ICPS SEED BANK*

$.75 each


*See CPN, March, 1983 for details on sending or ordering seed.

SEED STRUCTURE OF CARNIVOROUS PLANTS

(The text of Patrick Dwyer’s report on the seed structure of carnivorous plants was printed in its entirety in the March, 1983 issue of CPN. Unfortunately, due to space limitations, many of the seed drawings and SEM photomicrographs could not be included until this issue. The drawings were done by Debbie Tolman and John Randall; the SEM’s were sent by Tom Story.)

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Drosera adelae F.Muell. (Australia) – pitted, three-angled, almost round, black (Erickson, 1968), length around 0.5 mm.

Drosera aliciae Hamet. (S. Africa) – elliptic to fusiform, attenuate at one or both ends, reticulate, length about 1 mm, black.

Drosera anglica Huds. (Europe, N. American Boreal, Japan) – sigmoid-fusiform, 1.1-1.5 mm, longitudinally striate-areolate, black (Wynne, 1944).

Drosera arcturi Hook. (Australia, New Zealand) – obovoid (Erickson, 1968), length around 0.8 mm, minutely pitted dark brown.
Drosera auriculata Backh. Ex. Planch. (Australia, New Zealand) – linear or ellipsoid extended slightly at each end (Erickson, 1968), length about 1.7 mm, brown.

Drosera brevifolia Pursh. (N. America) – obovate, oblong, caudate at base, 0.3-0.4 mm long, crateriform, pits in 10-12 rows, black (Wynne, 1944).

Drosera burmanni Vahl (Asia, Trop. Australia) – minute, minutely pitted, black (Erickson, 1968), length around 0.25 mm.

Drosera capensis L. (S. Africa) – fusiform, reticulate, acute at one end, length around 1 mm, black.

Drosera capillaris Poir. (N. & C. America, Colombia, Brazil, Guyana, Venezuela) – elliptic to oblong-ovate, asymmetric, 0.4-0.5 mm long, coarsely papillose, corrugated in 14-16 ridges, brown (Wynne, 1944).

Drosera filiformis Lindl. (Australia) – almost round with angled corners, covered with spongy seed membrane, black (Erickson, 1968), length around 1 mm, pitted.

Drosera filiformis f. filiformis Rafin. (N. America) – elliptic, abruptly caudate at both ends, 0.5-0.8 mm long, coarsely crateriform, pits in 16-20 rows black (Wynne, 1944).
D. capensis Mag. 130X

D. capensis Mag. 1300X

D. capensis Mag. 6700X
Drosera gigantea Lindl. (Australia) – almost round (Erickson, 1968) reticulate, length about 0.5 mm, black.

Drosera glanduligera Lehm. (Australia) – ovoid with honeycombed membrane, slate grey (Erickson, 1968), length around 0.5 mm.

Drosera hilaris Cham. Et Schlechtal. (S. Africa) – linear, truncate at both ends, very rugose, length about 1.25 mm, brown.

Drosera indica L. (Asia, Trop. Australia, S. Africa) – pointed, minutely pitted (Erickson, 1968), about 0.5 mm long, broadly ovate – elliptic, slightly acute at one end, longitudinally ribbed and cross lined (Ohur, 1965), black.

Drosera intermedia Hayne (Europe, N. America, Guyana) – oblong, blunt at ends, 0.75-0.95 mm long, densely and irregularly covered with long papillae, reddish brown (Wynne, 1944), rhomboidal (Cruise & Catling, 1974).

Drosera linearis Goldie (N. American Boreal) – rhomboidal, oblong-ovate, 0.5-0.8 mm long, densely and irregularly crateriform, black (Wynne, 1944), densely pebbled (Wood, 1955).
*Drosera montana* S. Hil. (Brazil, Venezuela) – fusiform, reticulate, acute at one end and truncate at the other, length about 0.2-0.3 mm, brown.

*Drosera nitidula* Planch. (Australia) – three-angled, ovoid, glistening and smooth, black (Erickson, 1968), length about 0.7 mm.

*Drosera pauciflora* Banks Ex D.C. (S. Africa) – ovoid to almost deltoid, strongly ribbed longitudinally and faintly cross ribbed, length around 0.5 mm, black.

(Continued from page 38.)

*Drosera peltata* Sm. Ex Willd. (Australia, Japan, Formosa) – round, pitted, minutely ribbed, black (Erickson, 1968), length about 0.8 mm.

*Drosera planchonii* Hook. F. Ex. Planch. (Australia) – shortly cylindrical, black (Erickson, 1968), slightly truncated at one end, length about 3 mm.

*Drosera pygmaea* DC. (Australia, New Zealand) – ellipsoid, almost smooth, black (Erickson, 1968), reticulate, length around 0.5 mm.
*Drosera rotundifolia* L. (Northern Hemisphere) – sigmoid-fusiform, finely and regularly longitudinally striate, shiny with metallic luster, 1-1.5 mm long, light brown (Wynne, 1944).

*Drosera spathulata* Labill. (Formosa type) (Formosa) – ovate to ellipsoid, reticulate, length about 0.3 mm, dark brown.

*Drosera spathulata* Labill. (Hong Kong type) – ovate to ellipsoid, reticulate, length about 0.5 mm, black.

*Drosera spathulata* Labill. (Kansai type) (Japan) – minute, fusiform, obtuse and mucronulate at both ends (Ohwi, 1965), reticulate, length about 0.75 mm, dark brown.

*Drosera trinervia* Spreng. (S. Africa) – orbiculate, reticulate, length about 0.4 mm, brown.

*Drosera whittakeri* var. *praefolia* (Tepper) Black. (S. Australia) – almost spherical (but some are square), spongy seed coat with many pits, length or width no more than 1.0 mm, black.
Pinguicula grandiflora Lam. (Ireland, Spain, France, Switzerland) – scobiform, fusiform, (0.6) 0.85 (1.1) mm long and (0.2) 0.3 (0.4) mm wide, alveolate (Casper, 1966), brown.

Pinguicula ionantha Godfrey (Fla.-USA) – scobiform, oblong-cylindrical, 0.6-0.8 mm long, alveolate, brown (Casper, 1966), alveolae with 1-2 cross lines (Godfrey & Stripl., 1961), black.

Pinguicula leptoceras Reichb. (Switzerland, Australia, Italy, France) – scobiform, fusiform, ±0.7-0.8 mm long and 0.2-0.3 mm wide, alveolate (Casper, 1966), light brown.

Pinguicula lusitanica L. (Portugal, France, Great Britain, N. Africa, Spain) – scobiform, subcylindrical, 0.5-0.65 mm long and 0.2-0.26 mm wide alveolate (Casper, 1966), brown.

Pinguicula lutea Walt. (La., Miss., Ala., N.C., S.C., Ga., Fla.-USA) – scobiform, fusiform, 0.5-0.8 mm long alveolate (Casper, 1966), oblong, alveolate with 3-4 cross lines (Godfrey & Stripl., 1961), black.

Pinguicula macroceras Link. (Japan, USSR., N.W. & N. America) – scobiform (Casper, 1966), length around 1 mm, reticulate, ovate, brown.
Pinguicula primuliflora Wood et Godfrey (Ala., Ga., Fla., Miss.-USA) – scobiform, subcylindrical, truncated, 0.5-0.7 mm long, brown (Casper, 1966), obpyramidal to subcylindric-truncate, alveolae without cross lines (Godfrey & Stripl., 1961).

Pinguicula pumila Michx. (Tex., La., Ala., N.C., Ga., Fla.-USA, Bahamas) – scobiform, fusiform, 0.3-0.5 mm long and 0.2-0.3 mm wide alveolate (Casper, 1966), oblong to obpyramidal, alveolate mostly with 2-3 cross lines (Godfrey & Stripl., 1961), brown.

Pinguicula vallisneriifolia Webb. (Spain) – scobiform, alveolate (Casper, 1966), slightly attenuate at one end, length around 1 mm, light brown.

Pinguicula vulgaris L. (Europe, Siberia, American Borreal) – scobiform, cylindric-conical, (0.5) 0.68-0.8 (0.96) mm long and (0.16) 0.2-0.28 (0.32) mm wide alveolate (Casper, 1966), brown.
**Sarracenia alata** Wood. ( Ala., Miss., La., Tex.-USA) – obovoid-clavate, bullate-areolate, 1.9-2.2 mm long (McDaniel, 1971), brown.

**Sarracenia flava** L. (Va., N.C., S.C., Ga., Fla., Ala.-USA) – obovoid, tuberculate areolate, 1.8-2.5 mm long (McDaniel, 1971), brown.

**Sarracenia leucophylla** Raf. (Ga., Fla., Ala., Miss.-USA) – verrucose-areolate, 1.5-2.1 mm long (McDaniel, 1971), brown.

**Sarracenia minor** Walt. (N.C., S.C., Ga., Fla.-USA) – obovoid, tuberculate-areolate, 1.1-1.3 mm long (McDaniel, 1971), light brown.

**Sarracenia purpurea** L. (Eastern N. America) – obovoid, areolate-tuberculate, 1.7-2.0 mm long (McDaniel, 1971), yellowish brown.

**Sarracenia rubra** Walt. (N.C., S.C., Ga., Fla., Ala., Miss.-USA) – irregularly obovoid, tuberculate-areolate, 1.2-1.5 mm long (McDaniel, 1971), light brown.

**Sarracenia rubra** ssp. **jonesii** Wherry (N.C., S.C., Fla., Ala., Miss.-USA) – obovoid, tuberculate-areolate, around 2 mm, brown.

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