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Journal of Forest Science

**Forest reclamation of dumpsites of coal combustion by-products
(CCB)**

J. For. Sci., 54 (2008): 273-280

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The present paper describes the reclamation of dumpsites of coal ash – coal combustion by-products (CCB) generated by the burning of brown coal in thermal power plants. It evaluates the soil properties of formed Anthroposols and growth vitality of the forest tree species *Quercus robur* L., *Quercus rubra* L., *Pinus sylvestris* L., *Betula verrucosa* Ehrh., *Populus tremula* L., *Populus nigra* L., *Salix fragilis* L., *Salix alba* L., *Alnus glutinosa* (L.) Gaertn. The best growth vitality at these sites was reached in tree species of seed origin from the vegetation series of primary succession.

Deformations of the taproot (taproot laterals) in trees under 10 years of age were observed on Anthroposol from coal ash in *Salix alba* L., *Salix fragilis* L., *Populus tremula* L., *Populus nigra* L. and *Populus alba* L. and in the overlaying of the compacted stabilize with a layer of reclaimable soil up to 0.5 m in *Pinus sylvestris* L., *Alnus glutinosa* (L.) Gaertn. and *Quercus rubra* L.

Keywords:

forest reclamation; Anthroposol; coal-ash
dumpsite; coal combustion by-products;
soil properties; growth vitality; root system

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