



## Weed Composition and Nutrient Uptake by Weeds in Sole and Intercrops during *Rabi* Season

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**Abstract:** The field experiment was conducted to study weed composition and status of nutrient removal by weeds in sole and intercrops. Weed flora studies were recorded in four sole crops- wheat, mustard, potato, radish and four intercrops- wheat + mustard, wheat + linseed, gram + mustard, pea + mustard along with fallow land as control. In total, 18 weed species were recorded with dominance of Poaceae family. The total dry weight of weeds was maximum in fallow land ( $2516.6 \text{ kg ha}^{-1}$ ) among all systems, whereas in sole crops, maximum dry weight was recorded in wheat ( $1973.3 \text{ kg ha}^{-1}$ ) and in intercrops was in wheat + mustard ( $1659.1 \text{ kg ha}^{-1}$ ). The nutrient uptake (N, P and K) by weeds was higher in sole crops as compared to intercrops. The highest total nutrient (N, P and K) uptake by weeds was in the fallow land, which was 4644.7, 558 and 2880.5  $\text{kg ha}^{-1}$ , respectively in March.

**Keywords:** Sole crops, Intercrops, Dry weight, Nutrient uptake

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