

Some remarks to the flora of the central station of Stockholm (Sweden)

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Train stations and other railway areas are of great importance for the maintenance of phytodiversity in urban areas. Railway stations are nowadays one of the species-richest habitats in central Europe (BRANDES 2005). For the aim of comparing studies in Europe we recorded the spontaneous flora of the central station (Centralstation) of Stockholm in September 2001. The number of asterisks reflects the frequency of the species:

Acer platanoides (shrub)
*Achillea millefolium**
Achillea ptarmica (marginal zone)
Arrhenatherum elatius
*Artemisia vulgaris**
Berteroa incana
*Betula pendula***
Bromus inermis (gravel)
Calamagrostis epigejos
Cerastium fontanum (marginal zone)
Chaenarrhinum minus
Chelidonium majus (marginal zone)
Chenopodium album (marginal zone)
Cirsium arvense
Convolvulus arvensis
Conyza canadensis (marginal zone)
Cynoglossum officinale (marginal zone on gravel)
Descurainia sophia
*Echium vulgare**
Elymus repens
*Epilobium angustifolium**
Festuca rubra (marginal zone)
Fragaria vesca
Fraxinus excelsior (shrub : marginal zone)
*Galium album**
Geranium robertianum
Geum urbanum
Hieracium spec.
*Hordeum jubatum** (gravel)
Hypericum perforatum
Lactuca serriola (marginal zone)

Linaria vulgaris
*Linaria repens****
Lycopersicon esculentum (marginal zone: only flowering, not fruiting)
Malus domestica (marginal zone)
Melilotus officinalis (marginal zone)
Mycelis muralis
*Persicaria maculosa**
*Plantago major**
Poa annua
Poa compressa
Poa palustris
Poa pratensis
Populus x canadensis (shrub)
Potentilla argentea
Rosa cf. canina
Rosa rugosa (marginal zone)
*Rubus idaeus**
Rumex obtusifolius
Rumex thrysiflorus
*Salix caprea**
Sambucus nigra (marginal zone)
*Senecio viscosus**
*Silene vulgaris**
Solidago canadensis
Solanum dulcamara (gravel)
Sonchus oleraceus (marginal zone)
Sorbus aucuparia (shrub)
Stellaria media
*Tanacetum vulgare**
Taraxacum officinale agg.*
Trifolium repens (marginal zone)
Tripleurospermum perforatum
*Tussilago farfara**
*Ulmus glabra** (maginal zone)
Viola odorata

Linaria striata (tab. 1) forms small stands typical for railway stations (BRANDES 1983), which belong to the alliance *Galeopsidion*. *Tanacetum vulgare* builts up small stands of the *Artemisio-Tanacetetum* (*Dauco-Melilotion*).

Tab. 1: *Linaria repens* community at Stockholm central station

Number of relevé	920	921	923	926	922
Area [m ²]	50	32	30	35	20
Vegetation cover [%]	30	40	40	25	30
Number of species	13	9	10	7	6
<i>Linaria repens</i>	3.2	3.3	3.3	2.3	3.2
<i>Senecio viscosus</i>	1.2	+	.	.	1.2
 <u>Artemisietea species:</u>					
<i>Tanacetum vulgare</i>	+.2	.	+°.2	.	1.2
<i>Artemisia vulgaris</i>	+	.	1°.2	.	+
<i>Cirsium arvense</i>	1.2	1.2	+	.	.
<i>Tussilago farfara</i>	.	1.2	2.2	.	.
<i>Poa compressa</i>	.	.	1.2	1.2	.
<i>Echium vulgare</i>	.	.	.	2.2	.
<i>Geum urbanum</i>	.	.	r	.	.
 <u>Companions:</u>					
<i>Taraxacum officinale agg.</i>	.	+	.	+	1°.1
<i>Galium album</i>	.	.	1.2	1.2	1.2
<i>Salix caprea</i>	+	.	2.2	.	.
<i>Betula pendula</i>	.	+	.	.	.
<i>Ulmus glabra juv.</i>	+	+	.	.	.
<i>Persicaria maculosa</i>	2.2	.	.	.	.
<i>Epilobium angustifolium</i>	.	.	.	2.2	.
<i>Rubus idaeus</i>	.	.	.	1.2	.
<i>Plantago major</i>	1.2	.	.	.	.
<i>Rumex obtusifolius</i>	1.2	.	.	.	.
<i>Arrhenatherum elatius</i>	+	.	.	.	.
<i>Epilobium spec.</i>	+	.	.	.	.
<i>Achillea millefolium agg.</i>	r	.	.	.	.
<i>Silene vulgaris</i>	.	3.3	.	.	.
<i>Hordeum jubatum</i>	.	1.2	.	.	.
<i>Fragaria vesca</i>	.	.	1.2	.	.
 Musi	.	.	5%	5%	.

Artemisio-Tanacetetum at Stockholm central station

Number of relevé	925	927
Area [m ²]	40	35
Vegetation cover [%]	45	85
Number of species	10	12
Tanacetum vulgare	3.3	5/4.3
Artemisia vulgaris	+.2	2.2
Linaria repens	1.2	1.2
Calamagrostis epigejos	2.2	.
Poa compressa	1.2	.
Melilotus officinalis	.	2.2
Convolvulus arvensis	.	+
Salix caprea	2.2	.
Betula pendula	2.2	.
Epilobium angustifolium	1.2	.
Galium aparine	1.2	.
Hieracium spec.	+	.
Festuca rubra	.	2.3
Taraxacum officinale agg.	.	1.2
Galium album	.	1.2
Poa palustris	.	1.2
Rosa rugosa	.	1.1
Ulmus glabra juv.	.	1.1
Senecio viscosus	.	+.2
Musci	.	5%

Literature:

- BRANDES, D. (1983): Flora und Vegetation der Bahnhöfe Mitteleuropas. – Pytocoenologia, 11: 31-115.
BRANDES, D. (2005): Kormophytendiversität innerstädtischer Eisenbahnanlagen. – Tuexenia, 25: 269-284.

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