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The paper discusses conservation bench terrace (CBT) system and attempts to evaluate its potential to increase water supply for increasing and stabilizing rice production on 2.5% sloping land in the sub-humid climate. Six years data showed that levelled benches received 0.25, 0.50 and 0.76 m³/m² of estimated runoff from the 1:1, 2:1 and 3:1 ratios, respectively. The measured soil water in the level benches was greater than the storage in level benches without a contributing area at the time of panicle emergence. The rice yields in the level benches with contributing areas were 21, 47 and 88%.