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Bioeconomic Appraisal of Wheat and Black Gram under Peach, Apricot and Pear based Agroforestry System

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***Abstract*:** Land-use options for sustainable livelihood security were generally taken into consideration in this study. The experiment was laid out in randomized block design (factorial) with five treatments Recommended fertilizer, FYM, vermicompost, Jeevamrut and no manure that were applied) under four different systems (Peach, Apricot, Pear and open system after treatment), replicated thrice. The results in general indicated that maximum cost of cultivation (Rs 39475.74 ha^{-1}) incurred in practice, where wheat was grown under pear tree. Maximum net return (Rs 19108.06 ha^{-1}) was obtained in wheat when recommended dose of fertilizer was used in peach tree. The application of vermicompost resulted in higher cost of cultivation under peach based agroforestry system. Highest B:C ratio (5.08) was observed under peach tree in wheat.