

Category	: International Rice Research Conference
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Title of Entry	: COMBINING YIELD TRIAL AND PARTICIPATORY VARIETAL SELECTION TO SELECT SALINITY TOLERANCE RICE LINES PREFERRED BY FARMERS
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Select only one type of presentation	: 3-5 minute flash talk
Abstract	: The research was aimed to select and characterize the high yielding salinity tolerant rice elite lines preferred by local farmers. The research consisted of three activities, namely Advanced yield trial (AYT) followed by Participatory varietal selection (PVS) of salinity tolerance elite rice lines in saline prone area, Evaluation of agronomic trait of selected lines under normal condition and evaluation of grain quality for selected lines. The AYT and PVS were conducted in Karawang, West Java in wet season 2016. The material consisted of 24 lines included check varieties. The trial was arranged in randomized completed block design with three replications. While agronomic evaluation of selected lines under normal condition was conducted in ICRR research station Pusakanegara in dry season 2017, using 4 selected lines and one check variety Banyuasin. This research was arranged in Randomized completed block designed with four replications. Evaluation of grain quality was done in lab flavor of ICRR. Analysis of variance for grain yield resulted from AYT showed that Mekongga was the best check variety over other 4 checks (Inpari 34, Inpari 35, Sintanur serta Dendang). Three lines (BP14092-2b-2-1-TRT-17-2-SKI-1-B, IR86385-38-1-1-B-Ind-B, WTR1-JK-0-Ski-B) had grain yield significant higher than that of Mekongga. There were five lines (BP14092-2b-2-1-TRT-17-3-SKI-1-B, BP14092-2b-2-1-TRT-17-2-SKI-1-B, BP 14082-2b-2-5-TRT-36-5-SKI-1*B, WTR1-JK-0-Ski-B and IR86385-38-1-1-B-Ind-B) selected from PVS activity indicated they were preferred by farmers. The evaluation of agronomic performance showed three lines were significant higher than that of Banyuasin, except BP14092-2b-2-1-TRT-17-2-SKI-1-B with grain quality and cooking quality similar to Banyuasin, The advanced yield trial combined by PVS was able to identify some promising lines with good grain quality preferred by consumers for further evaluation.

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