

HR-236 Evaluation of Control Structures for Stabilizing Degrading Stream Channels

Key Words: Stream degradation, Loess soil, Stream stabilization

ABSTRACT

Stream degradation due to steep stream gradients and large deposits of loess soil is a serious problem in western Iowa. One solution to this problem is to construct grade stabilization structures at critical points along the length of the stream. Iowa Highway Research Board project HR-236, Pottawattamie County "Evaluation of Control Structures for Stabilizing Degrading Stream Channels", was initiated in order to study the effectiveness of such structures in preventing stream degradation.

This report describes the construction and four-year performance of a gabion drop structure constructed along Keg Creek during the winter of 1982-83.