

## عنوان مقاله:

Affection of Production Technology and Machinery Ownership on Energy and Economic Indexes of Watermelon Production in Iran

## محل انتشار:

اولین همایش ملی تخصصی علوم کشاورزی و محیط زیست ایران (سال: 1394)

تعداد صفحات اصل مقاله: 7

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## خلاصه مقاله:

The aims of this study were to estimate the amount of input and output energy per unit area and to make an economic analysis of Watermelon production in Mazandaran province, Iran. A survey was conducted using a face to face questionnaire with 65 Watermelon producers. The area investigated was divided into two groups. Group I was consisted of 40 farmers (owner of machinery and high level of farming technology) and Group II of 25 farmers (non-owner of machinery and low level of farming technology). The energy ratio, energy productivity, specific energy, net energy gain, also direct, indirect, renewable and nonrenewable energies were calculated for both groups. The results indicated that total energy inputs for Group I and Group II were 62537.55 MJ ha<sup>1</sup> and 65555.23 MJ ha<sup>1</sup>, respectively. Only 22.98% and 26.14% of the total energy inputs used in Watermelon production was renewable in Group I and Group II respectively. Results showed energy ratio of Watermelon production in Group I and Group II was 1.42 and 1.17, respectively. Cost analysis expressed that benefit–cost ratio in the surveyed groups were 2.74 and 2.16, respectively. Results revealed Group I has a better condition than Group II

## کلمات کلیدی:

Energy consumption; Economic analysis; Farming technology; Iran; Watermelon

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/371362>

