

## **An Analysis of Energy Use and Input Level for Tomato Production in Turkey**

**Authors :** Hasan Vural

**Abstract :** The purpose of this study was to determine energy equivalents of inputs and output in tomato production in Bursa province. The data in this study were collected from tomato farms in Bursa province, Karacabey and Mustafakemalpaşa district. Questionnaires were administered through face-to-face interview in 2011-2012. The results of the study show that diesel have the highest rate of energy equivalency of all the inputs used in tomato production at 60,07%. The energy equivalent rate of electricity is 4,26% and the energy equivalent rate of water is 0,87%. The energy equivalent rates for human power, machinery, chemicals and water for irrigation were determined to be low in tomato production. According to the output/input ratio calculated, the energy ratio is 1,50 in tomato production in the research area. This ratio implies that the inputs used in tomato production have not been used effectively. Ineffective use of these resources also causes environmental problems.

**Keywords :** Tomato production, energy ratio, energy input, Turkey

**Conference Title :** ICAE 2018 : International Conference on Agricultural Engineering

**Conference Location :** Prague, Czechia

**Conference Dates :** September 03-04, 2018