PROCEEDINGS OF
12\textsuperscript{TH} INTERNATIONAL CONGRESS ON
MECHANIZATION AND ENERGY
IN AGRICULTURE

\textbf{EDITOR:} ASSOC. PROF. DR. AHMET INCE


\textbf{Key words:} Agricultural Mechanization, Agricultural Machinery, Energy in Agriculture

Printed in Alev Dikici Basım ve Ambalaj Sanayi, ADANA-TURKIYE

This book contains original papers submitted to the Editor and possible errors in the texts belong to author(s).
Costs Update of Olive Trunk Shaker Mechanical Systems

Arlindo ALMEIDA
School of Agriculture, Polytechnic Institute of Bragança – Mountain Research Centre (CIMO) – Campus de Sta. Apolónia - Apartado 1172 – 5301-855 Bragança, PORTUGAL

acfa@ipb.pt

Abstract Results of work rates and costs from field trials performed in Portugal over more than five years in olive orchards averaging 150 trees per hectare, was published by Almeida, A. et al (2001) and Almeida, A. et al (2007). Olives were harvested using two main harvesting systems, both with the same trunk shaker, but in one (System I) olives detached were collected by canvas manually moved and in the other (System II) olives detached were collected with an inverted umbrella. Results showed that the time spent in the displacement between trees is very important for the work rate value. Labour based manual collecting was found to reach the higher working rates, whereas in terms of costs the inverted umbrella scored the best results. More than one decade after the publication of those results, equipment and labour costs are substantial different as well as olive production value. Costs are updated and analyzed the consequences for referred olive mechanical harvesting systems.

Key words: Olives, Mechanical Harvesting, Costs