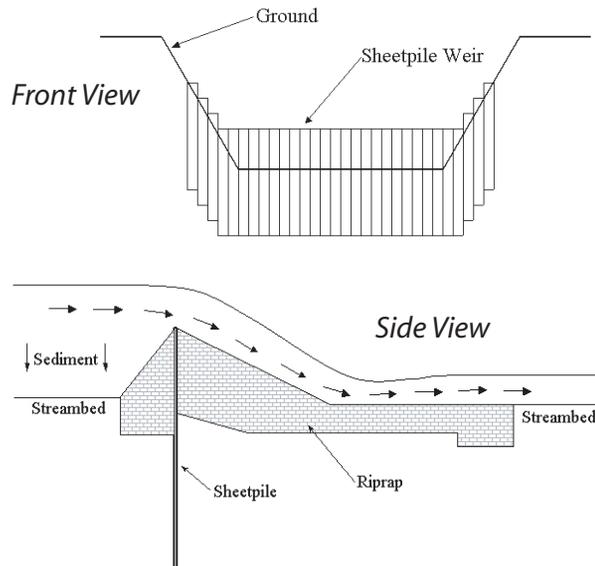




Structures

Hungry Canyons structures have a raised weir section to decrease the stream grade by changing the profile of the stream from an erosive steep incline to a stable stair-step pattern. Each structure allows the stream elevation to drop in a controlled setting preventing further degradation. A calm backwater condition is created and the fine loess soils are allowed to settle out, protecting bridge pilings and stream banks upstream. The structures used most are sheet pile, h-pile, rock sills, and concrete block weirs.

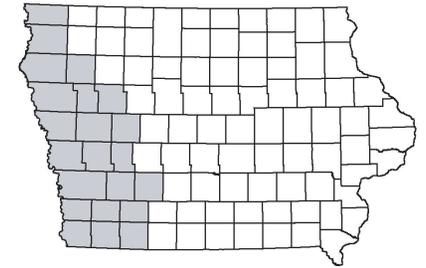


Stream Classification

In March 2002, the Hungry Canyons Alliance funded a flight of watersheds in the 22-county region. Information was recorded with a video camera and global positioning system (GPS) receiver. This will allow us to know which bridges are the most susceptible and where structures are needed. Comparison of 2002 videotape to similar flights videotaped in 1993, 1994, and 2000 will allow us to study the progression of erosion and the resultant channel evolution of streams throughout western Iowa.

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THE Hungry Canyons Alliance



Serving the 22-county region
in western Iowa
that has deep loess soils.

