

Category	: International Rice Research Conference
Select Theme	: Genetic improvement
Endorsement email	:
Keyword 1	: Abiotic stress tolerance
Keyword 2	: Pre-breeding
Keyword 3	:
Title of Entry	: An agronomic comparison among ten rice (<i>Oryza sativa</i> L.) cultivars under intermittent and continuous surface flooding in Valencia (Spain)
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Affiliation 1	: Instituto Valenciano de Investigaciones Agrarias
Affiliation 2	: Instituto Valenciano de Investigaciones Agrarias
Select only one type of presentation	: 3-5 minute flash talk
Abstract	: Due to the increasing frequency of drought in Spain in the last years, we have studied the agronomical performance of ten rice cultivated varieties under mild water stress. Rice plants were grown under flooding conditions applying short drying periods and their performance was compared with plants grown under continuous flooding. This study is a first step in a breeding program in an attempt to save irrigation water through the generation of new cultivars with high yield under intermittent irrigation conditions. Intermittent irrigation delayed significantly heading and maturity dates, reducing significantly the means of plant height, tillering and grain yield. The Egyptian cultivar Giza 180 (tolerant to salinity) was the most productive under both irrigation frequencies, but also showed the latest heading date. Under these conditions, three weeks intervals without irrigation were the most appropriate to estimate the impact of intermittent flooding.

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