



Control of deep-reaching gully erosion in the torrent "Schwemmgraben", Tyrol, by a combination of technical and bioengineering measures

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The tributary "Schwemmgraben" is one of the two main branches of the torrent "Fendler Mure", which endangers the village of Ried in the upper Inn valley, Tyrol. By severe gully erosion in moraine deposits frequent debris flows were triggered, causing damages in the settled and developed area on the debris cone. The gully was consolidated as first step by a chain of concrete check dams, the oversteep erosion slopes were scarped, degraded and revegetated as second step by HUTER's method using biennial cover plants in combination with perennial grasses and herbs. Some years later an afforestation with larch completed as third step the successful consolidation works.