



HABITAT ASSESSMENT WORKSHOP

April 21, 22, 25, 2011

May 2, 2011



FEMA



ESA Programatics

- Regional Road Maintenance, WSDOT + certain cities and counties. Renewed every 5 years.
- FEMA Stafford Act - 13 Emergency Activities associated with disaster declarations
- Corps of Engineers – 10 permitted Activities (eg, pile replacement, mooring buoys, minor bank stabilization (10 cy/10 linear feet), nearshore fill (25 cy))
- Corps of Engineers Regional General Permit 1 – boat lifts on Lake Washington



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EMERGENCY ACTIONS

EMERGENCY ACTIONS are taken to save life and property during an event

- Action by the local jurisdiction
- Consultation will occur at a later time
- Generally under the Stafford Act

EMERGENCY ACTIONS

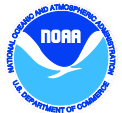
Typical Emergency Actions

- Levee repairs
- Bank stabilization
- Sandbagging

Sandbagging



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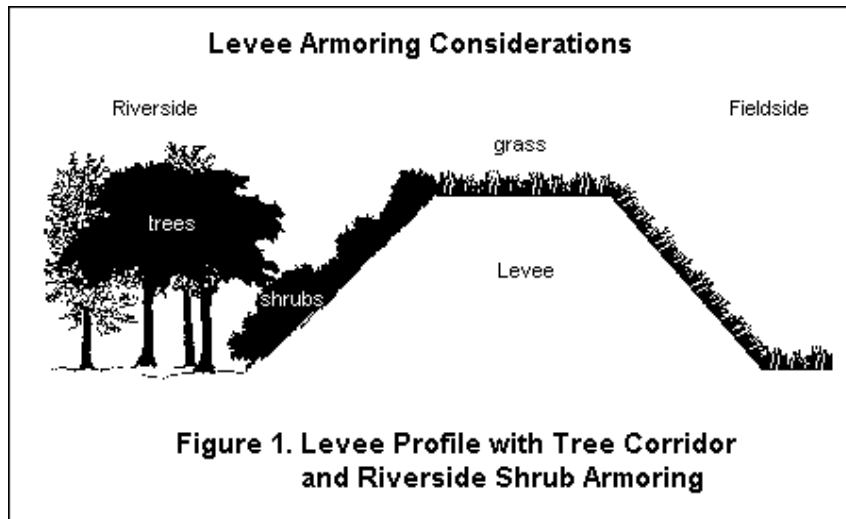


Levee Repairs



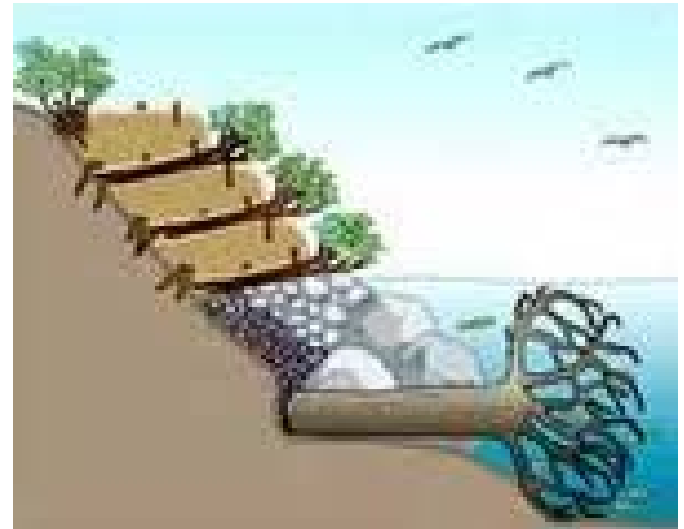
- Typically COE
- Direct Effects –death or harassment
- Isolate floodplain
- Increase velocity and scour
- Contamination
- Turbidity

Minimize effects



- Timing windows
- Turbidity curtains and monitoring
- Planting benches
- LWD at toe
- Mitigation packages
- Setback levees

Bank Stabilization



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Bank Stabilization



Bank Stabilization



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