

TYPHA LAXMANNII LEPECHIN (*TYPHACEAE*), A NEW SPECIES IN THE CROATIAN FLORA

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Topić, J. & Ozimec, S.: *Typha laxmannii* Lepechin (*Typhaceae*), a new species in Croatian flora. Nat. Croat., Vol. 10, No. 1., 61–65, 2001, Zagreb.

The plant species *Typha laxmannii* Lepechin (*Typhaceae*) was found in summer 2000 in the vicinity of Kopačevo village (East Croatia). This is the first finding of *T. laxmannii* in Croatia and the plant probably came from Vojvodina region (Serbia). A small population in Kopačevo was found in an artificial depression where the sand had been excavated.

Keywords: *Typha laxmannii*, Croatia

Topić, J. & Ozimec, S.: *Typha laxmannii* Lepechin (*Typhaceae*), nova vrsta hrvatske flore. Nat. Croat., Vol. 10, No. 1., 61–65, 2001, Zagreb.

Ljeti 2000. nađena je u blizini sela Kopačeva (istočna Hrvatska) biljna vrsta *Typha laxmannii* Lepechin (*Typhaceae*). To je prvi nalaz te vrste u Hrvatskoj, a za pretpostaviti je da je došla iz Vojvodine (Srbija), gdje je već odavno udomaćena. Mala populacija kraj Kopačeva raste u umjetnoj depresiji gdje se iskapa pijesak.

Ključne riječi: *Typha laxmannii*, Hrvatska

The plant species *Typha laxmannii* Lepechin is generally distributed from Europe to the Caucasus, Asia Minor, Mongolia, China and Japan (TOPA, 1966). In Europe according to COOK (1980) this species is distributed in South and East Europe: Al Bu Gr Rm Rs (W?K E) Cz *Ga Ge Hu *It (* notes doubtful status; possibly native, possibly naturalized). There are more reports on the appearance of this species in Central European countries (ADLER *et al.*, 1994; FIALA & JANKOVSKA, 1968; CVANCARA & SOURKOVÁ, 1973; GEISSERT, 1972; GRIESE, 1998). There it is an adventive plant, occurring sporadically and ephemerally. Over this area, as well as in Italy (PIGNATTI, 1982) *T. laxmannii* is rare. In addition to these data it is also rather widespread in the Vojvodina region (northern Serbia, Yugoslavia) (BUDAK, 1986), where it is considered a neophytic plant exhibiting a tendency to expand.



Fig. 1. The locality of *Typha laxmannii* in Croatia

In summer 2000 *Typha laxmannii* was found in the vicinity of Kopačevo village, at the border of the Special Zoological Reserve of Kopački rit, in the easternmost part of Croatia (Fig. 1), UTM CR 25. A small population occurred there in an artificial depression where the sand had been excavated (Fig 2). At that time the soil (pure sand) was rather dry, and *T. laxmannii* was accompanied by *Typha angustifolia*.

As the species *Typha laxmannii* is rather rare in this area, we find it useful to indicate some of the morphological distinctions between it and *T. angustifolia*:

<i>Typha laxmannii</i>	<i>Typha angustifolia</i>
lamina 2–4 (–7) mm wide	lamina 8–20 mm wide
♂ and ♀ parts of inflorescence separated by 1–6 cm	♂ and ♀ parts of inflorescence contiguous or separated by not more than 2,5 cm
female part 4–9 cm	female part 8–15 cm

According to different habitat conditions morphological differences in *Typha laxmannii* were noted, referring to height, flower hairs, length of apical part and other things (U. MÜLLER-DOBLIES & D. MÜLLER-DOBLIES, 1980)

Unfortunately, the habitat where *Typha laxmannii* was found in eastern Croatia is an unofficial waste dump with a progressive vegetation succession toward bush formation. Thus, the survival of *Typha laxmannii* on this locality is very doubtful.



Fig. 2. *Typha laxmannii* near Kopačevo village (above left, photo J. Mikuska), the female part of inflorescence (above right, photo J. Topić), and habitat (down, photo J. Topić)

Although this was the first finding of *Typha laxmannii* in Croatia, it has been expected since it grows in nearby Serbia in several locations along channels and in marshes, not more than 50 km away from the Croatian border. It is probably due to the number of birds, migrating all over this area to and from Kopački rit Reserve that this species came westwards, over the Danube River. It is certain that in Croatia this plant has not escaped from artificial ponds, which probably occurred in some cases in the Central European area (ADLER *et al.*, 1994), where *T. laxmannii* has recently been grown as a decorative plant.

Since there are some notes about the expansion of *Typha laxmannii* in nearby Serbian territory, it would be useful to monitor its possible survival and expansion in Croatia as well. The specimen has been placed in a herbarium in Zagreb (ZA).

ACKNOWLEDGMENT

We would like to thank to Prof. Jozsef Mikuska for providing the data and original photos, as well as to the anonymous referees for their helpful suggestions.

Received January 8, 2001

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S A Ž E T A K

***Typha laxmannii* Lepechin (*Typhaceae*), nova vrsta hrvatske flore**

J. Topić & S. Ozimec

Typha laxmannii Lepechin rasprostranjena je na području Eurazije. U Europi dolazi pretežno u njenom jugoistočnom dijelu. U Hrvatskoj dosad nije bila zabilježena, dok je rasprostranjena u susjednom području Vojvodine (Jugoslavija), gdje raste uz kanale, te u kanalima i močvarama.

Ljeti 2000. našli smo vrstu *Typha laxmannii* uz selo Kopačevo, pred ulazom u Specijalni zoološki rezervat Kopački rit, u sjeveroistočnoj Hrvatskoj (sl. 1), na lokalitetu gdje mještani za svoje potrebe iskapaju pijesak i bacaju otpad. U vrijeme nalaza stanište je bilo suho i ponešto ruderalno.

Kako postoje naznake da se ta vrsta u susjednim zemljama širi, valja pri istraživanjima močvarnih staništa obratiti pozornost na moguće nove nalaze.