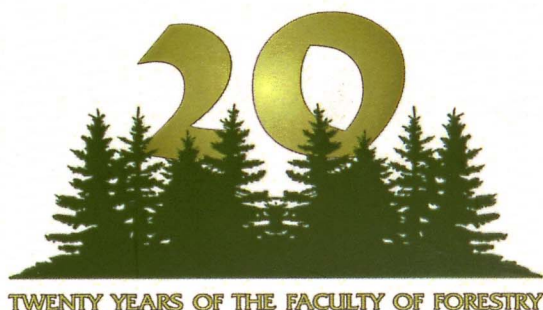


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**FORESTRY SCIENCE AND PRACTICE FOR THE PURPOSE
OF SUSTAINABLE DEVELOPMENT OF FORESTRY
20 YEARS OF THE FACULTY OF FORESTRY IN BANJA LUKA**



BOOK OF ABSTRACTS

1th - 4th November 2012, Banja Luka, Republic of Srpska/B&H



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Lymantria dispar (L.) AND *Pollacia elegans* (VUILL.) FABR. PREFERENCE TO SEVEN POPLAR CLONES IN SHORT ROTATION PLANTATIONS

Slobodan Milanović¹, Zlatan Radulović¹, Milorad Veselinović¹, Suzana Mitrović¹

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ABSTRACT

Presence of herbivorous insects, *Lymantria dispar* (L.) caterpillars and pathogen *Pollacia elegans* (Vuill.) Fabr. on seven poplars clones was estimated on a short rotation plantation which was established near Junkovac (Mining basin Kolubara).

The present study was carried out in the first year of the first rotation period after establishing of plantation. The highest percentage of trees with the presence of gypsy moth caterpillars has found in the clone "Pannonia" and "The 214", though that percentage in the second clone was twice lower. By the clones generated by hybridization of *Populus nigra* and *P. maximowiczii* "Max 1", "Max 2", "3 Max" and "Koltay", the number of trees with gypsy moth caterpillars varied from 1 to 2.5% and the lowest value was recorded for clone "Muhle Larsen. The fungus *Polacia elegans* is most present in the clones "Max 1", "Max 2", "3 Max" and significantly less present in the clones "Koltay" and "Pannonia". The presence of this pathogen was recorded at less than 5% of the plants in the clones "I214" and "Muhle Larsen."

Based on the obtained results it can be concluded that the tested clones shows differences in susceptibility to the pathogen *Pollacia elegans* and gypsy moth caterpillar preference.

Registered differences are not random and do not depend on the distance of the potential sources of infection.

The general conclusion is that the clone "Muhle Larsen" was least susceptible to gypsy moth caterpillar defoliation and *Pollacia elegans* attack and as such it may be recommended for raising short rotation coppices.

Key words: Poplar clones, Short rotation, *Lymantria dispar*, *Pollacia elegans*, preference

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