

**Landslide Hazards and Planning**  
**Examples from the USDA Forest Service,**  
**a Federal Land and Resource Management Agency**

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**Outline**

- I. Planning Applied to National Forest System (NFS) lands
  - A. General description of NFS lands
  - B. Principal Planning Direction
    - 1. National Environmental Policy Act (1969)
    - 2. Forest and Rangeland Renewable Resources Planning Act (1974)
    - 3. Federal Land Policy and Management Act (1976)
    - 4. National Forest Management Act (1976)
  - C. Planning Levels
    - 1. Forest Plans
    - 2. Project Plans
  
- II. Landslide Hazards on NFS Lands
  - A. Geographic and Physical Setting of NFS lands
    - 1. Primarily mountainous western U.S.
    - 2. Terrain character related to landslide hazard
    - 3. Relation to major trans-mountain corridors
  - B. Relation of land and resource activities to potential hazards
    - 1. Vegetation management (incl. Wildfire damage)
    - 2. Road building and maintenance
    - 3. Recreational facilities
    - 4. Permitted activities – pipelines, hydroelectric facilities, ski resorts, mining
    - 5. Transportation corridors
  
- III. Assessing Landslide Hazards
  - A. Common approaches to landslide hazards assessment on NFS lands
  - B. Integration into the Forest Plans and Project Plans
  - C. Options for reducing or avoiding landslide hazard at the project level
  
- IV. Future Direction
  - A. GIS and Ecological Unit Mapping tools
  - B. Watershed Framework