

عنوان مقاله:

Applying Cobb–Douglas production function to model COY emissions of chickpea production under dry farming system in Paveh county, Iran

محل انتشار:

یازدهمین کنگره ملی سراسری فناوریهای نوین در حوزه توسعه پایدار ایران (سال: 1400)

تعداد صفحات اصل مقاله: 5

نویسنده:

Ashkan Nabavi-Pelesaraei - Department of Mechanical Engineering of Biosystems Razi University Kermanshah, Iran

خلاصه مقاله:

This study examines COY emissions of inputs in chickpea production under dry farming system, and to find relationship between COY emitter inputs and yield in Paveh county, Iran. For this purpose, IY& chickpea producers under dry farming system has been investigated for data collecting. Standard coefficients were used to calculate the COY emissions and Cobb-Douglas production function was applied to model COY emitter inputs and chickpea yield. Based on the results, total COY emissions during production process of chickpea under dry farming system was YFY.FY kg COY eq. per ha and diesel fuel with Y9% was the most significant COY emitter inputs among all. After that, pesticides with 11% has the second rank. Moreover, COY ratio was also about o.FA that showed per kg of chickpea yield about o.FA kg COY eq. was emitted. Econometric results revealed that diesel fuel with elasticity 1.WA in 1% and machinery with elasticity o.91 in &% were the most effective COY emitter inputs. In model analysis can be said RY about o.9F indicated the acceptable accuracy of model and also, Durbin-Watson test with 1.9F illustrated that there are ...not any autocorrelation between variables

کلمات کلیدی:

Chickpea, COY emission, Cobb-Douglas, Dry farming, Modeling

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1469881

