

عنوان مقاله:

Evaluation of Aqua Crop computer model in the potato under irrigation management of continuity plan of Jiroft region, Kerman, Iran

محل انتشار:

مجله بین المللی تحقیقات پیشرفته زیست شناختی و زیست پزشکی, دوره 1, شماره 12 (سال: 1392)

تعداد صفحات اصل مقاله: 10

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خلاصه مقاله:

The agricultural regions are running into difficulties, which are restrictive availability of water, successive appearing draughts, and overuse of ground water resources for supplemental water requirements. As a sample which is got from the farm is sent to the laboratory for testing and the laboratory works need devices. Hence, conducting farm experiments are expensive and time consuming to optimize the amount of water use, and desirable plant performance. Therefore, aqua crop computer model was used to determine water use efficiency, performance and evaluation of potato. This research project was completed in the form of random complete block design in the strip plot model with three times in the farm experiment which was located in VakilAbad of Jiroft in 2010. In this study, the effect of three irrigation level i.e. 100, 75 and 50 percent plant water requirement was assessed on the performance and water use efficiency of potato. The results of this study suggested that the amount of water requirement, behavior and water use efficiency simulated by Aqua crop computer model had well adaptation and correlation with field measures

کلمات کلیدی:

Aqua crop model, Under irrigation, Water use efficiency, Yield of potato

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