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Journal of Forest Science

Root system development and health condition of sycamore maple (*Acer pseudoplatanus* L.) in the air-polluted region of Krušné hory Mts.

J. For. Sci., 53 (2007): 452-461

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The paper presents results from a study of sycamore maple development, health condition and growth in forest altitudinal vegetation zones (FAVZ) 6 and 7 occurring in pollution damage zones A and B in the air-polluted region of Krušné hory Mts. as compared with the trees of identical height in FAVZ 4 and 5 occurring in pollution damage zone D in the Bohemian-Moravian Upland. Sycamore maple develops a fully diversified root system. On spread mounds it creates only a superficial root system and its growth is retarded. The growth of sycamore maple is limited by the layer of humus horizons. If the layer thickness is over 20 cm, the sycamore roots would grow into mineral horizons.

Keywords:

sycamore maple; root system; humus; afforestation; mounds

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