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GROWTH AND DEVELOPMENT OF WALL FERN (*POLYPODIUM VULGARE*) ON KNOPP'S PLANT FOOD

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ABSTRACT

Many species of ferns are extinct strains, appearing in a few in natural habitats. Human influence on the environment, rebuilding natural habitats such as cultivating forests, diking meadows causes major limit of appearing of many plant species including ferns. Nowadays homegrown *Polypodium vulgare* species play central role in forest ecosystem, mainly as a green part of the forest and in some of them they are basic constituent of underbrush. Their main role in ecosystems is creating natural habitats for many species of invertebrates and vertebrates living there. Complicated developmental cycles and their term of lasting causes that specific protection „in vivo” is hard, in many cases even impossible. What we can do is to cultivate gametophytes of ferns ”in vitro” to make faster developmental cycles possible and move them to their natural habitats in quantities which can secure survival of species. The main aim of this work was showing possibilities of cultivating gametophytes of wall fern and testing their optimal conditions including Knopp's plant food with whole components of microelements. Conditions of the successful cultivation will be used to test them for other fern species. The results confirmed the possibility.

Słowa kluczowe: paproć zwyczajna, gametofit, gleba, pożywka

Key words: wall fern, gametophyte, soil, plant food

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