Managing Trail User Expectations

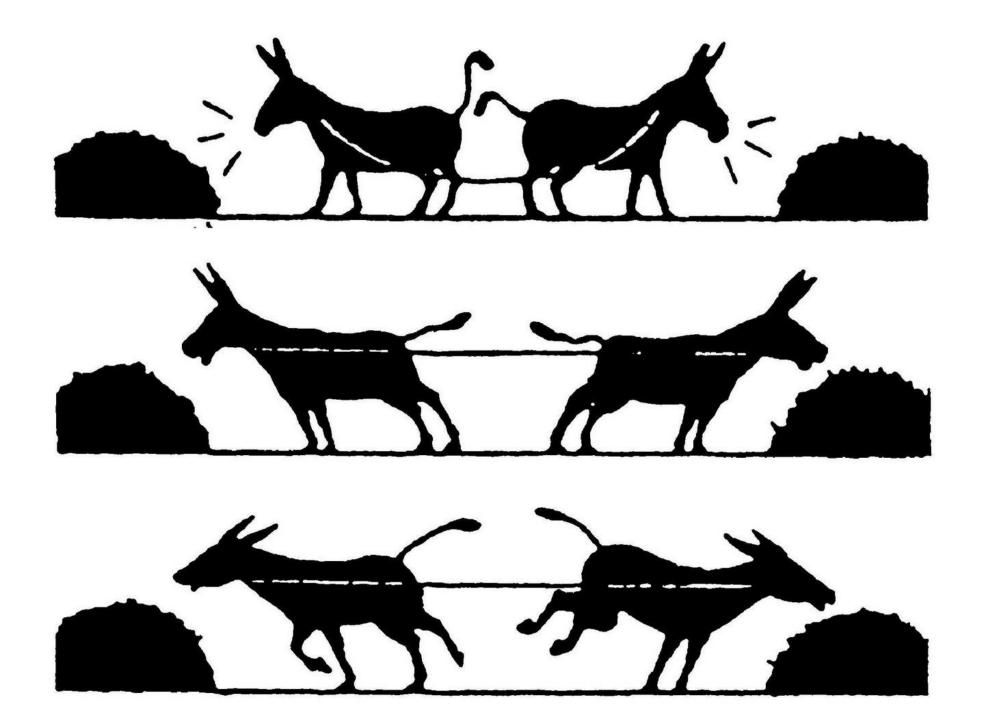
Jolene Rieck, PLA, Chief of Planning & Programs at NDPRD

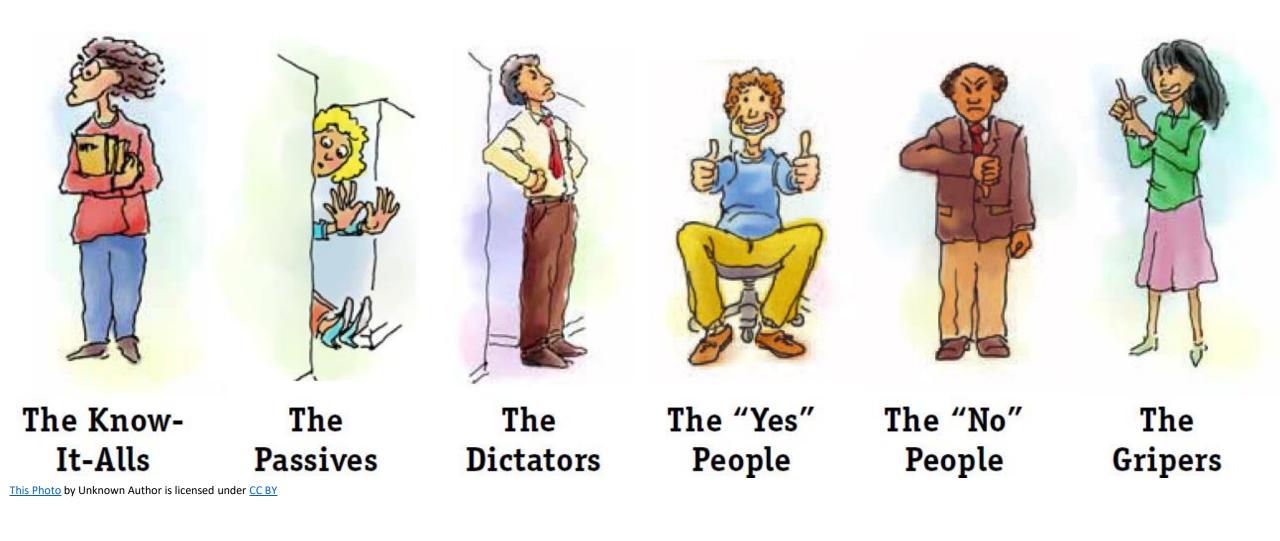


Learning Objectives

- Recognize the different ways conflict can arise on a trail
- Identify the four classes of factors that produce conflict in outdoor recreation
- Learn about physical solutions to alleviate trail conflicts
- Learn about the management responses that will minimize trail conflicts



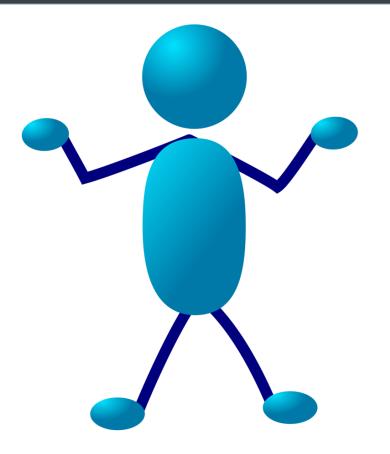


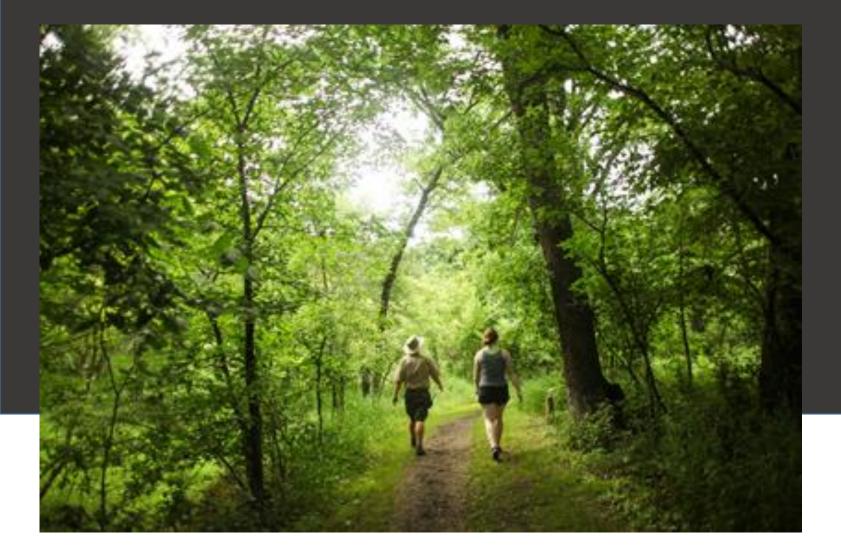




Typical Trail Manager Goals

- Maintain user safety
- Protect natural resources
- Provide high quality user experiences





Threats to quality experiences



Crowding

- Number of encounters actual/preferred/expected
- Motivation for trail use (solitude vs social interaction)
- Behavior of others (regardless of number)
- Type of area (primitive vs urban)
- Location of contacts (favorite spot vs designated views)

- Size of groups
- User experience level
- Perceived environmental disturbance
- Obtrusiveness of visual impact
- Type of encounter

Philosophical Conflict

- Activity Style: Personal meanings attached to an activity.
 - "Specialization level"
- **Resource Specificity:** Significance attached to using a specific resource for a given recreation experience.
 - "Definition of place"
- Mode of Experience: How the natural environment will be perceived.
 - "Focus of trip/expectations"
- Tolerance for Lifestyle Diversity: The tendency to accept or reject lifestyles different from one's own.
 - "Lifestyle tolerance"

Minimizing Conflicts on Trails

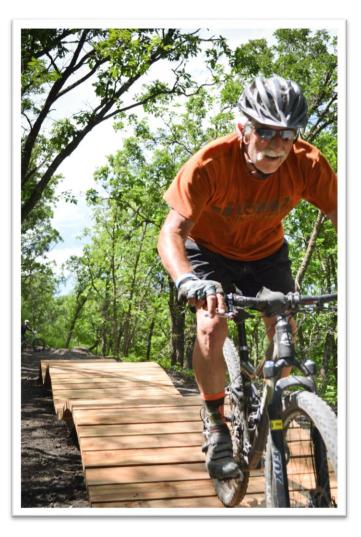




Parks & Recreation

Physical Responses

- Proper trail design, layout and maintenance
- Use screening to prevent short-cutting of switchbacks versus signage
- Design speed: curve radii are based on design speed for wheeled equipment
- Benches: Identifying appropriate places to rest without blocking the trail
- Water diversion: eliminate water collection where possible



Adequate Trail Mileage | Least Physical Manipulation

Build more trails?

- Mileage in quantity may not be the solution.
- Diverse experiences within a same location.
- Crowding occurs the most at the trailhead. "First impression"
 - Separate trails for the first mile
 - Separate trailheads for different users

Purpose of the trail?

- Hard surface trails signify a more "built environment" or "urban" experience.
 - Higher level of service & expectations!
- Soft surface trails signal a more "natural" or "primitive" experience.
 - Lowers the expectations.

Paint a Centerline | Screening

Centerlines or Material Changes

- Paint or demark a centerline to separate two-way traffic.
 - Logs or posts can serve as a centerline
 - Berms can divide trails, too
- Design adequate sight distances
 - Can you see around the corner?
- Build trails wide enough
 - 4'-6" is the minimum distance for two people walking side by side

Use Nature to Your Advantage!

- Screen trails for:
 - Sight
 - Sound
 - Smells
- Use water to buffer and insulate
- Vegetation

Minimize Erosion

- Drain the surface & install drainage structures where needed.
- Avoid steep grades
- Full bench construction
- Follow the contour
- Stay out of highly erodible soils
- Use trail hardening techniques



Design to Control Speed

- Vary the trail surface
- Vary the terrain
- Design to include frequent turns
- Add or leave barriers
 - Bumps
 - Curves
 - Waterbars
 - Drainage structures
- Single track sections go uphill/Roads go downhill



Support Facilities

- What is the number 1 question asked at a state park?
 - Where are the restrooms?????
- Corrals
- Concessions
- Programs
- Interpretative Signage
- Wayfinding
- Benches/Picnic Tables
- Waste Receptacles



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Maintenance Program

- Signs and markings
- Sight distance and clearance
- Surface repair
- Drainage
- Sweeping & clearing
- Structural deterioration
- Illumination
- Noxious weed control
- Trail closures & openings



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Management Responses

Information and Education

- "Effective communication is the best way to prevent user dissatisfaction and conflict"
- Persuasive communication is not effective for illegal or unavoidable acts, but effective on uniformed acts
 - Trail etiquette
 - Trail ethics
 - Trail courtesy
 - Trail sharing

Persuasive Communication

- Applied Behavior Analysis
 - Addresses the behavior itself, not the beliefs around it
 - Short-term results
- Central Route to Persuasion
 - Changes behavior by changing the attitudes or beliefs
 - Strong, well-supported, clear and relevant messages tailored to particular audiences
- Peripheral Route to Persuasion
 - Infographics vs written word
 - Useful when users are attention-deficit or cluttered



Tips for Management Success

- Tailor your approach and content for your audience
- Place information a readily accessible and relevant place
- Provide information early in the decision-making process
- Present the information in an interesting way

12 Principles for Minimizing Conflicts Roger Moore (1994)

- 1. Recognize conflicts as goal interference
- 2. Provide adequate trail opportunities
- 3. Minimize number of contacts in problem areas
- 4. Involve users as early as possible
- 5. Understand user needs
- Identify the actual sources of conflicts



12 Principles for Minimizing Conflicts Roger Moore (1994)

- 7. Work with affected users
- 8. Promote trail etiquette
- Encourage positive interaction among different users
- 10. Favor light-handed management
- 11. Plan & act locally
- 12. Monitor progress



Discussion

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