



Studies on Intercropping of Maize (*Zea mays* L.) with Pea (*Pisum sativum* L.) Genotype

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Abstract: The field experiment was conducted at Khalsa College, Amritsar on sandy loam soil, low in organic carbon and available nitrogen and high in available phosphorous and potassium during the *rabi* season 2016-17. The yield was higher in sole maize (51.7 q ha^{-1}) but was at par with Maize+Pea_{75AP-3}, Maize+Pea_{50AP-3} and Maize+Pea_{50GS-10} but significantly higher than Maize+pea_{100AP-3}, Maize+pea_{100GS-10} and Maize+Pea_{75GS-10}. The pod yield was maximum in sole pea_{100GS-10} (65.4 q ha^{-1}) and minimum in maize+pea_{50AP-3} (33.8 q ha^{-1}). The highest maize equivalent yield (84.5 q ha^{-1}) and land equivalent ratio (1.71) was observed with maize+pea_{100AP-3} in intercropping system. Highest net returns of Rs.67169 ha^{-1} was in maize+pea_{50AP-3} intercropping.

Keywords: Intercropping, Maize equivalent yield, Land equivalent ratio, Net return
