

THE DISTRIBUTION OF *TELEKIA SPECIOSA* (SCHREB.) BAUMG. (ASTERACEAE) IN THE EASTERN PART OF WEST POMERANIA

MARIOLA TRUCHAN

M. Truchan, Department of Botany and Genetics, Pomeranian Academy, Arciszewskiego 22b, 76-200 Słupsk, Poland, e-mail: truchan@pap.edu.pl

(Received: June 4, 2007. Accepted: August 13, 2007)

ABSTRACT. The paper gives the results of studies on distribution of *Telekia speciosa* (Schreb.) Baumg. in the eastern part of West Pomerania. There were found 39 localities, most of them on the area of old manor parks, whereas the rest are situated on the roadsides or in gardens adjacent to houses.

KEY WORDS: *Telekia speciosa*, parks, gardens, roadsides, ATPOL, West Pomerania

INTRODUCTION

Telekia speciosa (Schreb.) Baumg. is found in the mountains of Central, Eastern and Southeastern Europe, also on the Balcan Peninsula, Asia Minor and in Caucasus. This species appears also in Albania, Bulgaria, Slovakia, Hungary, Macedonia, Poland, Romania and Russia. It is grown for decoration and very often becomes savage (TUTIN 1964, ZARZYCKI 1971, HEGI 1964-1979, MEUSEL and JÄGER 1992).

The natural locations of *T. speciosa* in Poland are probably only in the Bieszczady Mts. (JASIEWICZ 1965, ZARZYCKI 1971, ZEMANEK 1981). This species appears near rivers in an upland alder wood *Alnetum incanae* Ludi 1921 (JASIEWICZ 1965, MICHALIK and SZARY 1997, WINNICKI and ZEMANEK 2003). *Telekia speciosa* is rare in the National Bieszczady Park, so it is included into the list of "particular concern" species (ZEMANEK and WINNICKI 1999).

Telekia speciosa was commonly planted in many places in the Carpathians because of its impressive habit and huge ornamental flowers. We can say that as savaged it still remains in rather natural habitats like thickets beside streams and typical anthropogenic ones like cemeteries (DUBIEL et al. 1998). There are often difficulties with clear assumption of status of the location between anthropogenic and natural as to *T. speciosa*. As this species is grown it often runs wild. According to "Vascular plants of Poland photoflora" (ZAJĄC and ZAJĄC 2001) the status of locations of *T. speciosa* in the Bieszczady is not certain, whilst MEUSEL and JÄGER (1992) claim that locations in Western Bieszczady are natural.

Telekia speciosa (Fig. 1) is perennial with raised stem, 1-2 metres high, similar to *Inula helenium* L., so can be confused with it. The lower leaves of *T. speciosa* are triangle heart-shaped with short peduncle, while in *I. helenium* they are oval or ellipsis narrowed in long

peduncles. The bottom of pollen basket of *T. speciosa* has disk scales, opposite to *I. helenium*, which has none. The pappus of *T. speciosa* looks like a little, membranous seam, whereas in *I. helenium* it consists of one row of stings (ZARZYCKI 1971, MIREK et al. 2000).

The main aim of this work was to show the locations of *T. speciosa* in eastern part of West Pomerania, not only already known, but first of all those never announced in this part of Poland.

MATERIALS AND METHODS

The surveys on distribution of *T. speciosa* were carried out between the years 2000-2006 in two voivodeships: West Pomeranian and Pomeranian. The area is situated within the limits of ten regions, as follows: Lakeland Bytowski, Ice-marginal Valley of Łeba-Reda, Białogardzka Plain, Gryficka Plain, Sławińska Plain, Słowińskie Coast, Trzebiatowskie Coast, Damnicka Plateau, Polanowska Plateau and Żarnowiecka Plateau (KONDRACKI 1998). There is a number of a square according to ATPOL system and name of commune beside every locality. The sitting of localities is shown in Figure 2.

Localities characteristic

West Pomeranian Voivodeship:

1. Cerkwica (AB 17, Commune Karnice) – in the outskirts of park, single specimens or little pieces,
2. Karnice (AB 17, Commune Karnice) – grows along the stream which goes through park,
3. Konarzewo (AB 17, Commune Karnice) – along dirt road in the village, few pieces of 20-30 m² area,
4. Dargosław (AB 29, Commune Brojce) – in a park, area of about 80 m², near the *Castanea sativa* Mill.,
5. Łopianów (AB 38, Commune Gryfice) – in a village on the roadsides, single specimen or little pieces,



FIG. 1. *Telekia speciosa* (Schreb.) Baumg. in the former manor park in Cecenowo

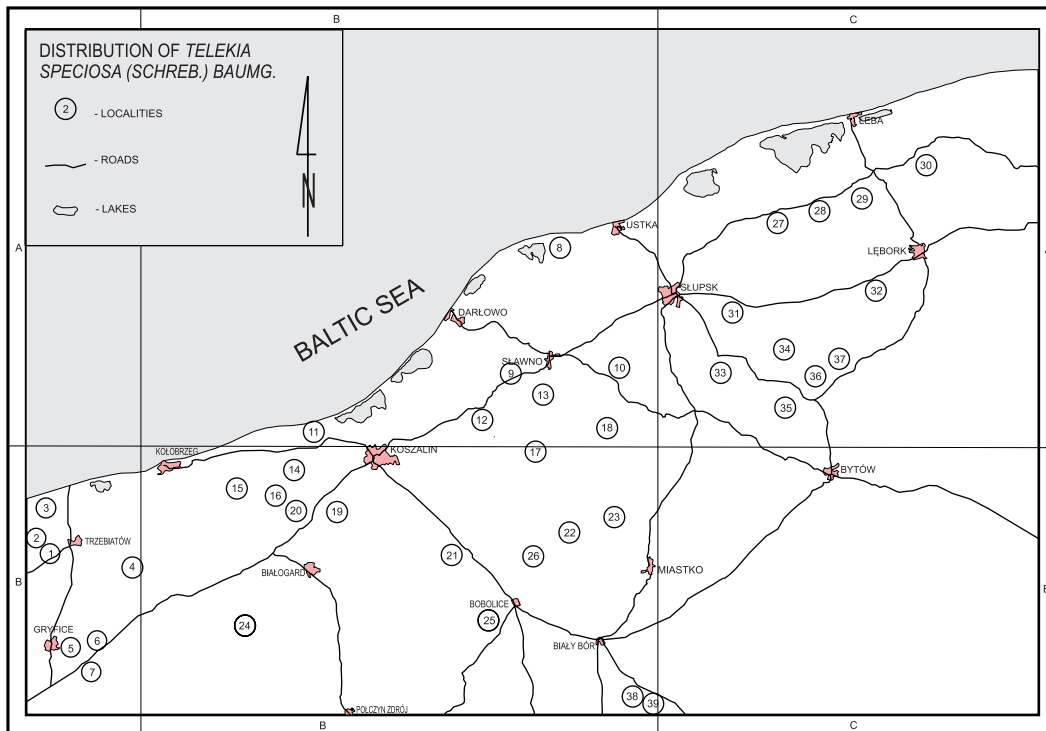


FIG. 2. Lokalizacja stanowisk *Telekia speciosa* (Schreb.) Baumg.

GRID SQUARE AB: PROV. ZACHODNIOPOMORSKA. 17 – 1. Cerkwica (Karnice Commune), 2. Karnice (Karnice Commune), 3. Konarzewo (Karnice Commune); 29 – Darosław (Brojce Commune); 38 – 5. Łopianów (Gryfice Commune), 6. Wyszobór (Płoty Commune); 39 – 7. Gostyń Łobeski (Płoty Commune).

GRID SQUARE BA: PROV. ZACHODNIOPOMORSKA. 67 – Górsko (Postomino Commune); 87 – 9. Karwice (Malechowo Commune); 88 – 10. Tychowo (Sławno Commune); 92 – 11. Gąski (Mielno Commune); 96 – 12. Niemica (Malechowo Commune); 97 – 13. Kosierzewo (Malechowo Commune).

GRID SQUARE BB: PROV. ZACHODNIOPOMORSKA. 02 – 14. Strzępowo (Będzino Commune), 15. Wrzosowo (Dygowo Commune); 03 – 16. Warnino (Białogard Commune); 07 – 17. Laski (Białogard Commune); 09 – 18. Warcino (Kępice Commune); 13 – 19. Nosowo (Biesiekierz Commune), 20. Parsowo (Biesiekierz Commune); 15 – 21. Kopanino (Kopaniewo) (Manowo Commune); 17 – 22. Chocimino (Polanów Commune); 18 – 23. Rzeczycza Wielka (Polanów Commune); 22 – 24. Podwilcze (Białogard Commune); 26 – 25. Nowosiółki (Bobolice Commune); 27 – 26. Stare Borne (Bobolice Commune).

GRID SQUARE CA: PROV. POMORSKA. 52 – 27. Kłęczynko (Główczyce Commune), 28. Wykosowo (Główczyce Commune); 53 – 29. Cecenowo (Główczyce Commune); 54 – 30. Maszewko (Wicko Commune); 71 – 31. Domaradz (Darnica Commune); 73 – 32. Runowo (Potęgowo Commune); 80 – 33. Żelkówko (Kobylnica Commune); 82 – 34. Gogolewo (Dębica Kaszubska Commune); 91 – 35. Kołczygłówny (Kołczygłowy Commune); 92 – 36. Gałęźnia Wielka (Kołczygłowy Commune), 37. Jawory (Dębica Kaszubska Commune).

GRID SQUARE CB: PROV. POMORSKA. 50 – 38. Łoża (Czarne Commune); 51 – 39. Kujanki (Człuchów Commune).

6. Wyszobór (AB 38, Commune Płoty) – in a park, along the alley leading to manor house,
7. Gostyń Łobeski (AB 39, Commune Płoty) – in a village on the roadsides, single specimen or little pieces of 2-5 m² area,
8. Górsko (BA 67, Commune Postomino) – pieces of area between 50-60 m² along the road which leads to old military training field,
9. Karwice (BA 87, Commune Malechowo) – in a park nearby manor house a piece of about 50 m², close to the old governor house about 120 m² (SOBISZ and TRUCHAN 2005),
10. Tychowo (BA 88, Commune Sławno) – in the park beside ponds,
11. Gąski (BA 92, Commune Mielno) – single specimens or little clumps along park fence,
12. Niemica (BA 96, Commune Malechowo) – in a park close to the alley of hornbeams, on a glade nearby *Platanus ×hispanica* Mill. Ex Münchh. (SOBISZ and TRUCHAN 2005), also beside church,
13. Kosierzewo (BA 97, Commune Malechowo) – on a mild hillside in the park (SOBISZ and TRUCHAN 2005), single clumps on devastated ancestral cemetery, nearby church ruins and along the road from village to bus stop on the line Polanów–Sławno,
14. Strzępowo (BB 02, Commune Będzino) – park area in the lowering land, in the neighbourhood of *Fraxino-Alnetum* W. Mat. 1952,
15. Wrzosowo (BB 02, Commune Dygowo) – park area, nearby old grange buildings,
16. Warnino (BB 03, Commune Białogard) – little pieces in a park, nearby manor house, close to grand *Liriodendron tulipifera* L.,
17. Laski (BB 07, Commune Białogard) – in the outskirts of park, few pieces of 80-100 m² area,
18. Warcino (BB 09, Commune Kępice) – in a park area, beside “Joanna” spring and on the cemetery for dogs created by Bismarck, the last owner,
19. Nosowo (BB 13, Commune Biesiekierz) – in the outskirts of park, near metal fence,
20. Parsowo (BB 13, Commune Biesiekierz) – on roadsides in a village,
21. Kopanino (Kopaniewo) (BB 15, Commune Manowo) – in a park nearby hunting manor-house, under the trees *Taxus baccata* L., moreover little pieces and single specimens in the forest part of park,
22. Chocimino (BB 17, Commune Polanów) – in a park, along the main alley leading to ancestral cemetery of von der Osten Daberk family, which is in a good condition, what is more, along paths near springs,
23. Rzeszyca Wielka (BB 18, Commune Polanów) – in a park and village beside stream and also close to three impressive *Quercus robur* L.,
24. Podwilcze (BB 22, Commune Białogard) – single specimens in the village – on the roadsides and gardens,
25. Nowosiółki (BB 26, Commune Bobolice) – single specimens in the park area, along old alley, which is barely noticeable nowadays,
26. Stare Borne (BB 27, Commune Bobolice) – in the area of old park near manor-house, along fence; Pomeranian Voivodeship:
27. Klęcinko (CA 52, Commune Główny) – single specimens and little pieces (5-10 m²) on the roadsides,
28. Wykosowo (CA 52, Commune Główny) – in the park, huge pieces on a widespread park glade, whilst little pieces and single specimens along park alleys (SOBISZ and TRUCHAN 2005),
29. Cecenowo (CA 53, Commune Główny) – in the park, on the left side from manor-house, from the southern elevation (about 60 m²) and little pieces and single specimens on the outskirts of park (SOBISZ and TRUCHAN 2005),
30. Maszewko (CA 54, Commune Wicko) – mass number in the park, near the ruins of manor-house about 230 m² and it spreads to close allotments and flowerbeds,
31. Domaradz (CA 71, Commune Damnica) – in the park beside the manor-house ruins – about 40 m² (SOBISZ and TRUCHAN 2005),
32. Runowo (CA 73, Commune Potęgowo) – single specimens on the outskirts of the old park, nowadays there is a stud,
33. Żelkówko (CA 80, Commune Kobylnica) – grows along the cobbled road to park and also on the outskirts,
34. Gogolewo (CA 82, Commune Dębica Kaszubska) – in the park area, close to fence of grass-land,
35. Kołczygłowy (CA 91, Commune Kołczygłowy) – in the park area, near ancestral cemetery of von Puttkamers family,
36. Gałęźnia Wielka (CA 92, Commune Kołczygłowy) – in the park area, along the road which leads to *Aesculus hippocastanum* L. alley, far to park ravine,
37. Jawory (CA 92, Commune Dębica Kaszubska) – in the park area, on the hillside, nearby Skotawa river passing by, close to the Skotawa banks and an old mill,
38. Łoża (CB 38, Commune Czarne) – in the park, beside an old manorial chapel (piece of about 60 m²),
39. Kujanki (CB 51, Commune Człuchów) – along the fence of neglected and devastated submanorial park.

CONCLUSIONS

There are 39 localities of *T. speciosa* on the surveyed area. Most of them definitely are located in the old parks, whereas the rest are situated on the roadsides or in gardens adjacent to houses. According to ABROMEIT et AL. (1903) *T. speciosa* was a species planted in manorial parks and gardens in Pomerania since 1830. Most likely, those localities on the areas of old manorial parks are traces of their remote owners. It is assumed after seven years of observations that *T. speciosa* has tendencies towards increasing its acreage. Pieces of *T. speciosa* were found in Wykosowo in 2000. They covered much smaller area than in 2005. A similar situation was observed in Maszewko.

REFERENCES

- ABROMEIT J., JENTZSCH A., VOGEL G. (1903): Flora von Ost- und Westpreussen. Preussischen Botanischen Verein zu Königsberg in Preussen 1, 2: 384-385.
- DUBIEL E., GAWROŃSKI S., STACHURA A. (1998): Relikty dawnych kultur ogrodowych w Magurskim Parku

- Narodowym. *Fragm. Florist. Geobot. Ser. Polonica* 5: 101-108.
- HEGI G. (1964-1979): *Illustrierte Flora von Mitteleuropa. Angiospermae Dicotyledones* 4: 6/3, XI-XLIV. Paul Parey, Berlin: 204-205.
- JASIEWICZ A. (1965): Rośliny naczyniowe Bieszczadów Zachodnich. *Monogr. Bot.* 20: 1-237.
- KONDRACKI J. (1998): Geografia Polski. Mezoregiony fizyczno-geograficzne. *Wyd. Nauk. PWN, Warszawa.*
- MEUSEL A., JÄGER E.J. (1992): *Vergleichende Chorologie der Zentraleuropäischen Flora* 3. *Fischer, Jena:* 242, 468.
- MICHALIK S., SZARY A. (1997): Zbiorowiska leśne Bieszczadzkiego Parku Narodowego. *Monogr. Bieszcz.* 1: 1-175.
- MIREK H., MIREK Z., PORĘBSKA E., PORĘBSKI M. (2000): *Rośliny gór polskich.* MUZA SA, Warszawa.
- SOBISZ Z., TRUCHAN M. (2005): *Zabytkowe parki podworskie Pomorza Środkowego.* Pomorska Akademia Pedagogiczna, Słupsk.
- TRUCHAN M., SOBISZ Z. (2005): *Parki podworskie wschodniej części Wysoczyzny Damnickiej.* *Słup. Pr. Przyr.* 2: 147-156.
- TUTIN T.G. (1964): *Telekia* Baumg. In: *Flora Europaea.* Vol. 4. Eds T.G. Tutin, D.M. Moore, D.H. Valentine, S.M. Walters, D.A. Webb. Cambridge Univ. Press, Cambridge.
- WINNICKI T., ZEMANEK B. (2003): *Przyroda Bieszczadzkiego Parku Narodowego.* BdPN, Ustrzyki Dolne.
- ZAJĄC A., ZAJĄC M. (2001): *Atlas rozmieszczenia roślin naczyniowych w Polsce. Distribution atlas of vascular plants in Poland.* *Pracownia Chorologii Komputerowej Instytutu Botaniki Uniwersytetu Jagiellońskiego, Kraków.*
- ZARZYCKI K. (1971): *Telekia speciosa* (Schreb.) Baumg. In: *Flora polska.* Vol. 12. *Rośliny naczyniowe Polski i ziem ościennych.* Eds B. Pawłowski, A. Jasiewicz. PWN, Warszawa.
- ZEMANEK B. (1981): *Stosunki geobotaniczne Gór Słonnych (Polskie Karpaty Wschodnie).* *Zesz. Nauk. Uniw. Jagiell. Pr. Bot.* 9: 31-65.
- ZEMANEK B., WINNICKI T. (1999): *Rośliny naczyniowe Bieszczadzkiego Parku Narodowego.* *Monogr. Bieszcz.* 3: 1-249.
- For citation: Truchan M. (2007): The distribution of *Telekia speciosa* (Schreb.) Baumg. (Asteraceae) in the eastern part of West Pomerania. *Rocz. AR Pozn. 386, Bot.-Stec.* 11: 49-52.