[O14] Legume Production in Asia

Chair: Kuniyuki Saito (Okayama University, Japan)
Chair: Tianfu Han (Chinese Academy of Agricultural Sciences, China)
Fri. Sep 10, 2021 9:45 AM - 11:45 AM Room 1 (Oral) (Field Crop Production)

11:10 AM - 11:25 AM

[O14-06]Field Evaluation of Country Bean (*Lablab purpureus* L. Sweet) Germplasms Collected from Different Locations of Bangladesh to Pod Borer Resistance

*Nominated for Presentation Awards

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The infestation of pod borer to Country bean, *Lablab purpureus* L. Sweet is a major pest causing huge loss. Screening of different country bean germplasms will provide us resistant varieties with high yielding capacity. Here, fifty *L. purpureus* germplasms were subjected to field evaluation for morphological and yield related characteristics and analyzed by ANOVA to identify the differences and means were separated by DMRT using IBM SPSS software. In addition, the correlations studies of different variables with pod damage were also analyzed. A great deal of diversity among the collected germplasm on morphological and yield and pod borer related characteristics was observed. It is found that on an average 687.25 gram of green pods were yielded per plant with the range of 55.02 in BARI-5 Sheem to 1781.09 gram in BD-10806 was observed. The pod damage percent varied significantly. Average pod damage percent was 13.44 with the range of 4.75 in BD-1079 to 24.82 percent in BD-11089 which were statistically different. This suggested that BD-10799 is a resistant accession while BD-11089 is highly susceptible to pod borer attack. Less than 10% pod damage was recorded to thirteen germplasm namely, BD-10799, BD-10801, BD-10802, BD-10805, BD-10818, BD-11091, BD-11095, BD-11098, BD-11099, Goal Goda, Mostafa, Kaloputi, and Chanchal germplasm. While the total pod yield was considered, it was found that nine of them produced higher pod yield (at least 500g/plant) namely, BD-10801, BD-10802, BD-10805, BD-10818, BD-11098, BD-11099, Goal Goda, Mostafa, Kaloputi, germplasm. These identified germplasm should be considered for future variety development programs.