

U. S. Department of the Interior
Bureau of Land Management

U.S. Department of Transportation
Federal Highway
Administration

Trail Management: Plans, Projects, and People

Training Center Course 8300-17

A National Interagency Trails Training Course

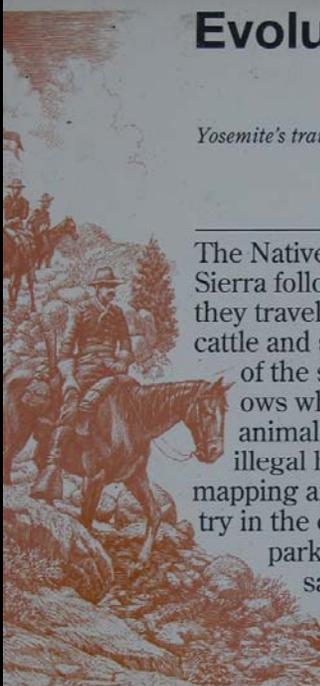
Financial Support and Trainers from
BLM, USFS, NPS, CSP, USFWS, FHWA

U.S. Department of Transportation
Federal Highway
Administration

Why Trails Training?

Evolution of Trails

Yosemite's trails are a legacy of many generations.



The Native American residents of the Sierra followed deer and bear trails as they traveled these mountains. Later, cattle and sheep herders used many of the same trails to reach meadows where they grazed their animals. The cavalry often chased illegal herders while patrolling, mapping and exploring the backcountry in the earliest days of the national park. Visitors today use these same routes.

Trail Management: Plans, Projects, and People

Program Goals:

- **Provide Training for Agency Trail Staff, Contractors and Volunteers**
- **Learn a Best Management Practice**

Trail Management Process (TMP)



Trail Management: Plans, Projects, and People

Program Goals:

- Learn a Interdisciplinary Process

Planning, Design, Layout, Construction,
Maintenance, Monitoring, Interpretation,
Crew Leadership, Operations and Safety



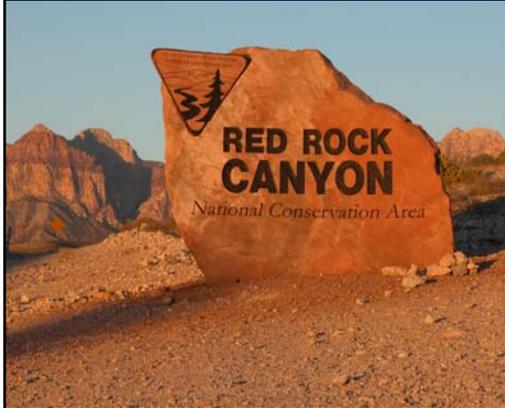
Trail Management: Plans, Projects, and People

Expectations of Students:

- A Participatory Process
- Learn From Each Other
- Share Sustainable Corrective Actions



Overview of Week Activities



Overview of Week Activities Monday

Class Room Lectures

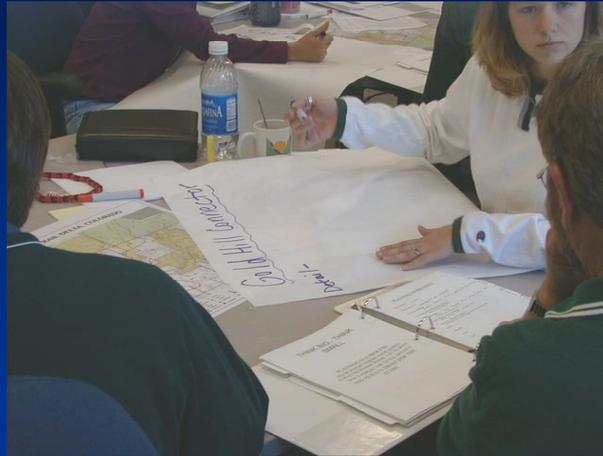
- Trail Management Process
- Effects of Laws
- Accessibility
- Who Are Our Visitors



Overview of Week Activities Tuesday

Class Room Lectures

- Tools
- Planning
- Compliance



Who is Directly Involved with Building/Constructing Trails?



Who Manages Trails for Their Land Management Agency?



How Many Have Success Stories?



How Many Have Disasters or Problems on Their Trails?



Trail Management: Plans, Projects, and People

*As Trail Managers,
What Should Our Trails Be?:*

- Accessible to the Broadest Range of Users
- Sustainable
- Provide Access to Multiple Environments, Geographic Areas and User Types
- Minimize and Mitigate Impacts to Resources
- Provide Different User Type Experiences

Trail Management Process



Trail Management Process -TMP

Trail Projects
can be
Broken Down
into
5 Basic Elements



Trail Management Process

-Laws and Legal

Learn Legal
Aspects of Trail
Projects

What Gives Me
Authority For My
Trail Project?



Trail Management Process

-Laws and Legal

Threatened and Endangered Species

Archaeology

Is My Trail Project
Compliant?

Accessibility

Water Quality

NEPA



Trail Management Process

-Planning

Understand Front End Work
Facilitates Completed Trail Projects



Public Meetings

Trail Management Process

-Planning

Thorough Planning Addresses many Questions and Concerns

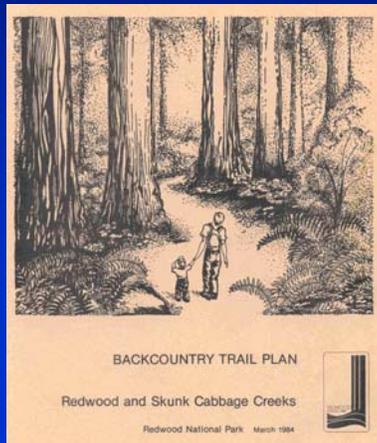


Trail Surveys

Trail Management Process

-Planning

Gets Key Players Communicating

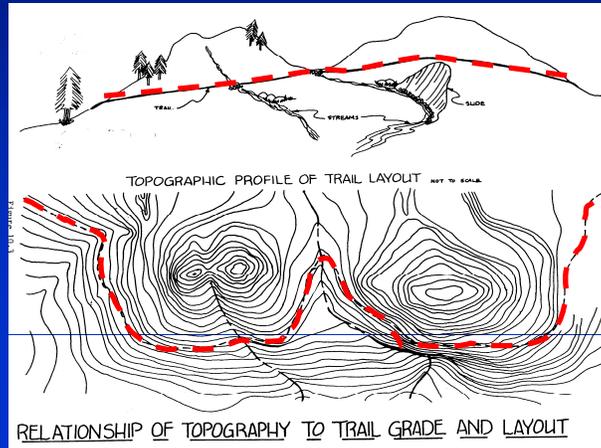


Trail Plans

Trail Management Process

-Trail Design and Layout

Proper Design and Layout is Critical



Trail Management Process

-Trail Design and Layout

Is Essential for Sustainable and Low Maintenance Trails

New Trail
4 Years Later
Construction

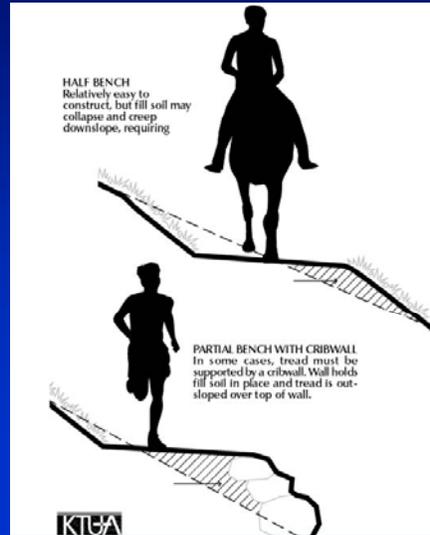


Trail Management Process

-Trail Design and Layout

Design and Layout Criteria Must

- Meet Users Expectations
- Mitigate Typical User Impacts



Trail Management Process

-Trail Maintenance and Construction

All Trails Need to be Constructed and Maintained



Trail Management Process

-Trail Maintenance and Construction

Proper
Construction
and Timely
Maintenance
will Reduce
Costs



Trail Management Process

-Trail Maintenance and Construction

Proper
Maintenance
Protects
Resources
and
Enhances
Visitor
Experiences



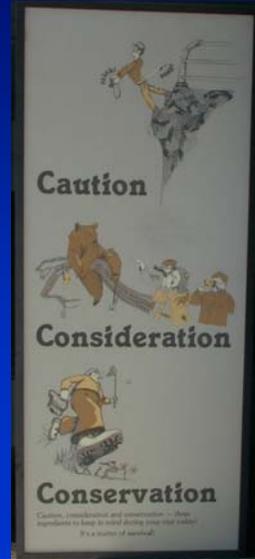
Trail Management Process

-Signage and Interpretation

Enhances Visitor Experiences

Protects Resources

Develops Constituency



Trail Management Process

-Project Scheduling

Planning Time, Costs, and Seasons of Work

Cuyamaca Rancho State Park - Azalea GI	Feb-06							Mar-06							April-06						
	T	W	T	F	S	M	T	T	W	T	F	S	M	T	T	W	T	F	S	M	T
Activity Name																					
Mobilization-Prep Tools	■																				
Project Pre-start Meeting-Field Check																					
Layout																					
Brush/Clear Trees from Trail Alignment																					
Sweco Construction																					
Handwork																					
Handwork on Stonewall																					
Bridges Construction																					
Installation of Rip Rap Drainage Crossings																					
Rehab of old Trail/Begin Aggregate Surfacing																					
Trail Finishing/Aggregate Placement/Fence Building																					
Final Project Inspection																					
Demob Camp																					
Project Clean Up																					

Trail Management Process

-Crew Management

How Do You Deal with Your Labor Force?



Trail Management Process

-Monitoring

Is the Project Working?

What Changes Need to be Considered or Implemented?

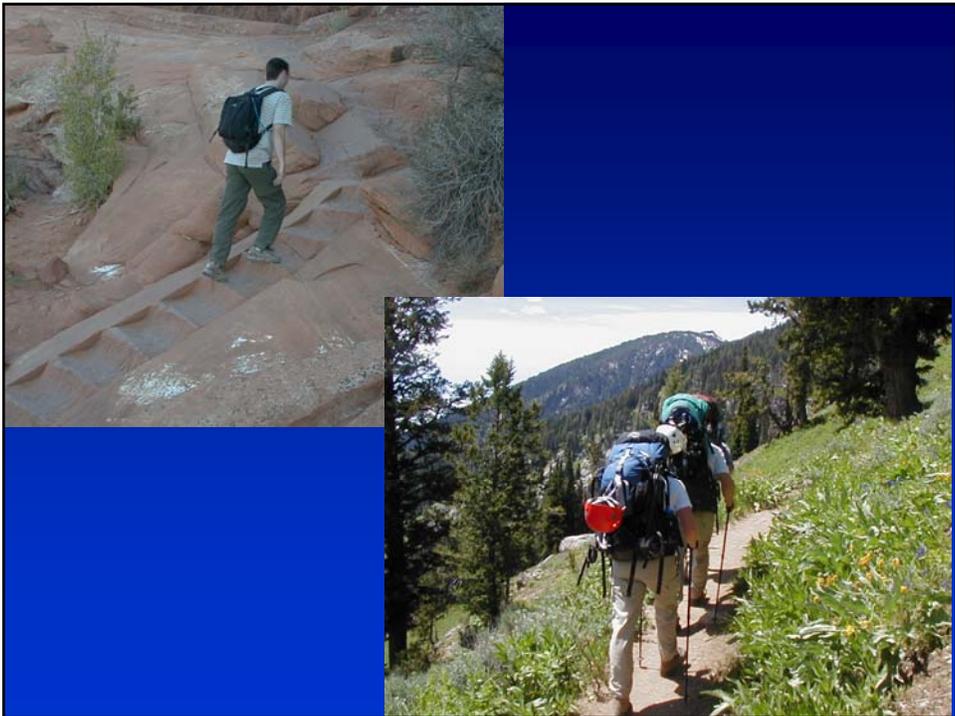
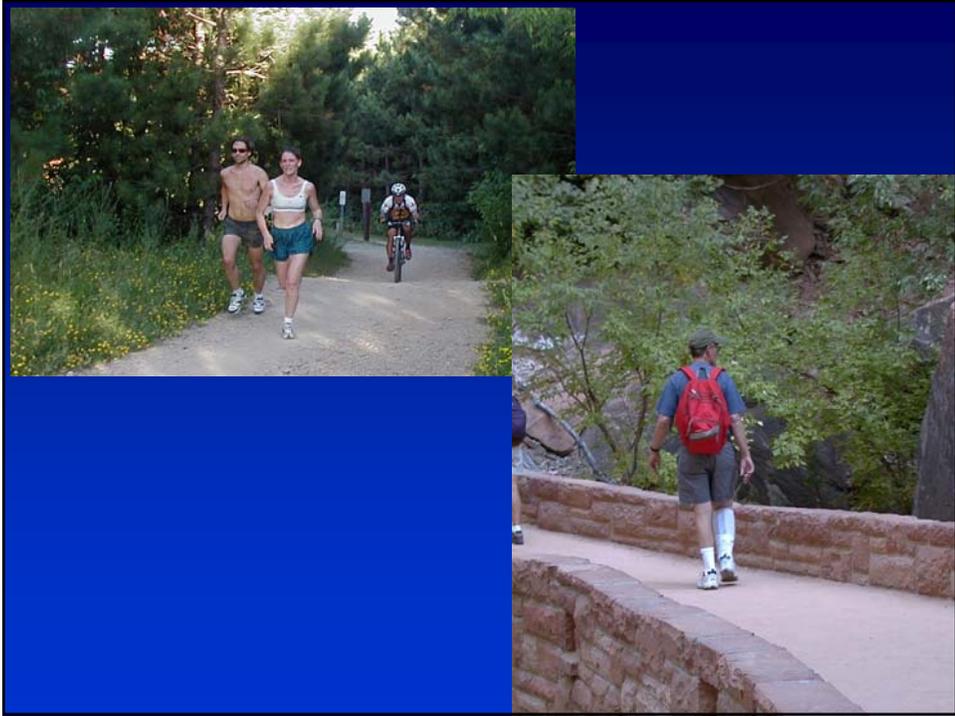


Trail Management Process

-Visitors

Success Can Only be Obtained if it Meets the Trail User's Expectations and Desires







Trail Management Process

-TMP



**What Is the Problem?
What Part of the Trail Management
Process Was Not Followed?**



**What Part of the Trail Management
Process Was Not Followed?**



**What Part of
the Trail
Management
Process Was
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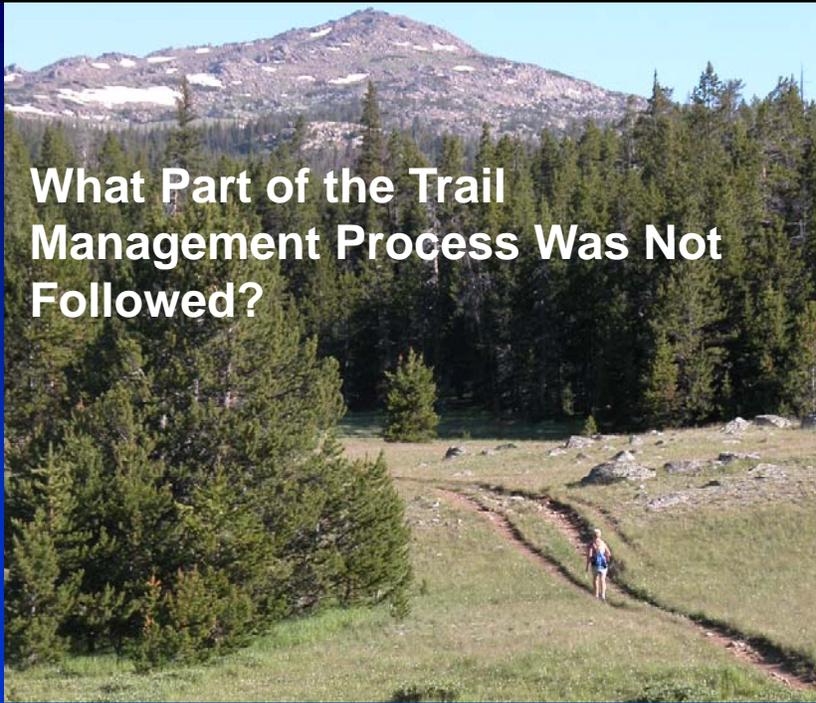
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Trail Management Process

