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Detailed analysis of rainfall, rainfall-runoff relationship, water balance and ground water recharge pertaining to a watershed at Chinnatekur in Kurnool District (Andhra Pradesh)

has been presented. Runoff and soil loss from treated watershed with conservation measures, such as contour trenches got reduced by more than 100% when compared with untreated watershed. Soil and water conservation measures improved ground water recharge, resulting in a 36% increase in crop area which could be irrigated by wells, which increased crop yields by 69%.