

QUELQUES ESPECES NOUVELLES DE TARAXACUM, DE FRANCE II

J. L. VAN SOEST¹

SUMMARY

Sequel to a paper in Acta Bot. Neerl. 24(2) April 1975, p. 139–154. Twelve new species of *Taraxacum* are described: *T. argillicola*, belonging to sect. *Spectabilia* Dahlst., *T. dissectiforme*, belonging to sect. *Dissecta* v.S.; *T. limnophilum*, of which the systematical situation is not yet clear; *T. eminens*, *T. exsanguineum*, *T. exsurgens*, *T. Fabrei*, *T. glandonense*, *T. providens*, *T. pubicaule*, *T. tristiceps*, *T. varens*, all belonging to sect. *Vulgaria* Dahlst.

T. argillicola v. Soest spec. nov., fig. 1.

Planta ca. 1,5 dm alta, basi subglabra. *Folia* prasino-viridia, lobata, petiolis (nervique mediano araneoso purpureo) angustis; lobi laterales utrinque 2–4, triangulares, usque ad 6 mm longi, subacuti, patentes, dorso recto vel convexo, denticulato, margine inferiore saepe paulo convexo, integro; interlobia brevina, sat lata, pro parte violaceo-maculata; lobus terminalis hastatus vel hastato-sagittatus, obtusus, usque ad 1,5(–2) cm longus, interdum incisus, raro denticulatus. *Scapi* (sub involucro dense) araneosi. *Involucrum* crassiusculum, 15 mm latum, 15 mm longum, atroviride; squamae exteriores ovatae, 4 mm latae, anguste (saepe purpureo-) marginatae. *Calathium* planum, radians, ca. 3 cm diametro, obscure luteum; ligulae marginales extus stria atropurpurea notatae. Antherae parcae polliniferae; stylus et stigmata sordide lutea. *Achenium* ignotum. E sectione *Spectabiliorum* Dahlst.

HOLOTYPE: France: Eure-et-Loir: Prairie argilleuse humide le long de la route de Senonches à Neuilly-sur-Eure (RD 20) près de Laudigerie; 23.4.1975, B. de Retz 70917; *isotypus*: herb. v.S. 55715.

T. dissectiforme v. Soest spec. nov., fig. 2.

Planta parva, 2–4 cm alta, basi crassa, araneosa. *Folia* numerosa, araneosa, petiolis pallidis angustis inclusa usque ad 5 cm longa, valde multilobata; lobi laterales anguste triangulares vel lineares, usque ad 10 mm longi, dorso et margine inferiore dentato; interlobia sat angusta, brevina, dentata, atroviolaceo-marginata, plicatula; lobus terminalis usque ad 10 mm longus, sagittatus, saepe subobtusus. *Scapi* araneosi. *Involucrum* ca. 10 mm longum et latum; squamae exteriores laxae adpressae, lanceolatae, immarginatae, 4–5 mm longae, saepe purpurascens, laeves, interiores pro parte callosae vel minute corniculatae. *Calathium* paulo radians, ca. 2 cm diametro, luteum; ligulae marginales extus stria atroviolacea notatae; antherae polliniferae; stylus et stig-

¹) J. L. van Soest, Van Soutelandelaan 35, 's Gravenhage.

mata obscure fuscescentia. *Achenium* fulvum, pyramide inclusa 4 mm longum, in pyramidem ca. 0.8 mm longam subsensim abiens; rostrum 8 mm longum; pappus albus, 5 mm longus.

HOLOTYPE: France: Pyrénées Orientales: Les Bouillouses, au niveau de l'étang colmaté de la Bouillousette, alt. env. 1980 m, sur granite; 14.6.1975, J. Lambinon 75/F/407 & J. Duvigneaud (LG); *isotypus*: herb. v.S.

Très probablement l'espèce appartient à la sect. *Dissecta* m; les caractères de la base de la plante, la forme des feuilles et des involucre sont en faveur de cette supposition. La forme des akènes est un peu critique. La sect. *Erythrosperma* Lb. & Dahlst. est très différente à ce qui concerne l'involucre; la sect. *Alpina* Hagl. diffère par le rostre court (4–5 mm).

T. eminens v. Soest, *spec. nov.*, fig. 3.

Planta ca. 3 dm alta. *Folia* glabra, prasino-viridia, sat obscura, lobata, petiolis angustis, pallide roseolis; lobi laterales utrinque ca. 5, triangulares, usque ad 25 mm longi, acuti, subretroversi, dorso convexo integro vel dentato et denticulato, margine inferiore recto integro; interlobia sat brevia, sat lata, saepe $\pm$ dentata; lobus terminalis deltoideus, usque ad 2 cm longus, subacutus, integer vel triangulariter dentatus, lobuli basales patentes, acuti. *Scapi* sub involucre araneosi, floriferi foliis paulo superantes. *Involucrum* sat crassum, 18 mm latum, 15 mm longum, atroviride; squamae exteriores laxae adpressae, anguste ovatae, angustissime marginatae, usque ad 3,5 mm latae. *Calathium* planum, ca. 3,5 cm diametro, saturate luteum; ligulae marginales stria atrovio-lacea notatae; antherae polliniferae; stylus et stigmata laete lutea. *Achenium* stramineum, maturum ignotum; pappus albus, ca. 5 mm longus. E sectione *Vulgariorum* Dahlst.

HOLOTYPE: France: Essone: Essone-Souzy, en lisière d'une chênaie sur la route d'Etréchy; 25. 4.1974; B. de Retz 70957, pro min. parte.

T. exsanguineum v. Soest, *spec. nov.*, fig. 4.

Planta robusta, 1,5–2,5 dm alta, basi araneosa. *Folia* subprasino-viridia, lobata, petiolis subalatis, pallidis vel paulo roseolis, nervo mediano $\pm$ rufescente; lobi laterales utrinque 6–7, triangulares vel $\pm$ falcati, usque ad 2,5 cm longi, acuti, $\pm$ patentes, dorso $\pm$ dentata vel denticulata, in lobis superioribus saepe integro, margine inferiore subintegro, recto vel concavo; interlobia 2–5 mm lata, usque ad 10 mm longa, plerumque dentata et denticulata; lobus terminalis brevis, usque ad 3 cm longus, deltoideus, subobtusiusculus vel acutus, interdum profunde incisus, in incisuram saepe valde plicatus et grosse dentatus. *Scapi* araneosi, floriferi foliis paulo longiores. *Involucrum* obscure olivaceo-viride, sat latum (ca. 2,5 cm), sat breve (ca. 1,5 cm), basi rotundatum; squamae exteriores patentes apice recurvae, late lanceolatae, immarginatae, in costa canovirides. *Calathium* convexum, 5 cm diametro, saturate luteum; ligulae marginales extus stria canoviolacea notatae, ligulae interiores apice aurantiae; antherae polliniferae; stylus et stigmata fusciscentia. *Achenium* stramineum, pyramide inclusa 3,3 mm longum, superne breviter spinulosum, ceterum laeve, in pyra-

midem 0,5 mm longam sensim abiens; rostrum 9–10 mm longum; pappus sordide albus, 6 mm longus. E. sectione *Vulgariorum* Dahlst.

HOLOTYPE: France: Allier: Forêt de Montpensier, près du carrefour des routes N 684 et D 36, alt. 400 m; 30.4.1974; B. de Retz 68914.

T. exsurgens v. Soest, *spec. nov.*, fig. 5.

Planta erecta, elata, ca. 3 dm alta, glabrescens. *Folia* subprasino-viridia, lobata, petiolis viridis, angustis, nervo mediano parce araneoso, $\pm$ rufescente; lobi laterales utrinque 4–6, inferiores falcati, medii et superiores late triangulares, patentes, usque ad 3 cm longi, subobtusius, dorso recto vel convexo, superiores $\pm$ integro, inferiores dentato, margine inferiore convexo vel interdum recto, saepe dentibus triangulariformibus instructo; interlobia brevina, saepe grosse dentata, $\pm$ plicatula; lobus terminalis deltoideus vel hastatus, 1–8 cm longus, 2–6 cm latus, saepe incisus, subobtusius vel obtusus, interdum breviter acuminatus. *Scapi* sub involucri $\pm$ araneosi, floriferi foliis aequilongi vel superantes. *Involucrum* crassiusculum, atroviride, 2 cm longum et latum; squamae exteriores patentes, ovatae, anguste marginatae. *Calathium* usque ad 3 cm diametro, paulo radians, luteum; ligulae marginales extus stria atroviolacea notatae, interiores apice aurantiae; antherae polliniferae, stylus et stigmata laete virescentia. *Achenium* stramineum, pyramide inclusa 4,5 mm longum, superne spinulosum, ceterum laeve, in pyramidem conico-cylindricam ca. 0,7 mm longam abrupte abiens; rostrum 7,5 mm longum, pappus albus, 5–5,5 mm longus. E sectione *Vulgariorum* Dahlst.

HOLOTYPE: France: Essone: Essone-Souzy, en lisière d'une chênaie sur la route d'Etréchy; 25.4.1975; B. de Retz 70957 pro parte.

T. Fabrei v. Soest, *spec. nov.*, fig. 6.

Planta ca. 1,5 dm alta, sat araneosa. *Folia* lobata, petiolis subalatis, pallide coloratis vel $\pm$ roseis; lobi laterales utrinque ca. 5, in foliis inferioribus et mediis falcati acuti, in foliis exterioribus sublingulati obtusi, dorso valde dentato vel inciso vel sublobulato, margine inferiore saepe dentato, in interlobiis abeuntibus; interlobia valde crispula, plicata, atromarginata, dentata vel sublobulata; lobus terminalis sagittatus elongatus, lobulo apicali lingulato subobtusius, lobuli basales $\pm$ retroversi, subacuti vel acuti; lobi laterales in foliis exterioribus $\pm$ lingulati, versus apicem $\pm$ dilatati, obtusi. *Scapi* sub involucri subdense araneosi. *Involucrum* crassum, 20 mm latum, 18 mm longum, atroviride; squamae exteriores lanceolatae, usque ad 8 mm longae, patentes, apice recurvae, in costa pallidiores. *Calathium* ca. 3 cm diametro, saturate luteum; ligulae marginales extus stria atroviolacea notatae. Antherae polliniferae; stylus et stigmata lutea, paulo virescentia. *Achenium* stramineum, pyramide inclusa 4,5 mm longum, superne grosse spinulosum, in pyramidem conicam brevem abiens; rostrum 8 mm longum; pappus albus, 5,5–6 mm longus. E sectione *Vulgariorum* Dahlst.

HOLOTYPE: France: Gard: Rochers de la Cascade d'Orgen (Massif de l'Aigoual), 11.6.1975, Chr. Bernard & G. Fabre 75–15; *isotypus*: v.S. 55933.

T. glandonense v. Soest, *spec. nov.*, fig. 7.

Planta ca. 1,5 dm alta, parce araneosa. *Folia* subprasino-viridia, lutescentia, lobata, petiolis parte inferiore angustis, parte superiore alatis, laete viridis; lobi laterales 4–5 falcati vel anguste triangulares, peracuti, paulo dentati, interdum subincisi, inferiores lineares, medii patentes, raro suberecti, superiores interdum $\pm$ recurvi; interlobia sat lata, integra vel paulo dentata; lobus terminalis elongato-hastatus vel hastato-sagittatus, saepe incisus, subacutus. *Scapi* glabrescentes. *Involucrum* turbinatum, sat laete viride, 16–18 mm longum; squamae exteriores anguste ovatae, immarginatae, in costa laete virides, valde recurvae. *Calathium* luteum, planum, 4,5 cm diametro; ligulae marginales angustae, extus stria atrovioacea notatae. Antherae polliniferae; stylus et stigmata laete virescentia. *Achenium* maturum ignotum; rostrum ca. 10 mm longum. E sectione *Vulgariorum* Dahlst.

HOLOTYPE: France: Savoie: Col du Glandon, talus de la route aux abords immédiates du Col, alt. 1900 m, 11.8.1970; B. de Retz 62940; *isotypus*: herb. v. S. 55929.

T. limnophilum v. Soest, *spec. nov.*, fig. 8.

Planta 10–12 cm alta, basi glabra. *Folia* subprasino-viridia, juveniles parce araneosa, denique glabra, lobata; petiolis anguste alatis, viridis, nervo mediano paulo rufescente; lobi laterales utrinque 2–3, breves (usque ad 9 mm longi); latissime unguiculati, subobtusius, superiores integri, inferiores minute denticulati; interlobia brevia, 2–3 mm lata, integra, parce plicatula, raro $\pm$ violaceo-maculata; lobus terminalis rotundato-sagittatus, 1–2 cm longus, valde obtusus, integer, lobuli basales retroversi obtusi, usque ad 7 mm longi. *Scapi* sub involucri parce araneosi vel glabri. *Involucrum* basi sat latum, ca. 13 mm latum et longum, obscure viride; squamae exteriores laxae patentes, ovatae, 3–4 mm latae, conspicue marginatae, $\pm$ ciliolatae, in costa rufescentes. *Calathium* ca. 3 cm diametro, saturate luteum; ligulae marginales extus stria atrovioacea notatae; antherae vacuae; stylus et stigmata laete virescentia. *Achenium* ignotum.

HOLOTYPE: France: Seine-et-Marne: Nonville, prairie marécageuse de la vallée du Lunain entre Le Landy et Chauvillé, 28.4.1975, B. de Retz 70967 pro parte.

T. providens v. Soest, *spec. nov.*, fig. 9.

Planta sat robusta, 1,5–2 dm alta, basi parce araneosa. *Folia* gramineo-viridia, lobata, juveniles araneosa, petiolis anguste alatis nervique mediano araneoso rufo-roseo; lobi laterales utrinque ca. 5, usque ad 20 mm longi, triangulares, $\pm$ retroversi, acuti, dorso convexo, integro, margine inferiore $\pm$ recto, integro; interlobia 3–7 mm lata, usque ad 10 mm longa, dentata, fusco-marginata, raro violaceo-maculata; lobus terminalis hastatus, 1–3 cm longus, obtusus, saepe incisus, lobo supra incisuram margine rotundato, lobuli basales interdum apice rotundati. *Scapi* (sub involucri dense) araneosi, floriferi foliis longiores. *Involucrum* ca. 18 mm longum et latum, obscure olivaceo-viride, basi sat

rotundatum; squamae exteriores recurvae, late lanceolatae, ca. 2,5–3 mm latae, immarginatae, in costa rufo-purpurascens. *Calathium* planum, sat radians, ca. 4 cm diametro, saturate luteum; ligulae marginales planae, extus stria cano-purpurea notatae, summis subnigrae; antherae polliniferae; stylus et stigmata virescentia. *Achenium* maturum ignotum, stramineum, rostratum; pappus albus, ca. 6 mm longus. E sectione *Vulgariorum* Dahlst.

HOLOTYPE: France: Allier: Forêt de Montpensier, près du carrefour des routes N 684 et D 36, alt. 400 m, 30.4.1974; B. de Retz 68912; *isotypus*: herb. v. S. 55763.

T. pubicaule v. Soest, *spec. nov.*, fig. 10.

Planta ca. 1 dm alta. *Folia* subprasino-viridia, araneosa, lobata, petiolis (nervique mediano parte inferiore dilute purpureo) late alatis; lobi laterales utrinque 3–5, triangulares, acuti, dorso integro vel denticulato, paulo convexo, margine inferiore recto vel paulo concavo, integro; interlobia 3–5 mm lata, integra vel dentibus instructo, pro parte piceo-maculata, maculi interdum in paginem loborem descendentes; lobus terminalis deltoideus vel hastatus, interdum incisus, lobo supra incisuram interdum apice rotundato, 1–2,5 cm longus, obtusus, saepe in apicibus deltoideus breviter contractus. *Scapi* valde araneosi, floriferi foliis breviores. *Involucrum* basi subturbinatum, ca. 12 mm longum, ca. 14 mm latum, obscure olivaceo-viride; squamae exteriores ovatae vel late lanceolatae, in apicem sat longum contractae, extremo lineari, immarginatae vel inconspicue pallidi-marginatae, recurvae, in costa rufo-purpurascens. *Calathium* paulo radians, 2,5 cm diametro, saturate luteum; ligulae marginales sat breves, extus stria atrovioleacea notatae; antherae vacuae; stylus et stigmata fusco-virescentia; floret vere. *Achenium* (immaturum) stramineum, superne spinulosum, in pyramidem brevem abiens; rostrum ca. 10 mm longus; pappus albus, ca. 5 mm longus. E sectione *Vulgariorum* Dahlst.

HOLOTYPE: France: Yvelines: Bords de la route D 24, peu avant son entrée à l'est du village d'Auffargis, 24.4.1971; B. de Retz 64460.

T. tristiceps v. Soest, *spec. nov.*, fig. 11.

Planta ca. 2 dm alta, basi araneosa. *Folia* gramineo-viridia, lobata, petiolis alatis nervique mediano araneoso rufopurpureo; lobi laterales utrinque ca. 6, patentes, anguste lingulati, pro parte obtusi, dorso magis dentato, in interlobiis abeuntibus, margine inferiore integro; interlobia valde sublobulata et dentata, parce plicatula $\pm$ fusco-marginata; lobus terminalis indistincte determinatus, ca. 1–2 cm longus, valde incisus, lobulo apicali $\pm$ lingulato, interdum mucronulato. *Scapi* parce araneosi, floriferi foliis longiores. *Involucrum* ca. 18 mm longum et latum, subturbinatum, atroviride; squamae exteriores ovatae vel late lanceolatae, patentes, in costa obscura fusco-violeacea. *Calathium* ca. 4 cm diametro, luteum; ligulae marginales angustae, extus stria atrovioleacea notatae. Antherae vacuae; stylus et stigmata obscure fusciscentia. *Achenium* maturum ignotum, stramineum; rostrum 8(?) mm longum; pappus albus, 6 mm longus. E. sectione *Vulgariorum* Dahlst.

HOLOTYPE: France: Allier: Forêt de Montpensier, près du carrefour des routes N-684 et D-36, alt. 400 m, 30. 4.74; B. de Retz 68911.

T. varensae v. Soest, *spec. nov.*, fig. 12.

Planta ca. 2 dm alta. *Folia* glabra, sublutescenti-viridia, saepe paulo purpurascentia, lobata, petiolis angustis, purpureis, nervique mediano praesertim parte inferiore roseo; lobi laterales utrinque 4–5, inferiores lineari subulato-denticulati vel dentiformes, medii et superiores in foliis plurimis anguste triangulares vel saepe a basi lata dorso valde convexo in apicem saepe longum subdilatatum patentem vel porrigentem protracti, saepissime integri; interlobia angusta usque ad 15 mm longa, anguste dentata vel denticulata, saepe lobulis linearibus instructa; lobus terminalis $\pm$ trifidus, lobulis basalibus triangularibus patentibus, interdum acutis, lobulo apicali obtuso vel subobtusio. *Scapi* sub involucri araneosi, floriferi foliis superantes. *Involucrum* mediocre, subturbinatum ca. 13 mm longum et latum, sat obscure olivaceo-viride; squamae exteriores recurvatae, ovatae, marginatae, laeves, apice $\pm$ purpureae, in costa saepe purpurascentes, interiores sub apice callosae, apice atropurpureae. *Calathium* ca. 2,5 cm diametro, luteum. Ligulae marginales planae, extus stria atrovioleacea ornatae; antherae polliniferae; stylus et stigmata fuscescentia. *Achenium* stramineum, pyramide inclusa 3,7 mm longum, superne spinulosum, in pyramidem conico-cylindricam, 0,7 mm longam subsensim abiens. Rostrum 9–10 mm longum; pappus albus, ca. 6 mm longus.

HOLOTYPE: France: Var: le long de la route de Nans à Plan d'Aups (D 80), pied des rochers au ravin du Colombier, alt. 550 m, 14.5.1972; B. de Retz 60521.

L'espèce, très probablement, appartient à la section *Vulgaria* Dahlst., mais elle ressemble certaines espèces de la section *Erythrosperma* Dahlst. (groupe *Dissimilia* Dahlst.). Le pyramide de l'akène et la forme de l'involucre sont en faveur de la première section.



Fig. 1. *T. argillicola*, Isotypus.

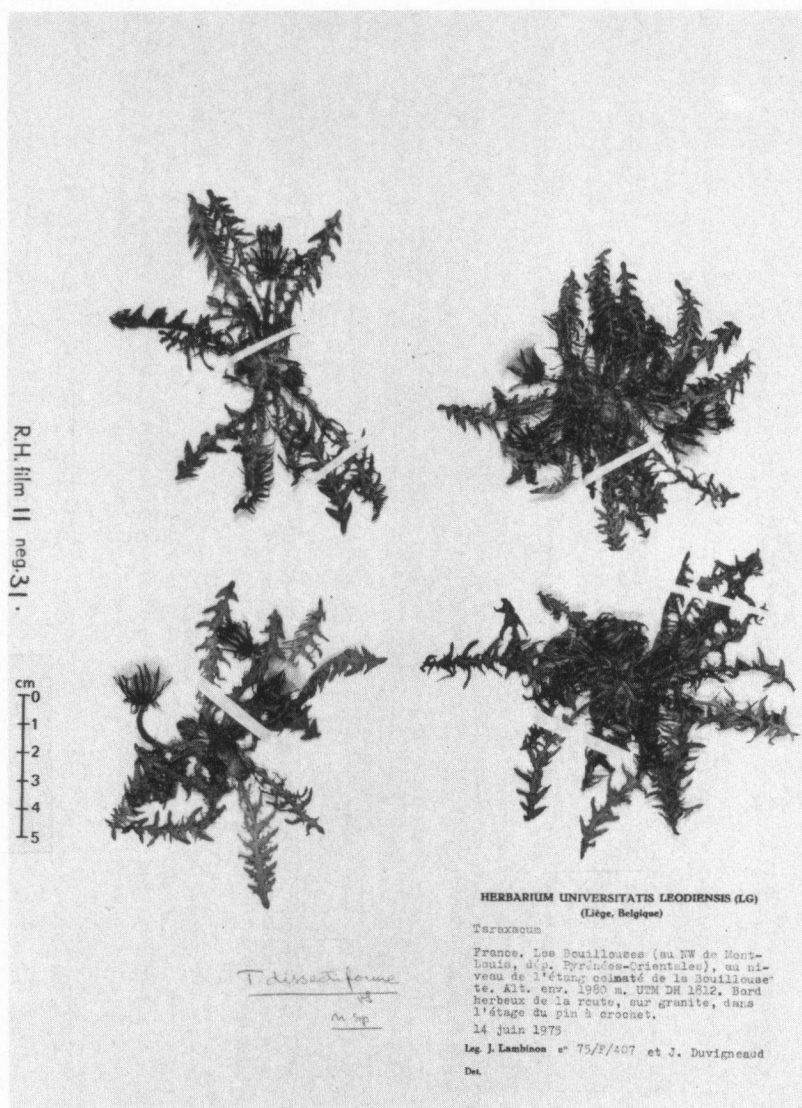


Fig. 2. *T. dissectiforme*, Holotypus.

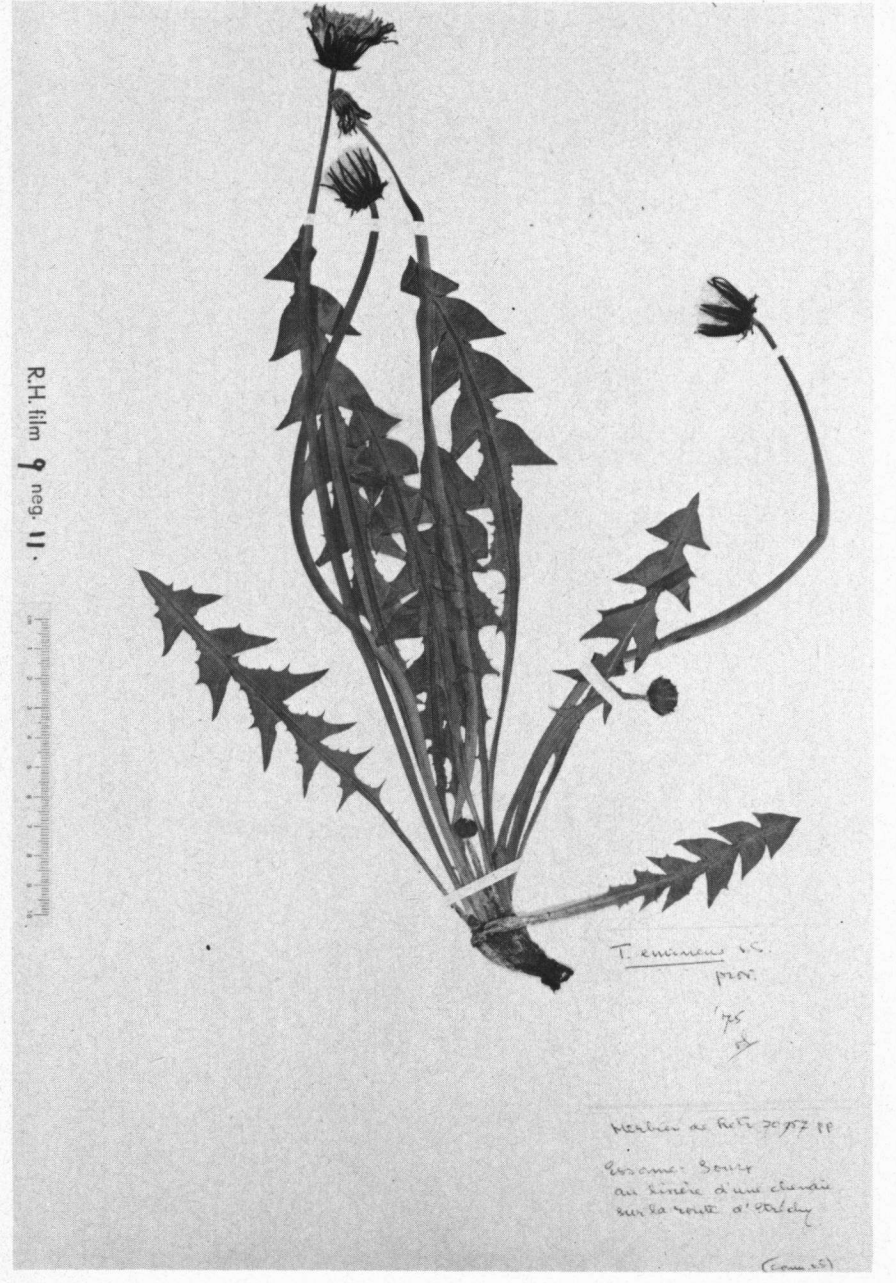


Fig. 3. *T. eminens*, Isotypus.

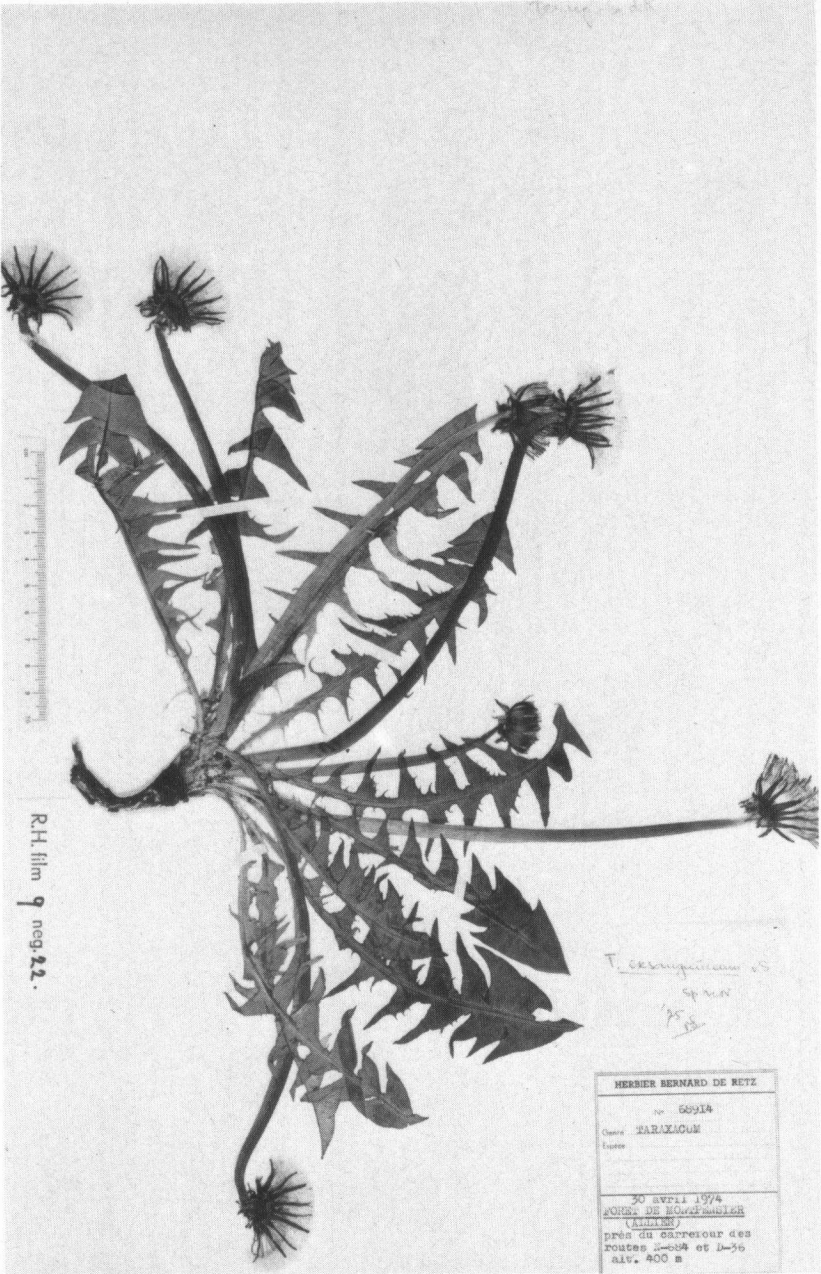


Fig. 4. *T. exsanguiueum*, Holotypus.



Fig. 5. *T. exurgens*, Isotypus.

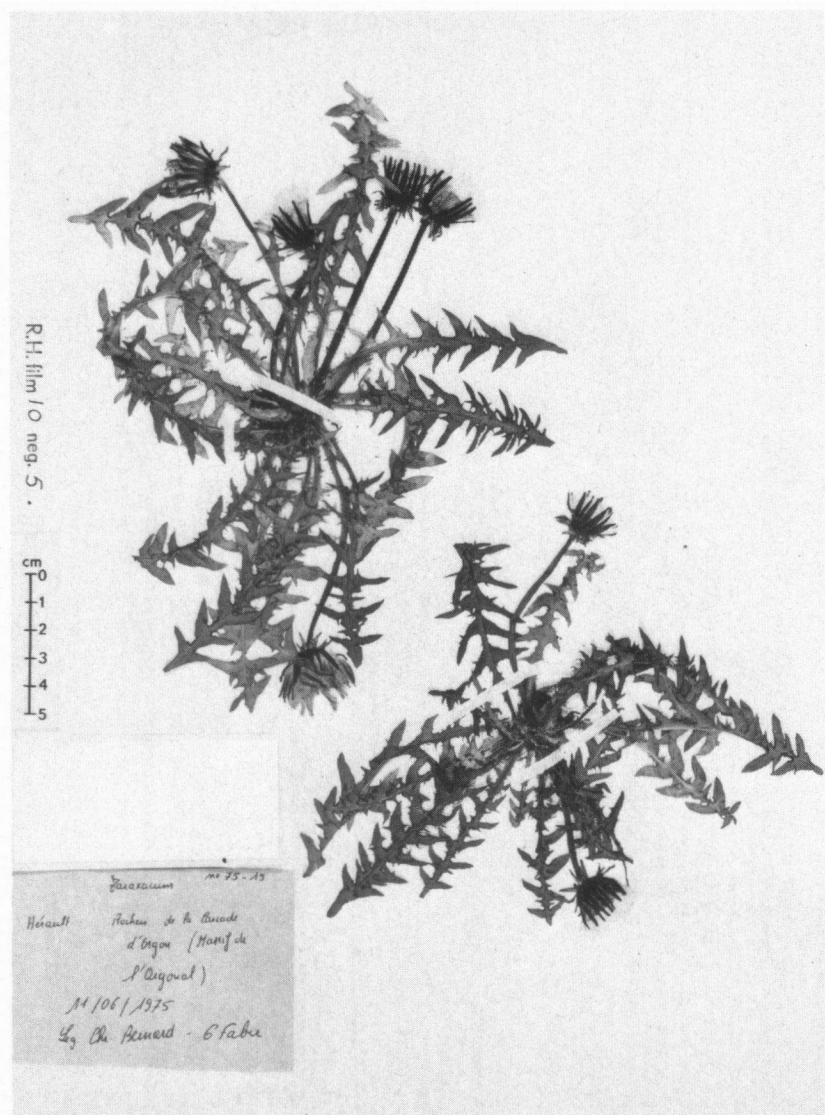


Fig. 6. *T. Fabrei*, Typus.

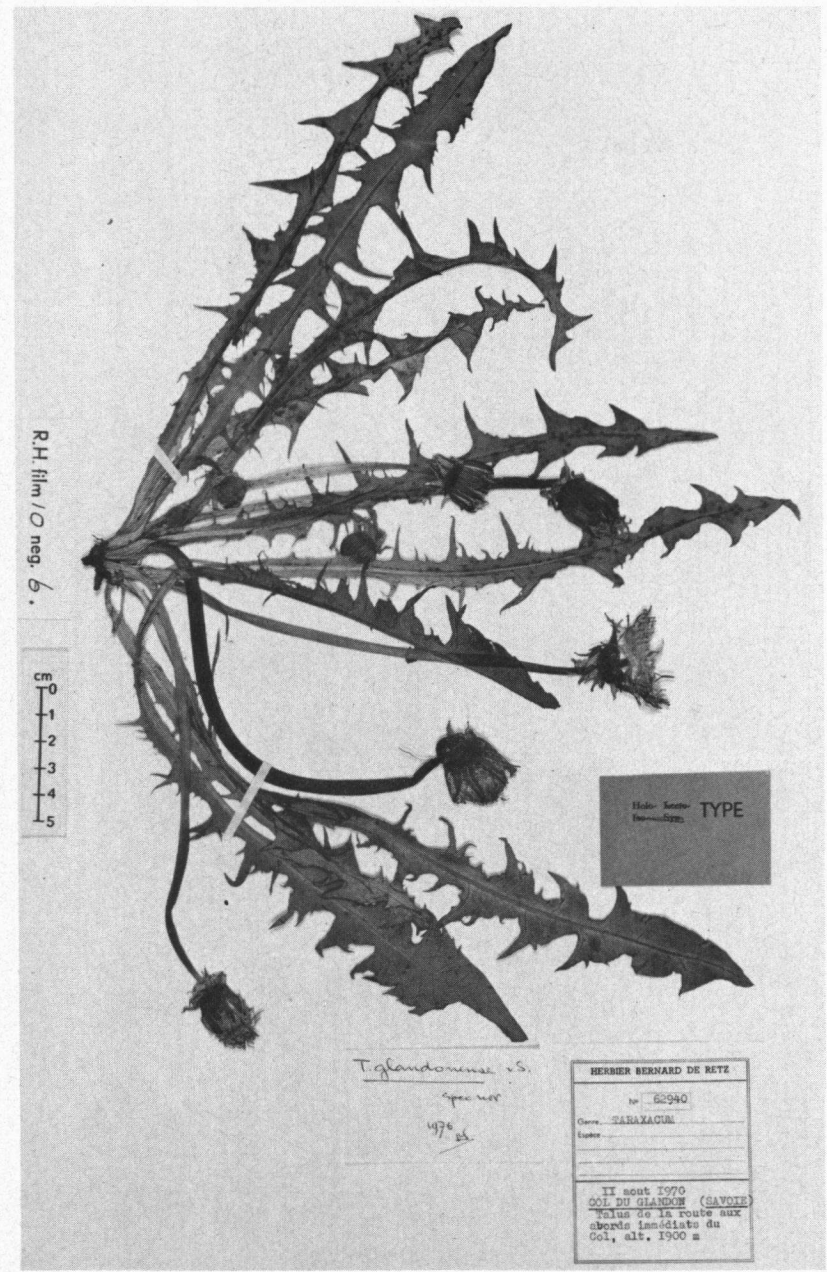


Fig. 7. *T. glandonense*, Holotypus.

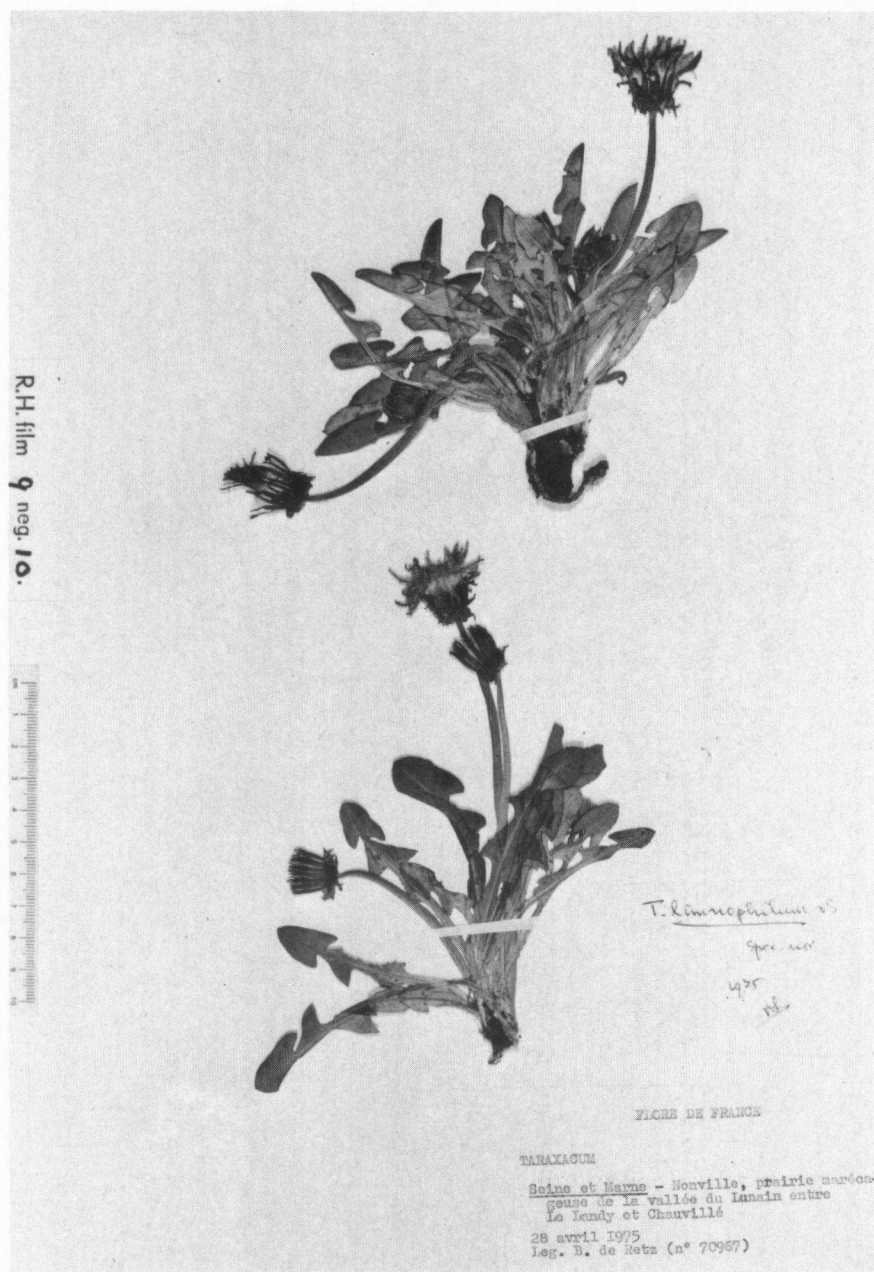


Fig. 8. *T. limnophilum*, Typus.

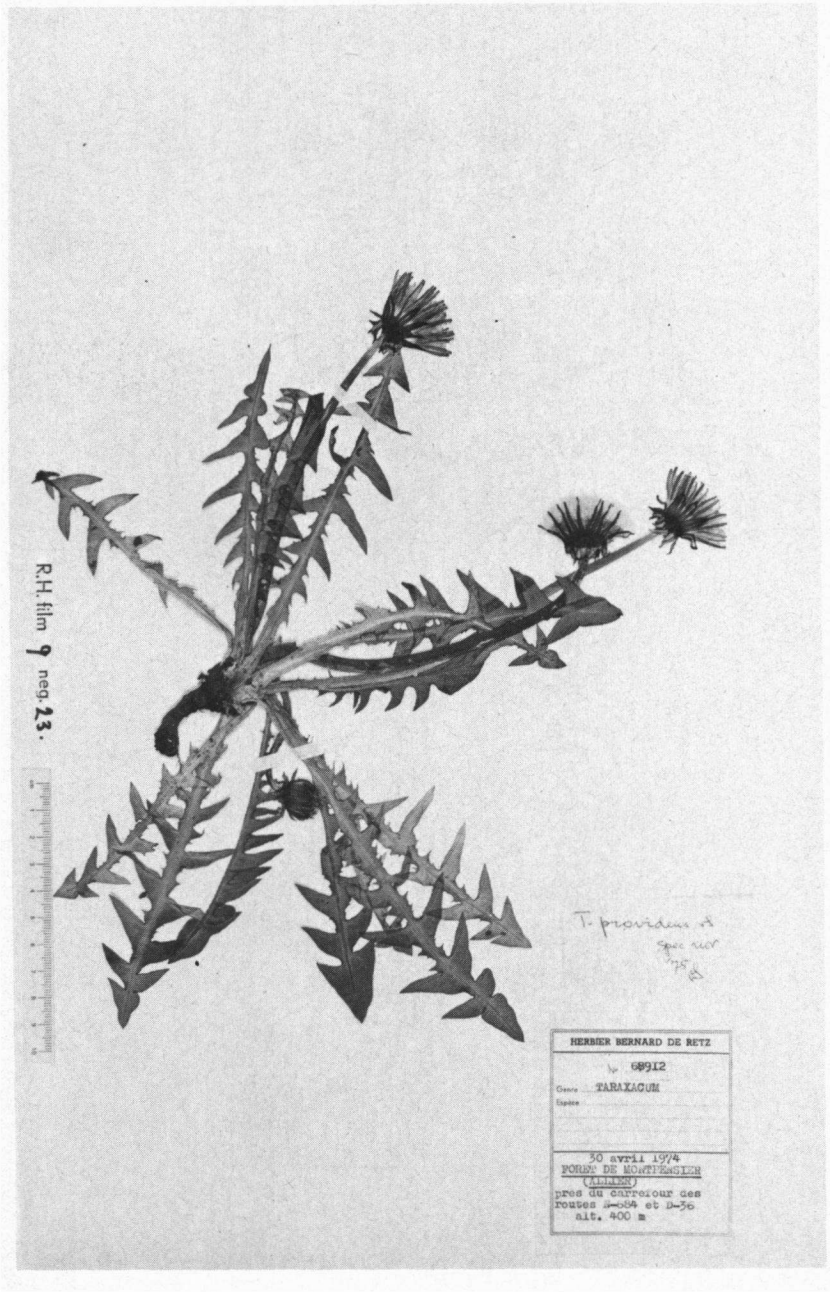


Fig. 9. *T. providens*, Holotypus.

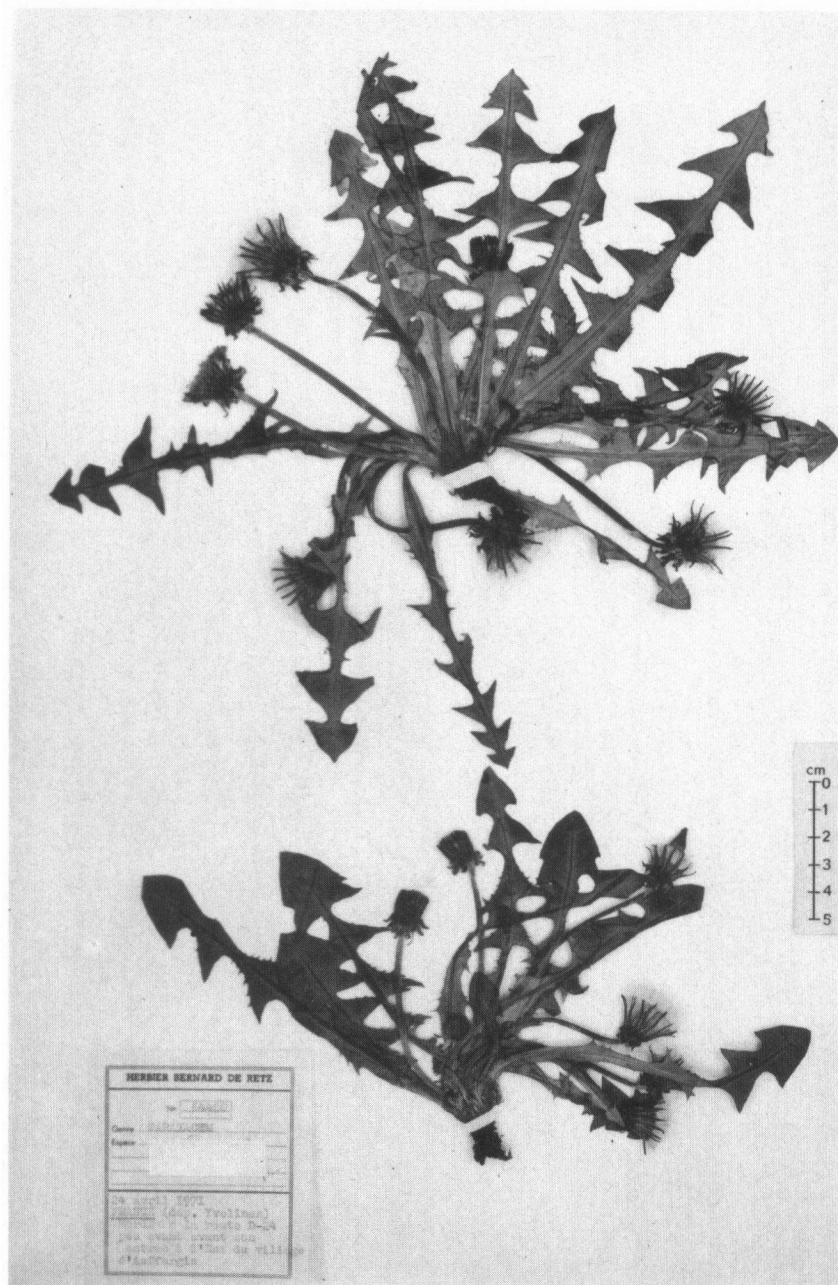


Fig. 10. *T. pubicaule*, Holotypus.

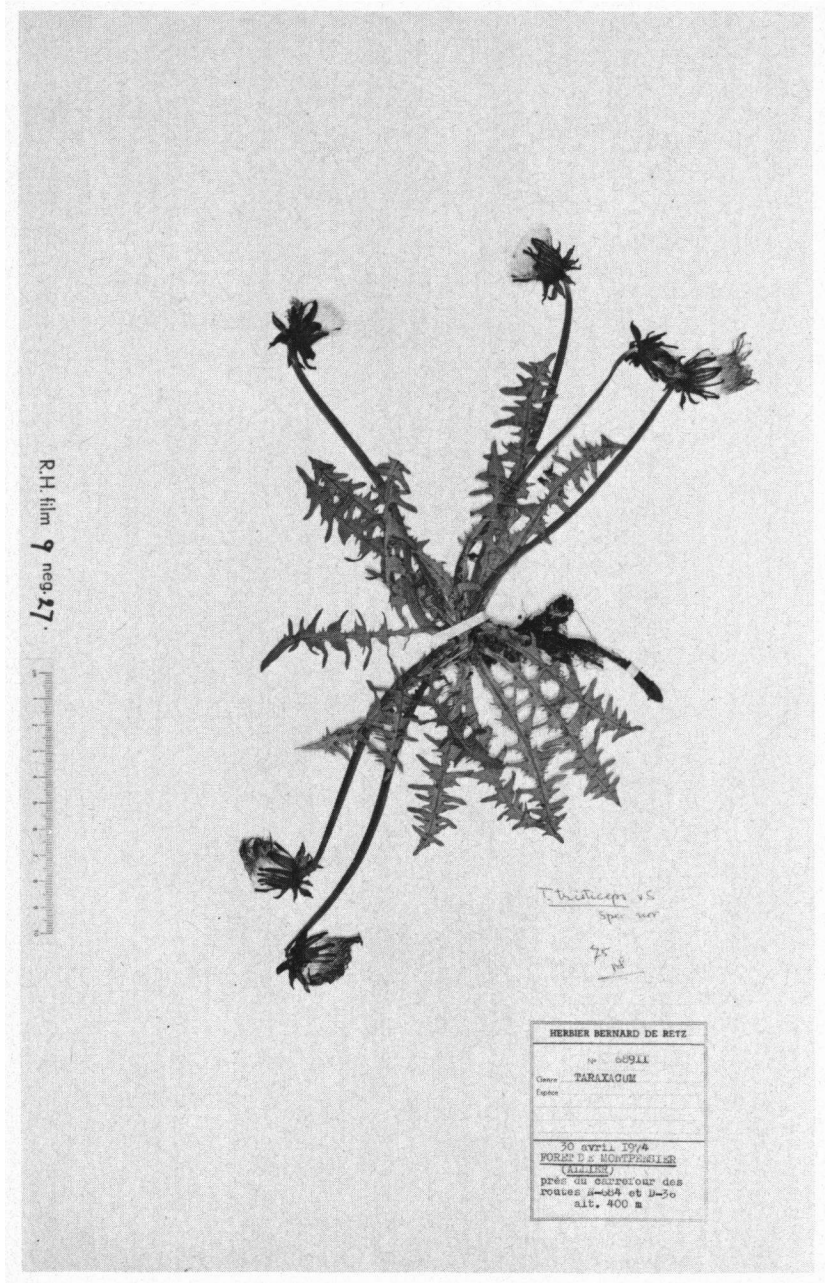


Fig. 11. *T. tristiceps*, Holotypus.



Fig. 12. *T. varensae*, Holotypus.