

## عنوان مقاله:

Effects of different photoperiod on combined culture of wheat plants (*Eleocharis acicularis*) and Guppy (*Poecilia reticulata*)

## محل انتشار:

دومین کنفرانس ماهی شناسی ایران (سال: 1393)

تعداد صفحات اصل مقاله: 1

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## خلاصه مقاله:

This study was conducted to study the effect of various photoperiod on combined culture of an aquatic plant i.e. wheat *Eleocharis acicularis* with the fish, Guppy (*Poecilia reticulata*). For this purpose three treatments were applied, i.e. treatment 1 without direct light, treatment with 2 hours of light per day and treatment 3 with four hours of light per day (by direct solar luminescent light). In this experiment, 9 aquaria were used with their floor being covered by gravel and 10 stems of small wheat plants were planted on them. Also, in every aquarium 20 guppies were introduced. During the experiment, no filters, aerators and heaters were used as well as water was not replaced. Every 10 days, some freshwater was added to the aquaria. Based on results, treatment 3 showed better growth due to longer hours of photoperiod. Generally, the results revealed feasibility of combined culture of plant and Guppy in three treatments. This technique can provide a condition that can be mutually beneficial for both fish and plant species and is cost-effective.

## کلمات کلیدی:

Wheat, *Eleocharis acicularis*, Combined Culture, Light treatments

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1024156>

