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Production potential of gram based intercropping systems under rainfed conditions

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ABSTRACT : An experiment was conducted to find out suitable intercrop with chickpea under rainfed condition for maximizing the productivity of intercropping system at Agricultural Research Station, Borwat Farm, Banswara during *Rabi* 2008-09 and 2009-10. Significantly higher chickpea equivalent yield (2523 kg ha⁻¹), water use efficiency (420.42 kg ha/cm), net return (Rs.58698/- ha⁻¹) and B:C (3.46) were recorded under chickpea + mustard (4:2) rows cropping system over sole chickpea, sole barley, sole durum wheat, sole mustard, chickpea + barley (3:1) rows, chickpea + barley (3:2) rows, chickpea + durum wheat (3:1) rows and chickpea + durum wheat (3:1) rows, respectively. However, it was found at par with chickpea + mustard (4:1) rows cropping system chickpea equivalent yield (2430 kg ha⁻¹), water use efficiency (405.0 kg ha/cm), net return (Rs.55675/- ha⁻¹) and B:C (3.23) in the pooled analysis.

KEY WORDS : Durum wheat, Barley, Intercropping system, Chickpea equivalent yield

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