Assessing Impacts to Floodplains

Identify Source of Potential Impacts

Encroachment

Fill

Pilings/ Bridge Abutments

Infrastructure

Determine Study Area

Generally Direct impact

Determine Existing Conditions

Maps of Designated Floodplains (FEMA)

State Agencies

U.S. Army Corps of Engineers

USGS

Local flood insurance studies

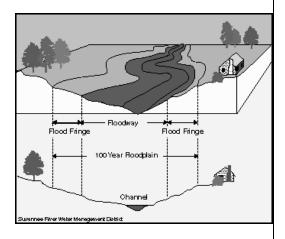
Identify Standard

Federal Standards

State/Local Standards

Floodplain Basics

- Executive Order 11988
 - Requires measures to minimize, restore and preserve
 - Lives/property
 - Natural /beneficial values
- Definitions
 - Regulated Floodway encroachment limits
 - 100-year flood 1% chance of being exceed in any given year



Floodplains (cont.)

Impact Prediction

Direct filling (encroachment) of floodplain Calculations of changes is flood levels, runoff quanity, velocity,

Assess Significance of Impacts

1 foot rise in flood elevation in flood frings at any location along stream for 100-yr flood

Risk to life and property (flood levels, flood-related erosion, mudslides

State/Local Policies

Mitigation

No floodplain encroachment is permitted unless no practicable alternative

Avoidance

Minimization

Compensate for conveyance and storage capacity