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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.

Arrangement
of the
British Species
of the Genus
Carex

1. *Carex flacca* L. 1.
2. *Carex flacca* L. 2.
3. *Carex flacca* L. 3.
4. *Carex flacca* L. 4.
5. *Carex flacca* L. 5.
6. *Carex flacca* L. 6.
7. *Carex flacca* L. 7.
8. *Carex flacca* L. 8.
9. *Carex flacca* L. 9.
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39. *Carex flacca* L. 39.
40. *Carex flacca* L. 40.
41. *Carex flacca* L. 41.
42. *Carex flacca* L. 42.

Carex.

- A single spike 2
1. Many spikelets, either distant or clustered. 5.
Capsule with three stigmata. --- C. pauciflora.
2. Capsule with two stigmata. 3.
Monocious. --- C. pulicaris.
3. Dioecious. 4.
Root creeping, culm & leaves smooth. C. dioica
4. Root fibrous (not creeping), culm & leaves rough. C. Inoalliana.
5. Spikelets androgynous. 6.
Anthers & germs on distinct spikelets. 11.
6. Anthers at the apex of the spikelets. 7.
Germs at the apex of the spikelets. 16
7. Root creeping. 8.
Root fibrous. 10.
8. Culm cylindrical. --- C. incurva
Culm triangular. 9.
9. Stigma sessile, bractea shorter than the spikelets. C. arenaria.
Stigma on a long style, bractea longer than the spike-
lets. C. dioica.
10. Spikelets ^{xx} disposed in a branched panicle 12.
Spikelets not panicked. 13.

* In C. panicea, a few anthers are occasionally seen with the germs, but it is not therefore placed in this division.

xx C. communata & C. dioica are sometimes branched in the lower ^{spikelets} but they will nevertheless be placed in the following division.

- 11 Spikelets very remote — C. axillaris.
 Spikelets crowded — 12
- 12 Bractea much longer than the spikelet; leaves wide
C. vulpina.
 Bractea not so long as the spikelet; leaves narrow.
C. paniculata.
- 13 Lower spikelets bearing all ^{germens} ~~anthers~~; central, anthers;
 upper, anthers & germens. C. intermedia.
 Spikelets all androgynous. 14.
- 14 Culms obtusely triangular — C. tetrasula.
 Culms acutely triangular. 15.
- 15 Lower Bractea longer than the narrowest spike-
 let; fruit divaricate, cloven; anthers obtuse. C. muricata.
 Lower Bractea shorter than the ^{ovate} narrowest spikelet; fruit
 not divaricate; anthers acute — C. divulsa.
- Anthers at the apex of the spikelets.
- 16 Spikelets pedunculated; stigmas 3 — C. atrata.
 Spikelets sessile; stigmas 2. 17
- 17 Bractea longer than the spike; spikelets very
 distant — C. remotas.
 Bractea shorter than the spike, or wanting; spikelets
 approximate. 18
- 18 Fruit oblongo-acuminate, diverging — C. stellulata.
 Fruit ovate, not diverging. 19
- 19 Spikelets compact, Bractea at the base of each; Glumes
 equal to the fruit. C. ovalis.
 Lower spikelets rather distant; Bractea none or only at
 the lower spikelets; Glumes shorter than the fruit. 20

- 20 Fruit recurved, cloven ——— C. elongata.
 20 Fruit straight, entire ——— C. curta.

Anthems & germens on distinct spikelets.

- 21 Bractea membranaceous. 22.
 21 Bractea foliaceous. 24.
 22 Leaves channelled, longer than the spike. C. clandestina.
 22 Leaves plane, shorter than the spike. C. digitata.
 23 Anthem-bearing spikelets single or rarely two^x. 24.
 23 Anthem-bearing spikelets two or more. 28.
 24 Stigmata 2. 25.
 24 Stigmata 3. 28.
 25 Germiferous spikelets elongated & attenuate.
 25 Germiferous spikelets cylindrical or C. stricta ovate. 26.
 26 { Germiferous spikelets cylindrical; capsule inflated,
 globose ——— 27.
 Germiferous spikelets ovate; capsule ovate. C. pulla.
 27 Glumes smaller than the capsule. — C. caespitosa.
 27 Glumes larger than the capsule & hiding them.
C. rigida.
 28 Seed vessels tomentose. 29.
 28 Seed vessels smooth or ciliated at the angles 31.
 29 Bractea wholly without sheaths ——— C. piluliferas.
 29 Bractea with sheaths. 30.
 30 Sheaths almost obsolete ——— C. tomentosa.
 30 Sheaths short ——— C. praecox.

* C. incurva is carried to the following division since it has, like its affinity C. Micheliiana, often many spikelets.

Fruit smooth, or ciliated
only at the angles.

- 31 Germiniferous spikelets oblong or ovate. 33.
Germiniferous spikelets cylindrical or filiform 44
32 Germiniferous spikelets with compact flowers 33
Germiniferous spikelets with distant flowers 41.
33 Germiniferous spikelets erect 34.
Germiniferous spikelets drooping. 39.
34 Germiniferous spikelets distant; sheaths long 35
Germiniferous spikelets approximate; sheaths short 37
35 Spikelets ovate; ^{culm} ~~stem~~ rough --- --- C. fulva
Spikelets oblong; culm smooth 36.
36 Fruit with many equal nerves --- C. distans
Fruit with two strong nerves --- C. binervis.
37 Culms leafy; fruit ovate, beakless --- C. extensa.
Leaves radical, fruit beaked - 38.
38 Beak of the fruit straight; culm smooth. - C. pedic.
Beak of the fruit recurved; culm rough --- C. glauca.
39 { Lower Bractes shorter than the spikelets; edges of
the fruit rough upwards. C. ustulata
Lower Bractes longer than the spikelets; fruit smooth. 40.
40 Spikelets oblong, obtuse; fruit ribbed - C. pallescens.
Spikelets ovate, acute, fruit ribbed --- C. limosa.
41 Germiniferous spikelets 2, suberect, subapproximate 42.
Germiniferous spikelets more than 2, erect, very distant 43.
42 Leaves linear; germiniferous spikelets black - C. variflora
Leaves nearly setaceous; germiniferous spikelets pale
greenish brown. C. capillaris.

- 23 { Bractea shorter than the spikelet & as well as the leaves
obtusely — C. Michxoxperi.
Bractea much longer than the spikelet & as well as
the leaves acuminate, C. depauperata.

Germiferous spikelets cylindrical.

- 44 { Germiferous spikelets more or less lax (with distant
flowers) 45.
Germiferous spikelets compact. 47.

- 45 { Germiferous spikelets rather lax, cylindrical; fruit
inflated, obtuse — — — C. pernicea.
Germiferous spikelets very lax, filiform, fruit oblongo-
ovate, acutely triangular 46.

- 46 { Fruit ribbed between the angles — — — C. trigona.
Fruit ribless between the angles — — — C. sylvatica.

- 47 { Germiferous spikelets not very long, stamens much
longer than the glumes, fruit smooth C. pendula.
Germiferous spikelets 1 or 2 inches long, stamens shorter
than the glumes; fruit rough. C. pseudocyperus.

Germiferous spikelets 2 or more.

- 48 { Fruit pubescent. 49
Fruit smooth 50.

- 49 { Leaves channelled; glumes of the spikelets mucronate
fruit lanate — — C. filiformis.
Leaves plane; glumes of the spikelets aristate; fruit
hirsute — C. hirta.

- 50 { Fruit elliptical, & as well as the glumes very obtuse
Fruit, ovate, beaked, acute 51. C. recurva.

- 51 { Scales of the ^{anthers} glumes pale brown; anthers small, brownish
Scales of the anthers black; anthers large, yellow. 52. 54.

- 52 Sheaths very long; lower spikelets on long footstalks;
fruit not inflated. C. laevigata.
- 53 Sheaths none; lower spikelets nearly sessile; fruit
inflated -- 53.
- 53 Fruit subglobose; culm obtusely triangular,
Fruit ovate; culm acutely C. ampullacea,
triangular. C. pedicularia.
- 54 { Glumes of the germens green, aristate; sheaths very
short. C. riparia.
Glumes of the Germens black, not aristate; sheaths
none. 55.
- 55 { Stigmata 3; Antheriferous spikelets triangular &
as well as the germiniferous, always erect, fruit
emarginate --- C. paludosa.
Stigmata 2; Antheriferous spikelets cylindrical, cer:
nuous, when in flower, fruit entire. C. acuta.