

The comparison of the precision and conventional cultivation from an economy viewpoint

ENIKŐ LENCSES (Szent István University, Hungary, lencses.eniko@gtk.szie.hu)

DÁNIEL LENCSES (Szent István University, Hungary)

During the past decade, many people dealt a lot with the Hungarian agriculture, its views and opportunities in the future. If we want the Hungarian agriculture to be competitive on the European market it is necessary to be able to follow the market motions and its changes. To do this, certain areas should be invested in which requires capital. The agricultural production could only be competitive, if the farmers keep an eye on the environmental viewpoints and the sustainable farming. Precision cultivation could be one of the implements of the so-called sustainable development at the field of agriculture. Precision cultivation requires surplus expenditures (purchase devices, operating the devices, etc.) but it has advantages too (yield increase, decreasing of material costs and yield insecurity, etc.). The comparison of the surplus expenditures and surplus yields serves as a basis of a complex economical analysis where not only the costs and revenues but the sowing structure changes are also appearing. The aim of this paper is to introduce an economical model where all these former mentioned factors and its changes are also included.

Keywords: sustainable agriculture, precision cultivation, simulation