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東京の石垣とシダ植物

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環境科学*

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MATSUKURA, A. and SAIKAWA, M.: Colonization of ferns on the stone walls in Tokyo. Bull. Tokyo Gakugei Univ. Natur. Sci., **59**: 69-75 (2007) ISSN 1880-4330

Abstract

Most of the stone walls in Tokyo are made of a number of natural stones piled up one by one, in which the narrow space between stones is filled with concrete cement. However, plants can invade into the space as time passes. In the present study, 42 stone walls were checked for colonization by vascular plants. The pH of soil in the narrow space and the canopy closure were checked at each stone wall, as well as its size, angle against the ground level and facing direction. Of the 42 stone walls examined, 29 were situated in the metropolitan area, where *Pteris multifida* and *Cyrtomium fortunei* in the Pteridophytes were the most abundant of the 60 plants counted. On the other hand, stone walls in the suburbs were found to host many more plant species than those in the metropolitan area, i.e., 82 species of plants were counted from 13 stone walls checked. Although the most abundant species were *Athyrium niponicum* and *P. multifida*, again in the Pteridophytes, they were not as conspicuous in appearance as the two fern species found in the metropolitan area.

Key words: *Cyrtomium fortunei*, Pteridophytes, *Pteris multifida*, stone wall, Tokyo

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