



Hunt Institute for Botanical Documentation
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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.

Spec.	ament.	peduncle	saprobe.	pedicel	style	stigma
10 rigida	2-5 cm	suber b. 3-10 mm	45-6	1-1.5	0.5	0.3
11 myrtillo	1-3	lb. 5-12 "	45-6.5	1-1.5	0.5-0.8-1	slt
12 pyropha	3-5 or 7	f. 2-8 mm 1-3 cm	7-9	2.5-3.5	0.3-0.5	slt
13 glaucoph	3-5 or 6	lf. 1 cm	6-8 or 9	15-3	1-1.5	0.5
14 cordata Mx	5-8	lf. 1-2.5 "	5-8	0.5-1	0.7-1.5	0.3-0.6
15 calicula	3-6 or 8	seasonally waxy	7-9	to 0.4	2-3	0.5-1
16 pedunculata	1-3	lf. 2-4 or 5	6-7 or 8	2-3.5	0.1-0.2	0.2
	scales glabrous		3.5-5	suberous	0.7-1.2	0.4-0.7
17 Z. chlorolepis	0.5-1.3 mm	lf. 0.5-1.2				
18 S. Benthamia	1-1.7 cm	lf. short	3-6 mm	reflex	0.5	0.2-0.4
	(scales & operculi pub.)					
19 Z. xura	1-3 or 4	0.5-2 cm	3-4 mm	0.2-0.4	0.7-1.2	0.3-0.5
	scales villous; anther coat-rub					
20 S. vestita	1.2-4 cm	inset 0.5-2	4-5 mm	suberous	shoulder or very slt	0.2-0.3

Name	Designation	Grade	Official Hdqrs.
4 Brown, Epps, Jr.	Jr. Engineer	P-1	Marianna, Ark.
10 Brown, Glen Elston	Jr. Agronomist	P-1	Watsonville, Calif.
1 Brown, Grover F.	Sr. Agronomist	P-5	Upper Darby, Pa.
3 Brown, H. Bates, Jr.	Jr. Soil Conserv.	P-1	Columbus, Ohio.
2 Brown, Hugh A.	Soil Conserv.	P-4	Spartanburg, S. C.
4 Brown, Irving	Jr. Soil Surveyor	P-1	Amarillo, Tex.
1 Brown, James D.	Jr. Administrative Assistant	CAF-7	Ozark, Alabama.
2 Brown, John Mitchell	Asst. Agron.	P-2	Washington, Ga.
2 Brown, Joseph E.	Jr. Admin. Asst.	CAF-7	Cartersville, Ga.
1 Brown, Leland D.	Jr. Admin. Asst.	CAF-7	Union, W. Va.
10 Brown, Lloyd N.	Assoc. Soil Conserv.	P-3	Berkeley, Calif.
4 Brown, Mark H.	Assoc. Soil Scientist	P-3	Fort Worth, Tex.
2 Brown, Nathan I.	Asst. Soil Surveyor	P-2	Oxford, Miss.
4 Brown, Noel A.	Jr. Range Examiner	P-1	Midland, Tex.
6 Brown, Ord K.	Jr. Agril. Engr.	P-1	Springfield, Colo.
1 Brown, Powell G.	Assoc. Soil Conserv.	P-3	Indiana, Pa.
2 Brown, Raiford F.	Assoc. Forester	P-3	New Albany, Miss.
5 Brown, Raymond S.	Asst. Agril. Engr.	P-2	Sparta, Ill.
4 Brown, R. Emmett	Jr. Admin. Asst.	CAF-7	Moscow, Ida.
5 Brown, Robert J. (ackson)	Assistant Engineer	P-2	Carbondale, Ill.
4 Brown, Robert L.	Asst. Forester	P-2	Warrenton, Ore.
2 Brown, Robert Wedford	Jr. Agril. Engr.	P-1	Vienna, Ga.
1 Brown, Wayne H.	Sr. Admin. Asst.	CAF-9	Upper Darby, Pa.
5 Brown, William H. Jr.	Jr. Agron.	P-1	Jacksonville, Ill.
2 Brown, Wm. H. Jr.	Jr. Agron.	P-1	Jacksonville, Ill.
2 Brown, William Howard	Jr. Agril. Engr.	P-1	DeKalb, Miss.
3 Brown, Woodrow M.	Asst. Agril. Engr.	P-2	High Point, N. C.
2 Browne, Thomas H.	Asst. Forester	P-2	Gainesville, Ga.
1 Browning, George M.	Soil Conserv.	P-4	Morgantown, W. Va.
4 Browning, Paul M.	Asst. Agril. Engineer	P-2	Dublin, Tex.
1 Bruce, Oscar C.	Prin. Soil Scientist	P-6	Upper Darby, Pa.
6 Bruce, Wallace L.	Assoc. Soil Tech.	P-3	Denver, Colo.
6 Bruce, Wm. M.	Jr. Agril. Engr.	P-1	Littleton, N. C.
3 Brune, Gunnar M.	Jr. Soil Tech.	P-1	Mt. Vernon, Ohio.
6 Bruner, James G.	Jr. Agron.	P-1	Wellington, Colo.
2 Brunger, Earl Howard	Jr. Soil Surveyor	P-1	Spartanburg, S. C.
3 Bruning, Uri F.	Soil Conserv.	P-4	Dayton, Ohio.
7 Brunkow, Ernest F.	Jr. Soil Surveyor	P-1	Lincoln, Neb.
4 Bryan, Cecil S.	Jr. Agril. Engr.	P-1	Waco, Tex.
6 Bryan, Ludwell Beach	Jr. Agril. Engr.	P-1	Ottawa, Kans.
4 Bryant, Allan E.	Asst. Soil Conserv.	P-2	Ft. Worth, Tex.
1 Bryant, Jay C. (Mr.)	Jr. Soil Technologist	P-1	Geneva, N. Y.
5 Bryant, John W.	Jr. Agril. Eng.	P-1	Decorah, Iowa.
1 Bryner, Clarence S.	Jr. Agron.	P-1	Glen Rock, Pa.
2 Buchanan, Joseph S. Jr.	Jr. Agril. Engr.	P-1	Canton, Miss.
2 Buchanan, Oscar M.	Jr. Agron.	P-1	Kenbridge, Va.

B-2. Ovaries and capsules hairy Nov 20 - 40.

Species	aments	peduncles	capsules	peduncles	styles	stigmas
✓ 20 <i>S. vastata</i>	se 2-4 cm	trunk 0.5-2 cm	t. 4-5 mm	seas or sub	0.5-1	0.2-0.3
✓ 21 <i>S. acutophila</i>	c. 3-9 or 10	lf. 1-4	nr. 4.5-8	0.5-1	1-1.5	0.5-0.7
✓ 22 <i>S. anglicum</i>	c 2-5 or 7	lf. 1-4 cm	p 5-7 or 8	seas or sub	0.7-1.2	0.4-0.7
✓ 23 <i>S. brachycarpa</i>	c 0.7-2	lf. 5-12 mm	± 5-7	" " "	0.7-1.3	0.5
✓ 24 <i>S. cordifolia</i>	c 2-6	lf. 1-3	v. 6-8	p 0.3-0.7	0.5-0.8	0.5-0.7
✓ 25 <i>S. cordata</i>	c 1-5	lf. 6 0.5-2	t. 6-8	subsp	1-1.5	0.4-0.6
✓ 26 <i>S. cryptodonta</i>	c 2-4	lf. 0.5-1.5	± 5-7	p 1.1-2-2.5	0.8-1	0.3-0.5
✓ 27 <i>S. argyrocarpa</i>	a 1-2.5	lf. 0.5-1.2	char 2-4	nr 1-2	0.5	0.1-0.3
✓ 28 <i>S. pellita</i>	sp-a	subsp 0.6-1	sp 4-6	my. ht.	0.8-1.2	0.4-0.6
✓ 29 <i>S. viminalis</i>	c 2-6	subsp, pedunc	4-6	subsp 0.5	0.7-1.2	0.5-0.8
✓ 30 <i>S. planifolia</i>	p 2.5-6	seas	per 6-7	stout 0.1-0.5	1-1.5	0.3-0.5
✓ 31 <i>S. pedunculata</i>	c 2-6-8	lf. 0.5-2.5	nr 5-7-8	1-1.5-2	1.2-1.5-2	0.3-0.7
✓ 32 <i>S. fasticulata</i>	c 1-3.5	subsp 1-2	nr 6-8	pr 2.5-3	0.1-0.4	0.4-0.5
✓ 33 <i>S. subsericea</i>	sp-c 1.5-3.5	lf. 0.5-1.5	nr 5-8	pr 1.5-3	0-0.2	0.2-0.4
✓ 34 <i>S. sericea</i>	p 2-4	subsp 6. to 10 mm	per 3-5	pr 0.5-1.15	0-1-0.3	0.2-0.3
✓ 35 <i>S. coarctata</i>	sp-c 2-5-5	lf. 0.5-1.5	sp 1.5	pr 1-1.5	0.3-0.6	0.1-0.2
✓ 36 <i>S. discolor</i>	p 2-8 10	nr., sessile	p 7-10, 12	p 1.5-3	0.5-0.7	0.5-0.8
✓ 37 <i>S. humilis</i>	p 1.5-3	seas or sub	p 7-9	p 1-2	0.2-0.4	0.2-0.4
✓ 38 <i>S. stricta</i>	p 1-1.5-2	nr, sess	p 6-7	p 1-2	0.2-0.3	0.2-0.3
✓ 39 <i>S. Bebbiana</i>	subp 2-7	lf. 6-7	p 7-9, 10	p 3-5-6	0.1-0.2	0.1-0.3
✓ 40 <i>S. purpurea</i>	p 2-3.5	lf. seas	p 3-4	seas	0.1-0.2	minute

Name	Designation	Grade	Official Hdqrs.
Strahorn, Arthur T.	Sr. Soil Scientist	P-5	Washington, D. C.
✓ Strong, Helen M.	Soil Conserv.	P-4	"
✓ Sutton, John G.	Sr. Drainage Engr.	P-5	"
Swain, C. Garton	Investigator	CAF-9	"
Swarthout, Guy W.	Asst. Statistician	P-2	"
Thomas, Edward J.	Agri. Engr.	P-4	"
Thomas, John B(oland)	Associate Sanitary Engineer	P-3	"
Thomas, Rex D.	Jr. Admin. Asst.	CAF-7	"
✓ Thornthwaite, C. Warren	Principal Soil Conservationist	P-6	"
Tillotson, Freeman H.	Fiscal Accountant	CAF-9	"
Tolmie, Tom William	Senior Engineer	P-5	"
Tower, Harold E.	Agronomist	P-4	"
Tozier, Morrill M.	Assoc. Information Spec.	P-3	"
Turnbull, James	Jr. Civil Engr.	P-1	"
Turner, Julian B.	Admin. Officer	CAF-11	"
✓ Umland, Russell E.	Prin. Soil Conserv.	P-6	"
Utz, Ervin J.	Prin. Soil Conserv.	P-6	"
Van Dersal, William R.	Biologist	P-4	"
Von Hollen, William	Engineer Inspector	P-4	"
Voss, Carl A.	Sr. Investigator	CAF-10	"
Weber, John L.	Hydraulic Engineer	P-4	"
Wells, John L.	Sr. Admin. Asst.	CAF-9	"
Wenige, Arthur E(mile)	Engineer Inspector	P-4	"
Weston, Earl P.	Sr. Soil Conserv.	P-5	"
Whitlock, Howard W.	Assoc. Cartographic Engr.	P-3	"
Wickes, Dean Rockwell	Soil Conservationist	P-4	"
Wilcox, Everett	Assoc. Mech. Engr.	P-3	"
Wilcox, Ralph F(urness)	Sr. Forester	P-5	"
Wilkins, Tivis E.	Sr. Appraisal Engineer	P-5	"
Williams, M(ile) B.	Prin. Irrig. Engr.	P-6	"
Wilson, Ruby M.	Jr. Librarian	P-1	"
Winston, Robert A.	Sr. Soil Conserv.	P-5	"
Wintersteen, Thomas K.	Jr. Adm. Asst.	CAF-7	"
Woodward, Louis A.	Cartog. Engr.	P-4	"
Wright, Marshall S.	Sr. Engr.	P-5	"
Wright, Ralph Cavanaugh	Assoc. Land Apprais.	P-3	"
Wright, Vergil A.	Prin. Investigator	CAF-11	"
✓ Young, Vilas D.	Assoc. Hydraul. Engr.	P-3	"
Zimmerman, Gordon K.	Inf. Spec.	P-4	"
Zimmerman, William III	Jr. Inf. Spec.	P-1	"
Zwerner, Gene A.	Asst. Engineer	P-2	"

Language shortened , and somewhat revised by CRB., July, 1949.

A1. Aments on leafy peduncles; scales yellowish , deciduous; filaments free, pubescent below; style short or obsolete; stigmas thick, notched.

HL. Stamens 3-5 or more. (*)

C1. Leaves without petiolar glands; stem. aments elongated, slender, cylindrical; scales crisp villous within. (horiz. dagger)

HL. Includes *S. nigra*, *S. Wardii*, and *S. amygdaloides*)

C2. Petioles glandular at apex; stem. aments thick, short-cylindrical or ellipsoid ~~ovoid~~, ovoid, densely flowered; leaves shining above, glandular serrate; branchlets shining: (2 horiz. daggers)

D1. Leaves green on both surfaces; fruit mature in early summer: (double dagger)

HL. Capsule conic-subulate; pedicel twice exceeding the gland; mature leaves short-acuminate. (equality sign) (S. pentandra.)

E2. Capsule conic-ovoid; pedicel 3 or 4 times exceeding the gland; mature leaves with long-acuminate curved tips. (2 equal. signs) (S. lucida)

D2. Leaves pale or white beneath; fruit mature in autumn. (2 double daggers) (S. serissima)

HE. Stamens 2 (2 asterisks)

C1. Leaves lanceolate or ovate-lanceolate, long-acuminate, closely serrate (S. fragilis, S. alba, S. babylonica) (1 dagger)

C2. Leaves linear- or oblong-lanceolate, short-acuminate, remotely denticulate with projecting teeth (2 daggers). (S. longifolia)

A2. Aments lateral or terminal, with or without bracts; scales persistent, colored at the tip; stamens 2, (usually 1 in No. 17).

HE. Filaments glabrous and distinct.

C1. Capsules glabrous: (1 dagger)

D1. Erect or ascending shrubs or small trees (double dagger)

E1. Leaves lanceolate to ovate, acute or acuminate, serrate; stem. aments very silky with a few bracts at base, become 2-4 cm. long, the pist. in fruit 2.5-10 cm. long. (equal sign.)

F1. Leaves glabrous or quickly glabrate; capsules distinctly pedicelled (a)

G1. Stipules persistent, usually conspicuous (1)

HL. Leaves dull above; the youngest pubescent with early-deciduous soft hairs (circle)

II. Fruiting aments 2.5-6 cm. long; mature capsule 4-7 mm. long; (plus mark) (S. cordata & v. myricoides)

II. Fruiting aments 6-10 cm. long; mature capsules 8-10 mm. long (2 plus signs). (S. missouriensis)

HE. Leaves glossy above, glabrous from the first (2 circles) (S. glaucophylla and vars.)

G2. Stipules obsolete or minute (2). (S. balsamifera)

F2. Leaves clothed, even when fully grown, with a long silky tomentum on both sides, finally deciduous; capsule subsessil. (b). (S. syrticola)

HE.

HE. See next page

(2 equals)

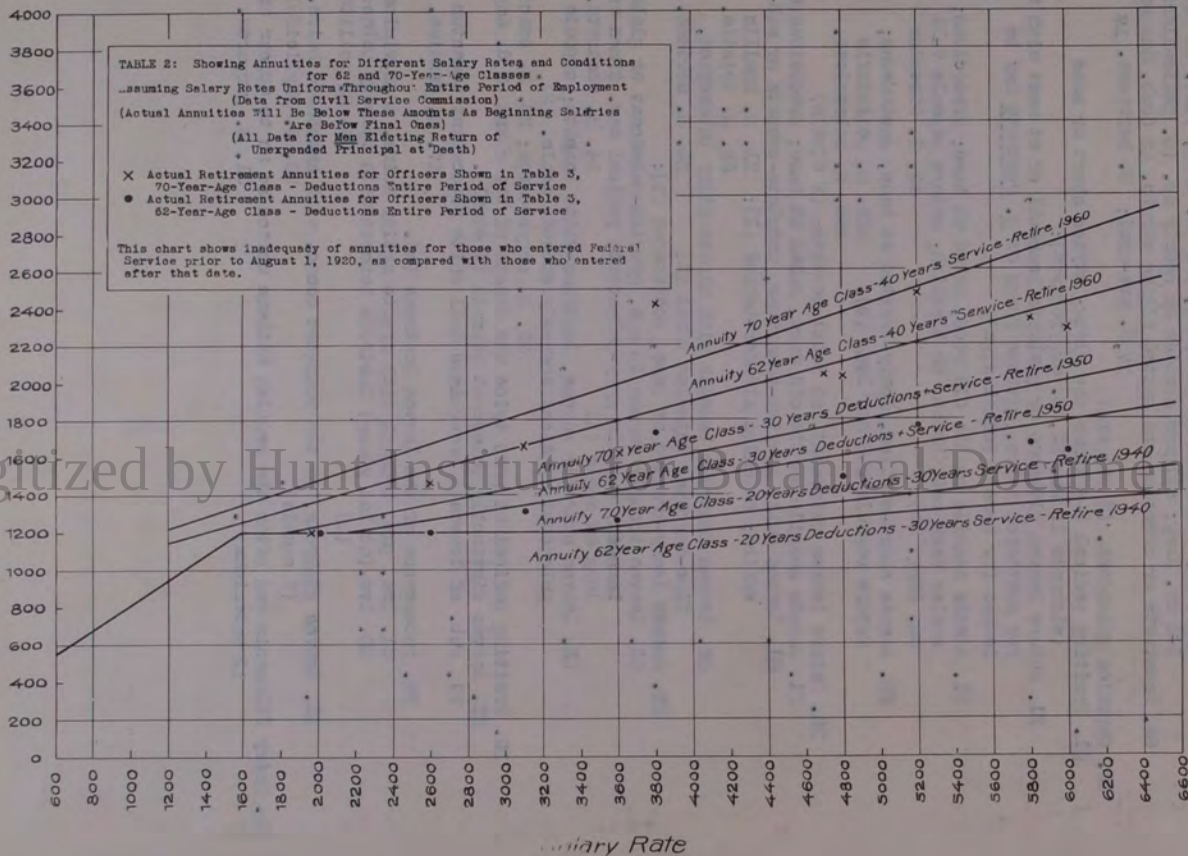
- E2. Leaves oblong-linear to elliptic obovate, entire; stem. aments sparingly pubescent or glabrate; 1-2 cm. long, pist. in fruit 1-3 cm. long; stigmas sessile or nearly so. (S. pedicellaris, d2. Prostrate or creeping and matted alpine shrubs. (2 doub. daggers) 17, S. uva-ursi; S. herbacea. 18
- CE. Capsules pubescent. (2 daggers)
- D1. Fruiting pedicel 3-6 times the gland; styles short or none (elongate in no. 25, S. argyrocampa):
- E1. Mature leaves glabrous or glabrate beneath, or at most with a few scattered hairs. (extreme forms of S. rostrata may be looked for here). (equal sign).
- F1. Aments sessile on the old wood, naked at base; precocious; scales dark red, brown, or blackish; mature capsule 7-12 mm. long. (a). 19. S. discolor
- F2. Aments short-stalked, leafy-bracted at base, coetaneous; mature capsule 5-8 mm. long (b). 20a. S. petiolaris. 20b. S. subsericea.
- E2. Mature leaves pubescent, at least beneath; (2 equals)
- F1. Aments sessile on the old wood, naked at base; precocious (a)
- G1. Leaves dull, grayish-tomentose, undulate-crenate or subentire; capsules slender-beaked (1): 21. S. humilis 22. S. tristis.
- G2. Leaves lustrous beneath with minute silky pubescence, fine-serrate; capsules blunt (2) 23. S. sericea.
- F2. Aments leafy-bracted at base, coetaneous (b):
- G1. Leaves strongly rugose in age, grayish-pubescent or glabrate beneath; capsule gray-pubescent; pedicel sev. times as long as scale (1) 24. S. rostrata.
- G2. Leaves scarcely rugose, lustrous-white beneath; capsule white-pubescent, pedicel scarcely exceed. scale. (2). 25. S. argyrocampa; 26. S. coactilis
- DE. Fruiting pedicel at most twice the length of the gland (2 d. dags).
- E1. Leaves distinctly pubescent beneath (1 equal).
- F1. Pub. of leaves & branchlets dull white flocculent tomentum (a) 27. S. candida.
- F2. Pubescence of the leaves lustrous (b).
- G1. Lvs. pub. beneath with minute satiny hairs. 28. S. viminialis.
- G2. Lvs. (at 1st young) lustrous beneath with velvety pubescence (2) 29. S. pellita.
- E1. Leaves glabrous, or the youngest occas. with arachnoid hairs. (2 equals). 30. S. phyllifolia.
- E2. Hairy filaments and often the reddish anthers united so as to appear as one. (2 asterisks). 31. S. purpurea.

TABLE 2: Showing Annuities for Different Salary Rates and Conditions for 62 and 70-Year-Age Classes.
Assuming Salary Rates Uniform Throughout Entire Period of Employment (Data from Civil Service Commission)
(Actual Annuities Will Be Below These Amounts As Beginning Salaries Are Below Final Ones)
(All Data for Men Electing Return of Unexpended Principal at Death)

X Actual Retirement Annuities for Officers Shown in Table 3, 70-Year-Age Class - Deductions Entire Period of Service
• Actual Retirement Annuities for Officers Shown in Table 3, 62-Year-Age Class - Deductions Entire Period of Service

This chart shows inadequacy of annuities for those who entered Federal Service prior to August 1, 1920, as compared with those who entered after that date.

Annuity Rate



Have neglected the staminate
specimens in the Key floral keys.
Consent Smith
Peduncle, length and hardness or
brittleness, and some of them are
quite different from those in
the psyllate elements. Filaments in
a small species
are notoriously unstable as to
union at base or harness on lower
portion. With out the keys, it is
almost impossible for any expert
experts to det. staminate from keys,
unless keys are long and carefully

~~I am proud of my children
and that he improved in the
army from all things. The year
of that is maddening.~~

THE ORGANIZATION OF PROFESSIONAL EMPLOYEES
Of The
UNITED STATES DEPARTMENT OF AGRICULTURE
Organized April 8, 1929

South Building Washington, D. C.

December 14, 1943

Dear Member:

On October 14 a meeting of the Council Members was held and the following bills discussed.

S. 878 introduced by Senator Langer intends to give the benefits of the January 24, 1942 Retirement Act to those who had retired prior thereto and to grant a 15% increase to present annuitants, providing the Government's share of the annuity does not exceed \$2,500. This bill had the active support of Senator Mead (New York). It passed the Senate on December 9 and the chances of its passing the House are considered good.

H. R. 3256 introduced by Mr. Hartley (by request) provides increases in retirement benefits, salaries, compensations, etc., of not more than 10% whenever the cost of living index rises 10% over that in effect during the first six months of the calendar year 1940 and other provisions. This bill is quite complicated and it is doubtful whether any action will be taken at this session of Congress.

H. R. 3315, introduced by Mr. Randolph, the general provisions of which are to allow the widow of a deceased employee dying while in the Government service, 50% of what would have been his retirement pay, but in no case less than \$300 per annum, and to the widow of a deceased retired Government employee, 50% of what his retirement pay would have been but in no event less than \$600 per annum. These provisions are good during the life of the widow or until she remarries and provided she has been the wife of the deceased not less than five years and that he had not less than five years Civil Service employment. This bill should and will have the support of the Organization and its passage through the Legislature watched for opportune times at which to make presentations of our interest.

H. R. 3317 introduced by Mr. Celler has the effect of repealing the Hatch political activities act. This bill will be considered but it is uncertain what action if any will be taken by Congress.

H. R. 3410 introduced by Mr. Randolph (by request) is intended to create a Civil Service court for the purpose of hearing appeals or complaints from Civil Service employees against supervisors or superiors who retaliate against them or inflict reprisals upon them for making any appeal authorized by law, or for giving testimony in such an appeal. On recommendation of your President the author of this bill incorporated an amendment providing penalties for bringing charges against superiors which the Civil Service court should find groundless or unwarranted. Penalties would be lowering of grade or efficiency rating. While this greatly improves the bill there are other defects such as lack of time element in bringing charges of discrimination, and difficulty of proving or disproving such charges. Full consideration of this bill will be given if it shows signs of being brought up for action.

A bill which has attracted widespread attention in scientific and professional circles but has not yet been discussed by the Council is S. 702, commonly referred

(over)

Report - put this with illus. Holmes

✓ ♂ *S. babylonica* wanted

✓ *S. purpurea* caps 6-8 or 7-9 as usual

✓ *S. cabercola* get shown to Sx

✓ *S. argyrocampa*. Staminate aments wanted.

✓ sp. 36. desired for "mm" long. Documentation

✓ *viminilis*. Staminate aments wanted.

✓ *purpurea* - ? better pistillate aments
(ripe capsules).

Safety Rules For Radio Installations. Part 5, 5th ed. National Electric Safety Code. U. S. Dept. Com. Nat. Bur. Standards Handbook H35. Superintendent of Documents, Washington, D. C. 10 cents.

Selecting A Method Of Heating. U. S. Housing Authority Bul. 20, 25 pp. Rev. July 1940. Federal Works Agency, U. S. Housing Authority, Washington, D. C.

Characteristics of different heating methods, and factors that should be considered in determining the type of heating system most economical and desirable for a particular project are considered.

Small Scale Rental Housing Insurance: For Mortgages Not Exceeding \$100,000. (For new construction and rehabilitation projects). Administrative Rules and Regulations Under Section 207, Title II, Nat. Housing Act (As amended June 3, 1939) Fed. Housing Admin. FHA Form 2012-(a) 26 pp. March 1, 1940. Federal Housing Administration, Washington, D. C.

Standards And Specifications For Building And Construction Materials, Fixtures, Supplies, And Equipment. U. S. Dept. Com. Nat. Bur. Standards Letter Circular LC-619. Rev. November 30, 1940. U. S. Department of Commerce, Bureau of Standards, Washington, D. C.

Discusses building codes, construction practice, and home maintenance.

Successful Subdivisions. Stewart McDonald. Fed. Housing Admin. Land Planning Bul. 11, 22 pp. 1940. Superintendent of Documents, Washington, D. C. 10 cents.

Presents principles of planning for economy and protection against neighborhood blight.

Suitability Of Woods For Use In The Frame House. U. S. Forest Serv. Forest Prod. Lab. Tech. Notes 245, 8 pp. October 1940. U. S. Forest Products Laboratory, Madison, Wis.

Lists woods for extra trim, flooring, framing, interior trim, shelving, and other purposes in house construction.

Survey Of Humidities In Residences, A. Thomas D. Phillips. U. S. Dept. Com. Nat. Bur. Standards Bldg. Mater. and Structures Rpts. BMS56, 6 pp. October 9, 1940. Superintendent of Documents, Washington, D. C. 10 cents.

What Does The Housing Program Cost? U. S. Housing Authority. 31 pp., illus. March 1940. Federal Works Agency, U. S. Housing Authority, Washington, D. C.

A simple presentation of the facts about the Federal Government's share in slum clearance and low-rent housing.

POSSIBLE ADDITIONS TO ILLUS. FLORA

Reticulatae

- = S. leirolepis Fern. *nf*
 = S. *sejuna* *nf*

Roseae

- = S. hebecarpa Fernald (= hybrid) of S. peduncularis var. *hypoglauca*
 = S. *simulans* " " " " " "

Retusae

- = S. Peasii = *hyb*

Ovalifoliae

- x S. aretophila Ckll.
 var. *leiocarpa* Schm

Glaucæ

- S. cordifolia vars
 car. *eucycla* Fernald
 x - - - var. *intensa* Fernald
 var. *tonsa* Fernald
 x var. *typica* Fernald as *apocarpæ* base for vars.
 x S. *chlorolepis* Fernald

- S. *incana* Schrank (S. *Eleagnæ*)
 Caprifoliæ - S. *ancorifera* Fernald *nf*
 S. *amoena* Fernald *nf*

- = S. *scaberrima* L.) introd. but little escaped
 = S. *cinerea* L.)
 Cordatæ S. *Wiegandii* *nf*
 S. *obtusata* = S. *myrtillofolia* v. *brachypoda* Fern

Phyllifoliae

- S. *paraleuca* Fern } Gaspe Penn.
 S. *stenocarpa* " } = S. *planifolia* x

Adenophyllæ

- S. *laurentiana* Fern. = x S. *glauco-phyllodes*
 v. *albostriata*

Miscellaneous Sp Illus Flora

Sp

L. S. N. H.

	cases	Sp No
<i>S. amovna</i> (oblonga phos by 3 pedunc 3.5 cm Phyllis in pedunc)	—	38036
<i>S. anconifera</i>	—	—
<i>S. zeyma</i>	2	10,825
<i>S. leialapa</i> (2. sh. 10875)	1	202
<i>S. laurientrang</i> (Maru-V + R-2 (18,902) x dec 3 ped 2.5 ft)	—	—
(small oval - oval lvs peduncle 3.5 cm base 7-9.4103)	—	—
— <i>S. obtusata</i> Wellman + 7 no (5. myphylls) x brachyphylls	2	203 302
located by Colm. Fern + Cal 203a (203a)	—	—
<i>S. Persia Fern</i> (herbaria x uva-ursi)	—	16847
<i>S. podunculata</i> (Fern et al 1595) n.f.	1	28035
lvs small, elliptic - oblong base 5-8 or 7 cm.	—	—
for down "decumbent"	—	—
<i>S. parvula</i> } x <i>S. planifolia</i>	—	—
<i>S. stransper</i>	—	—
<i>S. simulans</i>	—	—
<i>S. Wiegandii</i> (Fern et al 1605 n.f.)	1	1602
		n.f. long styles solid

<i>S. jejuna</i>	4 spec colls	Nf Bot
<i>S. Laurentiana</i>	2 spec	Saspe
<i>S. leiolepis</i>	1 "	Nfld
<i>S. crumena</i>	1 coll	"
<i>S. obtusata</i>	2 (really!)	Saspe
<i>S. parviflora</i>	1 "	Nfld
<i>S. pedunculata</i>	1 "	Nfld
<i>S. stenocarpa</i>	1	Saspe
<i>S. Wiegmannii</i>	5 "	Nf
<i>S. umbellifera</i>	1 "	Nf
<i>S. Laurentiana</i>	2 "	Saspe
<i>S. sinuata</i>	1 "	(Sagunay to Bot)

S. reticulata L. } No Ill. Fl. range
S. desertorum Rost + S. glauca L. } in herb. CHS
or USNH.

Hybrids

S. pedicellaris Ph. var. *pycnoglossa* Fern. X
S. hebecarpa Fern.
S. simulans Fern.

S. glaucophyllotes Fern. var. *alborostrea* (Ball) Fern. X
S. laurentiana Fern. (Gosse 2)

S. planifolia Ph. X
S. barclayi Fern.
S. stenocarpa "

S. herbacea L. X *S. uva-ursi*
S. Crassi Fern.

Omitted Species

1 Cordatae

S. obtusata Fernald

= *S. myrtillifolia* var. *brachypoda* Fern.

4 Retioulatae

S. jejuna Fern.

S. lewlepsi Fern.

2 Commutatae

S. laurentiana Fern.

= *S. glaucophylla* X *hum?*
var. *albosticta*

5

Phyllifoliae

S. paraleuca Fernald

S. stenocarpa Fernald

Hybrids
Splanicifolia

3

Rosae

S. heliocarpa Fern. } x *S. podocellares*

S. simulans Fern. } var. *hypoglauca*

Sargassum 27 Speltis 28

Sargassum 34

Bushy shrub
0.5-1.7 m.

Br. short, leafy,
faintly red above,
red-br. beneath (lyg) - glabrous

Stipules none, or
minute, decid.

Petioles stoutish,
to 6 mm long.

Lvs. narrow ellipt - el-
lipt. - oblance,
2-5 cm long,

to 1 cm. wide,
acute at both ends,
or lower obtusish,

margins subrevolute
+ pubescent to closely
crenulate.

dark green and
subshiny above,
glaucescent and
densely to thickly
long sericeous to
glabrate beneath.

primary veins
numerous, wide-
angled, closely par-
allel, impressed
above

Shrub or small tree
3-5 m.

Br. bottle yellow-
red, thin, pubes-
cent to glabrous after pruning

Stipules none.

Petioles to 10 mm.

Lvs. lin-lance or lin-
bisanse to lance,
4-10 or 13 cm long,

0.8-1.5, or 2.2 m. wide

acum. at apex, acute or
broader obtuse, at base,

margins subrevolute,
entire to undulate -
crenulate

glabrate above

glaucescent + densely
silky pubescent be-
neath, becoming
glabrate-glabrous

primary veins num-
erous, wide-angled,
closely parallel,
subimpressed above

Shrub or small tree
2-6 or 8 m.

Br. sds. light to dark bl.
puberulent to glabrous

Stip. lance to semi-ovate
3-10 mm, after dead.

Petioles sds. 5-10
mm, puberulent

Lvs. narrow lance to lance,
6-10 or 14 cm long,
1-2 or 3 cm. wide

acum. at apex, acute
rounded at base
coarsely serrate.

puberulent to glab-
rous above,
glaucescent + densely
to thinly sericeous
beneath, drying
darker.

Sequence in Rhos

Cornifoliae

Ros.

25. *S. candida* R.
26. *S. cryptodonta* Fern.
27. *S. argyrosarpa* And
28. *S. pallida* And
29. *S. ruscifolia* E.
30. *S. planifolia* Ph. } *Physicifoliae*
31. *S. pedunculata* Fern }
32. *S. petiolaris* J. E. Smith
33. *S. subsericea* And Schröder
34. *S. sericea* Massh
35. *S. coarctata* Fern

S. disc