



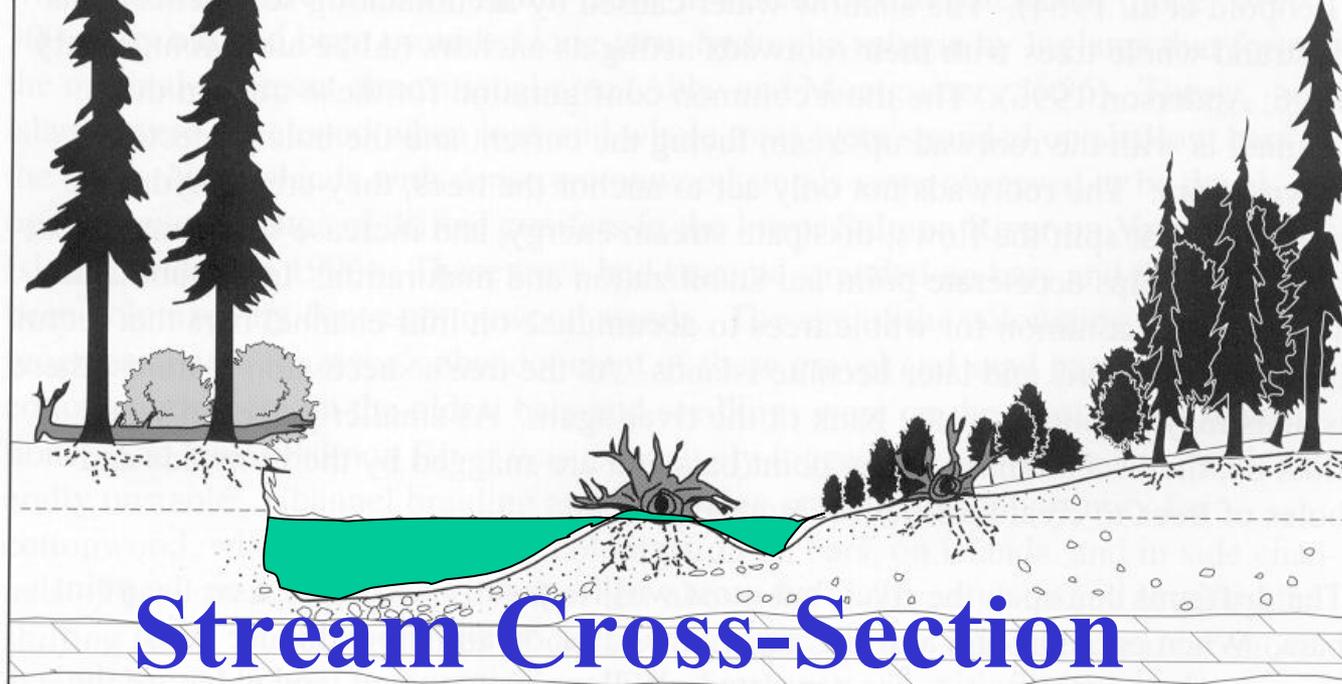
# The Function of Wood in Stream



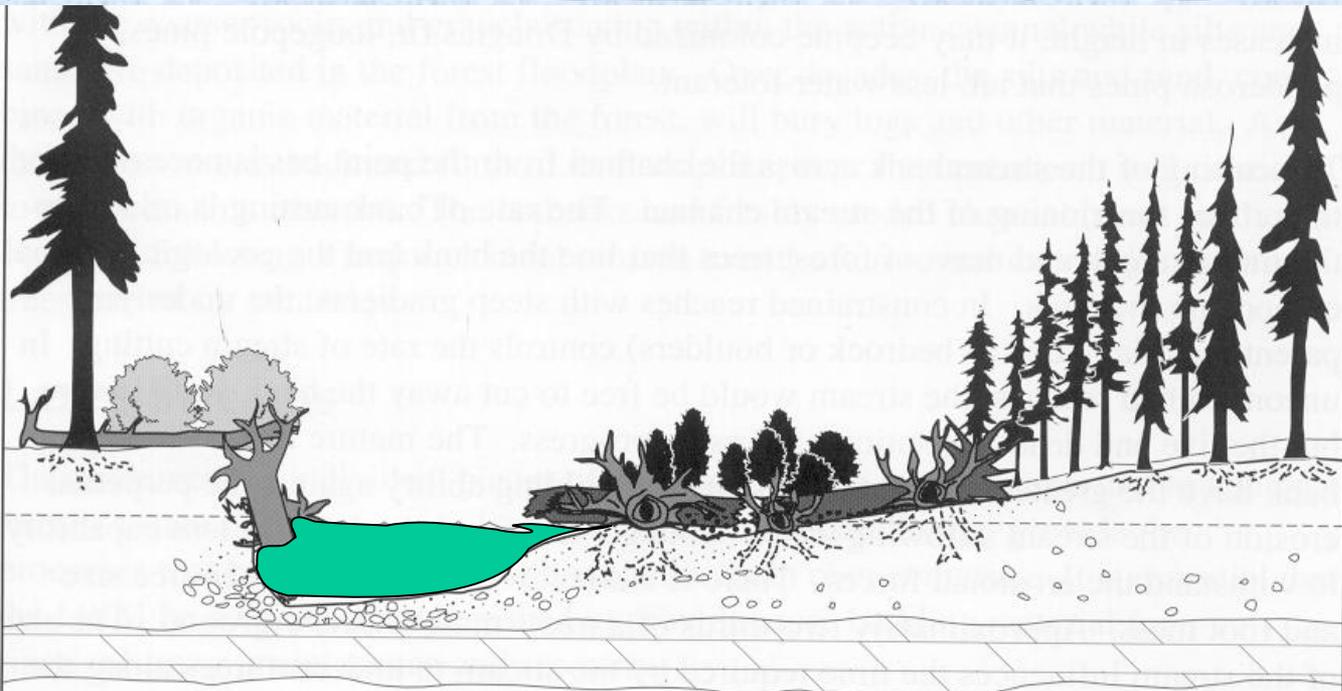
**Before**

**After**

**Large Wood Stores Sediment  
and build Floodplains**



**Before**



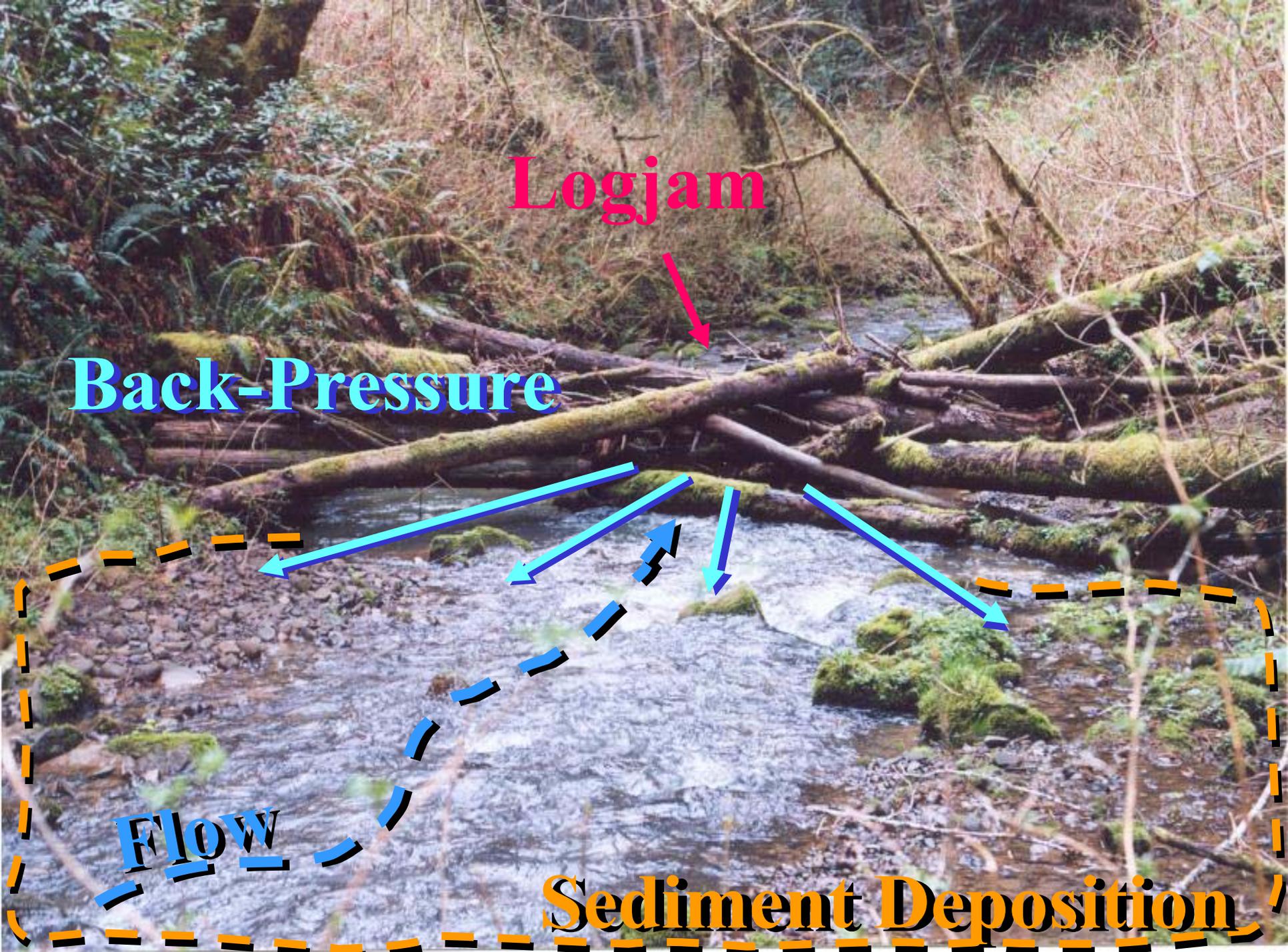
**After**

# Large Wood in the Flood Plain

**Potential  
Erosion**

**Live & Dead Wood =  
Energy Dissipation**





**Logjam**



**Back-Pressure**



**Flow**

**Sediment Deposition**

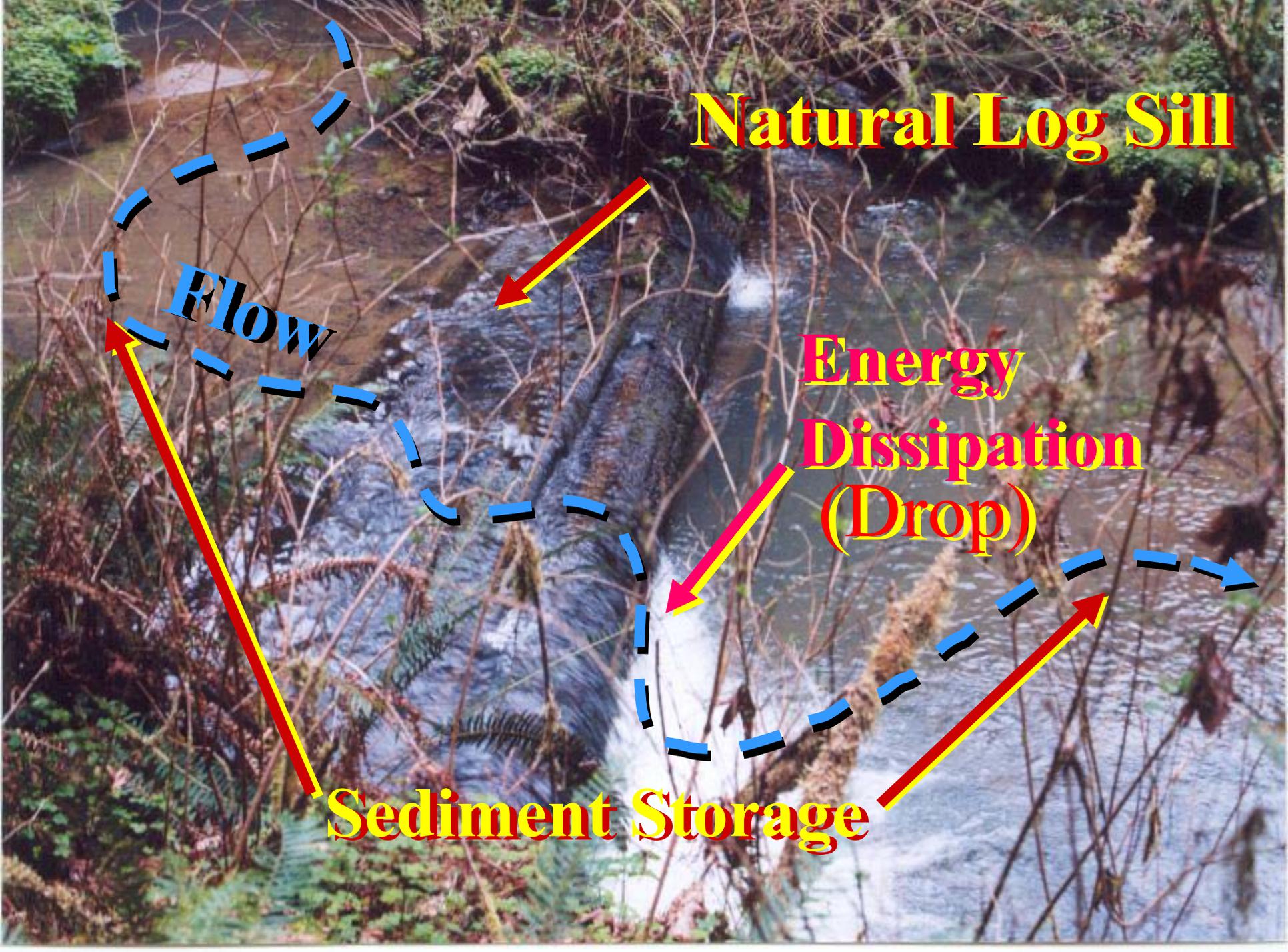
# Energy Dissipation

*Mean Width*

*1.5X Mean Width*

*(Spreading)*





**Natural Log Sill**

**Flow**

**Energy  
Dissipation  
(Drop)**

**Sediment Storage**

# Roughness Elements

Point Bar

Jam

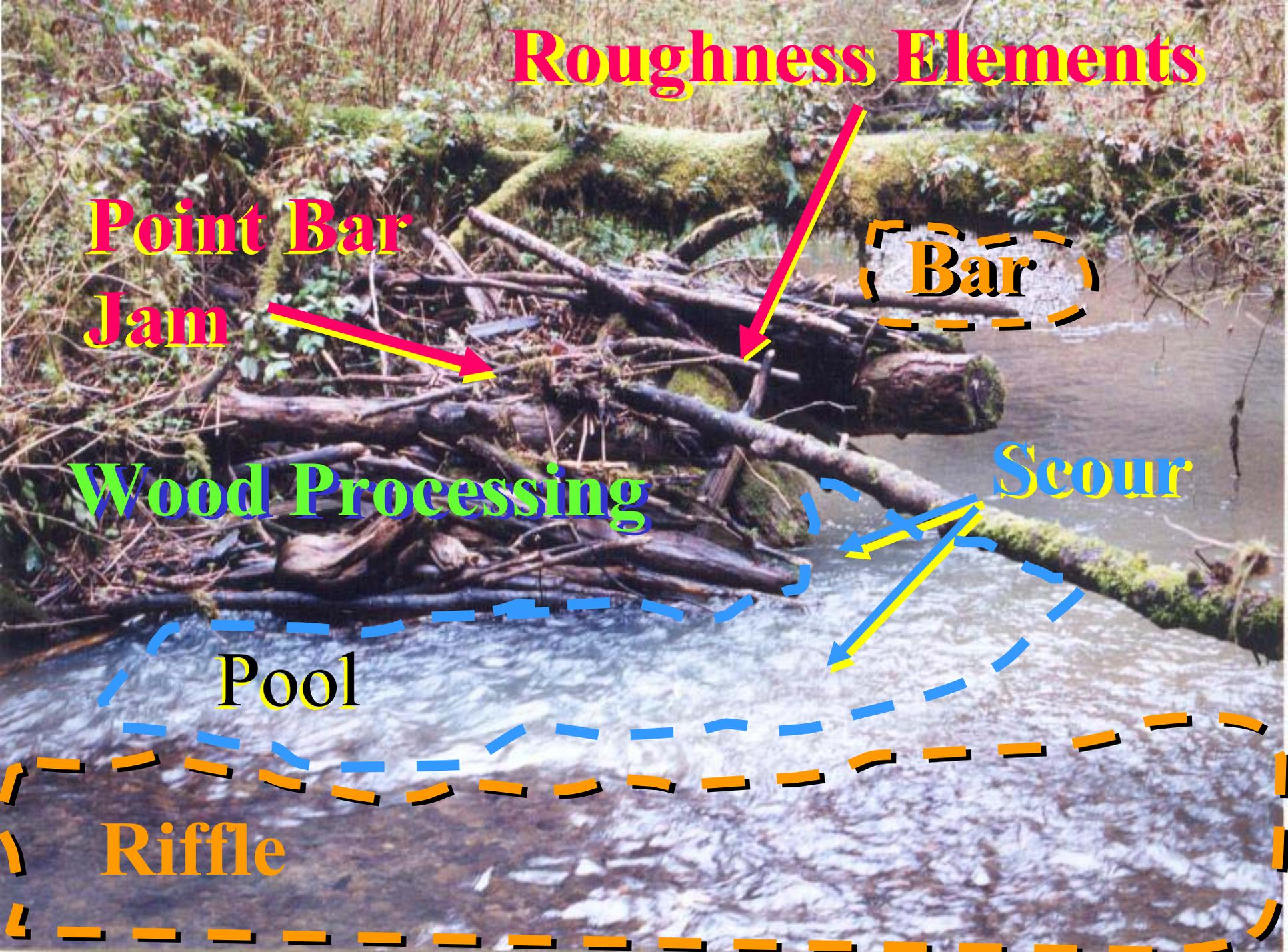
Bar

Wood Processing

Scour

Pool

Riffle



**Point Bar Building**

**LWM**



**Scour**

**Energy Dissipation!**

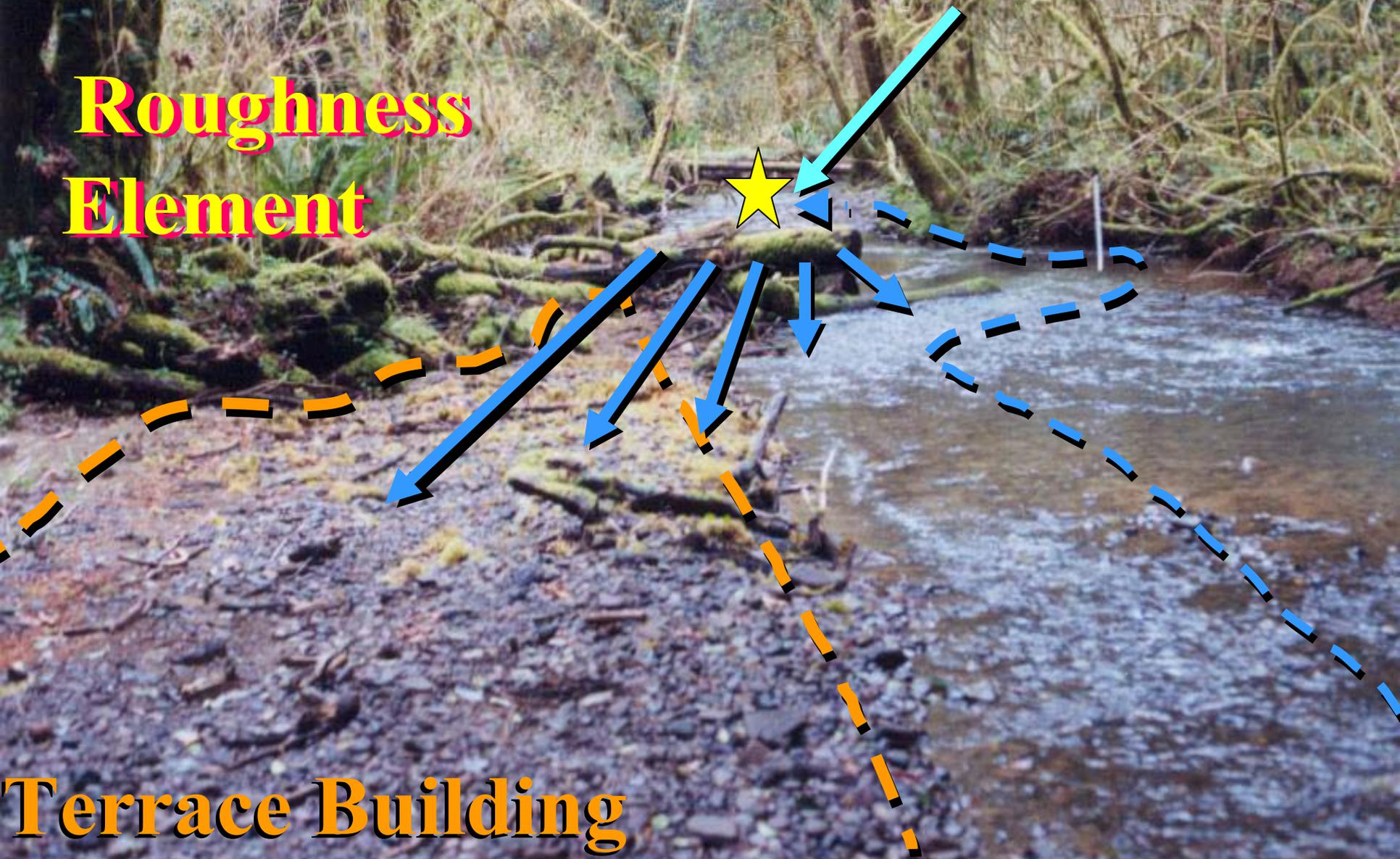


**Roughness Elements**

**Terrace Building**

**Back-Pressure**

**Roughness  
Element**



**Terrace Building**

# Riparian Vegetation

Bank stabilization



LWD in Transition  
Roughness Elements

Energy Dissipation

A photograph of a stream in a forest. The water is clear and flows over moss-covered logs. The surrounding forest is lush with green foliage and moss-covered trees. The image is overlaid with several text labels and dashed lines. The word 'Complexity' is at the top in pink. 'Cover' is in the middle left in pink. 'Food' is in the middle right in pink. 'Biological Diversity' is at the bottom in blue. Dashed lines in orange, blue, and black connect these labels to various parts of the stream and forest.

**Complexity**

**Food**

**Cover**

**Biological Diversity**



**Channel Narrowing**

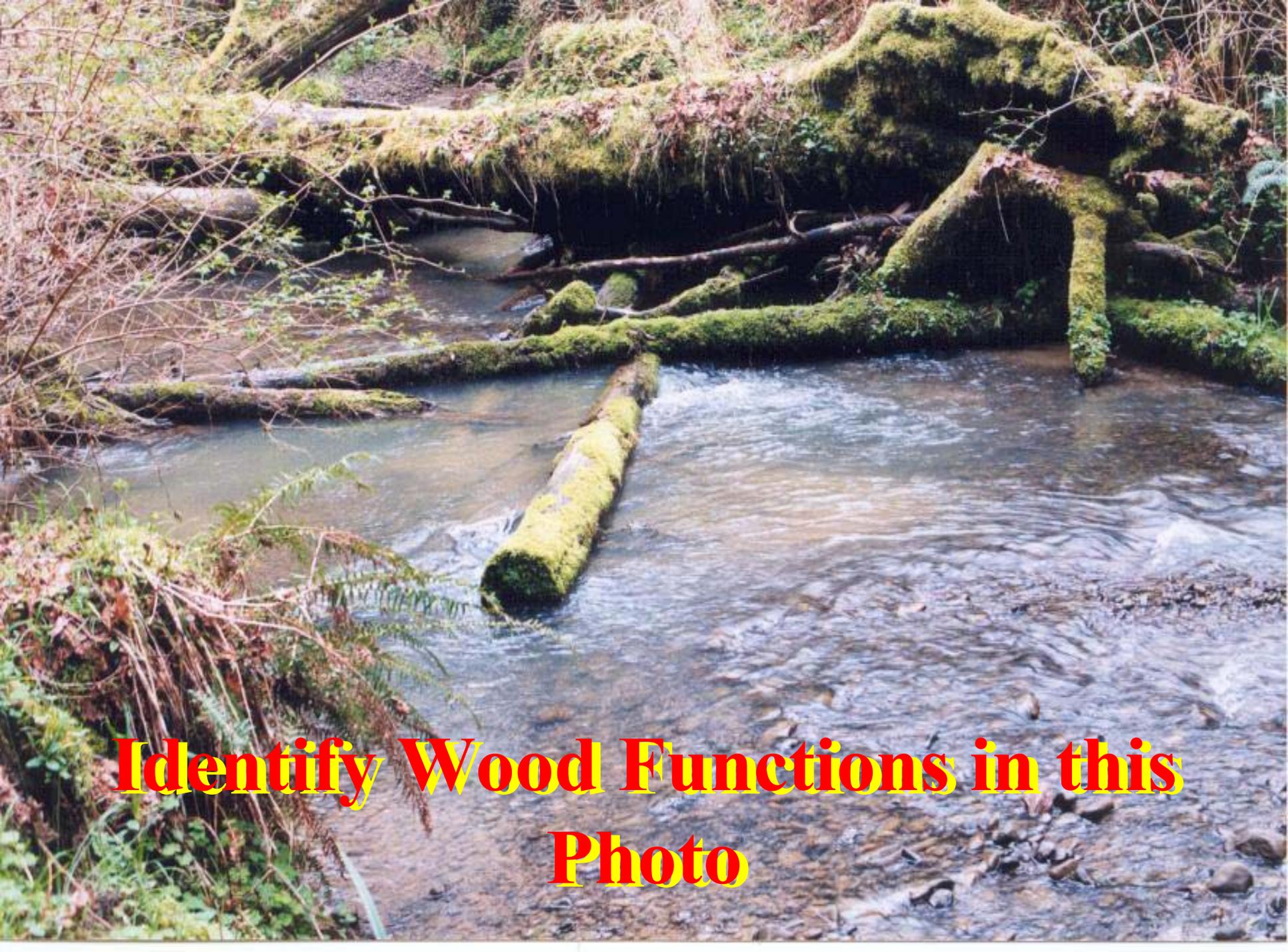
**Wood Processing**

**Channel Narrowing**

**Bank Building**

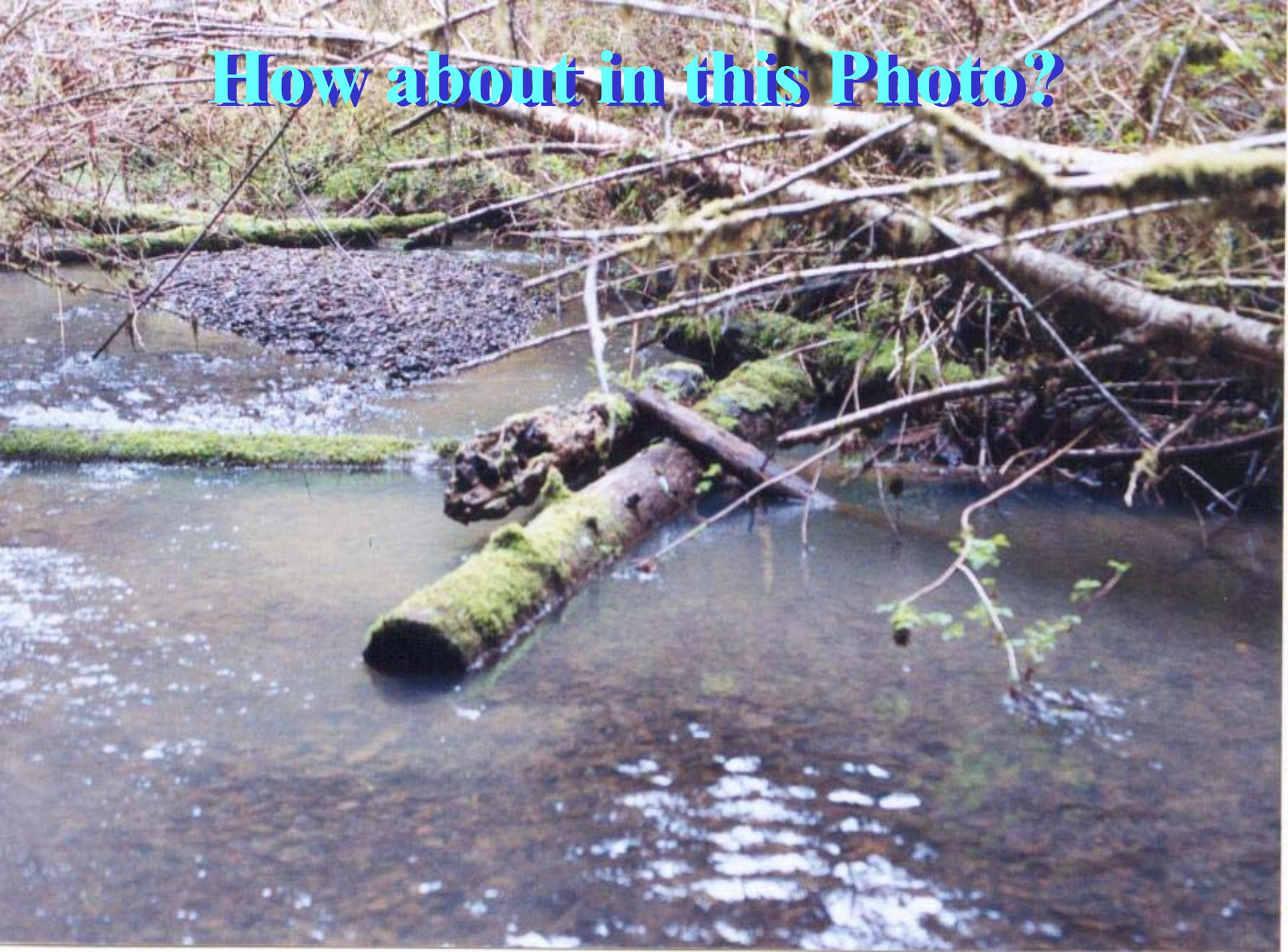
**Energy Dissipation**





**Identify Wood Functions in this Photo**

**How about in this Photo?**





**March 19, 2000**

**Logjam Constructed 1986**

**John Anderson & Mike Wisdom  
USBLM**