Key words: soil properties, degraded and other deforested lands, Zlatibor

INFLUENCE OF SOIL PROPERTIES ON THE MEAN MAXIMUM

HEIGHT OF BEECH ECOLOGICAL UNITS IN THE REGION OF VELIKI **JASTREBAC**

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determined by its physical and chemical properties and biological characteristics of skeleton, clay content, depth of solum, A surface horizon thickness, pH value and tree species that benefit from that fertility. forests in the region of Veliki Jastrebac. Namely, the natural fertility of the soil is humus content) on the mean maximum height (hgmax) in different types of beech The paper presents results of study of influence of soil properties (contents of the

as effects andrelations existing in the stand. indicators, mean maximum height value is least affected by care measures, as well is best reflected through the mean value of the maximum height. Out of all taxation eco-vegetation units with a high level of certainty. The influence of soil properties Mean maximal height (hgmax) indicates differences in potential and possibilities of

forest of beech and mountain maple (Aceri heldreichii-Fagetum Jovanović 1957). beech forest (Luzulo-Fagetum moesiacae montanum Miš. et Pop. 1976) and the higher altitude (Fagetum altimontanum moesiacum Jovanović 1985), acidophilus Fagetum montanum, Jovanović 1973), high mountain moesian beech forest at montanum Jovanović 1953), mountain beech forest with fescue (Festuco drymeiuc in the following beech communities: mountain beech forest (Fagetum moesiacur The study includes two types of soil - humus-siliceous soil and distric brown soil

various types of beech forests in the area of Veliki Jastrebac. humus-siliceous soil, which caused the differences in production potential among differences in characteristics between the typical acidic brown soil and distric Based on the results of the study it can be concluded that there are distinct

impact on the mean maximum height in a typical mountain beech forces Statistical analysis showed that characteristics of distric brown soil have a bigger

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of the solum, thickness of A horizon, content of skeleton and clay content) have communities. Furthermore, it was found that physical properties of the soil (depth maximum height (hgmax), and more prominent was the influence of other habitat favorable properties of the soil were, the less influence they had on the mean stronger impact of the mean maximum height in studied forest types. The less community (Fagetum moesiacae montanum, Jovanović 1953) than in other factors.

Key words: soil properties, mean maximum height, beech forests, Veliki Jastrebac