

## **Feasibility of cement nala bund in reference to precipitation deficit and crop yield**

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**ABSTRACT :** Average precipitation deficit for Wan river basin was estimated as 81.02 ha-cm. Total water that could be harnessed with six CNBs along Wan river reach is estimated as 1,09,262 m<sup>3</sup>. The increase in yield of cotton and pigeon pea crop in basin area due to protective irrigation was estimated as 50 q and 468.2 q respectively. In general, constructions of CNBs were assessed as economically viable in terms of increased yield.

**Key Words:** CropWat, precipitation deficit, pigeonpea, cotton, Wan river basin, cement nala bund.