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## Comparison of Flooding Irrigation System and Raised Bed Irrigation System for Wheat Crop at Samoo District Jaffarabad Balochistan

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Wheat is an important cereal crop of Pakistan. However, its production is less by limited farm resources, unavailability of fertilizers at proper time, costly inputs, waterlogging, salinity, the shortage of irrigation water and its inefficiently usage. Mismanagement of irrigation water through traditional irrigation method has further constrained the cropping intensities and crop yields. Thus, without judicious use of irrigation water and other farm resources, the yield potential of wheat crop cannot be obtained. To improve water use efficiency (WUE) on the basis of increasing crop yields there must be a proper irrigation scheduling strategy. Different techniques of irrigation for water saving are used worldwide in agriculture sector now a days to minimize the water losses. In Jaffarabad district different types of irrigation systems are being adopted but mostly farmers are using flooding irrigation system for wheat crop which can lead to waterlogging and salinity in the area. Therefore this research work was conducted to compare flooding irrigation system and raised bed irrigation system for wheat crop in terms of water use efficiency and crop yield in district Jaffarabad, because water is the most important factor and critical input for successful crop production. Water should be utilized for optimum and economic yield. Modern high yielding crop practice methods can be sustained only with good water control and management at the farm level. In flooding irrigation system over-irrigation occurs which leads to a rapid degradation of soils. This is when much more water is needed for the raising of a crop, than the crop actually needs. Aim of this research work is to determine water saving and optimum crop yield by comparison of flooding irrigation system and raised bed irrigation system in district Jaffarabad.

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