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Soil impact on the radial growth of Taxodium (Taxodium distichum (L.) Rich.) in Serbia

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This work presents results of analyzed radial development, quantity of radial growth and soil factors in two plantations in Serbia. One of them is located close to Backa Palanka area, and the other is in Belgrade , area of a big war island. Both of them were established at the same type of soil. The research was conducted on 27 years old trees. For both of these locations there were a number of dates which were measured, such as physical-chemical characteristics of the soil and current radial growth that was measured among 20 % widest trees – those parameters were the most important.

By comparison between values and form of a current radial growth it was concluded that Taxodium trees in a plantation near Backa Palanka have a culmination of a current radial growth a bit earlier and with some bigger values than those that originate from Belgrade – big war island. There was compared radial development and it was concluded that the trees from Backa Palanka reach bigger radial values than those from Belgrade – big war island at the same age as well. There were some differences between these locations based on physical-chemical analyze conducted on a soil, so the differences in a radial development, form and values of a current radial growth can be explained with a soil influence, and it will be proofed over the following period in this scientific research.