

ACCURACY OF GPS IN HARVESTER TECHNOLOGIES AND POSSIBILITIES OF THEIR USE UNDER CONDITIONS OF THE CR

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The study is aimed at the evaluation of the accuracy of the measurement of geographical position in GPS receivers built in modern logging and hauling machines, viz. harvesters and forwarders. To evaluate the accuracy comparative measurements by a Trimble GeoExplorer XT instrument with post-processing are used. In stands under investigation, we carried out the technological preparation of a workplace by means of a mobile GPS apparatus, digital map and TimberNavi software. The output of the preparation consisted in a modified digital map with plotted designed logging measures. The harvester operator followed the digital map. At the end of the study, possibilities are evaluated of the technological preparation of a workplace by means of a portable GPS apparatus and a digital map and possibilities to use data from GPS built in hauling and logging machines in forest practice with respect to the achieved accuracy of present GPS receivers and systems of wood logistics used.