PERFORMANCE OF INTERCROSSES IN HYBRID MAIZE UNDER NORTH CENTRAL PLATEAU ZONE OF ODISHA

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Abstract: An experiment was conducted at Field Experimental Block, Regional Research and Technology Transfer Station, Keonjhar, during Kharif season for two consecutive years of 2017 and 2018 under RKVY project to study the performance of maize based intercropping system under North Central Plateau Zone of Odisha. The experiment was laid out in RBD design. The experiment comprised of thirteen treatments viz. T1- Maize + Cowpea (1:1), T2-Maize + Cowpea (2:2), T3-Maize + Radish (1:1), T4-Maize + Radish (2:2), T5-Maize + Cluster bean (1:1), T6-Maize + Cluster bean (2:2), T7-Maize + Arhar (1:1), T8-Maize + Arhar (2:2), T9-Maize (sole), T10-Cowpea (sole), T11-Radish (sole), T12- Cluster bean (sole), T13-Arhar (sole). The varieties taken were: Maize-Pioneer 3396(Hybrid), Cowpea-Kasi Kanchan, Cluster bean -Pusa Navbahar, Arhar- Corg 9701 and Radish- Pusa Chetki Long. Results revealed that Maize + cowpea (1:1) proved to be the most profitable system being at par with maize + cowpea (2:2) & maize + radish (1:1 & 2:2) systems in both the years. However, maize + arhar (1:1) returned the highest amount per rupee invested (1.78) among all the systems when number of days occupied in the field is not taken into account. Therefore for North Central Plateau Zone of Odisha cowpea and radish are the most suitable intercrops with maize in Kharif season in the above row ratios.

Keywords: Kharif, Intercropping, Maize, Cowpea, Profitable

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