

- point, closely denticulate in the lower part; partial heads 1-flowered; achenes pubescent 1. *longifolius*
 Leaves glabrous below :
 Stems not winged, glabrous; leaves imbricate, 2 cm. long, deeply pinnatilobed, lobes spine-tipped; flower-heads sessile, globose, 3 cm. diam.; bracts lanceolate, acute, serrulate, 5–6 mm. long, glabrous 2. *elegans*
 Stems setosely winged, glabrous; leaves imbricate, about 1.5 cm. long, deeply pinnatisect with spine-tipped segments; flower-heads sessile, globose, 2.5 cm. diam.; involucral bracts of the partial heads spine-tipped, serrulate in the lower part 3. *gracilis*

1. *E. longifolius* A. Rich.—F.T.A. 3 : 431; Chev. Bot. 375. *E. bathrophylloides* Mattfeld. Erect hoary perennial 1–2 ft. high with narrow leaves sometimes 1 ft. long, and greyish-white spherical flower-heads 1 in. in diameter when in flower.
 French Sudan: Ouré, etc. (Apr.). French Guinea: Kouroussa (July)! Gold Coast: Yeji! Amansare, N. Ashanti (July)! Dahomey: Savalou, between Caboïd and Bassila (May)! Djougou to Pobégu, 2,700 ft.! N. Nigeria: common in the northern savannah! S. Nigeria: Lagos Colony! Extends to E. Sudan and Abyssinia. Exsicc.—Baikie. Elliott 203. Dalz. 29. Anderson 48. Chipp 523. Lely 247. Dent Young 162. Dawadou 152. Pobéguin 318. (See Appendix).
 2. *E. elegans* Hutch. & J. M. Datz. in Kew Bull. 1931 : ined. *E. gracilis* A. Chev. Bot. 375, not of O. Hoffm. Erect branched 2 ft. or more high, with glabrous ribbed stems and solitary terminal flower-heads overtopped by long flowerless branchlets.
 French Guinea: Beyla (Mar.)! Beyla to Sadougou (Mar.)! Ivory Coast: Upper Sassandra, Toura country, Mt. near Koualé, at the summit, 3,400 ft.! Exsicc.—Chev. 20864; 20871; 21703.
 3. *E. gracilis* O. Hoffm. in Bull. Soc. Bot. Fr. Mém. 8 : 42. Perennial 1–2 ft. high from a woody stock, erect, branched, with crowded narrow leaves and spherical flower-heads 1 in. or more in diameter when in flower.
 N. Nigeria: Bauchi Plateau, Vom, 3,000–4,500 ft.! S. Nigeria: Bamenda! Extends to E. Sudan, and up to 6,000 ft. in Bambuto Mts., Cameroons. Exsicc.—Dent Young (no number). Migeod 298; 423; 424.

68. PICRIS Linn.—F.T.A. 3 : 447.

Perennial herb; leaves all radical, oblanceolate, denticulate, 6–14 cm. long, up to 2 cm. broad, setose on both surfaces and on the margin; peduncles elongated, 1–3-flowered; involucral bracts unequal, the outer small, sparingly setose outside, up to 1.5 cm. long; achenes shortly beaked, scabrid on the ribs; pappus plumose *humilis*

- P. humilis* DC. Prodr. 7 : 130—F.T.A. 3 : 447, in obs. Erect from a hard base, 6–18 in. high, with oblong yellow flower-heads $\frac{1}{2}$ in. long, appearing after bush burning.
 Senegal. N. Nigeria: north of Zaria (Feb.)! Bauchi Plateau, Naraguta (June)! Vom, 3,000–4,500 ft.! Exsicc.—Dalz. 392. Lely 24; P. 36; 341. Dent Young 163.

69. LACTUCA Linn.—F.T.A. 3 : 450.

Climbers :

- Stems and bracts pilose with gland-tipped hairs; leaves lyrate, with a winged rhachis, one pair of lateral reflexed lanceolate lobes and a terminal triangular terminal lobe repand denticulate and about 4 cm. long, pilose-setose on the nerves below; flower-heads numerous, paniculate, 1–1.5 cm. long; achenes with a long slender beak, flattened, with several wing-like ribs, glabrous 1. *glandulifera*
 Stems and bracts glabrous; leaves with a broadly winged basal portion and a terminal ovate-deltoid lamina, auriculate at the base; flower-heads as in *L. glandulifera* but outer bracts longer and narrower 2. *Dunlapii*

Erect herbs :

- Achenes not compressed, about 10-ribbed, shortly beaked :
 Inner involucral bracts 5, 2–3 times as long as the outer ones; leaves pinnately sagittately lobed, denticulate with crustaceous teeth; flower-heads in lax much branched panicles 3. *taraxacifolia*
 Inner involucral bracts 8; leaves dentate or undulate with small crustaceous teeth; flower-heads rather few in the sparingly branched panicle 4. *goraeensis*
 Achenes compressed, narrowed into a long slender beak, with only one rib up the middle, glabrous; leaves linear or linear-lanceolate, sharply auriculate at the base, entire or irregularly dentate; flower-heads narrowly paniculate 5. *capensis*

1. *Lactuca glandulifera* Hook. f.—F.T.A. 3 : 454. A climbing herb, rather viscid, with pale yellow narrow flower-heads $\frac{1}{2}$ in. long.
 Cameroons Mt., 7,000–8,000 ft. (Dec., Feb.)! Exsicc.—Mann 1240; 1917.
 2. *L. Dunlapii* Hutch. & J. M. Datz. in Kew Bull. 1931 : ined. A straggling weed, nearly glabrous. Cameroons Mt., 6,000 ft. (Jan.)! Exsicc.—Dunlap 47. Maitland 226. Mildbr. 10814.
 3. *L. taraxacifolia* Schum. & Thonn.—F.T.A. 3 : 451; Chev. Bot. 378. A glabrous herb sometimes attaining 4–6 ft. in height, with pale yellow narrow flower-heads $\frac{1}{2}$ in. long; a weed of cultivated fields and waste places, sometimes cultivated.
 Senegal to Nigeria! Extends to E. Sudan and E. Africa. Exsicc.—Perrotet 2. *E. Vogelli*; 47. Barter 3414. Brown 402. Dalz. 104; 169; 993. (See Appendix).
 4. *L. goraeensis* Sch. Bip.—F.T.A. 3 : 452. *L. tuberosa* A. Chev. Bot. 379, name only. Erect branched weed like the last, 1–3 ft. high, with a stout woody rootstock.
 Senegal: Goree Island, etc. French Guinea: Farana (Jan.)! S. Nigeria: Ebute Metta! Lagos Colony, common in savannah! Extends to Abyssinia and the Red Sea; also in Angola. Exsicc.—Rowland. Millen 133. Dodd 379. Chev. 20485.
 5. *L. capensis* Thunb.—F.T.A. 3 : 452; Chev. Bot. 378. *L. holophylla* Baker. *L. sassandrensis* A. Chev. Bot. 378. A glabrous perennial herb, from a few inches to 3–4 ft. high or more from a woody stock, with lilac or darker purple narrow flower-heads $\frac{1}{2}$ – $\frac{3}{4}$ in. long.

French Sudan and French Guinea to Cameroons (Cameroons Mt. grasslands up to 10,000 ft. or higher)!