

POLLEN CONCENTRATION DATA SET FOR XANTHIUM SPP. IN 2019 IN THE NORTHERN GREAT PLAIN REGION

Viktor József Vojnich^{1*}, Dóra Kajtor-Apatini², Donát Magyar²

¹Faculty of Agriculture, University of Szeged, Hódmezővásárhely, HUNGARY

²Laboratory Department, National Centre for Public Health, Budapest, HUNGARY

*corresponding author: vojnich.viktor.jozsef@szte.hu

Pollen concentrations of *Xanthium spp.* were analyzed in air samples collected with a 7-day Hirst-type (Burkard) pollen trap placed in the Northern Great Plain region (Jász-Nagykun-Szolnok county, Szolnok; Hajdú-Bihar county, Debrecen; Szabolcs-Szatmár-Bereg county, Nyíregyháza) in 2019. The pollen season was defined as the day on which the sum of the daily average pollen concentration reaches 1% of the total amount and the end of the season was defined when it reaches 99%.

The highest annual total pollen count was detected in 2019 in Jász-Nagykun-Szolnok county (91 pieces), and the lowest in Szabolcs-Szatmár-Bereg county (41). The highest amount of pollen grains were counted on the 24th and 27th of August (9 pollen/m³) in Szolnok. The highest daily concentration was detected on August 21st (8 pollen/m³) in Debrecen. The highest daily value was recorded on August 25th (4 pollen/m³) in Nyíregyháza.

Pollen monitoring provides information on the size of *Xanthium spp.* stands.