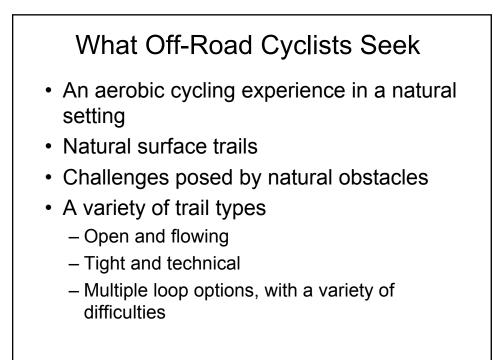


Presentation Agenda

- Trail features cyclists desire
- Brief history of mountain biking in MN
- Sustainable trails and how they are constructed
- MORC volunteer coordination & training
- How MORC works with cities and land managers to create and maintain sustainable trail systems



MN Mountain Bike History

- No designated trails in the 1980's
- In the late 80's and early 90's land managers opened XC ski trails for summer mountain biking
- Few trails designed specifically for mountain bikes & accelerated ski trail erosion occurred
- Erosion mitigation attempts: filling, class-5 gravel, parallel trail, seasonal trail, closure?
- Mid-late 90's saw much new trail development for off-road cycling - rerouting & sustainable construction provided long-term solutions

Sustainable Trail Construction

Step 4: Familiarize Yourself with the Area and Identify Control Points

Positive Control Points:

- Scenic overlooks
- Waterfalls
- Rock outcroppings

•Historical / archeological sites

Lakes & rivers

Negative Control Points:

- Low-lying wet areas
- Steep sideslopes

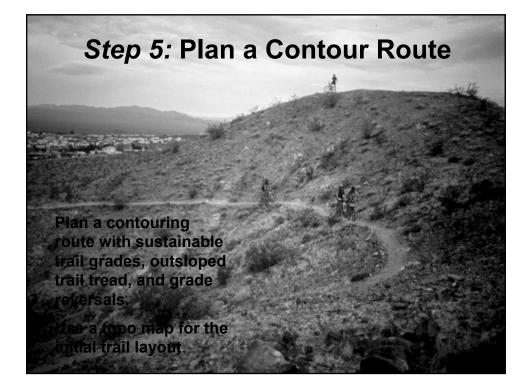
•Fall lines

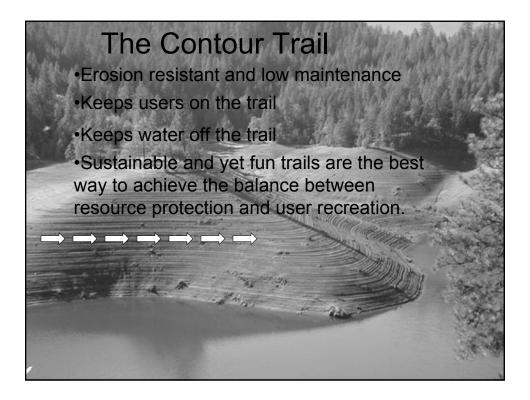
- •Environmentally sensitive areas
- •Private property

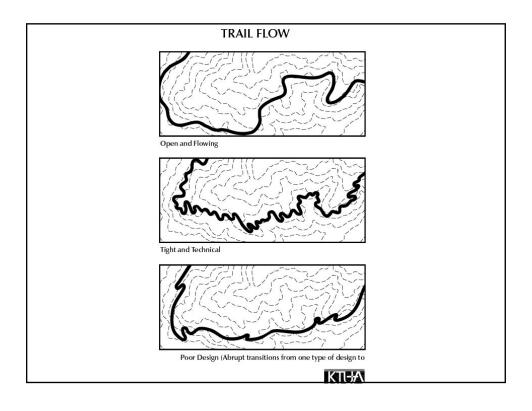
Three Types of Trails 1 Fall-Line Trails 2 Flat Ground Trails 3 Contour Trails Only one of these is sustainable

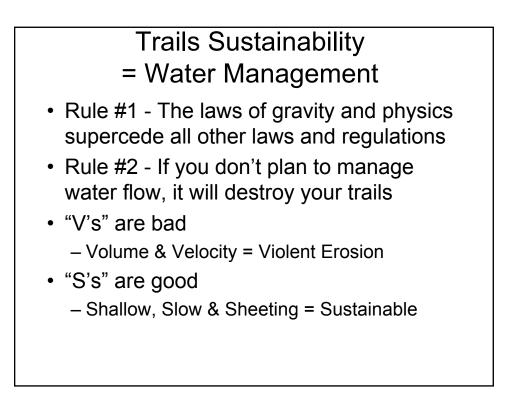
Trails on Flat Ground

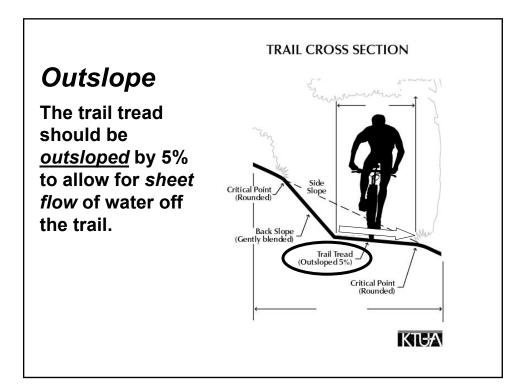
- Temptingly easy to construct
- Begins as a narrow, defined trail
- Tread compacts
- Water collects in the depressions
- Users remove material (mud) with use
- Depressions deepen and become a series of endless mud holes
- Users create re-routes to avoid deep mud
- The "mud-hole cycle" begins again
- NEVER build trails on flat ground!!!

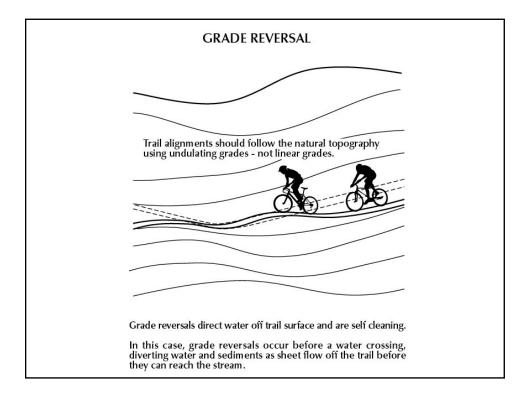


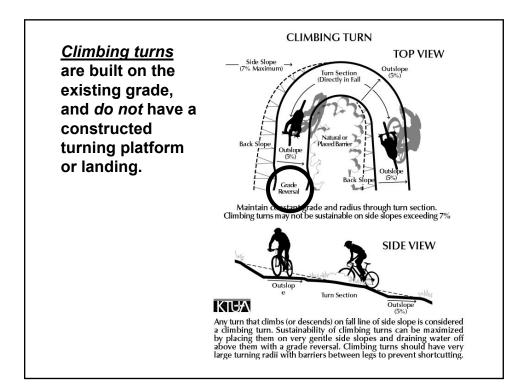


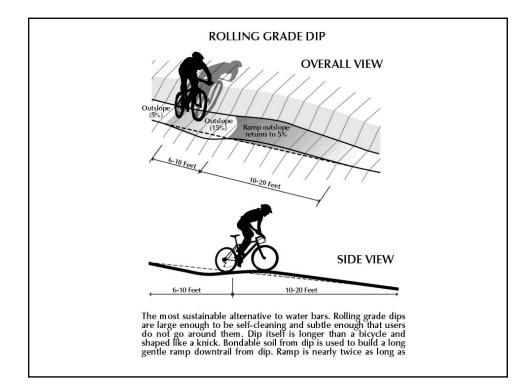


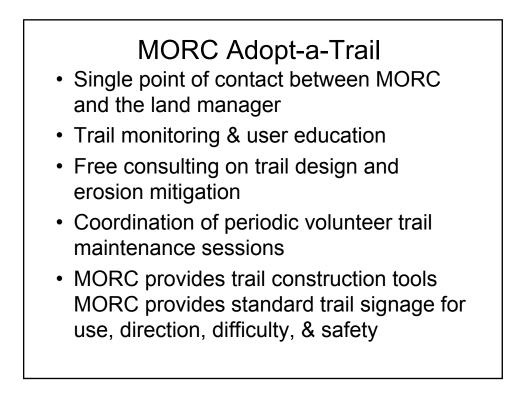












MORC Adopt-a-Trail

- Minnesota River Bottoms
- Terrace Oaks Burnsville
- Lebanon Hills Dakota County
- Battle Creek St.Paul
- Lake Elmo Washington County
- Minneapolis Parks (4)
- Murphey-Hanrehan Burnsville
- Chippewa Nat'l Forest
- Duluth, Winona, Mankato