

Grade Stabilization Structure

PRACTICE INTRODUCTION

USDA, Natural Resources Conservation Service - practice code 410



DEFINITION

A grade stabilization structure is used to control the grade and head cutting in natural or artificial channels.

PRACTICE INFORMATION

Grade stabilization structures are installed to stabilize the channel grade and control erosion to prevent the formation or advance of gullies and headcuts. The practice is used in areas where structures are necessary to stabilize the site. Grade stabilization structures are not designed to regulate flow or water levels in a channel area.

Special attention is given to enhancing fish and wildlife habitat where enhancement is

practical. The practice is also helpful in reducing pollution from sedimentation.

Grade stabilization structures are located so that the elevation of the inlet of the spillway is set at an elevation that will control upstream headcutting.

A wide range of alternative types of structures are available for this practice and an intensive site investigation is required to plan and design an appropriate grade stabilization structure for a specific site.

Additional information including design criteria and specifications are in the local NRCS Field Office Technical Guide.