Two faces of apark: the source of invasions ns and habitats for threatened native plants ts

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WE AIMED TO Alien taxa spontaneously spreading Threatened native taxa occurring in the parks data set parks I. in the parks from plantations, II. to the parks from their neighbourhood. GER (Wet plain with Orchis militaris in Liblice park (no. 10) I.: Telekia speciosa from park II.: Reynoutria japonica s. l. from Landscape categories neigbourhood of Kyjovice park cultivation in Choltice (no. 28) (no. 40) brook valleys with diversified relief (29) wet plains and basins of brooks (14) **METHODS** mesic slopes of hills (12) We surveyed 89 parks for aliens (75 for natives) in the Czech Republic, that included floodplains of big rivers (9) steep and dry rocky slopes (8) locations and landscape s palace gardens, chateaus and countryside parks, in various

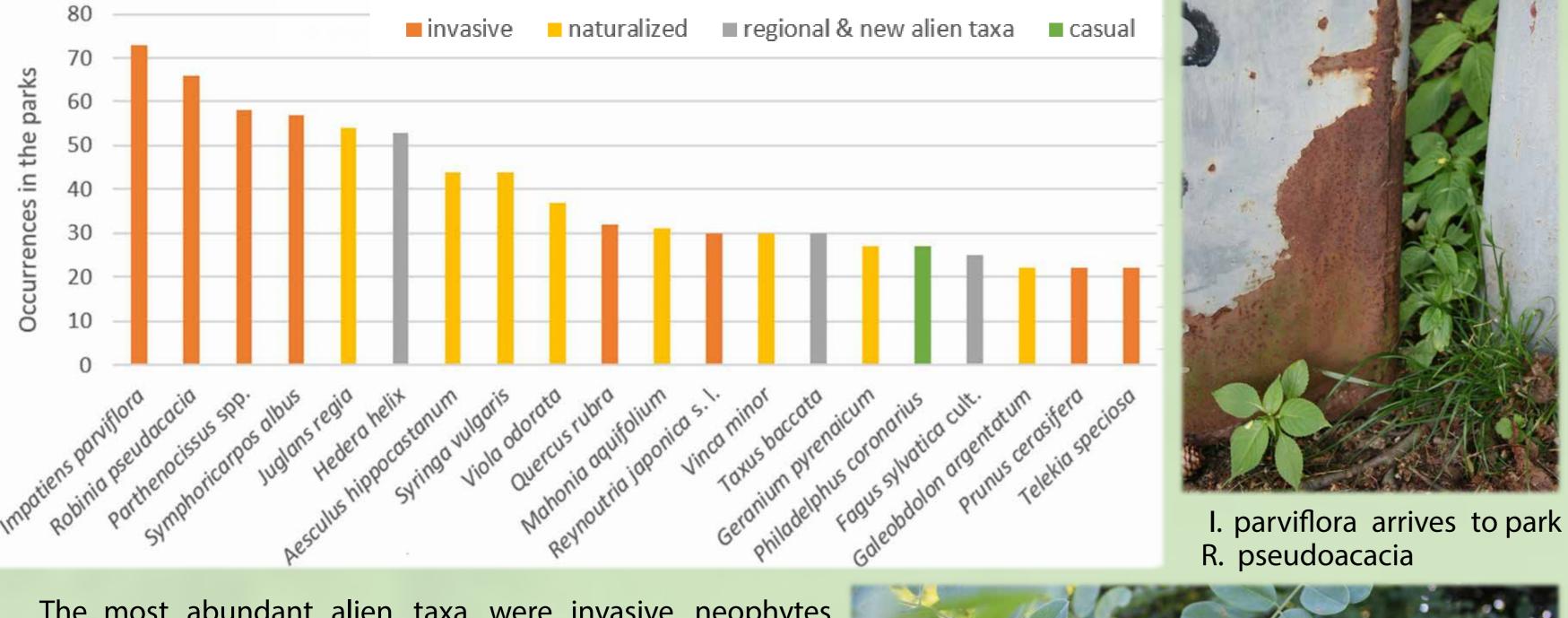
The numbers of escaping invaders are relatively low – on average 17 per park of which 13 were neophytes and 3 archaeophytes; 1 was uncategorized (with a maximum of 37 neophytes and 12 archaeophytes in park).

(see Landscape categories).

2.

RESULTS

There are many invasive plants which arrive to the parks from surrounding urban landscap es (e. g. Impatiens parviflora and Robinia pseudoacacia.



The most abundant alien taxa were invasive neophytes Impatiens parviflora (65% of surveyed parks) and Robinia pseudoacacia (59% of surveyed parks) whose rather incoming to the parks from surrounding.

WE FOUND 242 alien taxa escaping from ornamental plantings:

69% invasive & naturalized; 18% casuals 20 new alien taxa

eg.: Rhododendron luteum & Toxicodendron radicans





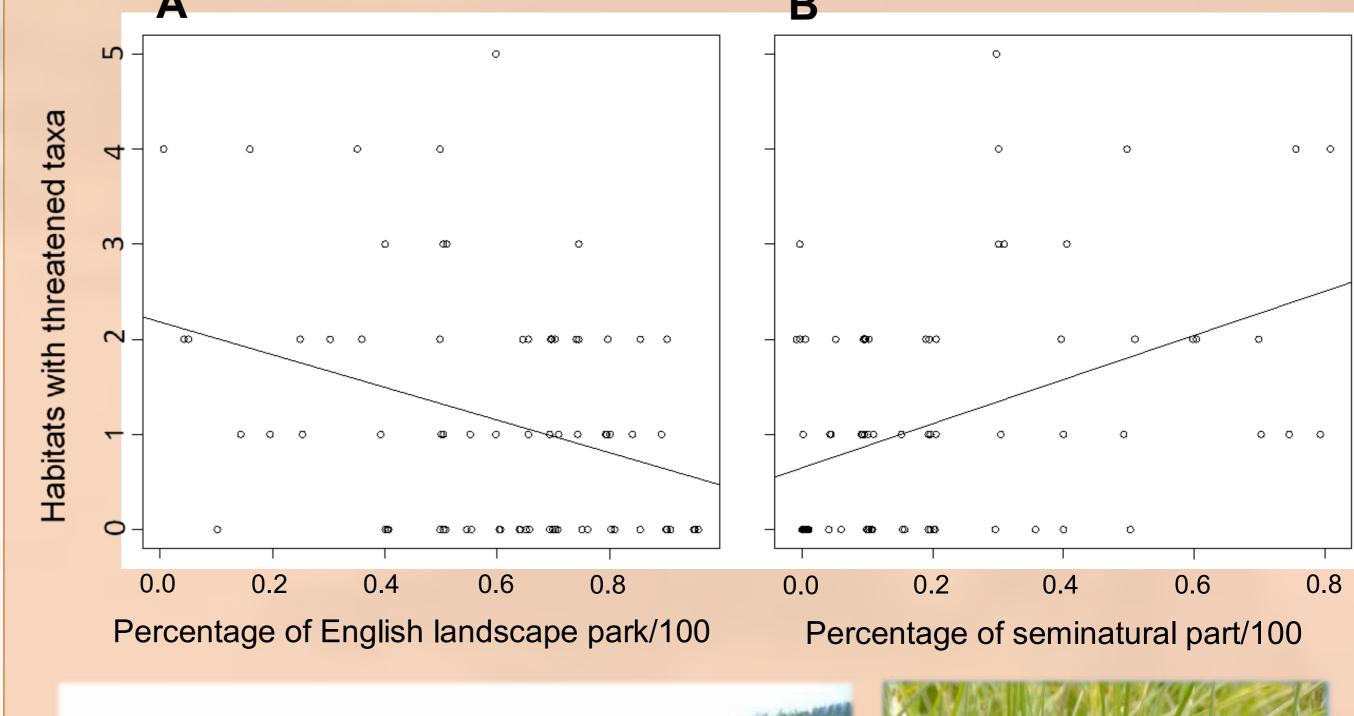
eg.: Stachys byzantina: Iranian endemic species escaping from park's gardenbends.



Are the parks hotspots of plant invasions?

The results indicated that parks play similar role in plant invasions as the other sites in urbanized landscapes.

Many parks include habitats functioning as refugia for threatened native species and vegetation types (mostly in seminatural sites):







lowlands - dry to mesic flat land out of river plains (17)

The specific seminatural parts of parks can harbour many threatened species such as Dactylorhiza majalis.

WE RECORDED 421 native species:

102 Red List species:

4 critically threatened species

Are the parks hotspots of plant diversity?

Parks that are maintained by regular management provide habitats for many threatened native species that disappear from the current landscape.