842 (CRB)
Goodding Co. Hagerman Valley, below 1000 Springs, Cronquist 1114.
" " Davis 4287 (CRB)
Latah Co. Near Moscow, Christ 3942, 4713 (both CRB)
Potlatch R. near Juliaetta, " 6696, 6697 (CRB) "
Lewhi Co. Salmon, " 5838 (CRB)
No. Fk. Salmon R. Davis 409
Madison Co. Snake R. N of Lorenzo, Christ 8901, 8904 (CRB both)
Shoshone Co. Harry Creek, 2 mi. W. of Clarkia, " 7618
? Co. Sawtooth Natl For., Soldier Creek, Woods & Tidestrom 2546, 2547 (CRB both)

Salix caudata var. Bryantiana Ball and Bracelin.

- Bannock Co. McCammon, Monscher & Maguire 2294 (CRB)
Bear Lake Co. Montpelier, Macbride 17 (as S. Fendleriana WSC)
Bonner Co. Priest Lake, head of Lower Lake, Piper 6655 (WSC)
Bonneville Co. So. Fk. Snake R., 25 mi. SE of Ririe, Wilson 756
Canyon Co. River, Curtis Park, Davis 4102 (CRB)
Custer Co. Salmon R. 10 mi. N. of Challis, 3 Maguires 5316 (CRB)
Fremont Co. St. Anthony, Merrill & Wilcox 820 (CRB)
Nez Perce Co. Lake Waha, Heller 3334 (as S. lasiandra caudata, WSC.)
Near Lewiston, 750-1000 ft. Heller 3211, as S. lasiandra, WSC)
" " " 2941, as S. las. caudata, WSC)
Washington Co. Weiser, 2200 ft. Jones 6548 (USN)
Bonner or Boundary Co. Upper Priest R. 3000 ft. Epling 8606 (CRB) "
Wyo. Snake Co. No. bank Clearwater R., 5 mi. E. of Spalding, Upper Sonoran, Meyer 1431 (CRB WSC)

Salix caudata var. parvifolia Ball

- Bear Lake Co. Marsh 10 mi. E. of Montpelier, Christ 9007 (CRB)
Fish Haven, Davis 1583 (CRB)
Benewah Co. St. Maries, Epling & Wycoff in 1927
Bonner Co. Priest Lake, head of lower lake, Pipes 6641, 6654 (CRB, WSC)
Fremont Co. St. Anthony, Merrill & Wilcox 889 (CRB, USN)
Latah Co. Moscow, creek, Christ 4719, 4727 (CRB)
? Latah ? Co. Thatuna Hills, Epling & Hauck 9201 (CRB)
Latah Co. Bovill, Epling in 1929 (CRB)
Valley Co. McCall, 3500 ft. Christ 9619 (CRB)
Washington Co. Weiser, 2200 ft. Jones 6548 (USN, WSC; another specimen is v. Bryantiana)

Scandata in N S F W S W.

Custer Co, Leech Lake, J. L. Jacobson 244 (FS)

Benevolence Co, St. Maries, W. White 50 (FS)

Bo

Idaho Co, Salmon, near Higgins, W. White 1934-6-4 (FS)
Chambers " Kamiah, R. Beattie 11635 (CRB)

Scandata var. Pygmaea

Boundary Co, Sand Point, W. White 1934-a-1 (FS)
1934-a-2 (FS)

Shoshone Co, Mering Creek, W. White 49 (FS)

Salix amygdaloides Andersson.

- Ada Co. Boise, Clark 21; Coville & Kearney 220 (USN)
- Bannock Co. Pocatello, Piper 19 (in 1916) (WSC)
- Canyon Co. New Plymouth, 2200 ft. Macbride 64 (USN)
- Clark Co. Spencer, Rust 588
- Idaho Co. Snake River canyon. Constance et al 1819, 1820 (both WSC.) ^{PI}
 No. 1819 in GRB. Herb. in Pop. angustifolia. 1820 (GRB) ^A
 White Bird bridge, Davis 3184 (GRB)
 Nez Perce Nat. For., bet. White Bird & Riggins, 1800 ft. White 1934-I-3 ^{3/4}
- Nez Perce Co. Clearwater River, Lewiston, Christ 4005 (GRB)
 Snake R. " 15063 "
 near Lewiston, Heller 3201 (USN, WSC)
 Line Point St. John 4366, det. by him as S. lasiandra (WSC).
- Payette Co. East of Payette 2000 ft. Christ 9443 (GRB).
- Twin Falls Co. Buhl, Shoshone Falls Nelson & Macbride 2225 (USN) ^{P. J. m.}
 R. K. Beattie 11607 (C. R. R.)
- Washington Co. 3 miles N. of Weiser, Cronquist 1135, 1136 (GRB)
 Monroe Creek, Weiser, Davis 756 (GRB).
 Weiser, Marcus E. Jones 6545

Salix argophylla Nutt. Idaho (rare)

- Ada Co. Boise R. meridian Davis 768 (CP)
Bingham Co. Aberdeen Ball 2190 (CPB)
Converse Co. Idaho Falls, near Welch 803 (CPB) 2
Bonneville Co. Kaniksu Fov., Parkhill, with white 1934-e (FS)
Canyon Co. Falks Store, alt 2200 ft., slough & creek bank
" " Owen Nelson J. F. Macbride 1057. July 11, 1911 (USC)
" " Curlew Park. Davis 4093 (CPB)
Fremont Co. sandhills Davis 322 (CPB)
Idaho Co. W.W.W. 1934-e, 9, 10, 14, 15, 16. (all to).
Idaho Co. Sitter, 1100 ft. Christ 10099 (CPB)
" " Kootenai " 35 H (mtd)
" " Nez Perce Fov. 2000 " white 1934-e-9 (CPB)
" " Butte white, Bend & Higgins 1200 ft. " 214 (CPB)
Kootenai Co. Hayden Lake ? Christ 6177 (CPB)
Latah Co. Viola " " 6078 (CPB)
Canyon Co. Caldwell 10 ft. Epling (1929) CPA
" " Ball 1705 (CPB) 2
~~Idaho Co. White Bend & Higgins White 1934-e-14 (CPB)~~
Nez Perce Co. HR # hint 8-30, at Spalding (FS).
Payette Co. Ex Payette, 2000 ft. Chair. 9437 (CPB)
" " Payette Fov. L. O. Miles 5-19 (FS)
" " " Station Creek " 103, 29/6/4 (FS. 18591)
Power Co. Am. Falls Tammie & Dodge 1 (CPB)
~~Idaho Co. Clearwater Fov. Henderson in 1894 (USN)~~
Washington Co. Weiser 2200 ft. Jones 6554 (USN)
Adair Co. Boise Nat Fov. Lamb J (USN)

Salix exigua Nuttall Salix

- Pasatiempo Creek 4000 ft. Wilson 4-31 (CRB)
 Pasatiempo 7482
 Bannock Co. Pocatello, Piper 14, 15, Sept 17, 1916 WSC
 Bo. McNamee 195 (CRB)
 Bear Lake Co. Fish Haven 1570 (CRB)
 10 mi SE. Montpelier Christ 9008
 Clark Co. Spencer, 6000 ft Cronquist 1274
 " " " " Christ 584 (W.S.P.)
 Custer Co. Baldy 6500 ft Christ 7859
 10 mi N. Challis Hidden 9334 (CRB)
 " " " 3 meadows 5314 (CRB)
 Elmore Co. Stater Co. Mayfield Christ 6954 (CRB)
 Latah Co. Moscow Christ 4726 (CRB)
 Lewis Co. Winchester Christ 7602 (CRB)
 Madison Co. Snake R. Lorenzo Christ 8903 (CRB)
 Owyhee Co. Brandon, 27 mi SW. Walcott 1040 (CRB)
 / Santa Fe Leonard, Christ 15099 (CRB)
 Nez Perce Co. about Lewiston, 750-1000 ft. Heller (3)
 3007 Was S. Elm. argrophylla May 5, 1896. W.S.P., W.S.C. (2)
 Lewiston, Christ 4004
 Payette Co. New Plymouth Christ 8580
 Sunn Falls Co. NW of Mustang, Christ + W 8026
 Cattleford Neb. Christ 1712 (W.S.P.)
 Shoshone Falls Boettge 11606 (CRB) PI?
 Washn Co. Wesser 7 mi N. Medvale Christ 8570
 Wesser (Mogensen CRB) W. Brown 1138

S. Lygus wild

Barnack? Co. Arthur

Bull 2020 (CPR)

Ringham Co. Ann Fall Reservoir Dam 1510 (CPR)

Bonnerville St. E. of Idaho Falls Wilson 750 (CPR)

Bonner Co. Malheur Falls, Crest R. Chas 4667 (CPR)

La Lake, Pond Creek R. " 4837 (CPR)
Sand Pond July 10 404

Franklin Co. Franklin (Lutner) Dam 4050 (CPR)

Franklin Co. Sandhills Dam 323 (CPR)
Idaho Co. Harkster 1074 Chas 828,807 (CPR)
Kamela 11632 (CPR)

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Lehigh Co. Salmon Chas 5843 (CPR)

Shoupe

Dam 419

Salmon R. 10 74 SE Lubbockville Hitchcock 9044 (CPR)
St. Anthony Bull 2025 (CPR)
Spalding 11642 (CPR)

Neg. Perch's Laverton Chas 4004 (CPR)
15059

Henry J. K. Hayden 1872 (CPR)
Blackfoot (8-12 Ch.) Bull 2157 (CPR)
Overhead Bull 2023 (CPR) 2188 (CPR)
2190 (CPR)

Lutner Jack 1143 (CPR)

Big Creek Saddle Plains Palmer 307, 6 (CPR)

Big Horn Prairie Henderson 3076 (CPR)

Bonanza Co. Kearney 34012 (CPR)

Council Bluffs 238 (CPR)

Charles J. B. Westerville 395 (CPR)
1575 (CPR)

Idaho Co. 2 (73)
Idaho Co. 2 (73)
Custer Co. 1 (73)

S. exigua nevadensis (Wats.) Schm
none in lists

Blaine Co. Tiberia 4500 ft
Nelson & Marsh 1300 (USK)

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none in CRD list

S. exigua v. stenophylla (Pursh.) Schum.
none in lists, lost up Texas

Fromsted Co. 22 anthers Merrell black 857 298
" " " — 450 298
" " " — 450 298
WSK

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to new; Vale sup R NE Calif.

Salix melanopsis Nutt. Idaho

- Bear Lake Co. Mosquito Valley. Thayer 207 (USN)
 Bonanza Co. Pocatello 5000 ft. Bonanza 2299
 Blaine Co. Mt. of Altitude 10439 ft. 10439 (USN)
 Bonner Co. Priest Lake, Piper 3698. Aug. 1901. WSC
 Oden Bay
 Upper Snake R. 3000 ft. Christ 4660
 Christ 7583 (USN)
 Christ 6613
 Clearwater Co. Pierce
 Christ 7409 (USN)
 Custer Co. Bonanza, May 3441 (USN)
 Elmore Co. 7 mi. E of Atlanta. Christ 8172 (USN)
 Franklin Co. Willow flat on Cub Creek, 41E, 15S.
 Fremont Co. St Anthony 5000 ft. Bonanza 1467
 Franklin Co. Cub R. Bonanza 4013 (USN)
 Idaho Co. Kamiah Elmer R. Bonanza 11634 (USN)
 Blaine Co. Wood R. Saw tooth mts 6500 ft. Thompson 14183
 Bonner Co. Camp Pt. Priest L. Piper 6657 (USN)
 Granite Co. "Eggleson" 6613 (USN)
 Blaine Co. Wood R. Sawtooth Nat. For Thompson 14153 (USN)
 Boundary Co. Bonners Ferry (1926) Epling 10467 (USN)
 Nez Perce Co. Hatawai Cr. Sandburg 14180 (USN)
 Spaulding Co. Bonanza 11641 (USN)
 Shoshone Co. No FK Clearwater R. Christ 8754 (USN)
 Wallace Co. Epling 8134
 Leton Co. Victor, Front L. Christ 5256 (USN)
 Bonneville Co. on Snake R. F.D. Doughty 317 (USN)
 Valley Co. Payette Fr. Sparhawk 149 (USN)

S. melanospira Bolanderiana (Pawl.) Salm ^{Idaho} ^{Pawl}

Bonner Co. ? Upper Priest L. 2700 ft. Epiphy 7721
Pleist L. " " 7823
Coolin Elk Pasture. Paper 6615, 6617
[CAR] 6628

Idaho Co. Nez Perce Fm. WW 289-290 (FS)
Idaho Co. above Red R. Ranger Sta. June 3306 (CAR)
Elk Co., river Elk. Aug 3365 (CAR)

" " " " WW 1934-e-11 (FS)
Clearwater Co. Clearwater Fm., 3000 ft. WW 284, 285 (FS)

Kootenai Co. Caesar d'Almeida Fm. WW 26 (FS)

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— N. E. Clearwater R. 2600 ft.
Epiphy + Hanak 9411 (CAR)
Orogrande Cr., Clearwater Fm. 9320 L.

Shoshone Co., Wallace 3000 ft. Epiphy 8128, 8135
8139

lgs to 9 x 4.5 cm. Paper. Ida

Salix melanopsis var. tenerrima Idaho

Bannock Co. Indian Reservation Bull 2021 (CRB)

Blaine Co. 3 mi SO Tetakum, 3800 ft. Ch 9787 (CRB)

Butte Co. Lost R Mtn ^{12 ft.} 7300 ft. Heloh & Mule 8814 (CRB)

Canyon Co. Felt's Store, alt. 2200 ft. J. Francis Macbride 98,
(as *S. fluviatilis*), May 24, 1910, open sandy slopes. WSC

Curtis Park,

Corv 4104 (WSC, CRB)

Franklin

Fremont Co. St Anthony ^{hel. " " + Rockburg} Cronquist 1467
Bull 2026 (CRB)

* Elmore Co. Rattlemake Cr. 3500 ft. Henderson 3153
^{12-14 ft.} type (USP) (CRB)

Madison Co. Sugar City Christ 8920 (CRB)

Ben Lick & Fork Haver June 6500 ft. (CRB)
Geog. Recor. 331

Valley Co. Near ^{3500 ft.} ~~Madison~~ Christ 9617 (CRB)

* Henderson comp type Elmore Co, also with in Payson Co
all above are circled E + W

Salix lutea Nuttall

Idaho

- Adams Co. Bear Creek 8586 (CRB)
Bannock Co. Pocatello, C. W. Piper 76¹⁷ Sept 17, 1916. (CRB) WSC
Bannock Co. Fish Haven, Davis 1588 (CRB)
Bannock Co. Teton Nat. Park, Chase 1508 (CRB)
Butte Co. Lost River 7300 ft. Hitchcock 8823 (CRB)
Blaine Co. Sammett, Wood R. Christ 7066 (CRB)
Canyon Co. Curtis Park, Davis 4093 (CRB) WSC
Custer Co. Pass Creek, Davis 1752 (CRB)
" " near Challis 4900 ft. Woots 589 (CRB)
Elmore Co. Tallygate, no of Whitcomb, Christ 7029 (CRB)
Franklin Co. Cud. R. Davis 4016 (CRB) WSC
Fremont Co. Ramont, Davis 287 (CRB)
Idaho Co. St. Joe Nat. For. 7500 ft. White 375 (CRB)
Latah Co. Moscow, Christ 4714 (CRB)
" Kendrick, " 6699 (CRB)
" Salmon, Christ 5839 (CRB)
Madison Co. Lorenzo, Christ et al 8899, 8902 (CRB)
" " Christ et al (CRB),
Power Co. Rockland, 2 mi E. / Harbor in 1926 (CRB)
" " Arbon, Ball 2018 (CRB) 7981 (CRB) WSC
2 / Dwyer Co. Bureau P. Christ + Ward 7984, 7985 (CRB)
" " 28 mi SW of Grandview, Wilson 1037 (CRB)
Bannock Co. Ind. Pres. off Bannock Pk. Ball 2022 (CRB) WSC
Fremont-Madison Co. St. Anthony, Ball 2024
Twin Falls Co. Murtaugh Christ + Ward 8029 (CRB)
Ada Co. Boise (as *microgyna*) Corvill + Kearney 223, 224, 225
" " Ephing 9161 (CRB) WSC
Latah Co. Thutman Hills
X See Colony (from FS spec. for *microgyna*)

S. lutea Nutt.

Barnack Co. ~~Massachusetts~~ Japan 17 (K. B. N.)
J. A. Jack 1136 (L)

Japan 2000, Boullier in 1873 (K. B. N.)

1. Borneo by Low May 222 "

Borneo Co. Borneo Japan
K. B. N. 1136 (L) white 1934 (20 712.18)

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Katak Co. S. J. W. 376 (J. 99180) #5.

Salix lutea var. platyphylla Roll. Idaho

- Ada Co. Boise R. meridian Davis 766 (CPR)
~~Boise Co.~~ Boise R. meridian Cronquist 1133A (CPR)
 Bannock Co. Pocatello Ray Davis 108-35 June 24/35 WSC
 Boise Co. 16 mi S. of Idaho Cons. Hitchcock Muhl 8617 (CPR)
 Canyon Co. Emmett J. Francis Barber 790 Apr. 29, 1911, WSC (WEN)
 * Bonneville L. 15 mi E. of Idaho Falls Wilcox 749 (CPR)
 Clark Co. Camas Creek Davis 378 (CPR)

Custer Co. 4 mi N. of Challis, Christ 15624 (CPR)

Elm

Gooding Co. Hagerman Davis 135 (CPR)
 Hagerman to Bliss, Wilcox 636 (CPR)

Idaho Co. no. Park for White 291 (F.S.)

Latah Co. Mazon Creek Christ + Ward 6700 (CPR)

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Bannock Co. Pocatello, 4450 ft Davis 7-34 (CPR)
 Pocatello Creek 4600 ft Wilson 260 (CPR)
 Lava Hot Springs " 532 (CPR)
 " 772 (CPR)

Oneida Co. near Malad, Standing 16 (F.S.)

Payette Co. E of Payette, 2000 ft Christ 9440 (CPR)

Twin Falls Co. 8 mi. E. of Hollister, Pismiesel 30-937 (CPR)
 Shoshone Park Brattin 11604 (CPR)

Washington Co. no. of Weiser, Cronquist 1137 (CPR)

Salix lutea var platyphylla Idaho

Bear Lake. Montpelier, J. Francis Macbride
* (mounted with No 17, Scordata var. Bry-
antenn) May 15, 1910

WES
USN

Digitized by Hunt Institute for Botanical Documentation

Naz. Pescado (USN)
near Lewiston, Hecker's 2942 (as Scordata) No 23, 1896 WSC
(referred to S. monachroma by Balf. but N. Y. spec. is
same as the WSC)

* cited by CRQ

S. lutea var. Watsoni (Bebb) John Idaho

Custer Co. 20 mi S of Challis Hitchcock & Knapp 8991

Digitized by Hunt Institute for Botanical Documentation

? Is this in CRP?

None at home CRP
None in USN

S. ligulifolia Ball

Idaho.

Benedict Co. Thummer

³⁸⁶¹
Christ, 3863

Bonner Co., Odessa

Christ 4659

Bonner or Boundary Co., near the Falls, West R., " 4668

There are all pseudonyms

None in Idaho

Included as *S. ligulifolia*

Salix mackenziana (Hook. & Barr.) Idaho

Boundary Co., Bonners Ferry Ball 2087 (CRB)
 Blaine Co. Trail Cr. divide, E. of Ketchum, 7850 ft. Chitt 9778 (CRB)
 Benewah Co. (S. Plummer, 2700 ft. Chitt 3864, 3813 (CRB)
 Bonner Co. (S. Plummer, 2700 ft. Ephing 8607
 Lake Fork, Oden Bay, Chitt 4659 (CRB)
 E. K. Green R. near Coolin, Chitt 4659 (CRB) WSC
 Ind. of Lower Green R. " 6639 (CRB) WSC

Upper Green R., 2700 ft. Ephing 7166 (CRB)
 Posthill W. R. 1939 (CRB) LTR

Idaho Co. Stites S. Fork Clearwater, 1100 ft. Chitt 10097 (CRB)
 Clearwater River, NE Fork, 2700 ft. 10098
 Weiser Fork, 5000 ft. Mangum 161 (CRB)

Latah Co. Potlatch, R. K. Beattie 4057, June 16, 1911 WSC

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Lemhi Co. No. Fork Salmon, Dorn 408

Latah Co. Hatuna Hills, Ephing & Harst 9161 (CRB)

Nez Perces Co. near Lewiston, alt. 800 ft. Heller 2950
 (as S. cord. mackenziana) Dorn 24, 1896 WSC
 Banks of Clearwater R., F. & Meyer 878, 7/29/37 WSC

Power Co. near Falls, Pennington & Dodgeon 2 (CRB)

Bonner Co. Conville & Kearney 224 (CRB)
 Fayette Forest, alt. 300 ft. Ryder W. 1911 (CRB)
 " " Martmann 571 (CRB)

Valley Co. Lake Fork, near McCall, 3500 ft. Chitt 9627 (CRB)
 Washington Co. N. of Weiser, Davis 133 86
 " " " " Wilson 2986

E. Madsen Jensen KSN

Blume Co 2929 Masbroke Bayson

Ada Blume City CORR Kenny 228, 229, 225
Bannock Postville J. Jack 1165

COVER P. Blume

Banner or
Bannock

West Ft. Quess P.

No

Juliatta & Lemmon Henderson
Shoshone, Idaho P. Blume 186

Digitized by Hunt Institute for Botanical Documentation
reg. Blume Co. KSN 2942, 2950

S. Ferral Ball

Drake

W. F. Bakermerai R.

Custer Co. N. side lost into 10000 ft. Hitchcock
+ Muchlick 11172 (RFB)

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Wound in US 11

Salix pseudocordata (And.) Rydb. Idaho

Adams Co. Bear,
Blaine Co. Pole Creek
Clark Co. Camas Creek

Christ 8585
Davis 736
Davis 377 (CRB)

Butte Co. Pass Creek

Davis 1754 (CRB)

" " 11 mi. W of Challis, 9500 ft. Hitchcock muhl

" " Basinger, 6500 ft. Chm 9535 (CRB)

? " " Challis rail fty. 1830 m, ^{July 1948} 9865 (CRB)

Elmore Co. Boise R. Allanta Christ 8170 (CRB)

Fremont Co. Henry's Lake Christ 15443 (CRB)

Idaho Co. N.P. Trail, Yellowstone Trail Ball 2180 (CRB, USN)

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" " Sawtooth N. For, Smoky R. S. Woods Traction

Teton Co. Teton Basin nr Victor, Merriam 7605 (CRB)

Blaine Co. Bailey Woods 243 (CRB, USN)

Blaine Co. No. part, Lake Alturas, Piemeisel

Power-Barnock & Carson

Ball 30-936
2019 (CRB, USN)

Valley Co. 10 mi S of Landmark, Hitchcock 14087 (CRB)

Blaine Co. Ward R., at ^{Sawtooth Mtns} Bailey Fox Camp, 6500 ft

Thompson 14149 (CRB, USN)
14149 muhl

S. pseudocordata var inequalis ^{Idaho} ~~Anders~~

Barnard Co. Cache Nat For 8000 ft
(FS 62041, Kennedy 7215 (CRB, FS)
Bear Lake Co., Weston Cr., Cache For, Graz. Rec. [218 (FS)
219 "]

Franklin Co. Cub R. Chas 16218 (CRB)
Franklin Basin, head of r

Walt 16218

Digitized by Hunt Institute for Botanical Documentation

S. pseudocordata VLS II

Barnard Co. Ely Station 9952

Plains Ketchikan Henderson 3898

Butte Co. Oro Lost R. Palmer 175

Clark Spenser Rust 536

Crocker Co. Bonanza, McBride Payson 3839

Clayton, E. Fort Salmon R. Quandt (Wilson) 1074 (CRB)

Bear E. Co. Carbon For. Aldous 1702 (FS)

Butte, Clon & Crocker Co.

Salix monochrome Ball Idaho

Bannock Co. Pocatello (as legatus) Wilson 544 (CRB)
 Elmore Co. Wtn meadow 4 mi N of Rocky Bay
 Boise Co. So. Fk Payette R. Hitchcock + Muhlberg 10285 (CRB)
 Davis 2769 (CRB)

Elmore Co. Pine, 4200 ft. Davis 2843 (CRB)

Fremont Co. Lamont, Davis 282 (CRB)
 in Ashton + Briggs, Maguire 282

Lemhi Co. Birch Creek, Davis 1117 (CRB)
 Panther Creek, Hitchcock 14163 (CRB)
 Lewis Co. W. Maketus Christ 7604 (CRB, USN)

Idaho Co. Florence Meadows, N.P. For. Sargent 27 1/2 (PS)

Digitized by Hunt Institute for Botanical Documentation
 Custer Co. Lemhi For. Willhams N. Engelman 14039 (CRB)
 241 USN

Ada Co. Boise (P. H. H. H.) + S. H. H. H. 244 (CRB USN)

? Latah Co. ? Flatiron N. H. H. H. 9160 (CRB)

Naz Persels Juliaetta + Hayden Henderson 11894 (CRB)
 Clearwater R. Sandberg M. + L. 96 (USN)
 Salmon Creek, Baker W. H. H. H. 117 (USN)
 1046 USN

Leton Co. Game Creek, Victor Christ 5130, 5133 (CRB)

Type S M + K 89 (USN)

Valley Co. Late Fork near McCall, 3500 ft. Christ 9618 (CRB)
 Worthen Co. Curdley Mts. 6000 ft. Jones 6547 (USN).
 (as S. Lemmon)

See Epiphy

Salix lasiophylla Brantham Idaho.

— middle Valley 2300 ft. M. E. Jones 6544 (USN)

Idaho Co. S. F. K. Salmon R., 3000 ft. Davis 2589 (CAG)

Ada Co. Boise Cy, 6044 / ^{Farney} 226, 240 (USN)

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³ Dwyer Co. Sinkers Cr. n. of Silver Cy. Piernice 31-56,

Payette Co. E. of Payette, 2000 ft. Christ 8441 (CAG)

S. lasiolepis Sandbergii Rydb. & Roll ^{Idaho}

Ada Co. 15 mi. N Boise. R. W. W. 1049

Adams Co. Council, 2100 ft. Christ 9187 (ARB)

Boise Co. Squirrel Cr. 3500 ft. M. H. 809 (ARB)

Elmore Co. Tailgate, Christ 7025 (ARB)

Benn Co. Emmet

Christ 6979, 6980 (ARB)

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Washington Co. near Weiser, 2800 ft. Christ 9286
ARB

S. Walzii Rebb Idaho

? Bear Lake Co., ? Cache Natl For, Beaver Creek,
8000 ft., elev. Recon. 333 (35, 41)

* ~~Blaine Co. Sawtooth Mts. Wood R. at
Eaglesley For Camp. 6500 ft
Thompson 14151 (USN) USC
(no capsules)~~

Clark Co. Carnas Meadows, Davis 266 (418)

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* (Spec. in Herb. USC have hairy
capsules = idahoensis)

Look up Idaho

~~Fremont Co. Merrill + Wilson 889 (not 899)~~

~~but what species~~

~~Not in List of Cordillera + C. had to last last year~~

~~" = "caud. foetida + foetida + var.~~

~~From S. Eastwoodiae~~

~~Davis 910, Valley Co, Payette Lake,
was reidentified + transferred (to what?)
Not in S. commutata or var. collected.~~

~~S. Eastwoodiae. None in V. B. or W. K.
check F. 5. under S. californica~~

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~~S. polaris var. Schwynsis Donf
Hitchcock + Muhlack 11094 B so identified
but later changed to what?~~

~~(11094 A was S. sinensis but later
changed to var. saximontana) ok~~

~~See letter to Hitchcock
changed to S. var. saximontana
Dames 11094 a~~

Salix Geyeriana And ~~Christ 2932~~ ^{Christ 2944} (USN)
 Blaine Co. Wood Pt. ^{Marquette} ~~Barnett~~ ^{Christ 7067, 7068} (both USN)
 alluvial lake ²⁵³⁸
 Bear Lake Co. clumps on creek bank, Montpelier, WSC
 D. Fr. Macbride 18 May 15, 1910 C USN
 Benneville St. Maria 2500 ft. ⁸⁰⁰⁹ CAB
 Bonner Co. Priest Lake, CV Piper 2, 4, 5, 6, Aug 28, 1916 WSC
 Moore C Christ 4840 (CAB)
 Custer Co. m. Stanley, 5000 ft. " 9673 (CAB)
^{breeding} 6500 ft. " 9858 (CAB)
 Elmore Co. Lester Cr., Christ 6172 (CAB)

Fremont Co 5800 ft. T. H. Hall 20 (JS 84687)
 Harry's Lake, Christ 5798

~~Barnes Co. Pebble Basin, Cache Pk., 7000 ft.~~
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——— Emerald Is. m. Santa, Spring m. 1929 (CAB)

Shoshone Co. Mt. Emerald + Clarkia, Christ 7651 (CAB)

Valley Co. Sandmark Hitchcock, 14059 (CAB 4/11)
 Lake Fork, m. McCall, 3500 ft., Christ 9624 (CAB) USN

Co. Collins, CV Piper 2918, shrub 8-10 ft.
 July, 1898. WSC

Chs USN ✓

S. Seyeriana And Soda

Bonner Co. Great R. 2700 ft. Eglum 7729, 7898, 7933 (CRB)
 Lower Price Lake Exp Co 665 1/2 (WSC)

Adams Co. Bear Creek Ward 8587 (CRB)

Bingham Co. Springfield, Davis 1511 (CRB)

Clark Co. Carnas Meadows, Davis 265 (CRB)
 " " Inquire 17108 (CRB)
 " " NW of Elmore,

Custer Co. Salmon R 15 mi above Stanley Cronquist 2685

12 mi W. of Challis Cronquist 2912

Boulder Co. Davis 5513 (CRB)

(?) ~~Challis R. Cronquist 1949 (W.S.N.)~~
 Cape Horn, March & May 3526 (W.S.N.)

Forrest Co. Lamont Davis 278 (CRB)
 Reas Inquire 17109 (CRB)

Idaho, Big Lost R., Lemhi Co. Eglum 4060 (W.S.N.)

~~Idaho Co. above R.R. R.S. Davis 3307 (W.S.N.)~~

Clarks Summit? Camas Co. near Hallgorn Plant 782 (W.S.N.)

Clark Co. — Spencer 491, 589 (W.S.N.)

Kootenai Co. Bonanza Creek

Dwyer Co. Dewey Mine on Jordan R. Davis 2107 (CRB) W.S.N.
 House Co. near March 1822 (W.S.N.)

Swan Falls Co. Shoshone R.S. Hierisch 614 (CRB)

Barrenak B. alt 7000 ft. Eglum 9951 (W.S.N.)

~~S. Bebbiana~~ ~~Sage~~ Idaho
~~Seymoura~~ ~~Anderson~~

Bonner Co. Kanikeon Mts. 2400 ft.
white 5 (F.S. 69176)

Butte Co. Lost R. Mts. 14 mi. N. of Teshie, 7300 ft.
Hitchcock + Muhl. 8815 (20 ft. tall) CRB

Custer Co. No FK By Lost R. 20 mi. N.E. of Sun Valley
7480 ft. Hitchcock + Muhl. 8802 (CRB)
6 ft. tall

Bismack Co. Peabell Dam 8-34 ft. 1934 (CRB) 2 sh

Clearwater Co. Cl-F. Innershell R.S. 3500 ft.
white 2.81 (F.S. 81736) 78

Digitized by: Hunt Institute for Botanical Documentation
Lemhi Co. Teton, 9276 (6 ft.) CRB

Idaho Co. 1/2 mi. So of Suggs 808 (prob Chus) 10 (CRB)

Valley Co. Bon Valley Hitchcock + Muhl 9721 (CRB)

to Geyeriana Anders Ida 7.5.

Cock F

Barnack & Pibble Basin 7000 ft

Weight 196 (FS. 62043) FS

Bonner Co. Kaniksu F. Great R. Sta, 2500 ft.

Jak. 120 (FS. 10707) FS

do 3400 ft. White 5 (FS. 69176) FS

Boundary Co. Kaniksu F. 3000 ft

White 104 (FS. 171210) FS

Custer Co. Lemhi F. 6500 + 7800 ft.

Jacobs 59 + 61 (FS 6566 2-3) FS

Challis For. 5300 ft.

Work 526 (FS. 21059) FS

Elmore Co. Boise F. Little Bittern Lake Cr. 4000 ft.

Saling 12 (FS. 63984) FS

Fremont Co. Targhee F. Porcupine R. S. 5800 ft.

Shoshone Co. St Joe F. Mery Cr. 3500 ft.

White 55 (70631) FS

Hall 20 (FS 84687) FS

Payette For.

5700 ft. Martineau 55 (FS 11688) FS

5000 " Miles 15 1/2 (FS. 6321) "

5300 " Sparhawk 101 (FS 12383) "

Salix Geyeriana var argentea

Idaho

Bannock Co. Pebble Basin, Cache, For 7 chds H.
Weight 196 (53.62023) CRB

Adams Co. Shrub to 8 ft. tall. 1/2 mi No of New Meadows,
7 FS Meyer 1469, May 28, 1938 (FJ) WSC

Bozeman Co. m. Sandpoint, Paper 6681 (CRB WSC)
Green, 6619 (CRB)

7 Clark Co. Camas Meadows, Davis 267 (CRB) WSC

Butte Co. Arco, Snake Plains, E. Palmer 174 m 1893 (CRB ft. WSN)

Custer Co. Little Lost R. 6500 ft. Christ 9867 (CRB)

" " Little Lost R. 7000 ft. Eggert 14042 (WSN)

1 — Grouseberry Cr., Challis N.F. 1830 m.
Lidstrom 1949 (CRB, WSN)

Freemont Co. Henry's Lake, Fargher Chert 15444,
15445

Idaho Co. Nez Perce F. 4000 ft.
White 286 (F.S. 81743) FS

Lemhi Co. Birch Creek Davis 1116 (CRB)

~~Arco along Lost R. E. Palmer 174 (WSN)~~

Blaine Co. Corral 5700 ft., March, Payson 2983 (WSN)

Shoshone Co. Clarkin 3000 ft. Egghy 8266

Teton Falls Co. Minidoka For. 6200 ft.
Siernick 614 (F.S. 91413) FS

Teton Co. Victor Christ 5329 (CRB)

Valley Co. Payette Lake Davis 909 (CRB)

S. Seyeriana v. *Melema*

Today I found, in US Nat Herb, 2 more specimens
which seem to be ⁵ *Seyeriana* var. *melema* Hemm.

One is from Pyramid Lake, Marsden E. Jones
(no No), on July 24, 1898 (annotated by Rydb.
as a "n. sp." near *S. Germanica*).

The other is from N. Fork Colorado River,
~~near~~ Colorado River, Colorado, Lander Co.
1532 m, 1895. ^{alt. 950 m.} ~~Laugha~~ ^{Shoshone Co.} This is

This gives 2 more, and makes 3, widely
sep. localities.

S. Seyeriana Auf v. meicina Henry ^{Idaho}

Freemont Co. Henrys Lake
Macke Inn

Christ 15446.
Christ 5561 (CRB)

Pagette Co. ? Pagette Lake, MT June July 34, 1899
No No. C. S. Lemmon on label (USN)

~~annotated by Rydberg as a "n. sp." near S. Lemmon's~~

Probably
Shoshone
Co.

{ Cosas is Alene Lake, N. Fork C. N. R. River,
Leiberg 1532 in 1895 alt 950 m.
(W & N)

none in FS

S. Bebbiana Sarg. Idaho

Boundary Co. Bonner's Ferry near Katerai R. Rd 2885 ^{USN}

Bonner B. E. H. Forest R. M. Coolin, Piper 6612 (CPB WSC)
 Coshin, N. of Forest Lake " 6626 (CPB WSC)
 Thoroughfare, " " " 6624 (" WSC)
 Sand Point Piper 6680 (" WSC)
 Kanikon NF 2450 ft. White 6
 (FS 69177) FS (FS 69173) FS
 [F.S. 1426]

Kootenai? Co. Cassin B. Wms area
 Boundary Co. Bonner's Ferry, Idaho 1536 (USN)
 Latah Co. Salubria near Moscow Henderson, 498, 504, 507 (")
 Boundary Co. Wagon 718
 (FS 6549) (USN, 226)

Digitized by Hunt Institute for Botanical Documentation

Idaho Co. Lemhi, 7000 ft.
 Jacob 211 (FS 68032) FS

Emore Co. Base F. By. Rathbun A. 8000 ft.
 Jacob 182 (FS 63985) FS

Idaho Co. Odark F. Piggins 1200 ft.
 White 1934-f. (FS 71229) FS

CHK USN ✓

Salix Bebbiana Sarg

Idaho

Boise Co. So. Ft. Payette P. Davis 2768 (CRB)

Bannock Co. Pocatello, Son Spiers, Apr 1, 1936 (fls) WSC

Bingham Co. Springfull, Davis 1512, 1515 (WSC CRB)

Benewah Co. Plummer, Christ 3862, 10926 (CRB)

Fernwood, Christ 7655 (CRB)

Bonner Co. Sandpoint, Christ 15096, 15099

Idaho Co. Deer Cr. Spring 2, 287 (CRB) WSC

Kootenai Co. Fernan Cr., E. of Lewis & Clark, Christ 15085, 15088, 15089

Latah Co. Thetford Hills,
near Cummins Creek, lower south slope
on road to Cedar Creek, April 1936

Louis A. Dillon 540, May 7, 1936. WSC

Moscow, Christ 3939 (CRB)

Patterson, " 9081 (CRB)

Nez Percés Co. Frequent on banks of Peter Creek, Sandberg,
Madamegal & after 118, 72 mi 4, 1892 WSC
(Cao S. Grathwaite) USN

Bonner Co. Crest L. & Run, 2700 ft. Spring 7744, 7777, 7934

(CRB)

Shoshone Co. Clarkia 3000 ft. Spring 8608

S. Bebbiana pennsylvanica Ida

Bennett Co. St. Joe F. & Martin 2500 ft.
White 50 (FS 70622) 78

Clark Co. Salmon F. Warm Sp. P.S. 6800 ft.
4-10 ft. Mink 64 (FS 56026) 78

Kootenai? Coeur d'Alene Mtns. Leberg 1645, 4400 ft. (FS 1)
Clark Co. Spenser " Trust 697

Lemhi Co. Salmon F. Williams Cr. 5000 ft.
Challis F. Warm Cr. P.S. 5500 ft.
Schulze 78. (FS 6141) 78

Digitized by Hunt Institute for Botanical Documentation

Oreida Co. Cooke F. Malad 5000 ft.
Standing 39 (FS 44324) 78

Shoshone Co. St. Joe F. 3500 ft.
White 47, 48 (FS 70620-21) 78

Check for USN

Salix Bebbiana var. persectata (Pryor) Schur Idaho.

Bonnerville Co. Swan Valley, Davis 230, 230A (CRB)

Bennett Co. St. Johns 2700 ft. Epling 8016

Custer Co. Little Lost R. 6500 ft. Christ 9864, 9867 (CRB) (CRB)

Bonner Co. E. of Priest Lake, Pryor 6621 (CRB WSB)

Fremont Co. Henrys Lake, Christ 5799 (CRB)

^{Mont}
Granite Co. Philipsburg Hitchcock + Muhlert 9143 ^{Mont}
chest in my list for dist. ana

Latah Co. Grassy meadow along creek, 4 mi SE of Moscow,
Jerome + Munson + L.A. Dillon, May 17, 1935 (CRB, WSB)
(as *S. caudata*). no. no.

Digitized by ^{in Moscow, A. Constantine in 1955}
Munson, Christ 4732 (CRB) Botanical Documentation

Bonne Co. Banks Davis 92 (CRB)

Lemhi Co. Salmon Christ 5890 (CRB)
~~Birch Lake, Davis 1146~~

Idaho Co. Red R. R.S. Davis 3307 (CRB)

Shoshone Co. Cour d'Alene Mts. Christ 4318 (CRB)
Clarkia 3000 ft., Epling 8325

Drepps Christ 5373 (CRB) (not from list)
Teton Co. Victor Christ 5131 (CRB)
Teton " 5437 (CRB, not from list)

Valley Co. Lake Fork in McCall, Christ 9634 (CRB)
~~Payette Lake, Davis 908 (CRB)~~

S. Sconleriana var. coetanea Ball ^{Stark}

Adams Co. 7 mi. E of Starkey, Oregon, alt. 1200 (CRB)

~~Bennett Co. St. Joe, Baker~~ Christ 5032
Wah? Evergreen Davis 784

Clearwater Co. Weippe, Christ 7412 (CRB)
(det. as var. thompsonii)

Digitized by Hunt Institute for Botanical Documentation
Lewis Co. Winchester, Christ 7605 (CRB)

Valley Co. Payette R. Meyer 1472 (CRB) 905, 906
" " Davis 905, 906 (inked)

Adm. Co., Evergreen

Davis 784 (intd.)

Salix Sconleriana var. costanea Idaho

Bernward C. Plummer, Christ 6342 ^{OK in CRB} ^{On wrong?}
St Joe, Idaho, 5032 (CRB)

Idaho Co Clark Fork of Sheep Creek, Snake River
Canyon, elev. 3506 ft., Jacqueline
Packard, 577, May 13, 1939. (frt. elevs) WSC

Digitized by Hunt Institute for Botanical Documentation

Naz Perce Co about Lake Waha, ^{3161 (USN)} ^(USN) ^{OK}
Hellids) 3352, alt
2500-3000 ft. (as S. Nutt. brachyotocypis) WSC
July 2, 1896.

~~to a tree~~ Christ 4213 (CRB)
~~Somewhat, that S. Nutt. 237 (USN 244) OK~~

~~Juin Fork B. Shoshone RS, Lewis 614~~

Valley Co Shrub 10-12 ft. high, in moist coniferous woods ^{WSC}
along west side of Payette Lake, F.S. Meyer
1472, May 29, 1938. (CRB)

Salix Scouleriana var Thompsoni Idaho

Coeur d'Alene, Priest 493 (WS)

Bonewah Co. open woods, Alder Creek, Is N. Jones, WSC
496, May 16, 1926

Clearwater Co. 11 mi E Pierce, Christ 15389
~~Use page 7412 (WS)~~
~~det. to this in 1926 & 1927~~

Idaho Co. 25 mi E Pierce, 5500 ft Christ 12030 (WS)
Saw Devils Mts, 7000 ft " 12603 (WS)
Red River Ranger Sta. Davis 3361 (WS)

Kootenai Co. Turner Creek, Lake Coeur d'Alene, WSC
St. John et al 4188, Apr. 25, 1926.

Lemhi Co. Long Tom Mt Davis 1456, 1483
(WS)

Valley Co. So Fork Salmon R. 3000 ft Davis 2642
(WS)

Salix Scouleriana Barr. Idaho

Coolin, Priest Lake, Paper 6625 (CRB WSA)
Bonneville Co. Na Clats. Christ 3676, 3677, 3678, 3679 (see 3673, 74, 75, 77)

Pack P. Davis 3841, 3858 (CRB WSA)
2500-4000 ft. Upper Priest Spring 7301, 7325, 7422

Kanabekau N.F., 2400 ft. W. White 4 (fs. 69179) 73

Colburn, Christ 3672 (CRB)
Lakeriver Egginton 8887 (P. Ind.)

Bingham Co. Jail Hall, Pray, Davis —, June, 1935. WSA

Basinville Co. Pocitello, Jack 1133 (USN)

Coeur d'Alene River 494 (USN)
500, 506, 503

Borndam Co. Bonners Ferry Christ 3682 (CRB)

Elmore Co. Pine ^{6500 ft} Hickcock Muhlert 8715 (CRB)

Digitized by Hunt Institute for Botanical Documentation

Kootenai Co. Carlin Bay Lake Coeur d'Alene, St. John's

4225, Apr. 25, 1926. 4288 (both CRB)
Jernigan, Lake, E of Coeur d'Alene, Christ 15086 WSA

Latah Co. Cumrine Canyon, Hstana Hills, R.K. Beattie

4022, June 4, 1911. WSA

No. 10000, Wilson 986

Thaluna Hills Spring & Hawk 9129, 9130, 9157, 9157 (CRB)

Bonneville Co. Lower Priest Lake, Paper 6636, 6646, 6647 (see WSA)
6640 - chain in lake
6653 (WSA)

Head of Priest Lake Paper 6623 (WSA)
Sandpoint " 6679 (WSA)

Shoshone Co. Dry hillside in cut burned area, abt. 4 mi. SW of Clarkia, C. Wilson 384. 8/2/41. WSA

14 mi NW of Coeur d'Alene, R.S. Christ 17089

St. Joe for White 34 (fs 70636) fs

Kia track, Pinetree in Henderson — USN

S. Scouleriana white 283 (81734) 75
 Clearwater Co. ^{Pompahtu RS CR} white 28 (75 8886) 75
 (Bunkahou), Ch. for, Lumsden 123 (75 38627) 75
 N. F. U. R. " " " 124 (" 38628) "

Nez. Terce Co. Waha Christ 4213

Owyhee Co.

Bonner Co. ^{Forest R. Leibish 2842 (USN)}
 Sandpoint, Cammel 1084 21, 22 (CRB)
 " " ^{OK Ball 2085 (CRB) (USN)}
 " " ^{maguire 5293}
 Sawtooth Natl. For. Deer Cr. Washit
 Snyder, ^{Trask 2809 (CRB)}
^{Epstein 9748 (USN)}

Kootenai Co. ^{Semler 1887 (CRB)}

Latah Co. ^{Moose 15 (USN)}
 St. Joseph, ^{1906 (CRB)}

Shoshone Co, Clarkia 3000 ft. E. 8175, 8177

Teton Co. Marse Co. Christ 5233 (CRB)

Valley Co. Payette Natl. For. 76 2 (CRB WSC)
 N. B. Payette R. Wilson 810 h
 Payette R. " 1051

Washington Co. Spring Cr. Davis 2220 (CRB WSC)

S. Saoukera

Sa

Benewah Co. St Joe F. St Marks, 3400 ft
White 54 (206) (FS 70638) FS
" 71227 "

Bonner Co. Kanihou F. 2400 ft
White 4 (FS 69177) FS
" 1934-81 (FS 71215) "

Kanston F. Drum R. Sp S. 2300 ft.
Jar. 121 (FS 10708) FS
118 (" 10706) "
123 (" 10702) "

Digitized by Hunt Institute for Botanical Documentation

Benewah Co. Canby F. 2500 ft
Lumsden 123 (FS 38627) FS
to JK Co. R. 2500 ft
Lumsden 124 (FS 38628) FS
Benewah Co. 2000 ft
CR White 25 (FS 70606) FS
White 3500 ft
White 280 (FS 81734) FS

Franklin Co. Canby F. 7800 ft
Lumsden 1962 (FS 169) FS

S. Sanderiana Bar.

S. Sanderiana Bar.
Neg. Pers. F. 4000 ft.
Segg 5 (JS 39 409) JS
S. Sanderiana Bar.
White 1934-8 (JS 71233) JS

S. Sanderiana Bar.
Rudolf C. Bozille, 3000 ft.
White 40 (JS 70637) JS

Digitized by Hunt Institute for Botanical Documentation

S. Sanderiana Bar.
White 39 (JS 70636) JS.

S. Sanderiana Bar.
Targher F. White 77 (JS 22752) JS
79 (JS 22754) JS

28

S. planifolia Ph.Idaho

~~Clearwater~~ Clearwater For., Crater Meadows,
 Co. 6000 ft. Sutton 85 (FS. 38629) CRB, 75.
 (as *S. chlorophylla*)

~~Custer Co. n Stanley 5000 ft. Christ 9671~~

Digitized by Hunt Institute for Botanical Documentation

~~Valley Co. Warm Lake, 27 mi E of Cascade, 4500 ft.
 Christ 9730, 9731 (CRB)~~

check these

S. planifolia var. Nelsonii Ball Det.

~~Guelin Co. Livingston Mine, Davis 688~~

Fremont Co. Henry's Lake. HJ Rust 10180

Salix discolor var. prinoides Idaho
(P.H.) Anders

check if spec

southern
west to Wyo, Mont, Ida & B.C.

Salmon R. 6 mi
Idaho Co. So. of Peggins, 1200 ft., W.W. White 1934.

Digitized by Hunt Institute for Botanical Documentation

16655
5450
219.05

Valley Co. Shrub about 5 ft. tall, in open places on gran-
ite outcrops along west side of Payette Lake, WSC
J. S. Meyer 1473, May 29, 1938. (CRB)

26 Salix Coulteri And

Idaho

Bonner Co.: north end of Priest Lake, W. P. 11/10/16 (C.R.B. W.C.B.)
Aug. 28, 1916. (Gr. less prob than wood)
Clark's Fk., Lightning Cr. Christ. 4819 (C.R.B.)
Sandpoint " 12440 (C.R.B.)
Priest R. 2700 ft Epling 7935 (C.R.B.)
5 ft. Priest R. n. Coolin " 6614 (C.R.B.) (W.S.C.)
Coolin, foot of Priest Lake, " 6642 (C.R.B.) (W.S.C.)
Ed of Lower Lake, Priest Lake, Epling 6638, 6632 (C.R.B.)
6635, 6638, 6644 (W. x bella),
6645, 1000 (C.R.B.) all W.S.C.

Clearwater Co. Pierce, Christ 7408 (as *S. columbiana*) (C.R.B.)

Idaho? C

White Sand Cr., nr Cabin Cr. - Lochsa Drainage, 3800 ft.
Kilkwood 2037 (W. Mont.)

Shoshone Co. Wallace, Placer Cr. Epling 8129,
8138 (in pt.)
8139 (in pt.)

None in USN or FS

2) Salix sitchensis Samson Idaho

Kaniksu 23, 2400 ft. White 3 (FS 69174) WSC
 Hd of Lower Lake, Priest Lake, Paper 6652 WSC
 Coolin, foot of Priest Lake, Paper 6616a WSC
 Bonner Co. Sand Cr. Sandpoint Idaho, Christ 15097 (CRB)
 Upper Priest R, 3000 ft. Ephing 7338, 7414 (CRB)
 7483, 7574, 7582
 Clearwater Co. 8 mi E of Picher Christ 7402, 7403, ~~7408~~ (CRB)

Idaho? Selway Fm., Moore Cr Trail at Maple Creek, 2750 ft.
 Kirkwood & Selway 1702 (Ward)
 Idaho Co. Lowell, Rocker R. Christward 12075 (CRB)

Kootenai Co. Carlin Bay, Lake Coeur d'Alene, St John
 et al (4) 4235, April 25, 1926. WSC
 Fernan Creek, Christ 19896 (CRB)
 Fernan Cr., E of Coeur d'Alene, 15090

Orogrande Cr. Clearwater Natl Fm 3500 ft.
 Ephing & Harok 9323 (CRB)

Shoshone Co. St. Marias R, below Clarkia, Christ ^{ward} 7637 (CRB)
 N. Fork Clearwater R, Twin Cr. et al 8749 (CRB)
 St Joe R, 8 mi N of Calder " 10946 (CRB)
 31 mi E Clarkia, " 17993

None in WSN

S. pitchman's Idm

Clearwater Co White 282 m 1935 (7581795)
 " " " 26 " 1933 " 70607
 Kootenai " " 30 m 1934 (71197)
 " " 24 " 71194
 " " 28 " 71195
 " Campbell's Creek 15090 (C.R.)
 Bonner Co " 7 " 1926 (7369178)
 " " Sand Creek 15097 (C.R.)
 Shoshone Co 31 m S. of Clarkia, Idaho 16993 (C.R.)

45X S. Drummondiana Bass. Hake
~~var. bella (Piper) Ball~~

~~var. subsericea (Piper) Ball~~ 45X

In addition to those on other sheet
all presumed

Blaine Cr. Martin Antelope Mtn 7500 ft
Macbr. Payson 3058 (USN)

Bear Creek, below Parker Mtn 6000 ft
Macbr. Payson 3299 (USN)
Hake 1935

Digitized by Hunt Institute for Botanical Documentation

— Hot Springs, Henderson 3156 (USN)
July 2

— Payette River at Lake Henderson 3157 (USN)
July 3

— source of Wood R. 7200 ft
H. Henderson 3606 (USN) July 26
(the same for nearest live bull)

24 S. Lemmonii Bebb.

Idaho

Rhine Co. Alturas I, 7100ft. Cronquist 2582

Antelope Mts, near Martin, 7000ft
(Mastbruder + Payson 3064 MSN)
(very young prostrate)

Fremont Co. Yellowstone Trail, NE. part of S. Bebb 2179
2181 (CRB)

? cited Payette Co. for S. Lemmonii

Digitized by Hunt Institute for Botanical Documentation

Valley Payette Lake, NE Jones July 24, 1899 (CRB)

Owyhee Co. In gulch ^{South} of Silver Bldg Christ Hunt
8055 8060, 8061 (CRB)

None in FC

S. subcaerulea Tyeer Ida

Adams Co. Wisser R. 8 mi NW Meador Chris 9232 ^{m 1938} CFB

Bonanza Co. Santa Cr. ^{m 1937} Christ 7665 ^{CFB}
~~no of similar~~ 1941 "12414 ^{CFB}

Bonner Co. Upper Priest R. 3000 ft. Epling 8611

Custer Co. Hole Cr. 2.5 mi NW Stanley 6400 ft. Cronquist 2819
 Loop Pass Rd. Mayfield Cr. Christ 15696 (CFB)

Sawtooth Nat. For. Big Smoky R. S. Woods & Tidestrom
^{m 1909} 2626 (CFB)

Franklin Co. Hwy 16541 Christ 16222A (CFB)

* Fremont Co. Yellowstone Trail ^{m 1923, 2178} 2179 ^{CFB USH}

Idaho Co. Selway R. ^{m 1944} 8769 ^{CFB USH}
 Bitterroot N. 1st Carson Camp, 5500 ft. White 368
 (7594140) FS

Lemhi Co. W of Leadore, Hitchcock + Muhlberg 9278 ^{CFB m 1944}

Clearwater For. foot of French Lake, 5900 ft. Kirkwood 1897
~~French Lake~~ ^{m 1926} 6000 ft. Epl. N 9635 ^{CFB}
 " " Creek, Clearwater For. 5000 " " 9467 "

Shoshone Co. Coeur d'Alene N.E. Meador R. S. 3000 ft. White 375

Lemhi Co. Hillman, SE of Joes R. S. Christ 17063 (CFB)

30 mi. N. of Salmon, ^{original} Cont. Hwy. 2000 ft. Magerum 5317 ^{CFB}
 Nelson Pass m 1934

Idaho Co. Victor ^{hand} Christ 5132 ^{CFB m 1934}
 * Bald 2179 ^{m 1926} ark peculiar glabrate & lobed

22 S. desertorum (Rish.)
glaucaefolius and

U.S.M. L.F.

3603, Henderson, along Salmon R., near

Idaho or ? Redfish Lake July 30, 1895
Lemhi Cos? (as S. desertorum, in S. glaucaefolius (Cov.)
Joints light to dark, glabrous, (Faint!) No!
leaf small, stiff, glabrous or glabrate
(none in q.t., glabrous, or glaucous, or pedicellate orum)

Forest Serv.

~~Clark or Bennett~~

Bonnaville Co. It is a small shrub of low

S. glauca glabrous 10 in. high. Longish for
Big Basin west of Waterfall Canon,
Reahome 2.2 R 3 (in 1929) (S 63229)

S. glaucaefolius

Custer Co

7601 M.

Custer Co. Forks of Pahsimero
Arthur M. Custer 18 in 1928

= var. pseudolappaceum (S 59892)

S. pseudolappaceum

Noe

RE. 4/42, 6310

23 S. candida Flugger

Sidaho

Fremont Co. ^{marsh.} Henry's Lake Christ 5504 ~~MS~~

None in USN

Digitized by Hunt Institute for Botanical Documentation

~~Look up JS~~ none in JS

S brachycarpa Nutt Alaska

^(Basinger)
Custer Co., ^{Little Fort R.}, 6500 ft., Christ 9868 (CAG)

Digitized by Hun Institute for Botanical Documentation
Custer Co. ^{7200 ft.} Lemhi Pass, Wild Horse P.S., Johnson 95
(7556519) JS

Idaho Co. ^(CAG) Driggs ^(CAG) 5373, ^(CAG) 5382
Settonia ^(CAG) " 5437

None USN
Done - F.S.

D. brachyocarpa Nutt var. Sansoni Ball ^{Delink}

Caribou Co. Soda Springs, Ben R. Chitt 8977 ^{Chitt}

" " " " Chitt 16109, 16119 ^{Chitt}
" " " " Darn 825 ^{Darn WSC}
" " " " Campbell 120 ^{Campbell 76950}

Custer Co. N side Lead R. Mts 8000 ft.
Hitchcock & Grubb 11133 ^{Hitchcock}

Custer Co Lead R Mts 8000 ft. Henderson
4072 m 1895 (USN)

USN
✓
Rosen in F.S.

Salix pedicellaris var. hypoglauca Fern.

Bonner Co. Mouth of Thoroughfare, Priest Lake
C. V. Piper 3720, Aug., 1901 (W. S. C.)
Priest Lake, Piper 3, Aug. 28, 1916 (W. S. C.)
(blobs of 3720 on seasonal sheet
 $4 \times 2, 5 \times 2, 2, 5 \times 2, 3(2), + 5.5 \times 2, 2.)$
 $2.5 \times 2,$

None in W. S. N.

S. nivalis Hooker

Idaho

Custer Co. Livingston Mine

Davis 666 (188)

N. side of mts, 10,000 ft. H + M 11223 (1912)

~~X. Sec. VII. 100 ft.~~

~~11300~~

~~11094~~

None in N.S.V.

Laramie Co. Liberty Mtn. west of Laramie

Altitude 14545 (1912)

Digitized by Hunt Institute for Botanical Documentation

S. rivata & *Saxenostemma* (Pydell) Schen ^{Isatis}

Blaine Co. Mt Hyndman, ^{Switz Range} 9000 ft. Shookborn
A 13632 (CRP) 13634 (W.S.M.)
CRP

^{So. Fk Salmon R.}
Custer Co. Castle Peak, 10,400 ft. W.M. 10581 (CRP)
Mt. Borah, 11,500 ft. " 10932 (CRP)
A Last Rmto.

Last Rmto, E. Fk. Pahsimeroi R.
10300 ft. Hitchcock & Muhlack
11094 A (CRP).

Digitized by Hunt Institute for Botanical Documentation

S. rivata Ph. and
var. *erecta* Ando.

None in CRP or U.S.N.

S. polaris var. *Schuylerensis* Dandy

Custer Co. South Mts 10300 ft. Hitchcock
+ Smith 11094B

(probably wrong det = ? *

11094A was *S. n. saximontana*
and B probably reidentified as same.

* (Yes, acc. to my letter to Hitchcock, after

he sent me all of his material of
No 11094, discolored leaves were
found similar to 11094B but study
showed them to belong to

S. rupestris var. *saximontana*
same as 11094a

S. cascadenis Chff Idaho
Colo and Utah northward to Can
but none in CRD, or U.S.N.
or in F.S., from Idaho

S. Dodgeana Rydberg

None in CRD or U.S.N.
None in F.S.

1 (*S. petrophila* Rydb.) Idaho

Blaine Co., Sawtooth Mts., Big Lost Lake. 8000 ft.
" " Mt. Ketchikan. 13572 (CRB), VSN
" " " 13606 (CRB)
9000 ft.

Custer Co. Livingston Mine, Doron 667 (CRB)

S. anglicum var. *antiplasma* Schn.

Mt. Borah, Lost P. Mts., Hitchcock & Mueller
* not from list 11040 (CRB)

Digitized by Hunt Institute for Botanical Documentation

I have all cited in my ~~*Spectrophotograph*~~
paper on *S. anglicum* + var.

S. anglicum var. asiaticum Schum. ^{Idaho}

Blaine Co, Bushy Fork, Sawtooth Mts 8000 ft.
Thompson 13582 (CRB)

Custer Co. Mt. Hyndman, Sawtooth Mts. 1715 (CRB)
N. side of R. Mts. 10000 ft. ^{range} 11220
W. Fork of Snake R. Hitchcock & Muhlberg (CRB)

These cited among 5 petrophila papers

None in USN

Digitized by Hunt Institute for Botanical Documentation

No S. anglicum from Idaho
in CRB or USN

WILLOW SPECIES AND VARIETIES PRESUMABLY IN IDAHO FLORA

Listed by Carleton R. Ball, Feb. 23, 1945

dupl with letters

Copy sent Davis

Pr. 11/21/45

No.	Name	Ida.	Nev.	PCS
2	1. <i>Salix caudata</i> (Nuttall) Heller	X	X	X
	var. <i>Bryantiana</i> Ball & Bracelin (Holsche 8278)	X		
	var. <i>parvifolia</i> Ball	X		X
1	2. <i>S. lasiandra</i> Benth	X	X	X
	var. <i>Abramsi</i> Ball	X	X	X
	var. <i>lanceifolia</i> (Andersson) Bebb	X	X	X
	var. <i>macrophylla</i> Andersson			
3.	3. <i>S. amygdaloides</i> Andersson	X	X	X
4	4. <i>S. argophylla</i> Nuttall	X		X
5	5. <i>S. exigua</i> Nuttall	X	X	X
	var. <i>lutescens</i> (Rydberg) Schneider	X		
	var. <i>nevadensis</i> (Watson) Schneider	-	X	X
	var. <i>stenophylla</i> (Rydberg) Schneider	-	X	-
	var. <i>virens</i> (Rowlee) Schneider	-	-	?
6	6. <i>S. melanopsis</i> Nuttall	X	X	X
	var. <i>Bolanderiana</i> (Rowlee) Schneider	X	X	X
	var. <i>tenerrima</i> (Henderson) Ball	X	-	-
9	7. <i>S. Farrae</i> Ball (Hitchcock 11172)	-	-	X
8	8. <i>S. ligulifolia</i> Ball (or as var.)	X	-	X
7	9. <i>S. lutea</i> Nuttall	X	X	X
	var. <i>famelica</i> Ball			
	var. <i>platyphylla</i> Ball	X	-	X
	var. <i>Watsoni</i> (Bebb) Jepson (Hitchcock 8991)	X	X	X
8	10. <i>S. mackenziana</i> (Hooker) Barratt	X	-	X
11	11. <i>S. monochroma</i> Ball	X	X	X
10	12. <i>S. pseudocordata</i> (Andersson) Rydberg	X	X	X
	var. <i>equalis</i> Andersson (Chr. 16218)	X		
12	13. <i>S. lasiolepis</i> Benth	X	X	X
	var. <i>Sandbergii</i> (Rydberg) Ball (Holsch)	X	X	-
	var. (southern narrow-leaf)		X	
13	14. <i>S. Wolfii</i> Bebb (Davis, 266, Thompson 14152)	X	-	-
	var. <i>idahoensis</i> Ball	X	X	X
14	15. <i>S. Barclayi</i> Andersson	X	-	X
	var. <i>angustifolia</i> Andersson			
	var. <i>hebecarpa</i> Andersson			
	var. <i>rotundifolia</i> Andersson			

15	16. <i>S. cernuata</i> Bebb var. <i>denudata</i> Bebb var. <i>puberula</i> Bebb var. <i>sericea</i> Bebb.	(Chas 15698)	X	-	X
			X	X	X
	17. <i>S. Eastwoodiae</i> Chll.	(Davis,)	X	X	X
16	18. <i>S. pseudomonticola</i> Ball var. <i>pedophylla</i> (Rydberg) Ball		-	-	X
	19. <i>S. monticola</i>		-	-	-
	19. <i>S. Barrattiana</i> Hooker var. <i>angustifolia</i> Andersson (S. Albertana)		-	-	-
17	20. <i>S. Tweedyi</i> (Bebb) Ball	(Davis 1702; Johnson 83; Thompson 14142)	X	-	-
18	21a. <i>S. pedicellaris</i> var. <i>hypoglausa</i> Fernald	(Piper 3720; Su 6/10/19)	X	-	X
19	22. <i>S. nivalis</i> Hooker var. <i>saximontana</i> (Rydberg) Schneider	(Davis, 666) (Hutchinson 10922)	X	-	X
	23. <i>S. vestita</i> Pursh var. <i>erecta</i> Andersson		-	-	X
	24. <i>S. cascadiensis</i> Chll. (S. tenera)		-	-	X
	25. <i>S. Dodgeana</i> Rydberg OVALIFOLIAE		-	-	-
20	26. <i>S. anglorum</i> Chamisso v. <i>antiplasta</i> S. & G. var. <i>araioclada</i> Schneider var. <i>kophophylla</i> "	(Davis 1715, Hutch. Thompson 13015, 13042)	X	-	-
	27. <i>S. arotica</i> Pallas		-	-	-
	28. <i>S. petrophila</i> Rydberg var. <i>caespitosa</i> (Kennedy) Schneider		X	X	X
			-	X	X
22	29. <i>S. "glaucops"</i> Andersson	= desert	X	-	-
21	30. <i>S. brachycarpa</i> Nuttall var. <i>Sansoni</i> Ball		X	-	-
	31. <i>S. cresteria</i> Schneider	(Davis 1708) (Hutchinson 11230) (Thompson 13015, 13042)	X	X	X
ARGENTRAE					
a	32. <i>S. bella</i> Piper		X	-	X
25	33. <i>S. Drummondiana</i> Barratt	(Idaho cited)	X	-	X
24	34. <i>S. Lemmonii</i> Bebb	(U. T. Sp. 13)	X	X	X
	35. <i>S. new</i> (?) species related to <i>S. Lemmonii</i>		X	-	-
b	36. <i>S. subcaerulea</i> Piper		X	X	X

PLANIFOLIAE

28	37. <i>S. planifolia</i> Pursh		X	-	X
	var. <i>monica</i> (Bebb) S. Schneider	Down 1687	X	X	X
	var. <i>Nelsoni</i> Ball	(Davis, 688)	X	-	-
—	38. <i>S. pennata</i> Ball		-	-	X

CANDIDAE

23	39. <i>S. Candida</i> Fluegge		X	-	--
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SITCHENSES

26	40. <i>S. Coulteri</i> Andersson		X	-	X
—	41. <i>S. Jepsoni</i> Schneider		-	X	X
27	42. <i>S. sitchensis</i> Sanson		X	-	X

DISCOLORES

292	43. <i>S. discolor</i> Muhl. var. <i>prinoidea</i> (Pursh) Andersson		-	-	-
30	44. <i>S. Seouleriana</i> Barratt		X	X	X
	var. <i>coetanea</i> Ball		X	X	-
	var. <i>Thompsoni</i> Ball		X	-	-

ROSTRATAE

31	45. <i>S. Bebbiana</i> Sargent		X	X	X
	var. <i>perrostrata</i> (Rydberg) Schneider		X	-	?
32	46. <i>S. Ceyloriana</i> Andersson		X	X	X
	var. <i>argentea</i> Bebb		X	X	X
	var. <i>melaina</i> Henry	(Christ 5561, 15446)	X	-	X

OTHER POSSIBILITIES

- S. prolixa* Andersson
S. myrtillifolia Andersson

Idaho Willows

No Species

U. W.

1	2	3	1	0
2	2	3	2	0
3	0	3	3	0
4	0	3	4	0
5	0	3	5	0
6	0	3	6	0
7	0	3	7	2
8	1	3	8	0
9	1	3	9	0
10	1	3	10	0
11	1	4	11	0
12	1	4	12	0
13	1	4	13	0
14	1	4	14	0
15	1	4	15	2
16	1	4	16	1
17	0	4	17	2
18	0	4	18	2
19	0	4	19	2
20	0	4	20	2
21	0	4	21	2
22	1	4	22	2
23	0	4	23	2
24	0	4	24	2
25	0	4	25	2
26	0	4	26	2
27	0	4	27	2
28	1	4	28	2
29	1	4	29	2
30	1	4	30	2
31	1	4	31	2

Idaho Willows

Done for

No.	Species and Synonyms	Ch.	For. Serv.	PI	USN
2.	<i>S. scandata</i> (Nutt.) Heller	✓	✓		✓
a	var. <i>Bryantiana</i> Ball & Gray	✓	✓		✓
b.	var. <i>parvifolia</i> Ball	✓	0		✓
1.	<i>S. lasiandra</i> Benth	✓	✓		00
a	var. <i>Abramsi</i> Ball	✓	✓		00
b	var. <i>lanceifolia</i> (And.) Bebb	✓	✓		00
3	<i>S. amygdaloides</i> Andersson	✓	✓		✓
4.	<i>S. argophylla</i> Nuttall	✓	✓		✓
5.	<i>S. exigua</i> Nuttall	✓	✓		✓
a	var. <i>nevadensis</i> (Watson) Schum	0	0		✓
b.	var. <i>stenophylla</i> (Rydb.) "	✓	0		✓
6	<i>S. melanopsis</i> Nutt.	✓	✓		✓
a	var. <i>Polanderiana</i> (Roul.) Schum	✓	✓		00
b	var. <i>tenerima</i> (Hend.) Ball	✓	0		00
9	<i>S. Farrae</i> Ball	✓	0		0
7	<i>S. lutea</i> Nutt.	✓	✓		✓
a	var. <i>platyphylla</i> Ball	✓	✓		✓
b	var. <i>Watsoni</i> (Bebb) Jepson	✓	0		00
8	<i>S. mackenziana</i> (Hook.) Barr.	✓	✓		✓
11	<i>S. monochroma</i> Ball	✓	✓		✓
10	<i>S. pseudocordata</i> (And.) Rydb.	✓	0		✓
a	var. <i>equalis</i> Andersson	✓	1		00
	(<i>S. pseudomysrostrata</i>)		1		00
	(<i>S. " v. equalis</i>)		1		00

2
Idaho Willows, Done at -

No.	Species and synonyms	ORB	For Soc	PI	USN
12.	<i>S. lasiolepis</i> Benth.	✓	0		✓
a	var. <i>Sandbergii</i> (Prydb.) Ball (<i>S. Sandbergii</i>)	✓	0		✓
13.	<i>S. Wolfii</i> Bebb.	✓	0		0
a	var. <i>Idahoensis</i>	✓	✓		✓
14	<i>S. Barclayi</i> Andersson	✓	✓		✓
15	<i>S. commutata</i> Bebb	✓	0		✓
a	var. <i>denuolata</i> Bebb	✓	0		✓
b.	var. <i>puberula</i> Bebb	✓	0		✓
16	<i>S. pseudomonticola</i> Ball	✓	0		✓
a	var. <i>padophylla</i> (Prydb.) Ball	✓	0		✓
17	<i>S. Tweedii</i> (Bebb.) Ball	✓	✓		0
18a	<i>S. pedicellaris</i> var. <i>hypoglauca</i> ^{Fern.}	✓	0		0
19	<i>S. nivalis</i> Hooker	✓	0		0
a	var. <i>saximontana</i> (Prydb.) (<i>S. saximontana</i>) Schm.	✓	0		✓
20a	<i>S. anglorum</i> Cham. var. <i>anti-</i> <i>plastica</i> Schm. (<i>S. petrophila</i> (Prydb.)	✓			✓
b.	var. <i>araioclada</i> Schm.	✓			0

Idaho Willows ³ Done at -

No	Species and synonyms	CRB	For. Serv	PI	USN
21	<i>S. brachycarpa</i>	✓	✓		0
a	var. <i>Sansonii</i>	✓	0		✓
22	<i>S. desertorum</i> Rich (<i>S. glauca</i>) <i>S. pseudalapponum</i> ; <i>glauca</i> pp	✓	✓		✓
23	<i>S. candida</i> Fl.	✓	0		0
24	<i>S. Lemmonii</i> Bebb	✓	0		✓
25	<i>S. Drummondiana</i> Barr.	✓	✓		0
a	var. <i>bella</i> (Piper.)	✓	✓		✓
b	var. <i>subcoerulea</i> (Piper.)	✓	✓		✓
26	<i>S. Coulteri</i> Anders.	✓	0		0
27	<i>S. sitchensis</i> Sanson	✓	✓		0
28	<i>S. planifolia</i> Pursh (<i>S. chlorop</i>) var. <i>monica</i> (Bebb) Schuy var. <i>Nelsonii</i> (Ball)	✓ ✓ ✓	Schuy 0 0 (Stals)		0 0 0
a					
b					
29a	<i>S. discolor</i> , var. <i>pruinoides</i> (R.) And.	✓	0		0
30	<i>S. Scouleriana</i> Barr.	✓	✓		✓
a	var. <i>vestanea</i> Ball	✓	0		✓
b	var. <i>Thompsonii</i> Ball	✓	0		✓
31	<i>S. Bebbiana</i> Sarg.	✓	✓		?
a	var. <i>perstrata</i> (Rydb.) Schuy	✓	✓		?
32	<i>S. Geyeriana</i> Anders.	✓ pot	✓		?
	var. <i>argentea</i> Bebb	✓	✓		?
	var. <i>melina</i> Henry	✓	0		?

Hairy ness of organs

Species and varieties	Stems		Buds scales	petals	Leaves	
	young	1-2 yr			above	below
12 <i>S. lasiolepis</i> a v. <i>Sandbergii</i>	p-gl-als	do			p-gl-als	?
	pub:	pub.			p-hm	p-dense
13 <i>S. Walp.</i> a var. <i>schubertii</i>	?	?	?	?	ser	ser
	?	?	?	?	ser	ser
18a <i>S. ped. hypoglance</i>	glabrous		throught		ent	
19 <i>S. modica</i> a v. <i>rossmontana</i>					sometime long	
					well while imbric	
20a <i>S. ang. antiphrasa</i> b v. <i>aristoclas</i>					as	above
21 <i>S. brachyrrhiza</i> a v. <i>Samsonii</i>					pub	pub
22 <i>S. desertorum</i>	tom	tom	tom	tom		
23 <i>S. candida</i>	tom	hm	tom	tom	th tom	dm: tom
24 <i>S. Samsonii</i>	th-pub-als	als			young pubescent	glabrous
25 <i>S. Drummondiana</i> a v. <i>bella</i> b v. <i>subcordata</i>	ps-pr	als	pub-als	"	pubesc	pub-als
					silu tom	
26 <i>S. Coulteri</i>	den tom		pub		pub	also pub
27 <i>S. Hitchcockii</i>	pubo pubo	glab	pub		pub-als	wh tom
28 <i>S. planifolia</i> a <i>monica</i> b <i>Samsonii</i>	gl	gl	gl	gl	pub young	also pub
	"	"	"	"	gl	young also p.
29a <i>S. discolor</i> form					"	sl
30 <i>S. Coulteriana</i> a v. <i>coetanea</i> b v. <i>Thompsonii</i>	all young pub	acc	thorny	pubescent		as
	den pub glab	pub	pub	pub-als	gr pub	
31 <i>S. Biddiana</i> a v. <i>peruviana</i>	glab glab					
	pub	als	pub	als	pub	th pub
32 <i>S. densiflora</i> a v. <i>desertorum</i> b v. <i>millam</i>	glab	glab	pub	pub	pub	pub
	th-als	pub	pub	pub	pub	pub
	als	als	pub	pub	pub	pub

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6 March, 1950.

Gentlemen:

For the past 50 years I have handled the identification of the very useful willows (genus Salix) for Federal and State agencies and private persons in this country and Canada.

During that time I have prepared the entire manuscript on willows for the authors of various State and regional floras in the U.S. and Canada. This is done without charge, as a contribution to knowledge.

In some cases, that portion of the text appears under my name as author. In other cases, a footnote at the bottom of the first page of that portion states that it was contributed by me.

Recently, I have prepared a manuscript covering the willows of Idaho for inclusion in a Flora of Idaho prepared by a Professor of Botany. Still more recently, an Idaho Professor of Forestry asked me for a treatment of willows for a book on the Woody Plants of Idaho which he is preparing. I sent him a copy of the same manuscript which I had furnished the Botanist.

Both these Professors are employees of a State educational institution. Both books are to be published privately and therefore presumably for sale. I did not know this when I furnished the manuscripts.

Now the Professor of Forestry writes me that the Flora of Idaho by the Professor of Botany probably will be published this year, while the Forestry book on the Woody Plants of Idaho will not appear until later. The Forester wants to know if the copyright obtained on the Flora, by the Botanist, will prevent him (the Forester) from using my same manuscript in his book later.

If you can answer this question for me, it will be greatly appreciated. Will it make any difference whether my names appears at top of page as author, or at bottom of page in footnote, showing my contribution?

Appreciating your assistance, I am

Cordially yours,

Carleton R. Ball

P.S. My portion will be but a small part of the Flora, but naturally a larger part of the Woody Plants book.

Not yet found in Idaho

S. orestera Schneider. Sierra Willow. Mountain shrub, 1-3.5 m. tall; twigs stoutish, divaricate, leafy, younger yellowish-brown, usually densely pubescent, older purplish-brown and more or less glabrate; buds 5-9 mm. long, colored and clothed as the twigs; stipules small, lanceolate; pubescent; petioles 3-6 (8) mm. long, pubescent; leaves narrowly elliptical, elliptical-oblongate, or ^{rarely} elliptical-lanceolate, 3-7 (10) cm. long, 0.8-2 cm. wide, acute to acuminate at both ends, or sometimes obtuse at base, entire, glaucescent beneath, silvery pubescent on both sides, somewhat glabrate in age; ~~anastomosing~~ secondary veins at sharp angle to midrib; anthers coetaneous, stoutish, 1.5-5 cm. long, 1-1.5 cm. wide, on leafy peduncles 1-2 cm. long; scales oblong to oblong-obovate, 1- mm. long, acutish to rounded, blackish, silky on both sides; stamens 2, filaments hairy and free or united on lower third; capsules ovoid-rostrate, 7-8.5 mm. long, silky-pubescent; pedicels 0.5-1.5 mm. long, hairy; styles 0.8-1.2 mm. long, mostly entire, stigmas 0.5-0.7 mm. long, bifid or divided.

Sierra-Nevada and southern Cascade systems, outlying in Ruby Mts. of Nevada and Mt. Hyndman, Custer Co., Idaho, 9000-11,000 ft. elevation.

The Idaho spec is S. W. Wolfii Idahoensis B.S.P.