

## REVIEW

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On Ph.D. thesis about acquired the educational and scientific degree "**Doctor**" in: field of higher education 6.Agricultural sciences and veterinary medicine. Professional field 6.1. Crop science, scientific specialty Fruit-growing

**Author of the thesis:** Georgi Ivanov Govedarov, Ph.D. student of self-study in the Department of Fruit growing at the Agricultural University-Plovdiv

**Thesis title:** Opportunities for accelerated production of pear and quince trees on various quince rootstocks.

**Reviewer:** Prof. Dr. Valentin Iliev Lichev, Agrarian University - Plovdiv, Higher Education Area 6. Agricultural Sciences and Veterinary Medicine, Professional Scope 6.1. Crop Science, Scientific Speciality 04.01.15 Fruit growing, appointed as a member of the Scientific Jury with Ordinance No. № RD 16-1374 / 13.12.2019 of the Rector of Agricultural University-Plovdiv

### I. Short presentation of the candidate.

Georgi Ivanov Govedorov has graduated the secondary education at the Mathematical High School "Ivan Vazov" in Dobrich. He graduated from the Agrarian University of Plovdiv with a degree in General agronomy in 1984. In the same year, he started working as an agronomist, head of the Seed Production Division of cucumbers of the Sandra variety at the Greenhouse enterprise, the town of Rakovski. Subsequently, he is still a university teaching staff - assistant, senior assistant and chief assistant at the Department of Fruit Growing at the Agricultural University in Plovdiv. Has a good level of skills in English and Russian languages, both written and spoken. He has very good organizational skills. In 1993, as an assistant, he was the head of a student brigade in the village of Izbegli, Plovdiv.

### II. The actuality of the problem.

Modern, intensive fruit production has increased demands on the quality of the planting material. At the same time, many scientific teams around the world are striving to improve the efficiency of fruit tree production in the nursery. I have in mind that the proposed for reviewing scientific work treated precisely the issues of quantity and quality of quince and pear trees, and economic efficiency in their production in the

nursery, I think that the topic of the thesis is particularly relevant.

### **III. Aim and tasks of the study.**

After the PhD student, in his preliminary observations, found that quince rootstocks restarted their active juice movement in the spring earlier than the rootstock for other fruit species, he aimed to produce for one year a quality quince and pear trees grafted on quince rootstocks applied the traditional grafting method - T-section. The trees produced by conventional technology for 2 years are used for comparison.

In connection with this, the main tasks to be implemented include:

1. Establishing the possibility of producing quality quince rootstocks in the nursery for vegetative rootstock, more suitable for accelerated tree production.
2. Studies in the nursery concerning the accelerated method of production of pear and quince varieties grafted on quince rootstocks by T-section oculate on awake bud.
3. Researches in the quince nursery for vegetative rootstock to produce cuttings with the maximum number of leaves and highly reduced number of fruit buds.

### **IV. Visualization and presentation of the obtained results.**

The thesis is written on 113 standard typescript pages.

The work of the Ph.D. student is illustrated, containing 24 figures and 29 tables.

The common methods have been used in accounting for the individual indicators. Methodologically, the study meets to standard.

Almost all the data presented are under statistically processing using the method of analysis of variance, which allows making reliable and reasoned conclusions.

### **V. Discussion of the results and the literature used.**

The structure of the thesis fulfills the requirements for the educational and scientific degree of "Doctor". In connection with the literature review and discussion of the experimental results, a sufficiently rich literary review was prepared, included a total of 135 sources, 36 of which are in Cyrillic and 99 in Latin. This indicates that the author has become thoroughly acquainted with the problems existing in the production of grafted trees, and has subsequently suggested possibilities for solving them. The PhD student is fluent in the scientific terminology and uses it correctly. The data has been properly analyzed.

