Entry No. IRRC-0185

Category	: International Rice Research Conference
Select Theme	: Climate change and environmental sustainability
Endorsement email	:
Keyword 1	: Biodiversity
Keyword 2	: Ecosystem services
Keyword 3	: Environmental sustainability
Title of Entry	: ASSESSMENT OF THE AVIFAUNA ASSOCIATED TO DIFFERENT TYPES OF IRRIGATION SYSTEMS IN RICE CROP (Oryza sativa Linné) IN THE LOWER BASIN OF SALDAÑA RIVER (STATE OF TOLIMA, COLOMBIA)
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Select only one type of presentation	: 3-5 minute flash talk
Abstract	: For the next 30 years, agriculture will have to provide food to more than 9 billion people around the world. Nowadays agriculture covers approximately 38% of the global land area, of which 12% is farmland (ie 1.2 billion hectares). That is a great challenge for agriculture because rice crop is recognized as an artificial wetland that has been currently associated to negative impacts on natural habitats and their resident species of birds. Bird's species has been assessed in rice crop in the lower basin of Saldaña River at the State of Tolima (Colombia). Point counts have been set on transects around the agro-ecosystem in two different types of irrigation systems: irrigation by pool and conventional irrigation during the phenological stages of the crop. Two locations of each type of irrigation system had been assessed and they have 80 to 100 ha, approximately. Observations were made from 06:00 to 10:00 am and from 15:00 pm to18:30 hours pm since March 2018. 56 species of birds has been recorded; they belong to 23 families and 16 orders of taxonomy. 46 species have been found in irrigation system by pool and 21 species have been found in conventional irrigation system. 67% of all species recorded at the rice crop were found during harvesting stage, 55% during soil management, 37.5% vegetation stage, 30% during panicle stage, and 8.9% during flowery differentiation, into the conventional irrigation system. 53,57% of all species recorded at the rice crop were found during the vegetative stage, 48.2% were found during soil management stage, 42.85% during panicle stage, 41% during harvesting stage, 37.5% during sowing stage and 25% during the first stages of flowering.

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