

## **Abstract**

The work presents description of the current form of non - legal cannabis cultivation in big grow houses, in the Czech Republic. It maps the methods, used by the growers and also usable material for the highest success in breeding for enhanced content of delta 9 - tetrahydrocannabinol in cannabis. And also provides a partial insight into the activities of police in detecting these illegal grow houses.

The aim of this work wasn't to completely map this specific area, but to describe and compare the informations, which are available from the public sources and which deal with the theory of manuals on hemp cultivation and mutually compare the different procedures used in real grow houses.

The theoretical part summarizes the facts from literature focused on this topic. It defines the term cannabis, describes procedures and equipment needed to grow in the soil, then summarizes the requirements for a particular hydroponic cultivation, explains the concept of grow houses and provides possible ways to detect them.

The practical part is dedicated to the research, the results are evaluated and then draw the answers to research questions and conclusions arising from this study.

**Key Words: HEMP - CULTIVATION - HYDROPONICS – GROW HOUSES – UNCOVERED GROW HOUSES**