

NEW GUINEA. West. Balim R., occasional, 1938, *Brass 11811* (A, L). — East. Morobe Dist.: Boana, 1940, *Clemens 41504* (A), *41623* (A); Sarawaket, 1937, *Clemens 5906* (A); Wau subdist., Andarora, Slate R., Upper Watut, 1970, *Streimann & Kairo NGF 44555* (L). — Eastern Highlands Dist.: Goroka, 1954, *Mc Kee 1297* (L); Kainantu subdist., Nora-Kora swamp, 1966, *Wheeler ANU 5823* (L). — Western Highlands Dist.: Wabag Subdist., lower Tale valley, near Yogas village, 1960, *Hoogland & Schodde 6678* (CANB); Goroka subdist., Upper Asaro valley, c. 1 mile north of Miruma Resthouse, 1957, *Pullen 5-9* (CANB). — Southern Highlands Dist.: Upper Kaugel valley, Kumbupug'u, Kotlye, Kebaka 1962, *Bowers 118* (L).

**Collectors' annotations:** 1.50 m tall, white latex, stem reddish, leaves dull dark green above, flowers (pale) yellow, cream-coloured.

**Ecological notes:** in river marsh, garden regrowth, in tall grasslands on dry grassy ridge, on grassy hills, on peaty drained soil. Altitude 1170—1950 m.

### Sect. *Ixeris*

*Taraxacum* subgen. *Ixeris* Cassini, Bull. Sci. Soc. Philom. Paris III (1821) 173. — *Ixeris* Cassini, Dict. Sci. Nat. 24 (1822) 49; Lessing, Syn. Gen. Comb. (1832) 136, DC., Prodr. 7 (1838) 151; Kitamura, Mem. Coll. Sci. Kyoto ser. B 23, 1 (1956) 105; Ohwi, Fl. Japan (1965) 926. — *Lactuca* sect. *Ixeris* Benth. & Hook. f., Gen. Pl. 2 (1873) 526; Clarke, Comp. Ind. (1876) 260; Hoffmann in E. & P., Nat. Pf. Fam. 4, 5 (1894) 372.

**Heads** in loose panicles or corymbs, or solitary, bracts of inflorescence very small or wanting, inner phyllaries linear, herbaceous, subequal, 5—8, outer ones very short, imbricate.

**Distribution:** about 20 species in SE. Asia.

## 2. *Lactuca laevigata* (Bl.) DC.

*Prenanthes laevigata* Blume, Bijdr. (1826) 886. — *Lactuca laevigata* DC., Prodr. 7 (1838) 140; Boerl., Handl. 2 (1891) 245; Gagnepain in Lec., Fl. Gén. I.-C. 3 (1924) 655; Mattfeld, Bot. Jahrb. 62 (1929) 448; Merr., Sunyatsenia 1 (1930) 46; Koster in Backer & Bakh. f., Fl. Java 2 (1965) 437. — *Aracium laevigatum* Miq., Fl. Ind. Bat. 2 (1856) 111. — *Ixeris laevigata* Schultz-Bip. ex Engler & Maximowicz, Bot. Jahrb. 6 (1884) 69; Stebbins, J. Bot. 75 (1937) 50; Kitamura, Mem. Coll. Sci. Kyoto ser. B 23, 1 (1956) 110.

Herbs 1—85 cm tall, rhizome with numerous roots, stem terete, ribbed, subglabrous, 1—3 mm thick. **Leaves** glabrous, lanceolate, or linear- or spatulate- or oblong-lanceolate, or spatulate, gradually attenuate into a petiole or sessile, acuminate and acute at the apex, entire, undulate, undulate-denticulate or dentate, teeth with a fine, 0.5—2 mm long, often retrorse mucro, distance between teeth 2—10 mm, basal leaves rosulate (petiole included) 2.5—55 cm long, 2—28 mm broad, petiole 0.5—6 cm long, cauline leaves wanting or 1(—3), lanceolate-linear or linear, smaller. **Inflorescence** fairly thin, composed of 1—85 heads, branches and peduncles with a minute linear bract at the base, peduncles filiform, sparsely shortly pilose, 2—15 mm long, heads composed of 8—12 flowers; involucre 5—11 mm long, phyllaries subacute, minutely glandular, inner ones 7 or 8, linear, fimbriate on the top, outer ones 6, lanceolate-ovate, much smaller, 1.5 mm long, sometimes somewhat remote; corolla 6—8 mm long, tube shorter than ligule; **achene** linear, compressed, having 5 prominent ribs on both sides, glabrous, pale brown, 5—6 mm long (the 1.5—2 mm long beak included), pappus 4—5 mm long, dirty white.

**Remarks:** This species is very variable in shape and tothing of the leaves, distance between the teeth and length of the mucro of the teeth, length of petiole, number of heads and length of involucre. Mattfeld *l.c.* has already pointed out the difference between

**d. var. lamii** (Mattfeld) Koster, *nov. comb.*

*Lactuca lamii* Mattfeld, Nova Guinea 14, Bot. (1929) 530, pl. 91, fig. D; Bot. Jahrb. 62 (1929) 449. — *Ixeris lamii* Stebbins, J. Bot. 75 (1937) 50.

Short herb, 12 cm tall. Basal *leaves* subsessile (described by Mattfeld as petiolate), linear-lanceolate, tapering to the 1 mm broad base, entire, 3—7 cm long, 3—4 mm broad, cauline leaves wanting. *Head* solitary (or 2, acc. to Mattfeld, *l.c.*), peduncle 2 mm long, outer phyllaries somewhat remote.

*Distribution*: New Guinea.

NEW GUINEA. West. Mt. Doorman, region of Mamberamo R., 1940, *Lam 1700* (BO, type).

*Collectors' annotations*: stem brownish-purple, leaves glossy, scape reddish-purple, outer phyllaries dark greenish-purple, corolla yellow.

*Ecological notes*: in open, more or less plain peat. Altitude 3260 m.

**e. var. exciso-dentata** Koster, *var. nov.* — **Fig. 1 f.**

Folia exciso-dentata, dentibus subtriangularis, mucrone brevi et tenui ornatis.

*Typus*: *van Royen & Sleumer 8042* (L).

*Distribution*: Flores, the Philippines, New Guinea.

NEW GUINEA. West. Vogelkop Peninsula: Nettoti Range, Wekari R. camp, common, 1961, *van Royen & Sleumer-8042* (L, type). — East. Eastern Highlands Dist.: Goroka Subdist., near Yontegi village, between Dunantina R. and Karmanuntiga R., fairly common, 1956, *Hoogland & Pullen 5313* (LAE). — Southern Highlands Dist.: between Kendakl and Yombi, c. 6 miles north of Ialibu patrol post, 1961, *Pullen 2734* (CANB).

*Collectors' annotations*: white latex, leaves light green, corolla yellow.

*Ecological notes*: in tall grassland on hillside, on small rise in recently burnt grass-sedge bog, on stones along river. Altitude 1550—2010 m.

**3. Lactuca subacaulis** Koster, *spec. nov.* — **Fig. 1a—e.**

Herba nana, brevissima, 1—2.5 cm alta, rhizoma saepe bifurcatum, crasciusculum (3—4 mm crassum), radicibus multis crasciusculis. *Folia* rosulata, densa, sessilia, linearia, raro spathulato-linearia, ad basin dilatata, nervis parallelibus prominentibus subtus, ad apicem subobtusa, integra, crassiuscula, utrinque sparse et minute glandulosa, 7—20 mm longa, 1—1.5 mm lata. *Capitulum* solitarium, subacaule; involucrem cylindricum, 6—7 mm longum, squamis glabris, interioribus subaequalibus, lineari-lanceolatis, subacutis, marginibus albidis, exterioribus minoribus imbricatis, lanceolatis, acutis; flores in capitulo circa 10, corolla ligulata, apice 5-dentata, dentibus subacutis, 6—11 mm longa, antherae ad basin sagittatae, caudatae, caudis tenuibus, ad apicem subobtusae, styli rami lineares, obtusi, *achenium* anguste oblongo-lageniforme, ad apicem gradatim attenuatum, costatum, glabrum, ferrugineum, 3.5 mm longum, pappo 4.5 mm longo, sordido; receptaculum parvum, planum, nudum.

*Typus*: *Smith ANU 15129* (L).

*Distribution*: New Guinea.

NEW GUINEA. East. Eastern Highlands Dist.: Mt. Wilhelm, Pindaunde Valley, saddle camp, 1971, *Smith ANU 15129* (L, type); id. peak, common, 1956, *Hoogland & Pullen 5786* (CANB, L, LAE); id.,  $\frac{1}{2}$  mile past Wilhelm trig. point, 1966, *McVean & Wade ANU 7233* (L); id., east slopes, close to track below Wilhelm summit, 1965, *Walker ANU 5246* (L); id., 1960, *Borgmann 97* (L).

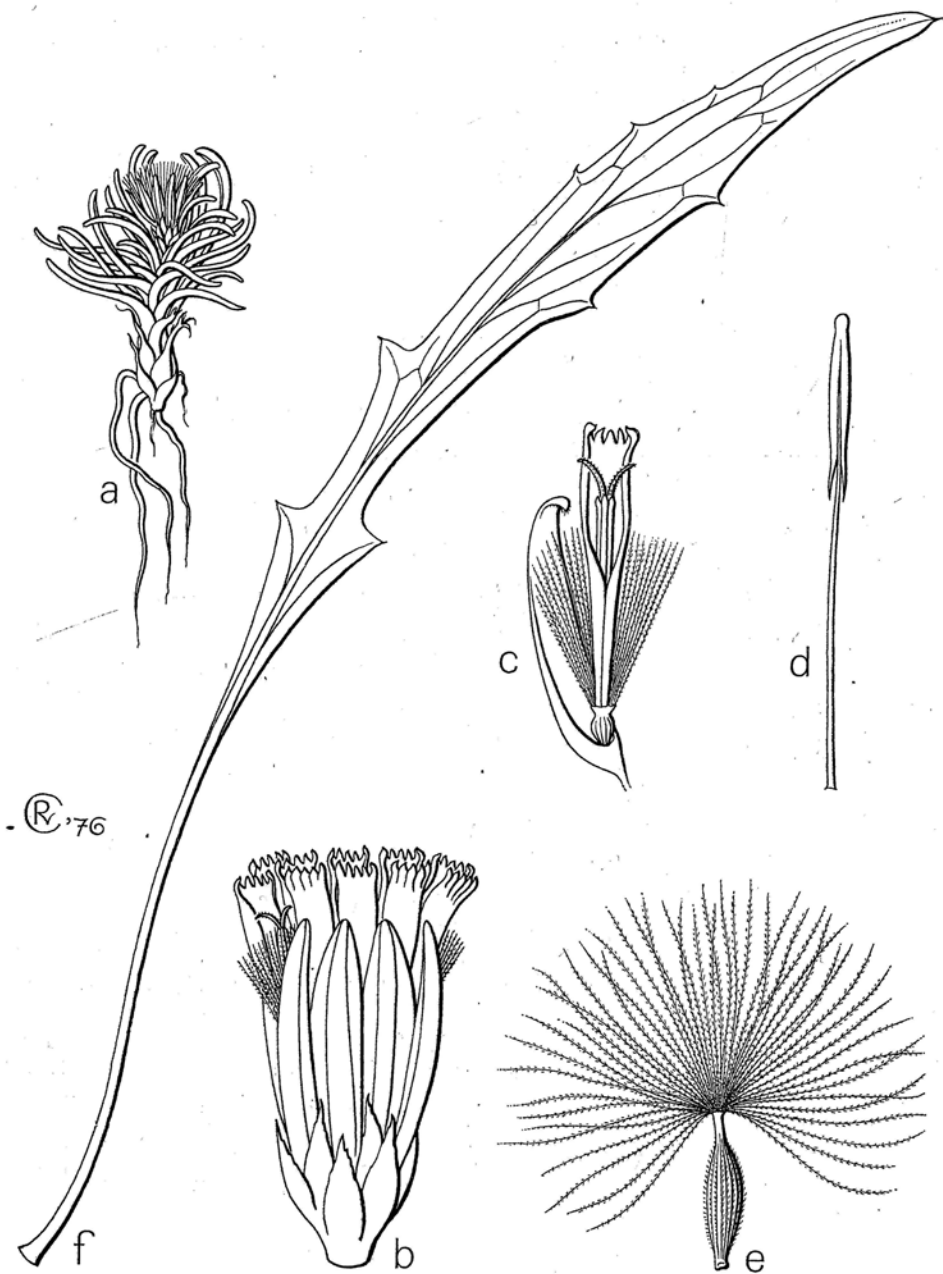


Fig. 1. *Lactuca subacaulis*. a. Habit,  $\times 1\frac{1}{3}$ ; b. head,  $\times 6\frac{1}{2}$ ; c. flower,  $\times 6\frac{1}{2}$ ; d. anther,  $\times 13\frac{1}{2}$ ; e. achene,  $\times 6\frac{1}{2}$ . — *Lactuca laevigata* var. *exciso-dentata*. f. Leaf,  $\times 1\frac{1}{3}$ . (a—c, e from Smith ANU 15129; d. from Hoogland & Pullen 5786; f. from van Royen & Sleumer 8042).