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Engineer Manual
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Engineering and Design
ENVIRONMENTAL ENGINEERING AND LOCAL FLOOD
CONTROL CHANNELS

1. Purpose. This manual provides guidance for incorporating environmental considerations in the planning, engineering, design, and construction of flood control channels, levees, and associated structures.
2. Applicability. This manual applies to all HQUSACE/OCE and field operating activities (FOA) having responsibility for the engineering and design of civil works projects.
3. Discussion. This manual pertains to projects that involve modifications of natural stream channels to reduce damages due to flooding, bed scour, or bank erosion. The emphasis of this manual is on channels not open to commercial navigation. Channel modifications for flood and erosion control include clearing and snagging; channel straightening; channel enlargement; streambank protection; channel lining; and construction of grade control structures, culverts, levees, and floodwalls. This manual covers some of the principal environmental factors that should be considered in projects that involve stream channel modification, as well as opportunities for incorporating environmental features for attaining environmental quality objectives.

FOR THE COMMANDER:



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