

KENNESAW MOUNTAIN TRAIL CLUB WORKDAY 5-12-18

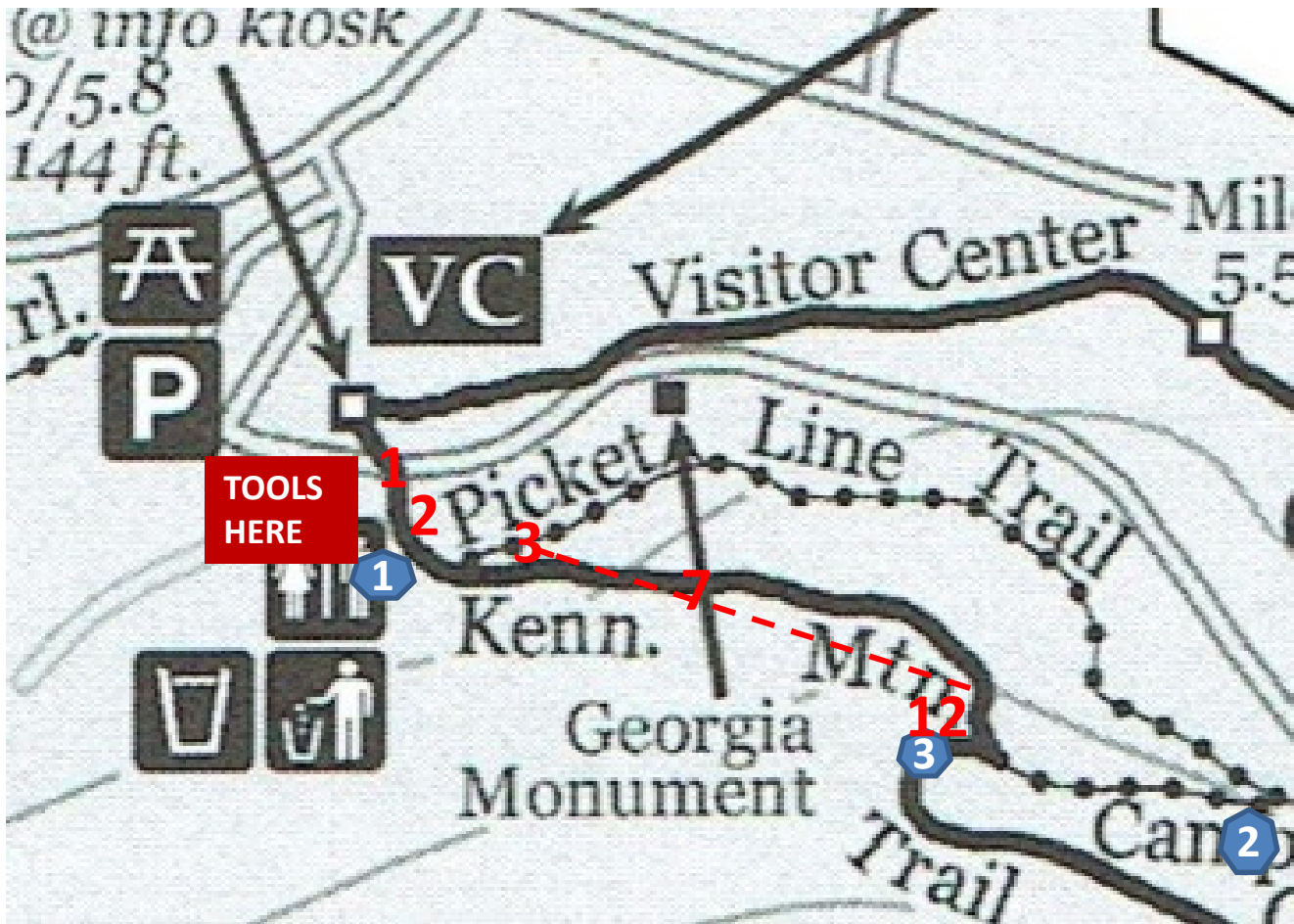
1 Trail ambassadors or others –see next page.

1 –work sites

SCHEDULE:

7:15 Start load tools; Send registration stuff out
8:00 Send tools to grassy area near trail head.
8:15 Brief crew leaders
8:30 Greet & organize volunteers
8:40 Crew leaders hand out tools to each crew.
Close Mtn. trail (need cones); Turn to.
12:00 Pack up and head out; Reopen trail
12:30 clean and stow tools
1:00 Head for President's debriefing meeting

PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING



Work for 5-12-18 will again be on the lower portion of the Mountain Trail below the fire road, hopefully for the last time. Due to safety considerations, Mountain Trail hikers will be rerouted to the smoother Picket Line Trail so that we can close the Mountain Trail in the work areas. Parking will be at the Old 41 Lot-volunteers can assemble at the amphitheater.

Don't start what you can't finish. If done early, help another crew trash the eroded areas.

Make it fun, and above all –BE SAFE!

In case of emergency, call 911, then the Park, and send volunteers to meet help.

KENNESAW MOUNTAIN TRAIL CLUB

WORKDAY 5-12-18

1

Trail Ambassadors (or others) to *politely* **1)** guide “up” hikers off Mountain Trail to Picket Line trail; **2)** Guide “up” hikers back onto fire road/Mountain Trail to the top, and “down” hikers back to Picket Line Trail to V. Center; **3)** guide “down” hikers down to Picket Line Trail (2) & keep them off of Mountain Trail going down. Safety first.

Trail Ambassadors:

- Registration at Old 41 (Many clipboards in tool shed).
- Snacks.
- Hiker reroute- see above.

Material:

Use all in-situ material. Use rocks and gravel and dirt that have slid down the mountain or in berms. Do not use rocks covered with moss that have been there for centuries.

3 old barn timbers.

Equipment:

- Gators to haul tools/water to grassy area near trail head and to haul the old Barn timbers to the fire road. Have volunteers return them to maintenance area.
- Ditch witch in one or two places. *Get keys from Park, check fuel, fill fuel log if added, clean equipment, return keys.*

Other:

- Registration desk, chairs, and registration signs to Old 41 parking area.
- About 7 cones to close trail.
- Trail club work signs.
- Water

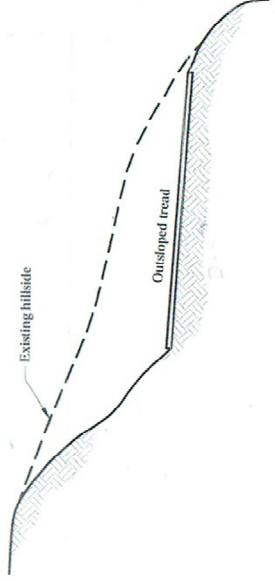


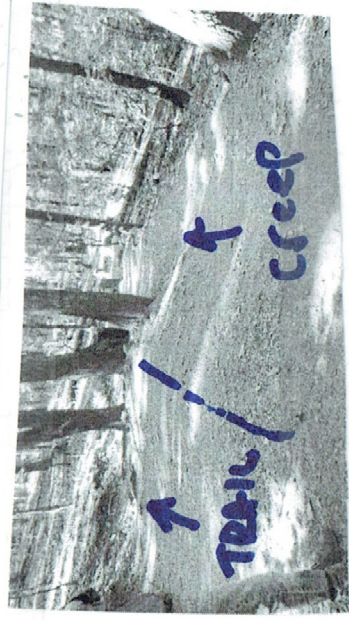
Figure 26—A full-bench trail is constructed by cutting the full width of the tread into the hillside. The tread needs to be outsloped at least 5 percent.

Tread Creep

Does your contour trail display:

- Exposed bedrock or roots along the uphill side of the tread?
- Tread alignment that climbs over every anchor point and drops before climbing to the next anchor point?

All three are indications that the tread surface has been eroded and compacted by travel along the outside edge. Insidious tread creep is at work. Tread creep should be stopped or the trail will eventually become very difficult or dangerous to travel (Figure 32).



Berms are made of soil that has built up on the outside of the tread, forming a barrier that prevents water from sheeting off. Berms form when water erodes trail tread that wasn't compacted during construction, depositing it on the edge of the trail. Water runs down the tread, gathering volume and soil as it goes. Berm formation is the single largest contributor to erosion of the tread. Removing berms is always the best practice.

Berms may form a false edge, especially when berms are associated with tread creep. False edge is unconsolidated material, often including significant amounts of organic material, that can't bear weight.

What causes tread creep? The answer is simple. Most hikers and some hikers have a natural tendency to travel the outside edge of sidehill trails. Sloughing makes the edge of the trail the flattest place to walk. Backslopes that are too steep may slough material onto the tread, narrowing the trail. The trail becomes too narrow. The result is that traffic travels closer to the outside edge. Your job is to bring the trail back uphill to its original location and keep it there.

Causes of Trail Creep

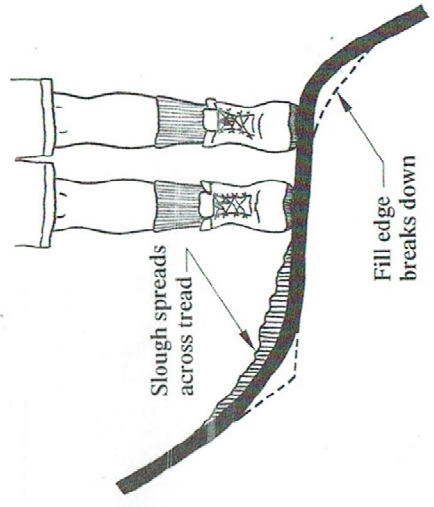


Figure 32—Tread creep at work—sloughing and soft fillslopes.

To fix tread creep, cut the backslope properly, remove slough, and reestablish the 5-percent outslope. Take advantage of large stationary objects (guide structures) to prevent people from walking along the edge. Trees, the ends of logs, rocks, and stumps that are left close to the downhill edge of the trail will keep traffic walking closer to the middle. (Fences)

Tread material between guide structures might creep downhill, creating a situation where the trail climbs over every tread anchor and descends again, a *daisy chain*. At the bottom of these dips, water and sediment collect. This is the weakest portion of the tread and the most prone to catastrophic failure, you may have to install a short retaining wall and haul in tread material. The tread should be benched back into the slope in the original alignment. Guide structures should be installed on the outside edge of the tread to keep traffic toward the center.

A note on guide structures: If you use a rock, be sure it is big enough that at least two-thirds of it may be buried so people or ~~bees~~ won't roll it away (figure 33). Guide structures should be placed at random distances so they don't act like a wall to trap water on the tread. You might need to make the trail a little wider to accommodate the guide structure.

Stabilizing Tread Creep

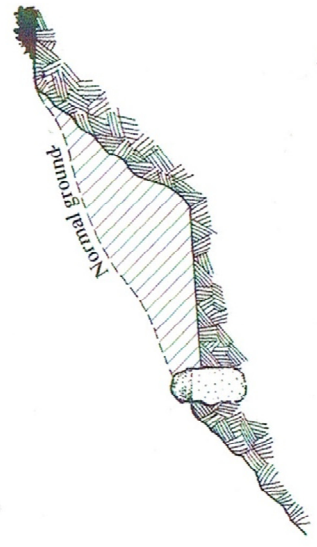


Figure 33—Guide rock properly installed to help prevent tread creep. Do not create a continuous barrier that impedes water drainage.

Work Site 1

KENNESAW MOUNTAIN TRAIL CLUB

CREW LEADERS NEED TO GIVE THE SAFETY LECTURE. THEN, PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING WORK.



BEWARE OF POISON IVY!

In the photo looking downhill, water will be channeled from the trail to the right and into the ditch along the Mountain Road rather than down the trail depositing mud at the trail head. To accomplish this, extend and widen the ditch that's already there. Ditch witch can cut the ditch to be groomed. BUT NOT BEFORE YOU TALK TO BRUCE! Using one of Bruce's barn timbers, dig in the timber and build a "bump" in the trail to run the water to the right. Use the dirt in the photo as fill behind the timber –also, we have gravel in the berms up near the big rock. Also clean off the dirt at the trail head. Deberm above existing water bar.

Approx. crew size: 4-6; Suggested tools: 1 pick, 2 pulaskis, 1 McCloud, 1 garden rake, 2 fire rakes, 2 spades, 1 flat shovel, 1 broom, 1 lopper, 2 wheelbarrows, and the ditch witch, Please have volunteers return tools to maintenance area.

Don't start what you can't finish. If done early, help another crew trash the eroded areas. Make it fun, and above all –BE SAFE! In case of emergency call 911, then the Park, send volunteers to get help.

Work Site 2

CREW LEADERS NEED TO GIVE THE SAFETY LECTURE. THEN, PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING WORK.



This area looked great after the first rain, but the second rain flooded the whole trail because the ditch backed up. Dig out this section of ditch deeper and extend the ditch behind me as I take this picture. Save the big root to save the tree, and clean out under the big root and remove the smaller roots so water won't back up. On the trail, de berm more across the trail just in case it backs up again, use the ditchwch a little if you want, but not much, then regroom using hand tools. Again trash the social trail around the spring. Bruce has a good photo of the problem. And, while you're hot, go access the Mountain Road and clean out the concrete culvert all the way to the drain.

Approx. crew size: 5-7; Suggested tools: 2 sharp pulaskis, 1 McCloud, 1 garden rake, 1 spade, 2 buckets, 2 flat shovels. Please have volunteers return tools to maintenance area.

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Work Site 3

KENNESAW MOUNTAIN TRAIL CLUB

CREW LEADERS NEED TO GIVE THE SAFETY LECTURE. THEN, PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING WORK.



Deberm the creep area to the left of the tree and move the trail to the right of the rocks. Trash the trail randomly to make it look natural and keep hikers from walking there. Water should sheet off the trail over the rocks as shown in the attached “stabilizing tread creep” sketch attached.

Approx. crew size: 4-8; Suggested tools: 1 pick, 2 pulaskis, 2 McCloud, 1 garden rakes, 1 fire rake, 2 buckets. 1 wheelbarrow, 2 spades, 2 flat shovels **Please have volunteers return tools to maintenance**

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Work Site 4

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CREW LEADERS NEED TO GIVE THE SAFETY LECTURE. THEN, PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING WORK.



This ditch is to protect the picket posts downhill by channeling water from the trail and mountainside above past the picket posts, then disperse into the leaves and brush, but it looks very ugly and is too big and hikers may again use it as a trail. Use rocks from above along the trail to armor the slope that's already there. Deberm the side of the ditch to place fill behind the rocks. Contour the slope such that water will continue to flow down the ditch but make it look more natural. Water should flow out the end of the ditch onto the slope around logs to spread out the water.

Approx. crew size: 8-10; Suggested tools: 2 pulaskis, 4 McClouds, 2 garden rakes, 2 spades, 1 pick, 1 flat shovel, 4 buckets, 2 wheelbarrows Please have volunteers return tools to maintenance area.

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Work Site 5

KENNESAW MOUNTAIN TRAIL CLUB

FUTURE FENCE HERE

CREW LEADERS NEED TO GIVE THE SAFETY LECTURE. THEN, PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING WORK.



Extend the rock water bar above to get water off trail. Deberm and slope by trail, and randomly trash trail to make it look more natural like a mountain side and to allow water to sheet off.

*Approx. crew size: 6-8; Suggested tools: 2 pulaskis, 1 pick, 3 McClouds, 2 garden rakes, 2 fire rakes, 2 spades, 1 flat shovel, 1 tamper to share with the other crews, 1 wheelbarrows, 4 buckets. **Please have volunteers return tools to maintenance area.***

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Work Site 6

KENNESAW MOUNTAIN TRAIL CLUB

FUTURE FENCE HERE

CREW LEADERS NEED TO GIVE THE SAFETY LECTURE. THEN, PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING WORK.



Area left of trail in photo, remove trash and dig out gravel berm to use on “muddy” trail areas down hill. Slope trashed area to make the slope look more natural and not like the “creep” trail it once was. Trash area again randomly to make it look more natural like a mountain side and keep hikers from creeping downhill again. To the extent you place trash along trail to keep hikers on trail, make sure to leave places for water to sheet off trail or dig a nick.

*Approx. crew size: 8-12; Suggested tools: 2 pulaskis, 1 pick, 4 McClouds, 2 garden rakes, 2 fire rakes, 2 spades, 1 flat shovel, 1 tamper to share with the other crews, 2 wheelbarrows, 4 buckets. **Please have volunteers return tools to maintenance area.***

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Work Site 7

KENNESAW MOUNTAIN TRAIL CLUB

CREW LEADERS NEED TO GIVE THE SAFETY LECTURE. THEN, PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING WORK.



Downhill side of trail in, trash area randomly to make it look more natural and keep hikers from creeping downhill again. To the extent you place trash along trail to keep hikers on trail, make sure to leave places for water to sheet off trail or dig a nick. Don't leave limbs and rocks to make an artificial berm.

Approx. crew size: 5-7; Suggested tools; 1 pulaskis, 4 McClouds, 2 fire rakes, 2 garden rakes, 1 spade, 1 flat shovel, 2 buckets.

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Work Sites 8

KENNESAW MOUNTAIN TRAIL CLUB

FUTURE FENCE HERE

CREW LEADERS NEED TO GIVE THE SAFETY LECTURE. THEN, PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING WORK.



Downhill side of trail, trash area again randomly to make it look more natural (like a mountain side) and keep hikers from creeping downhill again. To the extent you place trash along trail to keep hikers on trail, make sure to leave places for water to sheet off trail and/or dig a nick.

Approx. crew size: 8-10; Suggested tools: 1 pulaskis, 2 McClouds, 2 garden rakes, 2 fire rakes, 1 spade, 1 flat shovel, 2 buckets, 1 tamper to share with other crews

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Work Site 9

KENNESAW MOUNTAIN TRAIL CLUB

FUTURE FENCE HERE

CREW LEADERS NEED TO GIVE THE SAFETY LECTURE. THEN, PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING WORK.



On downhill side of trail, remove artificial berm of rocks and sticks so that they don't keep water on the trail. Trash area again randomly to make it look more natural and keep hikers from creeping downhill again. To the extent you place trash along trail to keep hikers on trail, make sure to leave places for water to sheet off trail or dig a nick.

*Approx. crew size: 8-10; Suggested tools: 1 pulaskis, 2 McClouds, 2 garden rakes, 2 fire rakes, 1 spade, 1 flat shovel, 2 buckets. **Please have volunteers return tools to maintenance area.***

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Work Sites 10

KENNESAW MOUNTAIN TRAIL CLUB

CREW LEADERS NEED TO GIVE THE SAFETY LECTURE. THEN, PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING WORK.



On downhill side of trail, remove any trash causing an artificial berm. Rework trash to make the slope look more natural (like a mountain side) but keep hikers from creeping downhill again. To the extent you place trash along trail to keep hikers on trail, make sure to leave places for water to sheet off trail or dig a nick.

FUTURE FENCE HERE

Approx. crew size: 6-10; Suggested tools: 3 pulaskis, 3 McClouds, 2 garden rakes, 2 fire rakes, 2 spades, 4 buckets, 1 tamper to share with other crews **Please have volunteers return tools to maintenance area.**

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Work Site 11

KENNESAW MOUNTAIN TRAIL CLUB



On downhill side of trail, remove rocks and branches that may be forming an artificial berm on the side of the trail. Trash area again randomly to make it look more natural and keep hikers from creeping downhill again. To the extent you place trash along trail to keep hikers on trail, make sure to leave places for water to sheet off trail or dig a nick.

*Approx. crew size: 8-10; Suggested tools: 1 pulaskis, 2 McClouds, 2 garden rakes, 2 fire rakes, 1 spade, 1 flat shovel, 2 buckets **Please have volunteers return tools to maintenance area.***

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Work Site 12

KENNESAW MOUNTAIN TRAIL CLUB

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We've had some unexpected erosion in the steep area since we completed this area. Please see Bruce to lay this out. 1-In the left photo, dig in one of Bruce's old barn timbers in the vicinity of Bruce's feet to make a check dam to slow down the water. 2-In the right photo. Clean out all the dips and exit points for water at the other two timbers. Then, go up the fire road to the spring to make breaks as needed along the ditch to allow water to get into the ditch rather than down the road.

*Approx. crew size: 5-7; Suggested tools: 2 picks, 2 pulaskis, 2 McClouds, 1 fire rake, 1 spade, 1 flat shovel, 2 buckets, and 1 **BARN TIMBERS** Please have volunteers return tools to maintenance area.*

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