

Among the fertilizer rates applied, considerably higher ($p < 0.05$) yields were obtained for the variants treated with 10 and 20 t ha⁻¹ mixtures of wood ash and cattle digestate.

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PECULIARITIES OF THE FOREST FLORA OF – GDAŃSK POMERANIA PRESENTED IN FOREST BOTANICAL GARDEN «MARSZEWO»

Forest Botanical Garden «Marszewo» is a young garden, established in 2010 according to the decision of the General Director for Environmental Protection in Poland. It is founded and maintained by the Gdańsk Forest District - a part of Polish State Forests. The garden is also a member of the Council of Botanical Gardens in Poland.

«Marszewo» garden covers the area of ca. 50 ha located in the suburbs of the Gdynia city (N Poland). Within the area the central part (5 ha) are taken by botanical collections and buildings, while the rest are forests - mainly beech and oak-hornbeam forests.

There are 30 botanical collections, focused on plants typical for Pomerania region. They are mostly varied forest species, but also such collections as: orchard of old fruit trees, geographically alien species or collection of medical and edible plants. There are also phytocoenotical collections (e.g. oak-hornbeam col., heathland col. meadow col.). Major part of the open area in garden has a wild character – as extensively mown (once a year) meadows.

One of botanical collections presented in Forest Botanical Garden «Marszewo» is called «Wild edible and medical plants, used formerly and nowadays

in Poland». Currently it consists of 66 species planted in wood boxes of different height. Among them are plants representing forests, forest margins, as well as meadow and agricultural ones.

Most of them are commonly found in gardens, road-sides or wastelands. Nowadays those plants are under valued or threatened as weeds, although they were often used in the past according to their medical and edible properties.

The following plants grow and develop on the collection site: *Achillea millefolium* L., *Althaea officinalis* L., *Artemisia vulgaris* L., *Bellis perennis* L., *Chelidonium majus* L., *Equisetum arvense* L., *Hypericum perforatum* L., *Plantago major* L., *Rumex acetosella* L., *Symphytum officinale* L., *Tanacetum vulgare* L., *Taraxacum officinale* F. H. Wigg., *Urtica dioica* L. and others.

Forest Botanical Garden «Marszewo» is also main educational centre in Gdańsk Forest District, which is a part of the Promotional Forest Complex – «Łasy Oliwsko-Darżlubskie». The varied, free of charge outdoor and indoor activities are provided by experienced educators (foresters and botanists) for organized groups of varied age.

Education is focused on: biodiversity of forests, sustainable forest management and natural and cultural heritage. For individual visitors «Marszewo» garden offers two series of events: Garden Sundays - Workshops and classes carried out by specialists (i.e. zoologists, botanists and foresters) on each Sunday from April to end of September Winter Sundays with birds - events organized in cooperation with the Operation Baltic Fund every second Sunday from December to February, as a part of the whole-country «Feeder action» in Poland.

There are also varied self-activities for visitors, like field games with maps, visiting botanical collections and two educational paths within the forest area of the garden.

Garden is presented in free of charge application and guide for cell phones, called «Nadleśnictwo Gdańsk». Garden is also a place for culture and art, with varied wooden sculptures, temporary exhibitions and place for concerts and theatre performances.

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POSSIBILITIES OF USING FLAX

Flax have a wide range of uses. Technical fiber is obtained from flax stems. A