

Assessment and Design Overview

Independent Variables

(Assessment)

- Valley Slope
- Flow
- Stream Power ($\Omega = \gamma QS$)
- Physical Site Constraints
- Confinement
- Existing Floodplain Dimensions
- Floodplain Connectivity
 - Entrenchment
 - Incision
- Channel Evolution
- Sediment and Large Wood

Increasing complexity and variables that may drop out of basic assessment during quick emergency repairs.

Dependent Variables

(Design)

- Floodplain Width and Elevation
- Floodplain Length and Slope
- Channel Pattern, Sinuosity, and Dynamics
- Excavation or Fill Volume
- Fill Disposal Areas
- Stabilization Measures
- Vegetative cover
- Floodplain features (oxbows, wetlands, etc.)