

Abstract

Agriculture is an important discipline for a future development of economy and food industry. Breeding of plants and animals and processing of their products are definitely related with chemistry. In breeding of plants it is important to choose a fitting fertilizer and its accurate concentration. In breeding of animals it is important to get its balanced food and in a case of agriculture's product it is necessary to control its composition. In the Czech Republic it is possible to study agricultural branches at universities or at high schools. In the direction of the general education programs for agriculture branches at high schools, chemistry is an obligatory subject. This document describes an obligatory connection of a theory with an application in agriculture and minimal claims for content of chemistry education. Spreading this content is a matter of each schools. The first part of the thesis is an overview about agriculture branches at high schools and analysis of a general education program of a Agrobusiness branch with connection of a school education programs of the same branch. This thesis includes also an analysis of study materials for chemistry education in agriculture branches. In a practical part of the thesis there is situated a tentative investigation between chemistry teachers in agriculture branches and chemistry education in Agrobusiness branch. On the base of this investigation was determined that teachers teach chemistry only in general contents without connection to agriculture. It is caused by a small amount of materials for teaching chemistry in agriculture branches. It was also a reason to make a study materials. Its methodic and didactic description is included in this thesis. Produced study materials was sent to chemistry teachers of the Agrobusiness branch. They were fancy to get study material and praised its graphical aspect. They considered to replace making laboratory protocols by filling a working sheets. High schools with agriculture branches own laboratory equations.