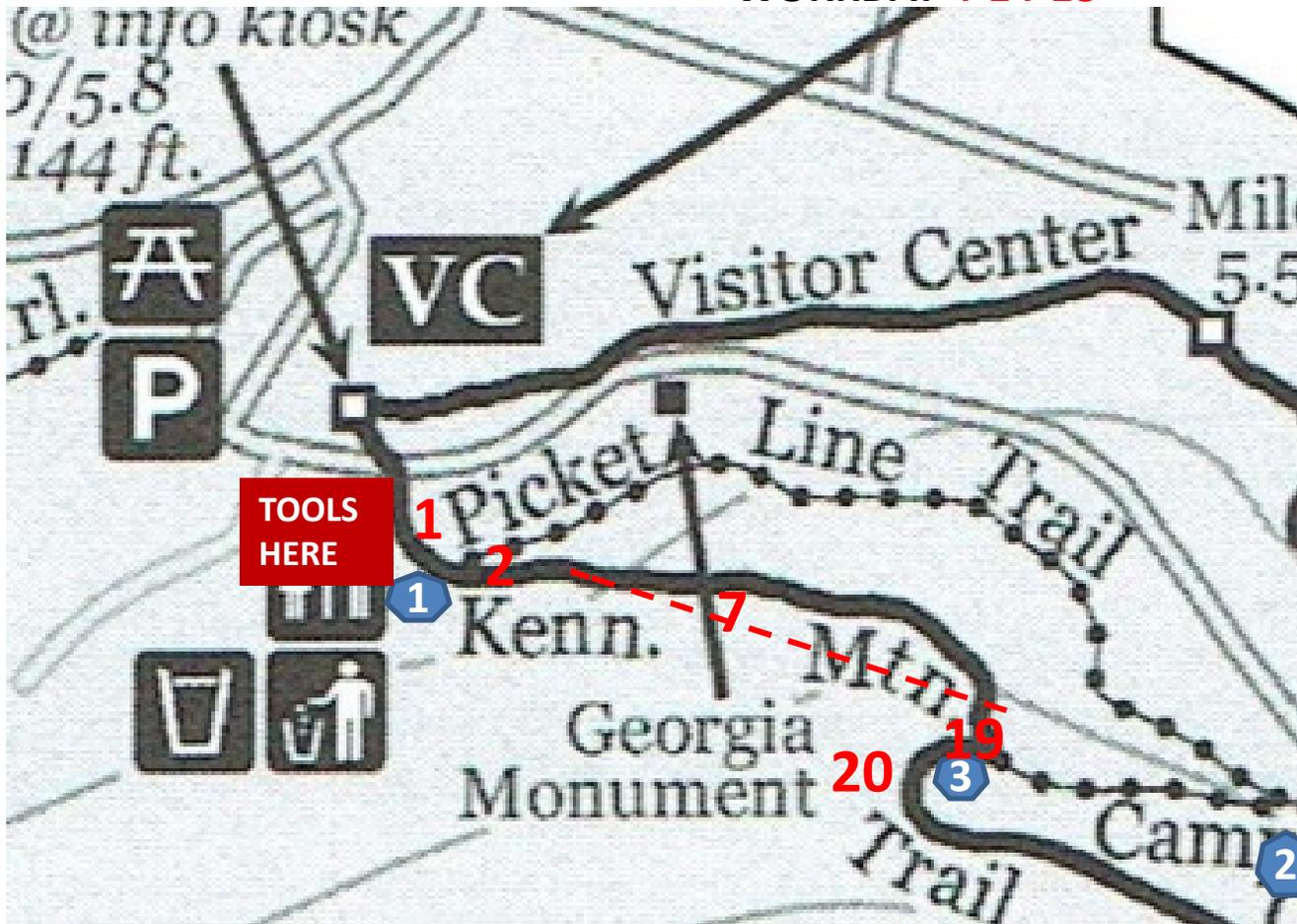


KENNESAW MOUNTAIN TRAIL CLUB WORKDAY 4-14-18



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 4-14-18 will again be on the lower portion of the Mountain Trail below the fire road. 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 2-24-18

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.

Equipment:

- **1 Ditch witch in areas 7, 9-11, 12**
- Pick up truck or gators to haul tools to grassy area near trail head and to haul the old Barn timbers to the fire road. Have volunteers return them to maintenance area. *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

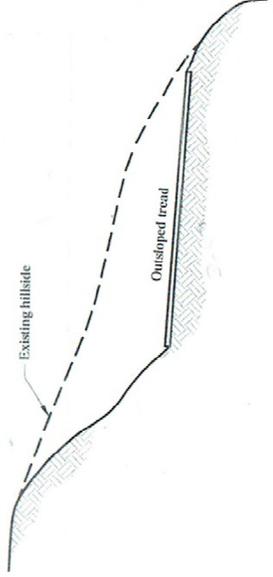


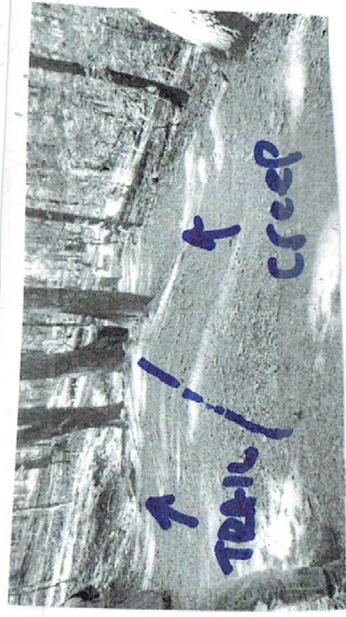
Figure 26—A full-bench trail is constructed by cutting the full width of the tread into the hillside. The tread needs to be outsloped at least 5 percent.

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

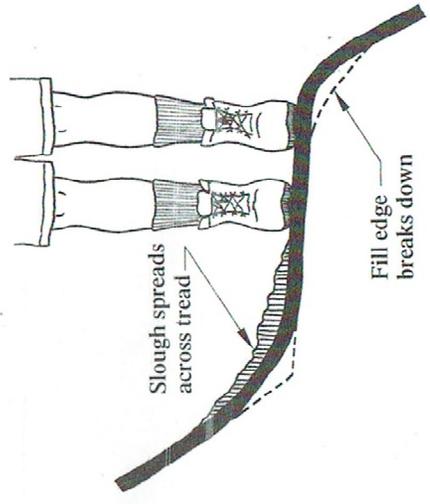


Figure 32—Tread creep at work—sloughing and soft fillslopes.

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

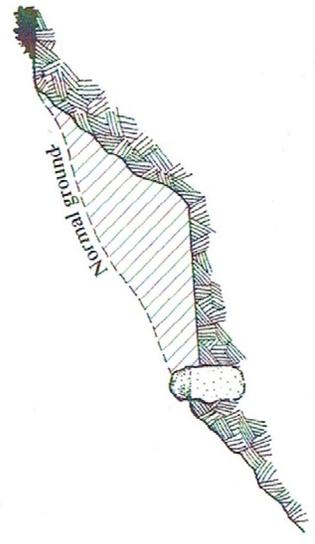


Figure 33—Guide rock properly installed to help prevent tread creep. Do not create a continuous barrier that impedes water drainage.

Work Site 1

KENNESAW MOUNTAIN TRAIL CLUB



Just below the culvert below the junction with the Pickett Line trail, at times there is a spring dumping water on the trail, and hikers have created a new social trail to walk around. 1- clean out/dig out the 2 uphill ditches to cut off the sub-ground water flow to the springs. DO NOT CUT THE BIG ROOTS – dig under them. 2-Deberm and/or make a slight dip (not a ditch) to run the water directly off the trail where the spring is dumping water on the trail. 3- Shovel and broom clean the dirt on the pavement at the trail head at the Mountain Road. 4-Trash the social trail. 5-Time permitting, on the left side of the trail going uphill, extend the drainage ditch from the current first water bar through the brush toward the Mountain Road drainage ditch, BUT NOT BEFORE YOU TALK TO BRUCE!

Approx. crew size: 4-6; Suggested tools: 2 pulaskis, 1 McCloud, 1 garden rake, 2 fire rakes, 2 spades, 1 flat shovel, 1 broom

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.

PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Site 2

KENNESAW MOUNTAIN TRAIL CLUB



FUTURE FENCE HERE

Use the rocks to build a short crib wall but build it such that water can flow around, over, or through it into the ditch. Fix the ditch so that no water will flow into the picket posts down hill near the Picket Line trail but will flow further down hill before flowing into the brush. Redo the trashing to make it look more random and natural looking.

Approx. crew size: 5-7; Suggested tools: 2 pulaskis, 1 McCloud, 1 garden rake, 1 spade, 2 buckets, 1 flat shovel

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PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Site 3

KENNESAW MOUNTAIN TRAIL CLUB



FUTURE FENCE HERE

Trash the downhill side of the trail to narrow and so people won't start walking there anymore. To protect the picket posts below, water should be flowing on the right side of the photo (looking uphill) to a grade reversal below, so grade the trail that a way. Work in conjunction with sites 4 and 5, just uphill.

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

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PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Site 4

KENNESAW MOUNTAIN TRAIL CLUB



FUTURE FENCE HERE

BIG JOB

Randomly trash the downhill side of the trail to narrow the trail and so people won't walk there anymore. To protect the picket posts below, water should be flowing on the right side of the photo (uphill) to a grade reversal down the trail, so grade the trail that-a-way. (Geoff's "New Zealand method.") Work in conjunction with sites 3 and 5, above and below. Rework the little crib wall on the right of the photo to give hikers more room—the trail is on the right of the little crib wall. Do a little sidehilling on the upslope to remove sloughing. PLEASE SEE BRUCE at the site.

Approx. crew size: 8-10; Suggested tools: 3 pulaskis, 2 McClouds, 2 garden rakes, 2 fire rakes, 1 spade, 1 flat shovel, 2 buckets, 1 wheelbarrow, 1 tamper to share with other crews

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PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Site 5

KENNESAW MOUNTAIN TRAIL CLUB



Randomly trash the downhill side of the trail so people won't walk there anymore. To protect the picket posts below, water should be starting to flow on the right side of the photo (uphill) to a grade reversal below so grade the trail that way. (Geoff's "New Zealand method.") Work in conjunction with sites 3 and 4 below. Sidehill where needed to remove sloughing at the toe of the slope. Rework the existing crib wall to give people a wider trail above the crib. Randomly trash the creep on the left.

Approx. crew size: 5-7; Suggested tools: 3 pulaskis, 1 pick, 2 McClouds, 1 garden rake, 1 spade, 1 flat shovel, 2 buckets

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.

PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Site 6

KENNESAW MOUNTAIN TRAIL CLUB



FUTURE FENCE HERE

Randomly trash the downhill side of the trail to narrow the trail and so people won't walk there anymore. Move fill dirt to cover the roots. The rocks in the pile can be used to make a short crib to keep the soil material on the trail, but leave places for water to get by or over the top. Start a slope reversal so that water runs against the slope to Work site 5 (Geoff's "New Zealand" method.) Then randomly trash the left side of the former creep area so that people won't walk there anymore.

Approx. crew size: 8-10; Suggested tools; 3 pulaskis, 1 pick, 2 McClouds, 1 garden rakes, 1 fire rakes, 1 flat shovel, 1 tamper (will need to share with other crews), possible ditch witch.

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.

PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Site 7

KENNESAW MOUNTAIN TRAIL CLUB



FUTURE FENCE HERE

BIG JOB

Your mission here is to move the “creep section” from the left of the tree (looking uphill) back to the right side where it belongs. Cut the dirt and gravel from the creep area to left side of the tree and move it over the roots and rocks to the right side of the tree. Compact well. Sidehill a little to the far right to remove the slough that has accumulated. Randomly trash the downhill side of the trail so people won’t walk there anymore. Slope trail so that water sheets off rather than runs down the hill –make a nick or dip if you need to. **ADVANCED-** remove the rocks and make a fun place to walk between the trees like we did uphill a-ways.

Approx. crew size: 10-12; Suggested tools: ditch witch, 3 pulaskis, 1 pick, 3 McClouds, 1 garden rakes, 1 fire rakes, 1 spade, 1 flat shovel, 1 tamper to share with the other crews, 1 wheelbarrow, 4 buckets.

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.

PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Site 8

KENNESAW MOUNTAIN TRAIL CLUB



Remove earth berm and move fill dirt to cover the roots. (If you need it, more fill dirt is available from other sites downhill and uphill on the trail.) Compact well. Slope trail so that water sheets off rather than runs down the hill. Randomly trash the downhill side of the trail to narrow the trail and so people won't walk there anymore - don't leave limbs and rocks to make an artificial berm.

Approx. crew size: 5-7; Suggested tools; 3 pulaskis, 2 McClouds, 1 fire rake, 1 garden rake, 1 spade, 1 flat shovel, 2 buckets, 1 wheelbarrow. Share a tamper with other crews.

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.

PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Sites 9, 10, 11 KENNESAW MOUNTAIN TRAIL CLUB



FUTURE FENCE HERE

BIG JOB



Move the creep areas from the left of the trees back up to the right of the trees and above the little crib wall where the trail belongs. Remove the creep dirt and gravel on the left and place it and compact well over the rocks on the trail to the right. Sidelhill a little to remove the sloughing. Make sure trail slopes so that water can sheet off – make a dip or a nick if you need to. Randomly trash downhill areas to look natural – don't leave rocks and limbs to create an artificial berm that holds water.

Approx. crew size: 10-12; Suggested tools: possible ditch witch, 3 pulaskis, 4 McClouds, 2 garden rakes, 2 fire rakes, 1 spade, 1 flat shovel, 1 wheelbarrow, 4 buckets, 1 tamper to share with other crews

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PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Site 12

KENNESAW MOUNTAIN TRAIL CLUB



FUTURE FENCE HERE

Remove the berm and move the gravel and soil up on the trail to the right and compact well. The worksites downhill may be able to use the rocks and gravel material. Slope trail so that water sheets off rather than runs down the hill, taking dirt and gravel from the downhill side to the uphill side. Build a nick or a dip if you have to. Randomly trash the downhill side of the trail to narrow the trail and so people won't walk there anymore.

Approx. crew size: 8-10; Suggested tools: possible ditch witch, 2 pulaskis, 3 McClouds, 1 garden rakes, 1 fire rakes, 3 spades, 1 flat shovel, 1 wheelbarrow, 2 buckets, 1 tamper to share with other crews.

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PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Sites 13, 14, 15 KENNESAW MOUNTAIN TRAIL CLUB



Complete removing any berms and move the gravel and soil up on the trail to the right and compact well. Slope trail so that water sheets off rather than runs down the hill, taking dirt and gravel from the downhill side to the uphill side. Build a nick or a dip if you have to. Randomly trash the downhill side of the trail so people won't walk there anymore. Don't leave limbs and rocks that create artificial berms that keep water on the trail.

FUTURE FENCE HERE

Approx. crew size: 8-10; Suggested tools: 3 pulaskis, 3 McClouds, 2 garden rakes, 2 fire rakes, 2 spades, 4 buckets, 1 tamper, to share with other crews

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.

PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Site 16, 17

KENNESAW MOUNTAIN TRAIL CLUB



Complete removing any berms and move the gravel and soil up on the trail to the right and compact well. Slope trail so that water sheets off rather than runs down the hill, taking dirt and gravel from the downhill side to the uphill side. Build a nick or a dip if you have to. Randomly trash the downhill side of the trail so people won't walk there anymore. Don't leave limbs and rocks that create artificial berms that keep water on the trail.

Approx. crew size: 6-8; Suggested tools: 3 pulaskis, 2 McClouds, 1 garden rakes, 1 fire rakes, 1 spade, 1 flat shovel, 2 buckets

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PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Site 18, 19

KENNESAW MOUNTAIN TRAIL CLUB



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 2 of Bruce's old barn timbers in the vicinity of Bruce's feet to slow down the water. 2-In the right photo, dig in another between Bruce and Helen to divert water through the rock berm. 3-Place some dirt and rock fill amongst the roots behind Bruce in the left photo - there is plenty of material in the fire road ditch to use for this -also, in the fire road just downhill from the trail intersection there is a pile of gravel in the road you may use. Mix it all together into a well graded material -add some organic soil to hold it together in the rain. Compact it well.

*Approx. crew size: 5-7; Suggested tools; 2 picks, 2 pulaskis, 2 McClouds, 1 fire rake, 1 spade, 1 flat shovel, 2 buckets, and 3 **BARN TIMBERS***

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.

PLEASE SEE BRUCE AT YOUR SITE BEFORE STARTING

Work Site 20

KENNESAW MOUNTAIN TRAIL CLUB

(NO PHOTO)

Annual cleanout of the ditch on the fire road. Dig out the dirt “dams” that have formed that push water onto the trail. Rake out the leaves. Some of the dirt can be used by crew #19 just below the fire road.

If you have time, try to work the French drain at the curve on the fire road to get the water from the spring across the trail into the ditch. (This will be difficult.)

Approx. crew size: 5-25; Suggested tools: (# depends on crew size) a few pulaskis, several shovels, one or two wheelbarrows, a McCloud, several spades, several flat shovel, 1 pick.

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.

**PLEASE SEE BRUCE AT YOUR SITE
BEFORE STARTING**