

**THE INFLUENCE OF THE MIXTURE LUPINE+OAT+RAPE
USED LIKE GREEN MANURE
UNDER THE MAIN PARAMETERS OF THE SOIL
FERTILITY FOR SUSTAINABLE AGRICULTURE SYSTEM
IN NORTH WESTERN ROMANIA**

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Abstract. The paper is based on the research carried out in a long term trial placed in 2000, on a soil with 10% slope at Agricultural Research and Development Station Oradea. The research emphasize the improve of the physical (structure degree, bulk density, total porosity, penetration rezistance, hydraulic conductivity) chemical (pH, mineral nitrogen, mobile phosphorum, mobile potassium) and biological properties (actual dehydrogenase activity,potential dehydrogenase activity, catalase activity, acid phosphatise activity, alkaline phosphatase activity) of the soil in the lupin pure crop and especially in the mixture lupine+oat+rape; as consequence this mixture is recomanded.

Keywords: Green manure, lupin, sustainable agriculture

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