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Cropping patterns with *bajra*, *mung*, *kodra*, *tur*, *sundhia jowar* and *bidi-tobacco* and the soil cover treatments (*Dichanthium annulatum* and natural fallow) were studied for runoff and soil loss on 2% slope at Vasad (Gujarat). While the cover treatments yielded minimum runoff and soil loss, the cropping pattern gave soil loss values less than 7.5 m.tonnes/ha per year with the exception of *bidi-tobacco*, which gave higher values in some years. Soil loss under *bidi-tobacco* could be reduced by cover-cum-green manuring with sunhemp which also increased the yield of tobacco by 16.7%.