Across the gulley or streams

works of P Truong in Australia
This concrete causeway on this farm road was often washed away by flood water which undermined the foundation of the concrete surface.
Two rows of well established and mature vetiver planted upstream from the causeway.
A 3m deep flood swept through this causeway, completely submerged the vetiver rows
Although badly battered, the vetiver hedges held firm during the flood, preventing the undermining of the concrete causeway
Partially submerged under fresh water for at least 6 months on a farm waterway
FLOOD EROSION CONTROL ON A LARGE URBAN DRAIN IN QUEENSLAND
VETIVER WAS PLANTED ON THIS LARGE URBAN DRAIN TO CONTROL FLOOD EROSION
A large flood hits the town 3 months after planting.

Middle section, note that vetiver hedges bent under strong current.
Very fast flow flattened and inundated most of the hedges. The velocity was estimated up to 5m/sec in some areas.
Submerged Vetiver hedges
Six days after the flood, upper section
Although only 3 month old, the young hedges provide a very effective protection with only minimal erosion at the head of the channel.
The hedge fully recovered seven weeks after flooding