عنوان مقاله:

Optimization of Energy Use Pattern in the CornProduction Systems in Iran

محل انتشار:

کنفرانس بین المللی منابع طبیعی، مهندسی کشاورزی، محیط زیست و توسعه روستایی (سال: 1395)

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خلاصه مقاله:

The aim of this study was conducted to essay energy use efficiency in the cornproduction systems in Mazandaran province of Iran in summer 2014. For this studydata was collected using questionnaires and face to face interview with 65 farmers.Results showed that the average application of N and P were 300 and 250 Kg/ha,respectively. Total inputs energy in corn production systems was 26917.47 MJ/ha.Energy efficiency (output-input ratio), energy productivity, net energy, waterproductivity and water-energy productivity together was 3.5 and 0.2 Kg/Mj,67582.53 Mj/ha, 1.2 Kg/m3 and 0.047 g, respectively. Total energy input reduces 6331.66 Mj/ha by optimization of energy consumption pattern. It was concludedthat extension activities are needed to improve the efficiency of .energyconsumption in corn production

کلمات کلیدی:

Optimization, Energy efficiency, Inputs, Corn, Productivity