

عنوان مقاله:

Study of Water and Nitrogen Use Efficiency under Different Methods of Irrigation and Fertilizer Application

محل انتشار:

اولین کنفرانس بین المللی منابع آب با رویکرد منطقه ای (سال: 1388)

تعداد صفحات اصل مقاله: 6

نویسنده:

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خلاصه مقاله:

Field experiments were conducted on a sandy loam soil of Bastam Agricultural Farm to evaluate the yield response of onion crop with respect to water, fertilizer and nitrogen use efficiencies. Total four treatments namely: recommended dose of nitrogen under drip fertigation (T1), 80 % recommended dose of nitrogen under drip fertigation (T2), 60 % recommended dose of nitrogen under drop fertigation (T3) and recommended dose of nitrogen under Basin irrigation (T4), were considered in the study. Field layout was decided based on completely randomized design. Each treatment was replicated three time. The study revealed that the highest yield was obtained from the T3. Similarly, water use efficiency was highest in T3. Treatment T3 also gave the highest nitrogen use efficiency in this research. Results of study showed that drip fertigation treatments gave 32 % more yield compared to surface irrigated treatment and also T3 gave 42 percent more yield compared to T4 .It was observed that treatments T2 and T1 gave 34 and 18 percent .more yield respectively compared to the T4

کلمات کلیدی:

fertigation, onion, water use, water use efficiency, nitrogen use efficiency

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