

Notes on the series of *Taraxaca Exsiccata*, Fasc. I-IV (Studies in *Taraxacum* 9.)

Poznámky o exsikátové sbírce *Taraxaca Exsiccata*, svazek I-IV
(Studie rodu *Taraxacum* 9.)

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K e y w o r d s : *Taraxacum* sect. *Palustris*, *T.* sect. *Ruderalia*, *T.* sect. *Sonchidium*, taxonomy, nomenclature, exsiccate series

A list of the exsiccate series of *Taraxaca Exsiccata*, Fasc. I-IV is provided. Five new species are described, *Taraxacum subdolum*, *T. irrigatum* and *T. uliginosum* of the sect. *Palustris*, *T. guttigestans* and *T. elegantius* of *Ruderalia*. Nomenclature of *T. montanum* is discussed and the name *T. sonchoideum* is shown to be correct for that taxon. A lectotype is selected for *T. divulsifolium* van Soest.

Introduction

In the genera with complicated taxonomy, exsiccate series represent an important means for precise interpretation of the names of taxa. In *Taraxacum*, more than 3000 species names have been published, and in most cases their protologues do not provide a satisfactory information allowing understanding and correct taxonomic treatment. Many of these names are likely to be abandoned or misinterpreted due to poor quality of the original material. Thus it is not surprising that many taraxacologists have distributed duplicates of their collections in the form of numbered exsiccates in order to disseminate their taxonomic concepts. H. Dahlstedt (*Tarax. Scand. Exs.* 1-288, 1911-1917), H. Lindberg (in *Pl. Finl. Exs.*, 164 nos., 1944), van Soest (*Tarax. Neerl. Exs.*), Saarsoo (in *Pl. Eston.*) and H. Oellgaard (in *Soc. Éch. Pl. Vasc. Eur. Occid.*) should be mentioned among them.

Since 1984, a series of *Taraxaca Exsiccata* has been edited by the authors. The series contains collections by the members of the International Taraxacological Group and other contributors, and is issued and regularly distributed not only among the members but also in some herbaria where important *Taraxacum* collections are preserved. All the annual fascicles were sent to the following botanists and institutions: Czechoslovakia (PR, BRNU), Russia (LE), Austria (WU), Germany (B, M), Denmark (H. Oellgaard, E. Wessberg), Finland (C. E. Sonck), U.K. (A. J. Richards, R. J. Pankhurst, C. C. Haworth, A. Rundle), Netherlands (A. Hagendijk, P. Oosterveld, H. Zevenbergen). Occasionally, some sets were sent to other herbaria, e.g., KRAM, S, LG, and some new members joined the Group recently.

In the present paper, a list of the taxa issued in the series (supplemented with brief localisation and other data) is given. Some taxonomic and nomenclatural problems are accorded special remarks, and validation of five names is provided. Chromosome

number records are given in the case they have been ascertained in the plants of a given local population (methods are described in *Folia Geobot. Phytotax.* 20: 407-417, 1985). Chromosome counts were examined in 30 samples, some of them represent the first species chromosome records. Most of the localities represent new records for a given country (the majority of them in Czechoslovakia).

Abbreviations and special terms

JK = J. Kirschner

JŠ = J. Štěpánek

country abbreviations - according to *Flora Europaea*

cult. = cultivated at the Experimental Garden, Průhonice, ČSFR

pseudoisotypus: plants cultivated from seeds of the type plant

voucher specimens: in the herbarium of the authors, if not otherwise stated.

A list of *Taraxaca Exsiccata* included in Fasc. I-IV

Fasciculus I. (1984)

1. *T. (Erythrosperma) pseudolacistophyllum* van Soest 1956. - Cz, Praha, Hostivař. 1984. L. Kirschnerová et JK.
2. *T. (Erythrosperma) pseudolacistophyllum* van Soest - Cz, Beroun, Sýkořice. 1984. JŠ.
3. *T. (Erythrosperma) pseudolacistophyllum* van Soest - Cz, Praha, Průhonice. 1983. JK et JŠ. Det. H. Oellgaard.
Note: $2n = 24$ (det. JK sub no 237/83).
4. *T. (Palustria) bohemicum* Kirschner et Štěpánek 1986. - Cz, Holice, Trusnov, Lohant. 1984. JŠ. (ISOTYPI!)
5. *T. (Palustria) bohemicum* Kirschner et Štěpánek - Cz, Holice, Chvojenec, Šmatlán. 1983. JŠ. (PARATYPI!)
6. *T. (Ruderalia) copidophyllum* Dahlstedt 1910. - Cz, Pardubice, Rokytno. 1984. JŠ.
7. *T. (Palustria) domabile* Kirschner et Štěpánek 1986. - Cz, Královský Chlmec, Leles. 1984. JK. (PARATYPI!)
Note: $2n = 40$ (cf. *Preslia* 58: 102, 1986).
8. *T. (Palustria) hollandicum* van Soest 1942. - Cz, Chlumec nad Cidlinou, Proudnický rybník. 1983. L. Kirschnerová, JK et JŠ.
9. *T. (Palustria) hollandicum* van Soest - Cz, Pardubice, Rokytno. 1983. JŠ.
Note: $2n = 24$ (cf. *Folia Geobot. Phytotax.* 20: 409, 1985).
10. *T. (Palustria) hollandicum* van Soest - Cz, Nový Bydžov, Kobylice. 1983. L. Kirschnerová et JK.
11. *T. (Palustria) hollandicum* van Soest - Cz, Opočno, Zbytka. 1984. JK.
Note: $2n = 24$ (cf. *Folia Geobot. Phytotax.* 20: 409, 1985).
12. *T. (Palustria) paucilobum* Hudziok 1965. - Ge, Brandenburg, Zossen, Mellensee. 1983. JK et JŠ.
Note: $2n = 24$ (cf. *Folia Geobot. Phytotax.* 20: 410, 1985).
13. *T. (Palustria) paucilobum* Hudziok - Cz, Nymburk, Kersko. 1983. L. Kirschnerová, JK et JŠ.
Note: $2n = 24$ (cf. *Folia Geobot. Phytotax.* 20: 410, 1985).
14. *T. (Palustria) paucilobum* Hudziok - Cz, Opočno, Zbytka. 1984. JK.
Note: $2n = 24$ (cf. *Folia Geobot. Phytotax.* 20: 410, 1985).
15. *T. (Palustria) paucilobum* Hudziok - Cz, Mělník, Mělnická Vrutice. 1984. J. Štěpánková et al.
16. *T. (Palustria) subalpinum* Hudziok 1965. - Cz, Chlumec nad Cidlinou, Hradištko. 1984. JK.
Note: $2n = 24$ (cf. *Folia Geobot. Phytotax.* 20: 412, 1985).
17. *T. (Palustria) subalpinum* Hudziok - Ge, Brandenburg, Luckenwalde, Schöneweide. 1983. JK et JŠ.
Note: $2n = 24$ (cf. *Folia Geobot. Phytotax.* 20: 412, 1985).
18. *T. (Celtica) nordstedtii* Dahlstedt 1911. - Cz, Beroun, Lišná. 1982. J. Štěpánková et JŠ.
Note: $2n = 48$ (cf. *Folia Geobot. Phytotax.* 19: 292, 1984).
19. *T. (Celtica) nordstedtii* Dahlstedt - Cz, Žďár nad Sázavou, Počítky. 1984. JŠ.
20. *T. (Ruderalia) alanum* Lindberg fil. 1907. - Cz, Praha, Petrovice, Pitkovický potok. 1984. JŠ.
21. *T. (Ruderalia) alanum* Lindberg fil. - Cz, Praha, Jižní Město. 1983. JŠ.
22. *T. (Ruderalia) alanum* Lindberg fil. - Cz, Třeboň, Veselí nad Lužnicí. 1984. JK.
23. *T. (Ruderalia) alanum* Lindberg fil. - Cz, Chlumec na Cidlinou, Zdražany, Beran. 1984. JK.
24. *T. (Ruderalia) pulchrifolium* Marklund 1938. - Cz, Praha, Petrovice, Pitkovický potok. 1984. JŠ.
25. *T. (Ruderalia) pulchrifolium* Marklund - Cz, Praha, Průhonice. 1983. JK et JŠ. Det. H. Oellgaard.
Note: $2n = 24$ (det. JK sub no 236/83).

Fasciculus II. (1986)

26. *T. (Erythrocarpa) calocephalum* Handel-Mazzetti 1907. – Gr, Epeiros, Ioannina, Monodendri. 1984. C. E. Sonck.
27. *T. (Erythrocarpa) calocephalum* Handel-Mazzetti – Gr, Peloponnesos, Lakonia, Karye. 1984. C. E. Sonck.
28. *T. (Palustria) telmatophilum* Kirschner et Štěpánek 1986. – Cz, Štúrovo, Obid, 1984. JŠ. (ISOTYPI!)
Note: $2n = 24$ (cf. Preslia 58: 106, 1986).
29. *T. (Palustria) telmatophilum* Kirschner et Štěpánek – Cz, Bratislava, Vajnory. 1985. JŠ. (PARATYPI!)
30. *T. (Palustria) cognatum* Kirschner et Štěpánek 1986. – Cz, Bučovice, Kloboučky. 1985. V. Grulich et JK. (PARATYPI!)
31. *T. (Palustria) cognatum* Kirschner et Štěpánek – Cz, Hodonín, Očovské louky. 1985. JŠ. (PARATYPI!)
32. *T. (Palustria) balticum* Dahlstedt 1905. – Su, Gotland, Roma, Kyrkebinge. 1979. P. Oosterveld.
33. *T. (Palustria) balticum* Dahlstedt – Su, Oeland, Borgholm, Sandbytorp. 1983. P. Oosterveld.
34. *T. (Palustria) irrigatum* Kirschner et Štěpánek, sp. nov. – Cz, Chlumeck nad Cidlinou, Žehuň, Žiželice, Žehuňský rybník. 1985. A. van der Hulst et al. (PARATYPI!)
35. *T. (Palustria) irrigatum* Kirschner et Štěpánek, sp. nov. – Cz, Mělník, Mělnická Vrutice. 1985. JŠ. (PARATYPI!)
36. *T. (Palustria) irrigatum* Kirschner et Štěpánek, sp. nov. – Cz, Chlumeck nad Cidlinou, Žehuň, Choťovice, wet meadows at the pond Žehuňský rybník. 1985. JŠ. (ISOTYPI!)
37. *T. (Palustria) mendax* Kirschner et Štěpánek 1985. – Cz, Mts. Chočské vrchy, Dolný Kubín, Malatiná. 1985. JŠ.
38. *T. (Palustria) mendax* Kirschner et Štěpánek – Cz, Stará Lubovňa, Údol, locality Skalky. 1985. JŠ.
39. *T. (Palustria) mendax* Kirschner et Štěpánek – Cz, Mts. Velká Fatra, Žarnovická dolina. 1985. JK.
40. *T. (Palustria) mendax* Kirschner et Štěpánek – Cz, Mts. Malá Fatra, Terchová. 1985. JK.
Note: $2n = 40$ (cf. Folia Geobot. Phytotax. 20: 413, 1985).
41. *T. (Palustria) paucilobum* Hudziok 1965. – Cz, Chočské vrchy, Ružomberok, Stankovany. 1985. JK.
42. *T. (Palustria) skalinskanum* Malecka et van Soest 1972. – Cz, Jaroměř, České Mezířiči, "Zbytka". 1984. JK.
Note: $2n = 40$ (cf. Folia Geobot. Phytotax. 20: 412, 1985).
43. *T. (Palustria) skalinskanum* Malecka et van Soest – Cz, Mts. Velká Fatra, Žarnovická dolina. 1985. JK.
44. *T. (Palustria) skalinskanum* Malecka et van Soest – Cz, Mts. Malá Fatra, Terchová. 1985. JK.
45. *T. (Palustria) skalinskanum* Malecka et van Soest – Cz, Nízke Tatry, Banská Bystrica, Moštenica. 1985. JK.
46. *T. (Palustria) skalinskanum* Malecka et van Soest – Cz, Mts. Chočské vrchy, Malatiná. 1985. JŠ.
47. *T. (Palustria) skalinskanum* Malecka et van Soest – Cz, Hodonín, meadows "Očovské louky". 1985. JŠ.
48. *T. (Ruderalia) interventiens* Haglund 1937. – Cz, Chlumeck nad Cidlinou, Hradištko. 1984. JK.
49. *T. (Ruderalia) interventiens* Haglund – Cz, Praha, Petrovice, Pitkovický potok. 1984. JŠ.
50. *T. (Ruderalia) interventiens* Haglund – Cz, Mohelnice, Nové Mlýny. 1985. A. van der Hulst et al.
51. *T. (Ruderalia) laciniatum* Marklund 1938. – Cz, Rokycany, Svojkovice. 1985. JŠ.
52. *T. (Ruderalia) laciniatum* Marklund – Cz, Praha, Petrovice, Pitkovický potok. 1984. JŠ.
53. *T. (Ruderalia) obtusifrons* Marklund 1940. – Cz, Vysoké Mýto, Na Vinicích. 1985. A. van der Hulst & al.
54. *T. (Ruderalia) obtusifrons* Marklund – Cz, Praha, Průhonice. 1983 et 1984. JK et JŠ.
55. *T. (Ruderalia) obtusifrons* Marklund – Cz, Praha, Bot. Gard. of Charles University. 1983. JK et JŠ.
56. *T. (Ruderalia) obtusifrons* Marklund – Cz, Trutnov, Malé Svatoňovice. 1985. JK.

Fasciculus III. (1987)

57. *T. (Ruderalia) guttigestans* H. Oellgaard, sp. nov. – Da, isl. Bornholm, Saltuna, Lundebrø. 1986. H. Oellgaard.
58. *T. (Ruderalia) guttigestans* H. Oellgaard, sp. nov. – Cz, Spišské Podhradie, Sivá Brada. 1984. JŠ.
59. *T. (Ruderalia) elegantius* Kirschner, H. Oellgaard et Štěpánek, sp. nov. – Cz, Stará Boleslav. 1985. A. van der Hulst & al. (PARATYPI!)
60. *T. (Ruderalia) elegantius* Kirschner, H. Oellgaard et Štěpánek, sp. nov. – Cz, Lysá nad Labem, Semice. 1984. JŠ. (PARATYPI!)
61. *T. (Ruderalia) elegantius* Kirschner, H. Oellgaard et Štěpánek, sp. nov. – Cz, Holice, Trusnov, Lodrant. 1984. JŠ. (PARATYPI!)
62. *T. (Ruderalia) elegantius* Kirschner, H. Oellgaard et Štěpánek, sp. nov. – Cz, Mělník, Velký Borek. 1985. JŠ. (PARATYPI!)
63. *T. (Ruderalia) elegantius* Kirschner, H. Oellgaard et Štěpánek, sp. nov. – Cz, Lysá nad Labem. 1985. A. van der Hulst, J. C. M. den Nijs, JK et JŠ. (PARATYPI!)
64. *T. (Ruderalia) elegantius* Kirschner, H. Oellgaard et Štěpánek, sp. nov. – Cz, Praha, Petrovice. 1986. JŠ. (PARATYPI!)
Note: $2n = 24$ (see below).

65. *T. (Palustria) brandenburgicum* Hudziok 1967. – Cz, Chlumec nad Cidlinou, Hradištko. 1986. J. Rydlo et JŠ.
66. *T. (Palustria) calcem-amans* Hudziok 1969. – Cz, Mělník, Mělnická Vrutice. 1985. JŠ.
67. *T. (Palustria) calcem-amans* Hudziok – Cz, Chočské vrchy, Ružomberok, Stankovany. 1985. JK.
Note: $2n = 24$ (det. JK sub no. 68/84, 70/84).
68. *T. (Palustria) calcem-amans* Hudziok – Cz, Mts. Velká Fatra, Žarnovická dolina. 1985. JK.
69. *T. (Palustria) cognatum* Kirschner et Štěpánek 1986. – Cz, Malacký, Studienka, Rudava. 1986. JK.
70. *T. (Palustria) gelricum* van Soest 1965. – Ho, Gelderland, Nijkerk. 1986. JK.
71. *T. (Erythrosperma) lacistophyllum* (Dahlstedt) Raunk 1906. – Ho, isl. Terschelling, Oosterend. 1986. JK.
72. *T. (Ruderalia) nitidum* Hagendijk, van Soest et Zevenbergen 1976. – Ho, Zuid Holland, Spijkenisse, Schenkelweg. 1985. A. Hagendijk. Det. A. Hagendijk, P. Oosterveld and H. Zevenbergen.
73. *T. (Celtica) nordstedtii* auct., non Dahlstedt – Ho, Gelderland, Nijkerk. 1986. JK.
Note: the "occidental modification", cf. Folia Geobot. Phytotax. 19: 287-297. 1984.
74. *T. (Celtica) nordstedtii* Dahlstedt 1911. – Cz, Strakonice, Mladotice. 1986. JK et al.
75. *T. (Ruderalia) oblongatum* Dahlstedt in Druce 1930. – Ho, Zuid Holland, Spijkenisse. 1985. A. Hagendijk.
76. *T. (Hamata) pseudohamatum* Dahlstedt in Druce 1932. – Br, Anglia, Cumberland, Whitehaven. 1986. C. C. Haworth.
77. *T. (Ruderalia) pulchrifolium* Marklund 1938. – Cz, Poděbrady. 1985. A. van der Hulst et al.
78. *T. (Ruderalia) pulchrifolium* Marklund – Cz, Trutnov, Malé Svatoňovice. 1985. JK.
79. *T. (Palustria) subdolum* Kirschner et Štěpánek, sp. nov. – Cz, Spišské Podhradie, Baldovce. 1984. JŠ. (ISOTYPI!)
Note: $2n = 24$ (see below).
80. *T. (Palustria) subdolum* Kirschner et Štěpánek, sp. nov. – Cz, Poděbrady, Chořovice, Žehuňský rybník. 1985. JŠ. (PARATYPI!)
Note: $2n = 24$ (det. JK sub no. 75/84).
81. *T. (Palustria) subdolum* Kirschner et Štěpánek, sp. nov. – Cz, Martin, Šútovo. 1985. JŠ.
82. *T. (Erythrosperma) tortilobum* Florstroem 1914. – Ho, isl. Terschelling, West Terschelling. 1986. JK.
83. *T. (Palustria) vitabile* Kirschner et Štěpánek, sp. nov. – Cz, Spišské Podhradie, Baldovce. 1984. JŠ.
Note: $2n = 32$ (det. JŠ sub no. 6/87).
84. *T. (Palustria) vitabile* Kirschner et Štěpánek, sp. nov. – Hu, Szerencs, Mezőzombor. 1985. JK.
85. *T. (Palustria) vitabile* Kirschner et Štěpánek, sp. nov. – Cz, Spišská Nová Ves, Vydrník. 1984. JŠ.
Note: $2n = 32$ (det. JŠ sub no. 204/86 et 9/87).
86. *T. (Palustria) vitabile* Kirschner et Štěpánek, sp. nov. – Cz, Spišská Nová Ves, Spišský Štiavnik. 1984. JŠ.
Note: $2n = 32$ (det. JK sub no. K 59/86).
87. *T. (Palustria) vitabile* Kirschner et Štěpánek, sp. nov. – Cz, Štúrovo, Obid. 1984. JŠ.
88. *T. (Palustria) vitabile* Kirschner et Štěpánek, sp. nov. – Cz, Štúrovo, Kamenný Most nad Hronom. 1984. JŠ.
Note: $2n = 32$ (det. JŠ sub no. 140/86 et 141/86).
89. *T. (Palustria) vitabile* Kirschner et Štěpánek, sp. nov. – Cz, Hodonín, on the meadows "Očovské louky". 1985. JK
Note: $2n = 32$ (det. JK sub no. 91/84).
90. *T. (Palustria) vitabile* Kirschner et Štěpánek, sp. nov. – Cz, Hodonín, on the meadow "Mrkotálky". 1985. JŠ
Note: $2n = 32$ (det. JK sub no. K 91/84).
91. *T. (Palustria) vitabile* Kirschner et Štěpánek, sp. nov. – Cz, Hodonín, the meadows "Očovské louky". 1984. JK.
Note: $2n = 32$ (det. JK sub no. 91/84).
92. *T. (Naevosa) euryphyllum* (Dahlstedt) M. P. Christiansen 1940. – Br, Anglia, Northumberland, Newcastle upon Tyne. 1986. A. J. Richards. Rev. C. C. Haworth.

Fasciculus IV. (1988)

93. *T. (Arctica) arcticum* (Trautv.) Dahlstedt 1905. – Sb, Edgeoeya, Kapp Lee, Dolerittneset. 1986. P. Oosterveld.
94. *T. (Naevosa) maculosum* A.J.Richards 1981. – Br, Anglia, Cumbria, Whitehaven. 1987. C. C. Haworth.
95. *T. (Naevosa) pseudolarssonii* A.J.Richards 1972. – Br, Anglia, Cumbria, Whitehaven. 1987. C. C. Haworth.
96. *T. (Celtica) unguilobum* Dahlstedt 1912. – Br, Anglia, Cumbria, Cockermouth. 1987. C. C. Haworth.
97. *T. (Celtica) gelertii* Raunk. 1903. – Cz, Karlovy Vary, Tatrovce. 1987. JK.
98. *T. (Celtica) nordstedtii* Dahlstedt 1911. – Cz, Konstantinovy Lázně, Hradiště. 1987. L. Kirschnerová.
99. *T. (Erythrosperma) brachyglossum* (Dahlstedt) Dahlstedt 1906. – Br, Northumberland, Druridge Bay. 1987. A. J. Richards.

100. *T. (Erythrosperna) fulviforme* Dahlstedt 1923. – Br, Northumberland, Druridge Bay. 1987. A. J. Richards.
101. *T. (Erythrosperna) silesiacum* Dahlstedt ex Haglund 1938. – Cz, Dobříš, Voznice. 1987. JŠ.
102. *T. (Erythrosperna) silesiacum* Dahlstedt ex Haglund – Cz, Bratislava, Vajnory, Pannónsky háj. 1985. JŠ.
103. *T. (Erythrosperna) silesiacum* Dahlstedt ex Haglund – Cz, Beroun, Sýkořice. 1987. JŠ.
104. *T. (Palustria) hollandicum* van Soest 1942. – Ho, Uitweg, Lek. 1987. A. Hagendijk et P. Oosterveld.
105. *T. (Palustria) paucilobum* Hudziok 1965. – Ju, Bosnia, Bosanski Petrovac. 1978. E. Krach.
Note 1: Cult in the Bot. Garden in Munich (no 738). Note 2: $2n = 24$ (det. in Munich, unpubl.).
106. *T. (Palustria) telmatophilum* Kirschner et Štěpánek 1986. – Cz, Nové Zámky, Tvrdošovce. 1987. JK et JŠ.
107. *T. (Palustria) cognatum* Kirschner et Štěpánek 1986. – Cz, Nové Zámky, Tvrdošovce. 1987. JK et JŠ.
108. *T. (Palustria) calcem-amans* Hudziok 1969. – Cz, Malacky, Studienka. 1987. JK et JŠ.
109. *T. (Palustria) vitabile* Kirschner et Štěpánek, sp. nov. – Cz, Štúrovo, Diva, Paríž brook. 1987. JK et JŠ.
110. *T. (Palustria) vitabile* Kirschner et Štěpánek, sp. nov. – Cz, Nové Zámky, Tvrdošovce. 1987. JK et JŠ.
111. *T. (Palustria) uliginosum* Kirschner et Štěpánek, sp. nov. – Cz, Tvrdošovce. 1986. V. Grulich, JK et JŠ. (PARATYPI!)
112. *T. (Palustria) uliginosum* Kirschner et Štěpánek, sp. nov. – Cz, Komárno, Martovce, Velký Vek. 1985. J. Štěpánková et JŠ. (PARATYPI!)
113. *T. (Palustria) uliginosum* Kirschner et Štěpánek, sp. nov. – Cz, Nové Zámky, Tvrdošovce. 1987. JK et JŠ. (ISOTYPI!)
114. *T. (Palustria) uliginosum* Kirschner et Štěpánek, sp. nov. – Cz, Štúrovo, Gbelce. 1987. JK et JŠ. (PARATYPI!)
115. *T. (Ruderalia) diastematicum* Marklund 1940. – Cz, Žďár nad Sázavou, Račín. 1985. JŠ.
116. *T. (Ruderalia) diastematicum* Marklund – Cz, Kutná Hora, Zbraslavice. 1987. JŠ.
117. *T. (Ruderalia) diastematicum* Marklund – Cz, Ledeč nad Sázavou, Ostojevka hill. 1987. JŠ.
118. *T. (Ruderalia) diastematicum* Marklund – Cz, Havlíčkův Brod, Jitkov. 1987. JŠ.
119. *T. (Ruderalia) tenebricans* (Dahlstedt) Dahlstedt 1910. – Cz, Kladno, Žilina, Ploskov. 1987. JK et JŠ.
120. *T. (Ruderalia) tenebricans* (Dahlstedt) Dahlstedt – Cz, Nové Strašecí, Třtice. 1985. JŠ.
121. *T. (Ruderalia) acervatum* Railonsala 1964. – Cz, Praha, Průhonice, Chotobuz. 1983. JK et JŠ.
122. *T. (Ruderalia) acervatum* Railonsala – Cz, Praha, Jižní Město. 1984. JŠ.
123. *T. (Ruderalia) acervatum* Railonsala – Cz, Praha, Barrandov. 1987. L. Kirschnerová et JK.
124. *T. (Ruderalia) guttigestans* H. Oellgaard, sp. nov. – Cz, Kladno, Velká Dobrá. 1987. JK et JŠ.
125. *T. (Ruderalia) lucidum* Dahlstedt 1910. – Cz, Praha, Petrovice, Pitkovický potok. 1986. JŠ.
126. *T. (Ruderalia) lucidum* Dahlstedt – Cz, Praha, Průhonice, Vestec. 1987. JK.
127. *T. (Ruderalia) ekmanii* Dahlstedt 1911. – Cz, Benešov, Nová Ves. 1987. JK.
128. *T. (Ruderalia) ekmanii* Dahlstedt – Cz, Chlumeč nad Cidlinou, Hradištko. 1984. JK.
129. *T. (Ruderalia) pallidipes* Marklund 1938. – Cz, Kutná Hora, Pivnisko. 1986. JK.
130. *T. (Ruderalia) pallidipes* Marklund – Cz, Bečkov, Nová Ves. 1987. JK.
131. *T. (Ruderalia) pallidipes* Marklund – Cz, Ledeč nad Sázavou, Ostojevka hill. 1987. JŠ.
132. *T. (Ruderalia) pallidipes* Marklund – Cz, Beroun, Žloukovice. 1987. JŠ.
133. *T. (Ruderalia) pallidipes* Marklund – Cz, Praha, Průhonice. 1987. JŠ.
134. *T. (Ruderalia) pallidipes* Marklund – Cz, Kolín, Hřezý. 1987. JK.
135. *T. (Ruderalia) aequilobum* Dahlstedt 1910. – Cz, Trutnov, Malé Svatoňovice. 1985. JK.
136. *T. (Ruderalia) aequilobum* Dahlstedt – Cz, Beroun, Žloukovice. 1987. JŠ.
137. *T. (Ruderalia) aequilobum* Dahlstedt – Cz, Dobříš, Voznice. 1987. JŠ.
138. *T. (Ruderalia) aequilobum* Dahlstedt – Cz, Beroun, Roztoky u Křivokláta. 1987. JK et JŠ.
139. *T. (Ruderalia) ingens* Palmgren 1910. – Cz, Kladno, Stochov. 1987. JŠ.
140. *T. (Ruderalia) ingens* Palmgren – Cz, Frýdlant. 1987. JŠ.
141. *T. (Erythrocarpa) panhellenicum* C. E. Sonck 1989. – Gr, Lakonia, Vourvoura. 1984. C. E. Sonck. (PARATYPI!)
Note: Cult. (no JŠ 1958).
142. *T. (Erythrocarpa) erythrocarpum* JK et JŠ 1985. – Cz, Malé Karpaty, Smolenice, Ostrý Kameň. 1984. JK. (PSEUDOISOTYPI!)
Note 1: $2n = 32$ (cf. Preslia 57: 127, 1985). Note 2: Cult. (no JŠ 1074).
143. *T. (Sonchidium) sonchoideum* (D. Don) Schultz-Bip. 1850. – The original locality unknown. Cult. (no JŠ 753), seeds from the Bot. Garden in Leipzig.
Note: $2n = 32$ (det. JK sub no. K 8/86)
144. *T. (Palustria) trilobifolium* Hudziok 1967. – Ge, Brandenburg, Potsdam, Luckenwalde, Schoeneweide. 1983. JK et JŠ. (TOPOTYPI!)
Note 1: Cult. (no JŠ 1876). Note 2: $2n = 32$ (cf. Folia Geobot. Phytotax. 20: 409, 1985).
145. *T. (Palustria) geminidentatum* Hudziok 1969. – Ge, Brandenburg, Potsdam, Dabendorf. 1983. JK et JŠ.
Note 1: Cult. (no JŠ 1607). Note 2: $2n = 32$ (det. JK sub no. 116/85 et 10/86).
146. *T. (Palustria) palustre* (L. yons) Symons 1798. – Ho, precise localisation unknown. P. Oosterveld.
Note: Cult. (no JŠ 1612)

Taxonomic and nomenclatural notes

I. *Taraxacum irrigatum* Kirschner et Štěpánek, sp. nov.

Tarax. Exs. nos 34-36.

Descriptio (cf. etiam Fig. 1): Plantae subgraciles usque subrobustae. Folia dilute usque saturate viridia, immaculata, opaca, mollia, sparse araneosa (principaliter secundum nervum medianum parte adaxiali), (8-) 11-15 (-20) cm longa et (1.0-) 1.5-2.0 cm lata, frequentissime profunde lobata, unquam (apud plantas graciles) subintegra. Lobus terminalis ad normam magnus, saepissime elongato triangularis usque lingulate elongatus, subhastatus, apud folia praecocia etiam triangularis, acutus, (1-) 2-4 (-5) cm longus et 0.8-1.8 cm latus, integerrimus, interdum asymmetricus lobulatus. Lobi laterales numero 2-4, remoti, solito oppositi, patentissimi, triangulares usque anguste triangulares, marginibus distalibus plerumque concavis et proximalibus saepissime convexis, vulgo integerrimi, 0.8-1.5 (-2.0) cm longi. Interlobia pro more minus quam 0.8 cm longa, saepissime 3-5 mm lata, integerrima vel denticulis sparsis minutisque praedita, marginibus angustissime hepaticae coloratis. Petiolus violaceus, nervus medianus dilute viridis vel in parte proximali laete roseolus. Scapus (10-) 12-16 (-25) cm altus, aeneus vel pallide violaceus, araneosus. Involucrum basi 9-12 mm in diametro, squamis interioribus sub anthesi 15-17 mm longis, squamis exterioribus numero 18-23, erectis usque arcuato patentibus, non adpressis, lanceolatis usque anguste lanceolatis, (9-) 10-11 mm longis, (2.5-) 3-4 mm latis, ad basin saepe aliquot dentibus magnis praeditis, vix pallide viridibus, stria media obscura (atro-viridi), ca 2.0-2.5 mm lata ornatis, marginibus albomembranaceis, 0.1-0.2 mm latis. Calathium planum, 3.5-4 cm in diametro, ligulae marginales planae, extus stria cano-viridi notatae. Stigmata viridia, antherae polliniferae. Achenium dilute brunneum, superne acute et dense spinulosum spinulis erectis, ceterum tuberculatum usque laeve, 3.8-4.1 mm longum (pyramide inclusa), 0.9-1.0 mm latum, in pyramidem subcylindricam, 0.9-1.1 mm longam, subabrupte abiens. Rostrum 9-10 mm longum, pappus albus, ca 6 mm longus.

Species agamosperma, triploidea, e sect. *Palustria* (Lindberg fil.) Dahlstedt.

2n = 24 (ex isotypo determinavit JŠ sub no 200/86; etiam e loc. Vrúctice det. JK sub no K 73/84).

Holotypus: Czechoslovakia: "Bohemia orient., opp. Chlumec nad Cidlinou, pagus Žiželice: locis uliginosis ad piscinam Žehuňský rybník, ca 1-2 km situ occid. a vico Zbraň." Leg. J. Štěpánek 13.V.1985. (no det. 6186), in herb. PR asservabitur.

Isotypi: PR (no det. 8366) et plantae in Tarax. Exs. no 36 distributae, e.g. in herb. PR (no det. 3977), BRNU, LE, WU, B, M.

T. irrigatum is distinct in having deeply lobate leaves with elongate to lingulate terminal lobe, and usually patent lanceolate outer bracts. Within the section *Palustria*, this species is most closely allied to *T. bohemicum* Kirschner et Štěpánek. However, these two species differ in number, posture and length of the outer bracts, and in achene characters (*T. irrigatum* possesses much longer cone to the achenes). In addition, *T. irrigatum* is a triploid taxon. In the posture of outer bracts, it is similar to *T. turfosum* (Sch.-Bip.) van Soest as well, but differs from the latter in leaf and achene characters.

So far as the material goes, *T. irrigatum* is confined to C. Europe (Lower Austria, Bohemia, S Moravia, SW Slovakia).

Selected specimens: Austria: "Altlichtenwarth, bei der Schafhütte" Forstner 1970 W (no. det. 1580). - Bohemia: "Městec Králové, ... ad ripam piscinae Štítar" Kirschner 1989 (no. det. 8365). - "Rožďalovice, pisc. Zrcadlo, ca 1 km a pago Mlýnec" Štěpánek 1984 (no. det. 6177). - S. Moravia: "Hodonín, in pratis humidis Očovské louky" Štěpánek 1985 (no. det. 8358). - SW. Slovakia: "Záhorská nížina, Závod" Trávníček 1990 herb. Trávníček (no. det. 8353).

II. *Taraxacum elegantius* Kirschner, H. Oellgaard et Štěpánek, sp. nov.

Tarax. Exs. nos 59-64.

Descriptio (cf. etiam Fig. 2, 3): Planta 20-35 cm alta, sat gracilis usque subrobusta. Folia lanceolata, subglaucis viridia, glabra - fere glabra vel interiora parce araneosa; lobi laterales 3-5 utrobique, reflexi, saepe alterni, distantes vel praesertim apicem versus approximati, plerumque integri, tamen in marginibus superioribus loborum inferiorum vel in speciminibus luci valde expositis magis denticatis; interlobia plana, piceata, integra vel interdum denticulata - denticata; lobus terminalis foliorum exteriorum et intermedium

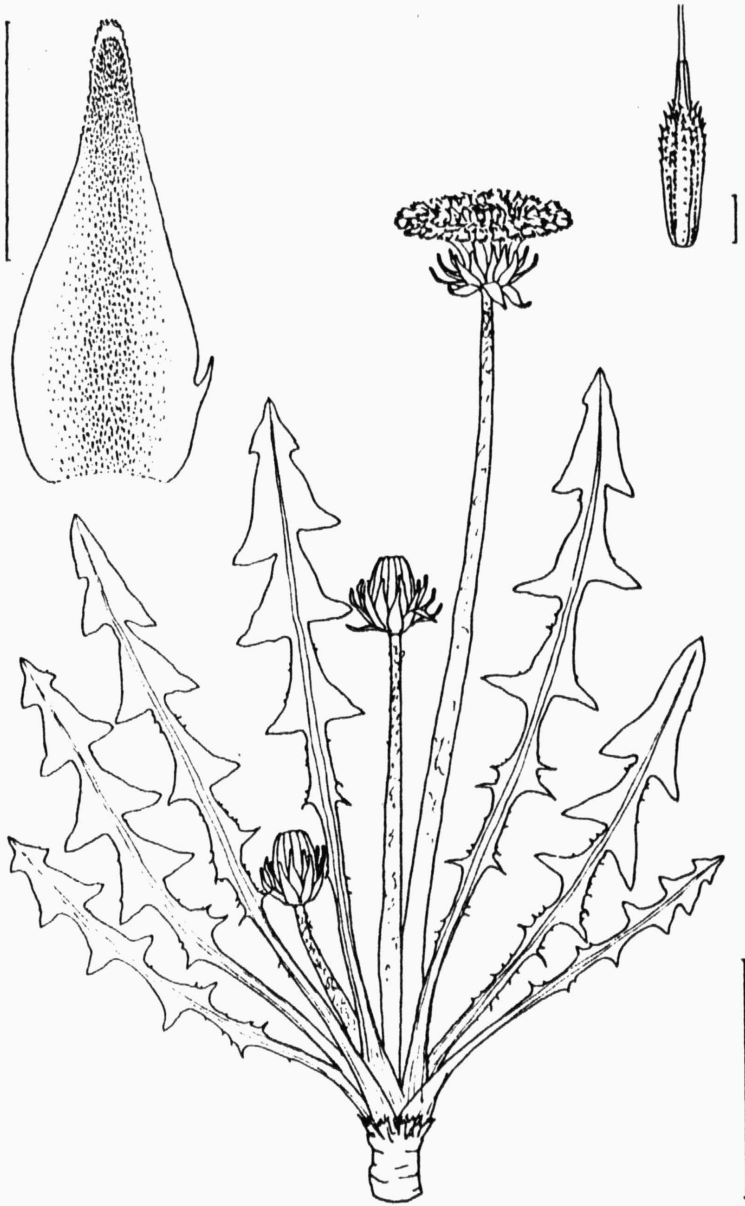


Fig. 1. - *Taraxacum irrigatum* Kirschner et Štěpánek: general habit, the bar equals 5 cm; outer involucre, the bar equals 5 mm; achene, the bar equals 1 mm.

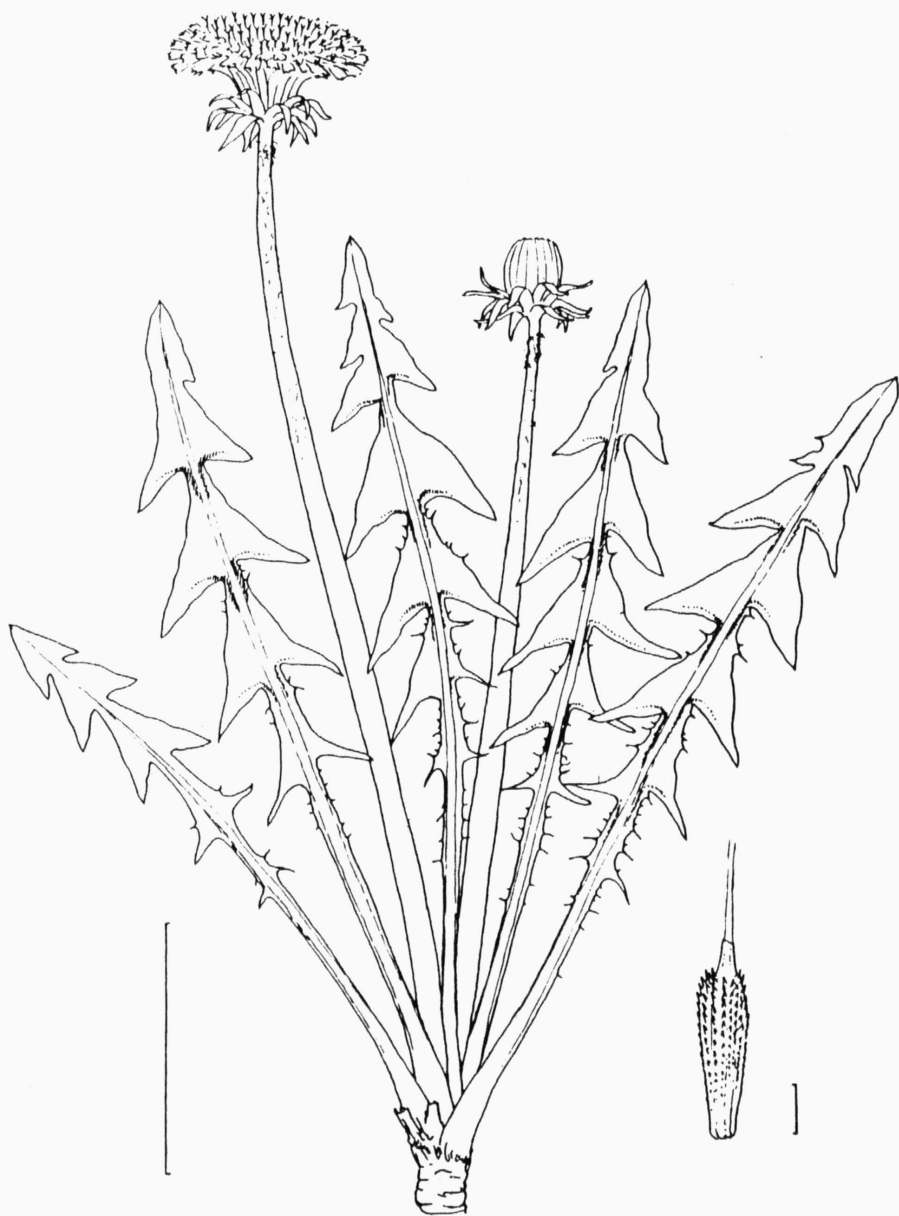


Fig. 2. - *Taraxacum elegantius* Kirschner, H. Oellgaard et Štěpánek: general habit, the bar equals 5 cm; achene, the bar equals 1 mm.

major, integer vel lobulato-incisus, rarius parvus sagittatus integer, apicibus lobulorum lateralium acutis vel saepe singulis rotundatis, foliorum interiorum longior, latior, marginibus dentatis; petioli angusti, purpurei. Scapi involucrem versus colore brunnescente accrescente colorati, sub involucre dense araneosi. Involucrem sat laete viride, laeviter pruinose, ca 11 mm altum, ca 9 mm latum; squamae exteriores lanceolatae, ca 3 mm latae, ca 10 mm longae, vix marginatae, arcuatae usque patentes, pallide canescenti-virides, interdum levissime purpureae (ad basin pallidae). Calathium ca 4 cm in diametro, convexum, luteum; ligulae marginales extus stria cano-violacea notatae; antherae polliniferae, granulis pollinum diametro imparibus; stigmata virescentia. Achenium olivaceo-stramineum, ca 4 mm longum (pyramide inclusa), pyramide ca 0.8 mm longa subcylindrica saepe spinulosa, superne longe et dense spinulosum; rostrum ca 10 mm longum; pappus albus.

Species agamosperma, triploidea, e sect. *Ruderalia* Kirschner, H. Oellgaard et Štěpánek.

2n = 24 (determinavit JŠ sub no 16/87 e paratypos - loc. Petrovice, and JK sub no 123/85, loc. Rokytno).

Holotypus: "ČSFR. Bohemia orient., oppid. Chlumeč n/Cidl.: caespes in area pagi Levín" H. Oellgaard, JK et JŠ 1983 PR (no. det. 4531).

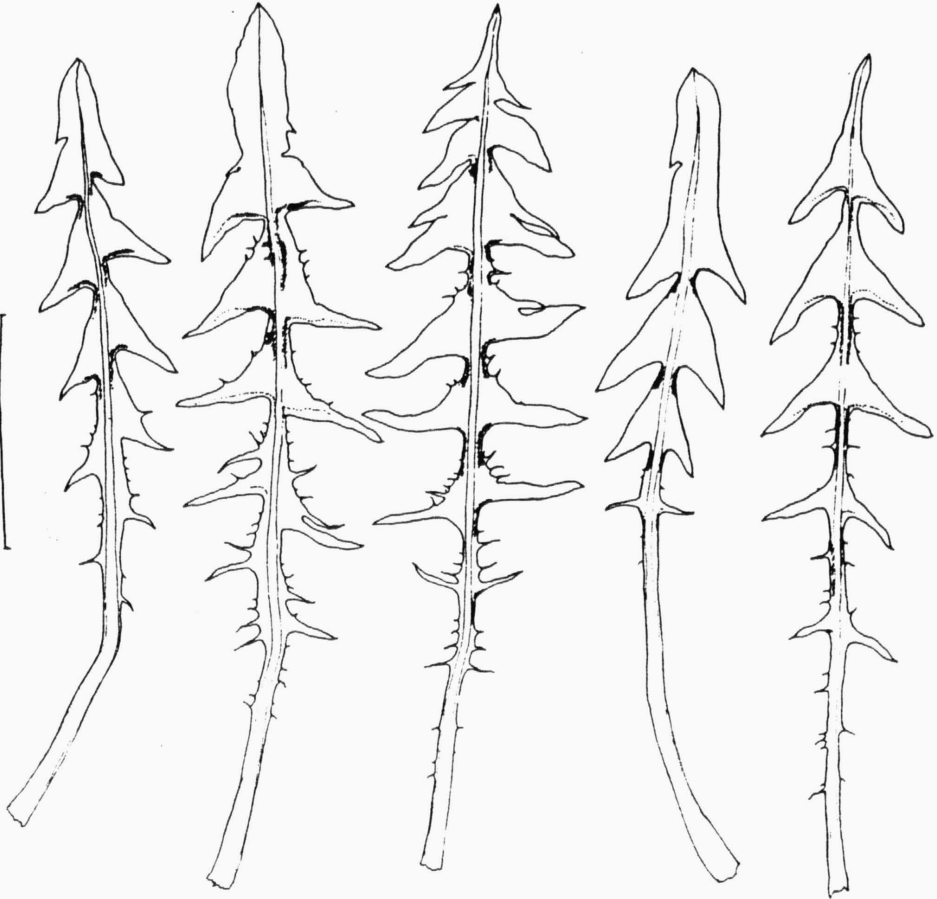


Fig. 3. - *Taraxacum elegantius* Kirschner, H. Oellgaard et Štěpánek: variability of leaves, the bar equals 5 cm.

Taraxacum elegantius is a slender species with narrow, unwinged, purple-coloured petioles, lanceolate, almost smooth, subglaucous green leaves with reflexed, often alternate lateral lobes. The endlobes of outer and middle leaves are sagittate, now

small and well-defined, now longer and lobulate-incised, in some modifications longly acuminate with a very narrow and long apex. Some apices of upper lateral lobes or lobules often appear quite obtuse. The interlobes are flat, tar-coloured. The upper half of scapes is clearly brownish purple, the lower part usually greenish. The involucre are small, with horizontal, arcuate, rather small outer bracts, pale. Because of leaf slenderness and lobation *T. elegantius* has a resemblance of *T. recurvum* Dahlst. and *T. leptodon* Markl. The latter, however, has far more hairy and denticulate leaves and larger and darker flowerheads. *T. recurvum* has more rigid and hairy leaves with many small teeth in the interlobes, and its involucre have longer outer bracts (12-13 mm). The high frequency of obtuse lobe apices in *T. elegantius* is not observed in *T. leptodon* nor *T. recurvum*.

T. elegantius very likely gradually ceases to occur in the E. part of C. Europe (it is rare in Moravia, and absent from Slovakia). The apparent gap between Bohemia and the Neustrelitz region in E. Germany (one single isolated locality) is expected to disappear after a more detailed exploration of the territory north of the Czech border. The species is also likely to be found in Bavaria and Austria, which is indicated by its common occurrence in S. Bohemia.

Additional selected specimens (see also no 59-64 of Tarax. Exs.): Germany, Neustrelitz, Serrahn. H.Oellgaard et Doll 1982 herb. H.Oellgaard (no. det. 7442). - Moravia: "Černovír u Olomouce" Trávníček 1990 (no. det. 8354). - Bohemia: Hlinsko, Křížová. JŠ 1987 (no. det. 6847). - Kutná Hora: Pivnisko. JK 1986 (no. det. 6851). - Pardubice, Rokytno. H.Oellgaard et al. 1983 (no. det. 4520). - Jičín, Vysoké Veselí. J.Kučera 1990 (no. det. 7664). - Hradec Králové, Libišany. JK et JŠ 1983 (no. det. 6773). - Benešov, Nová Ves. JK 1987 (no. det. 6839). - Dobříš, Koží Hory. JŠ 1989 (no. det. 8020). - Praha, Průhonice. JK et JŠ 1981 (no. det. 6783). - Kladno, Velká Dobrá. JK et JŠ 1987 (no. det. 6843). - Frýdlant, Supý vrch. JŠ 1987 (no. det. 6846). - Podbořany. JŠ 1990 (no. det. 7974). - Žlutice, Knínice. JK 1987 (no. det. 6845). - Klatovy, Pod Hůrkou. Král 1987 (no. det. 6849). - Strakonice, Rovná. JK 1987 (no. det. 6838). - České Budějovice, Zliv. JK 1987 (no. det. 6848).

III. *Taraxacum guttigestans* H. Oellgaard, sp. nov.

Tarax. Exs. nos 57, 58, 124, 237

Planta mediocriter alta [(15-)20-35 cm]. Folia late lanceolata, lutescenti-viridia, parce araneosa, interiora plantae florentis haud evoluta; petioli purpurei, non vel angustissime alati; nervi mediani plus vel minus colorati, colore striatulo; lobi laterales ca 4 utrobique, deltoidei, supremi saepe recurvi, medii plus vel minus patentes vel interdum erecti, foliorum exteriorum approximati, acuti, integri vel inferiores parce dentati, foliorum intermediarum sat distantis, integri vel prope interlobium dente mano instructi; lobus terminalis hastatus, dorsis concavis, foliorum exteriorum parvus triangularis integer, intermediarum mediocris, dorsis incisis, lobulis obtusis et saepe cum apice tenui protracto figuram gutti formantibus; interlobia plerumque longa, subplicata, denticulata - dentata. Scapi plerumque virides, sub involucre valde araneosi. Involucrum obscure viride, leviter pruinose, ca 12 mm altum, ca 11 mm latum; squamae exteriores lanceolatae, ca 3.5 mm latae, ca 12 mm longae, irregulariter tortae, regione praecipue horizontali, apicibus saepe valde incurvis, supra inaequaliter, sed saepe obscure rubro-violaceae. Calathium 45-55 mm in diametro, leviter convexum, leviter radians, saturate luteum; ligulae marginales sat angustae, leviter canaliculae, extus stria cano-violacea notatae; antherae polliniferae, granulis pollinum diametro variis; stigmata virescentia. Achenium fusco-stramineum, ca 4 mm longum (pyramide inclusa), superne sat dense spinulosum, ceterum verrucosum vel laeve; pyramis subconica, ca 0.8 mm longa; rostrum 11-12 mm longum; pappus albus.

Species agamosperma, e sect. *Ruderalia* Kirschner, H. Oellgaard et Štěpánek.

Holotypus: Denmark, TBU distr. 47, Bornholm, Randkloeve, roadside at the footpath to Randkloeveskar 14.5.1976 leg. P. Luetken et H. Oellgaard, no. H. Oe.76/34 (Fig. 4), herb. C. Progeny of the holotype, cultivated in Birgittelyst 1976-1984: H. Oe. 83/116, H. Oe. 87/149, 150, 151, 152.

Isotypus: PR (H.Oe. 76/35).

Taraxacum guttigestans has yellowish green leaves with purple-coloured, unwinged petioles and usually reddish midribs. The terminal lobes often have rounded,

symmetric incisions, often causing the outermost part to look like a bottle (name !). The edges of the side lobes are usually entire but sometimes bear a large tooth on upper edge near the lobe base. The interlobes are often long, denticulate to dentate. The involucre is darkish with usually horizontal, mediumsized irregularly twisted outer bracts, which sometimes are twirled at the apex. The outer bracts are usually coloured reddish to dirty purplish above.



Fig. 4. - *Taraxacum guttigestans* H. Oellgaard: the holotype.

T. guttigestans is separated from all other known *Taraxacum* species by the combination of the light, yellowish green leaves with unwinged petioles, the outer part of the endlobes often bottle-shaped, and the patent, irregular, purple-coloured outer bracts.

Offspring of the holotype has been studied through several years of cultivation. In Birgittelyst (Viborg, Denmark), many specimens originating from that cultivation have been found as a weed in the author's garden, under various ecological conditions. Being useful as a supplement to the type, some have been collected and quoted above.

T. fraudulentum Railonsala, somewhat like *T. guttigestans* as to leaf shape, is separated by its broadly winged petioles and its much longer and broader outer bracts. C. I. Sahlin gives one specimen of *T. guttigestans* under the name *T. caloschistoides* Hagl. (Sahlin 61205). Apart from different leaf shape, *T. guttigestans* is separated from *T. caloschistoides* by lighter leaf colour and broader achenes with a longer cone.

Selected specimens: Denmark: Bornholm, Roenne. Luetken et H.Oellgaard 1976. - Hundsemyre. observ. H. Oellgaard 1976. - Germany: Rheinland-Pfalz: Cochem-Zell, Cochem. Sahlin 1976 herb. Sahlin. - Baden-Wuerttemberg, Saulgau, Riedlingen. Sahlin 1971 herb. Sahlin. - Bayern: Koenigshofen W. Sahlin 1971 herb. Sahlin. - Czechoslovakia: České středohoří, Třeбенice. JK 1989 (no. det. 6292, Tarax. Exs. no 237). - Plzeň, Křimice. JŠ 1985 (no. det. 7106). - Vysoké Mýto, Na Vinicích. v.d.Hulst, d.Nijs, JK et JŠ 1985 (no. det. 7110). - Moravia, Mts. Bílé Karpaty, Suchov. JK et JŠ 1983 (no. det. 7105). - Slovakia, Nové Zámky, Lipová. Štěpánková et JŠ 1985 (no. det. 7103).

The distribution gap between Bornholm and the Central European localities is maybe closed, when the *Taraxacum* flora of E. part of Germany and Poland is better known. However, a casual introduction of a *Taraxacum* species of the sect. *Ruderalia* to localities far away from the main area can start a local and "unexpected" growth, which is also confirmed by the cultivation experiments in Viborg, Denmark (*T. guttigestans* belongs to "pioneering" taxa there). Thus, *T. guttigestans* might represent a successful introduction to Bornholm from Central Europe as well.

IV. *Taraxacum subdolum* Kirschner et Štěpánek, sp. nov.

Tarax. Exs. no 79-81.

Descriptio (cf. etiam Fig. 5): Plantae subgraciles usque subrobustae. Folia olivacea, immaculata, nitida, subcarnosa, subglabra (paulo araneosa ad nervum medianum), (10-) 13-18 cm longa, (1-) 1.5-3 (-4) cm lata, plerumque profunde lobata. Lobus terminalis satis magnus, anguste triangularis, triangularis vel trullatus, acutus, (1.5-) 2.5- 3.5 cm longus et (0.8-) 1.5-2.7 cm latus, integerrimus vel paucidentatus usque (asymmetrice) lobulatus. Lobi laterales numero 2-3 (-5), remoti, oppositi, variiformes: patenti, antrorsi vel retroflexi, anguste usque late triangulares, marginibus distalibus saepe grosse paucidentatis. Interlobia 0.5-2 cm longa et 2-4 mm lata, integerrima. Petioluli et nervus medianus pallide griseo-violacei. Scapus (6-) 12-20 cm altus, pallidus usque dilute cano-violaceus, paulo araneosus. Involucrum basi plerumque 8-11 mm in diametro, squamis interioribus sub anthesi 14-17 mm longis, squamis exterioribus numero (13-) 15-21, laxe adpressis, erectis vel sub apice arcuato patentibus, lanceolatis usque ovatis, 8.5-10 mm longis, (3-) 4-5 (-5.5) mm latis, sat aequale obscure brunnea olivaceis, nitidis, tenuibus (pellucentibus), marginibus albomembranaceis, (0.1-) 0.3-0.5 mm latis. Calathium planum, 3-4 cm in diametro, ligulae marginales planae, extus stria cano-viridi notatae. Stigmata viridia, antherae polliniferae. Achenium pallide cano-brunneum, superne remote brevispinulosum et tuberculatum, ceterum laeve, 4.2-4.4 mm longum (pyramide inclusa), 0.9-1.0 mm latum, in pyramidem subconicam, 1.0-1.4 mm longam, sensim abiens. Rostrum 8-9 mm longum, pappus albus, 6.5-7 mm longus.

Species agamosperma, triploidea, e sect. *Pahstria* (Lindb. fil.) Dahlstedt.

2n = 24 (ex isotypo determinavit JŠ sub no 206/86; etiam e loc. Žehuň det. JK sub no 75/84, e loc. Zabierzów det. JK sub no 60/84 et 61/84; e loc. Obid det. JŠ [2n = ca 24] sub no 222/86).

Holotypus: Czechoslovakia, "Slovakia centr., opp. Spišské Podhradie: in prato udo ad marg. bor.-occ. vici Baldovec. Alt. ca 440 m s.m." Leg. J.Štěpánek 15.V.1984 (no det. 6725), in herb. PR asservabitur.

Isotypi: PR (no det. 4331) et plantae in Tarax. Exs. no 79 distributae, e.g. in PR, BRNU, B, M, WU.

T. subdolum belongs among species showing a wide range of leaf plasticity but the middle leaves always retain the double-teeth pattern of the lobes. It is primarily characterized by its outer bracts. They are loosely adpressed to erecto-patent (often slightly recurved at the apex), dark greenish brown, slightly shining, with a distinct narrow margin. The features of outer bracts are diagnostic upon comparison with those of *T. vindobonense*, one of the few species more likely to be confused with our taxon.

Note: *T. divulsifolium* van Soest has unequivocally been intended (already by Haglund, as *T. divulsium*, ined.) to cover a certain well-defined species. However, in the

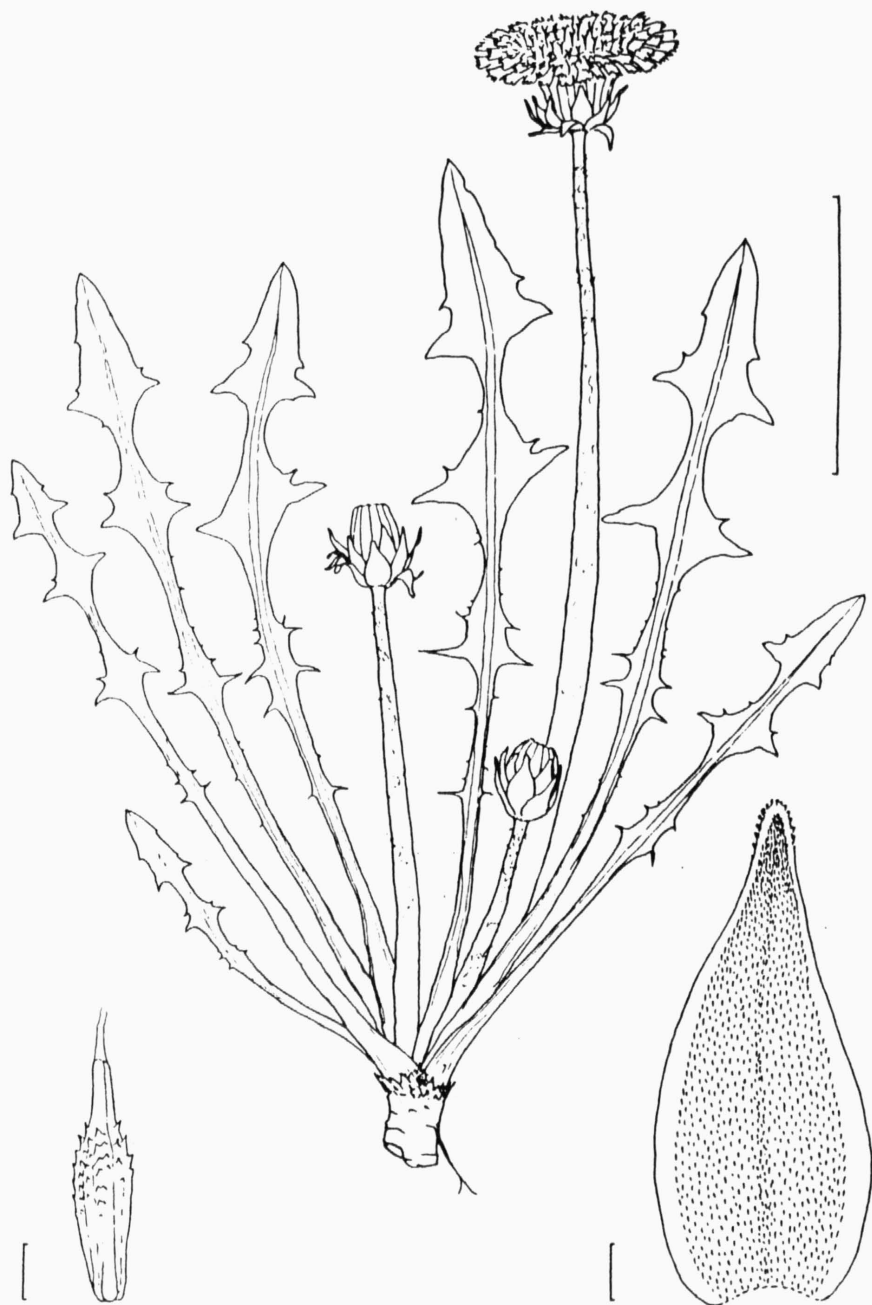


Fig. 5. - *Taraxacum subdolum* Kirschner et Štěpánek: general habit, the bar equals 5 cm; achene, the bar equals 1 mm; outer involucre bract, the bar equals 1 mm.

van Soest treatment (Acta Bot. Neerl. 14: 28, 1965, Fig. 8), a heterogeneous material is included under this name, and some of these plants can be considered as similar to *T. subdolum*. *T. divulsifolium* van Soest, as defined by its type (LT: "La Chaussée" 1936 P. Aellen G-PAE, no. det. 3190, excl. Fig. 8!), differs from *T. subdolum* in many leaf and achene features.

The distribution of *T. subdolum* is centred in the valleys of the Carpathians and the adjacent regions, and extends to the Kraków region in Poland, to C. Bohemia and to Lower Austria and S. Slovakia in the south.

Selected herbarium specimens (see also Tarax. Exs. 79-81): Poland: Kraków, Zabierzów (occid. ab urbe) JŠ et JK 1984 (no. det. 4823). - Niederösterreich: "Moosbrunn, W. Unterwaltersdorferstrasse" A. Blab 1990 herb. Blab (no. det. 8355). - Kreutzenstein. Schneider 1904 W (no. det. 1649). - Bohemia: "Hradec Králové, Králova Lhota" JK 1984 (no. det. 4833). - "Hlinsko, ad ripam bor. piscinae Řeka, 1.5 km merid. a pago Křížová" JŠ 1987 (no. det. 6722). - Moravia: "Bílá Karpaty, Radějov, Vojšické louky" JK et JŠ 1983 (no. det. 4827). - "Radostín, pisc. Malé Dářko" P. Bureš 1989 BRNU (no. det. 7279). - "Znojmo, Kravsko" Grulich 1985 MMI (no. det. 3956). - Slovakia: "Čierna pri Čadci" Sutorý 1974 BRNM (no. det. 3761). - "Senica" Trávníček 1989 herb. Trávníček (no. det. 7378). - "Štúrovo, Obid" JŠ 1984 (no. det. 4835). - "Stará Ľubovňa, Údol" JŠ 1985 (no. det. 6726). - "Slovenská Lúpeča" Krahulec et Hrouda 1982 (no. det. 4832). - "Ružomberok, Stankovany" JŠ 1982 (no. det. 4826). - "Žilina, Terchová" JK 1985 (no. det. 4837).

V. *Taraxacum uliginosum* Kirschner et Štěpánek, sp. nov.

Tarax. Exs. nos 112-114.

Descriptio (cf. etiam Fig. 6): Plantae graciles. Folia laete viridia, immaculata, nitida, subglabra (paulo araneosa plerumque ad nervum medianum), (6-) 8-12 (-18) cm longa et (0.8-) 1-1.5 (-3) cm lata, profunde lobata. Lobus terminalis vix magnus, triangularis, ovatus usque linguato oblongus, obtuse acutus, plerumque 1-2.5 cm longus et 0.8-1.2 cm latus, integerrimus, saepe non profunde lobatus. Lobi laterales numero 1-3 (-5), oppositi vel alterni, superne approximati, oblique triangulares, marginibus distalibus ad basin distincte convexis, sub apice concavis, marginibus proximalibus rectis usque convexis. - integerrimi, 0.6-1.1 cm longi. Interlobia plerumque 3-12 (-18) mm longa, angusta (1-3 mm), integerrima vel remote denticulata, marginibus angustissime et distincte hepaticae coloratis. Petiolus violaceus, nervus medianus pallide viridis vel in parte proximali dilute violascens. Scapus 8-15 cm altus, pallidus, imprimis sub capitula araneosus. Involucrum basi 8-9 mm in diametro, squamis interioribus sub anthesi ca 12 mm longis, squamis exterioribus numero (13-) 15-20 (-26), laxe adpressis usque erecto patentibus, anguste lanceolatis, lanceolatis vel anguste ovatis, 6-8 (-9) mm longis, (2-) 3-4 mm latis, aequabile atroviridibus, marginibus obscure membranaceis, 0.1-0.2 mm latis. Calathium planum, 2.5-3.5 mm in diametro, ligulae marginales planae, extus stria cano-viridi notatae. Stigmata obscura (viridia et extus pilis nigris ornata), antherae polliniferae. Achenium pallide cano-brunneum, superne grosse spinulosum et tuberculatum, ceterum laeve, (3.6-) 3.7-4.0 longum (pyramide inclusa), 0.9-1.1 mm latum, in pyramidem subcylindricam, 0.5-0.7 mm longam subabrupte abiens. Rostrum 6.5-8.5 mm longum, pappus albus, 6.0-6.5 mm longus.

Species agamosperma, triploidea, e sect. *Palustria* (Lindb. fil.) Dahlst.

2n = 24 (e loc. Obid determinavit JŠ sub no. 224/86 et 218/86; etiam e loc. Čapáš det. JK sub no 77/84 et JŠ sub no 252/86 et 148/86 [2n = ca 24]).

Holotypus: "Slovakia meridionalis, opp. Nové Zámky, pagus Tvrdošovec, in pratis salsis 0.3-1.0 km situ bor. a statione ferroviariae" JK et JŠ 1987 (no. det. 6735). In herb. PR asservabitur.

This slender species is characterized by its leaf shape (terminal lobe sublobate, lateral lobes mostly entire, interlobes narrow) and, particularly, by the outer bracts (loosely adpressed to erecto-patent, dark green, inconspicuously bordered). It differs from the Pannonian *T. limosum* van Soest in having much shorter cone to the achenes and different leaf succession pattern. A similarly slender C. European *T. paucilobum* Hudziok has very different outer bracts (tightly adpressed with broad margins), shorter rostrum and longer cone to the achenes.

T. uliginosum is comparatively common in the northernmost part of the Pannonian region (S. Slovakia) and reaches C. Hungary in the south. It is likely to be found in the easternmost Austria.

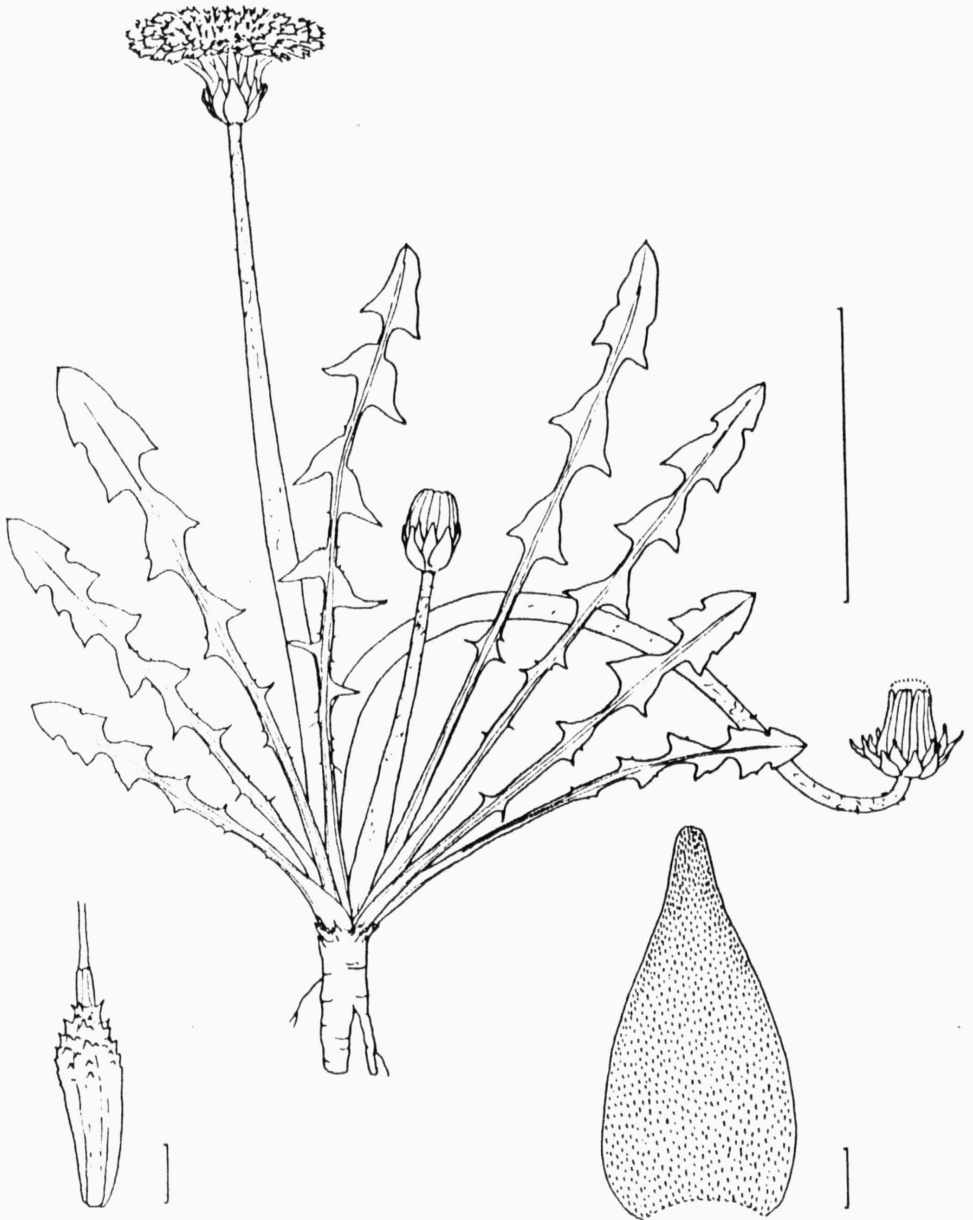


Fig. 6. - *Taraxacum uliginosum* Kirschner et Štěpánek: general habit, the bar equals 5 cm; achene, the bar equals 1 mm; outer involucre bract, the bar equals 1 mm.

Selected herbarium specimens (see also Tarax. Exs. 111-114): S. Slovakia: "Senica, ca 1.3 km situ merid.-merid.- occid. a statione ferroviariae" Trávníček 1989 herb. Trávníček (no. det. 7175). - "Studienka, fl. Rudava" JK et JŠ 1986 (no. det. 4857). - "Komárno, Horná Novina" Battjes, JK et JŠ 1988 (no. det. 6709). - "Komárno, inter pagos Búč et Moča" Battjes, JK et JŠ (no. det. 6731). - "Štúrovo, Mužla, Čapáš" JŠ 1982 (no. det. 4856). - "Štúrovo, Obid" JŠ 1984 (no. det. 4854). - Hungary: "Hungaria occid., comit. Somogy, lacus Balaton, pagus Balatonszentgyörgy" JŠ 1984 (no. det. 4846).

Note: *T. uliginosum* has recently been found in the Neusiedlersee region, E. Austria by P. Bureš, Masaryk University, Brno (BRNU), and by A. Blab and V. Grulich (pers. comm.)

VI. *Taraxacum sonchoideum*, a correct name for *T. montanum* DC.

Tarax. Exs. no 143.

Taraxacum sonchoideum (D. Don) Schultz-Bip., Del. Sem. Horti Bot. Heidelberg., p. 4, 1850.
= *Lasiopus sonchoides* D. Don in R. Sweet, Brit. Flow. Garden 2: 346, 1836.
= *Dubyaea sonchoidea* (D. Don) DC., Prodr. Syst. Natur. Regni Veg. 7: 247, 1838. LT: Fig. 346 in D. Don, l. c.
Syn.: *Taraxacum montanum* [C. A. Meyer] DC., Prodr. Syst. Nat. Reg. Veget. 7/1: 145, 1838.
= *Leontodon montanus* C. A. Meyer, Verz. Pfl. Cauc., p. 58, 1831, nom. illeg., non Lamarck, Fl. Fr. 3:640, 1779 ("montanum").

The name *Leontodon montanus* C.A. Meyer 1831 represents an illegitimate name (a later homonym of *L. montanus* Lam. 1779). Thus, it cannot play the role of the basionym of *T. montanum* DC. According to the Art. 72, Ex. 2 of the Code, *T. montanum* is to be cited solely with DC. as the author, and the epithet is to be treated as starting from 1838. Consequently, the name *Lasiopus sonchoides* D. Don 1836 provides an earlier epithet at the specific rank, and the name *T. sonchoideum* (D. Don) Schultz-Bip. is available for our taxon.

We have failed to trace the holotype of *L. montanus* C.A. Meyer (Beschbarmak, cf. C.A. Meyer 1831, l.c.). It is not deposited in G-DC (cultivated plants by Fischer, 1832, and a plant collected by Szowits in Karabagh), and it has not been found among type specimens in LE (where C.A. Meyer clearly studied the plants selected: several gatherings by Szowits, and a plant from Karabagh with a Meyer note "*T. montanum* m."). The holotype is still likely to be found in the main Caucasian collection in LE.

Morphologically, the type illustration of *T. sonchoideum* (Don, l.c.) is in full agreement with the plants distributed in *Taraxaca* Exsiccata. Furthermore, both the figure and the plants are evidently conspecific with the above material from G-DC and LE. Consequently, this Transcaucasian tetraploid of the section *Sonchidium* (DC.) Kirschner et Štěpánek should bear the name *T. sonchoideum*.

Acknowledgments

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Souhrn

Pro usnadnění komunikace mezi specialisty je vydávána exsikátová sbírka *Taraxaca* Exsiccata. V předloženém sdělení je uveden seznam vydaných taxonů I.-IV. svazku této sbírky (celkem 146 čísel). Součástí seznamu jsou i stručné lokality (řada nových druhů pro ČSFR i další státy) a řada chromosomových počtů (z nichž některé jsou nové pro příslušné taxony). V exsikátech jsou šifry pod provisorními jmény i isotypy a

paratypy taxonů nových. Pět nových druhů je popsáno na základě tohoto materiálu zde: *Taraxacum irrigatum* (ČSFR, Rakousko), *T. subdolum* (ČSFR, Polsko, Rakousko), *T. uliginosum* (Slovensko, Maďarsko, Rakousko) ze sekce *Palustria*, a *T. elegantius* (Německo, Čechy, Morava) a *T. guttigestans* (Dánsko, Německo, ČSFR) ze sekce *Ruderalia*. Věnovali jsme pozornost i nomenklatuře zakavkazského druhu ze sekce *Sonchidium*. Doložili jsme, že jméno *Leontodon montanus* C.A.Meyer je neoprávněné, a před jménem *T. montanum* DC. 1838 má prioritu jméno *T. sonchoideum* (D.Don) Schultz-Bip., správné jméno pro tento druh.

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Appendix

An alphabetical list of *Taraxacum* species distributed in *Taraxaca Exsiccata*, Fasc. I-IV

<i>acervatum</i> 121-123	<i>lacistophyllum</i> 71
<i>aequilobum</i> 135-138	<i>lucidum</i> 125,126
<i>alatum</i> 20-23	<i>maculosum</i> 94
<i>arcticum</i> 93	<i>mendax</i> 37-40
<i>balticum</i> 32,33	<i>nitidum</i> 72
<i>bohemicum</i> 4,5	<i>nordstedtii</i> 18,19,73,74,98
<i>brachyglossum</i> 99	<i>oblongatum</i> 75
<i>brandenburgicum</i> 65	<i>obtusifrons</i> 53-56
<i>calcem-amans</i> 66-68,108	<i>pallidipes</i> 129-134
<i>calocephalum</i> 26,27	<i>palustre</i> 146
<i>cognatum</i> 30,31,69,107	<i>panhellenicum</i> 141
<i>copidophyllum</i> 6	<i>paucilobum</i> 12-15,41,105
<i>diastematicum</i> 115-118	<i>pseudohamanum</i> 76
<i>domabile</i> 7	<i>pseudolacistophyllum</i> 1-3
<i>ekmanii</i> 127,128	<i>pseudolarssonii</i> 95
<i>elegantius</i> 59-64	<i>pulchrifolium</i> 24,25,77,78
<i>erythrocarpum</i> 142	<i>silesiacum</i> 101-103
<i>euryphyllum</i> 92	<i>skalinskanum</i> 42-47
<i>fulviforme</i> 100	<i>sonchoideum</i> 143
<i>gelertii</i> 97	<i>subalpinum</i> 16,17
<i>gelricum</i> 70	<i>subdolum</i> 79-81
<i>geminidentatum</i> 145	<i>telmatophilum</i> 28,29,106
<i>guttigestans</i> 57,58,124	<i>tenebricans</i> 119,120
<i>hollandicum</i> 8-11,104	<i>tortilobum</i> 82
<i>ingens</i> 139,140	<i>trilobifolium</i> 144
<i>interveniens</i> 48-50	<i>uliginosum</i> 111-114
<i>irrigatum</i> 34-36	<i>unguilobum</i> 96
<i>lacinulatum</i> 51,52	<i>vitabile</i> 83-91,109,110