Directional Signs at Trail Intersections

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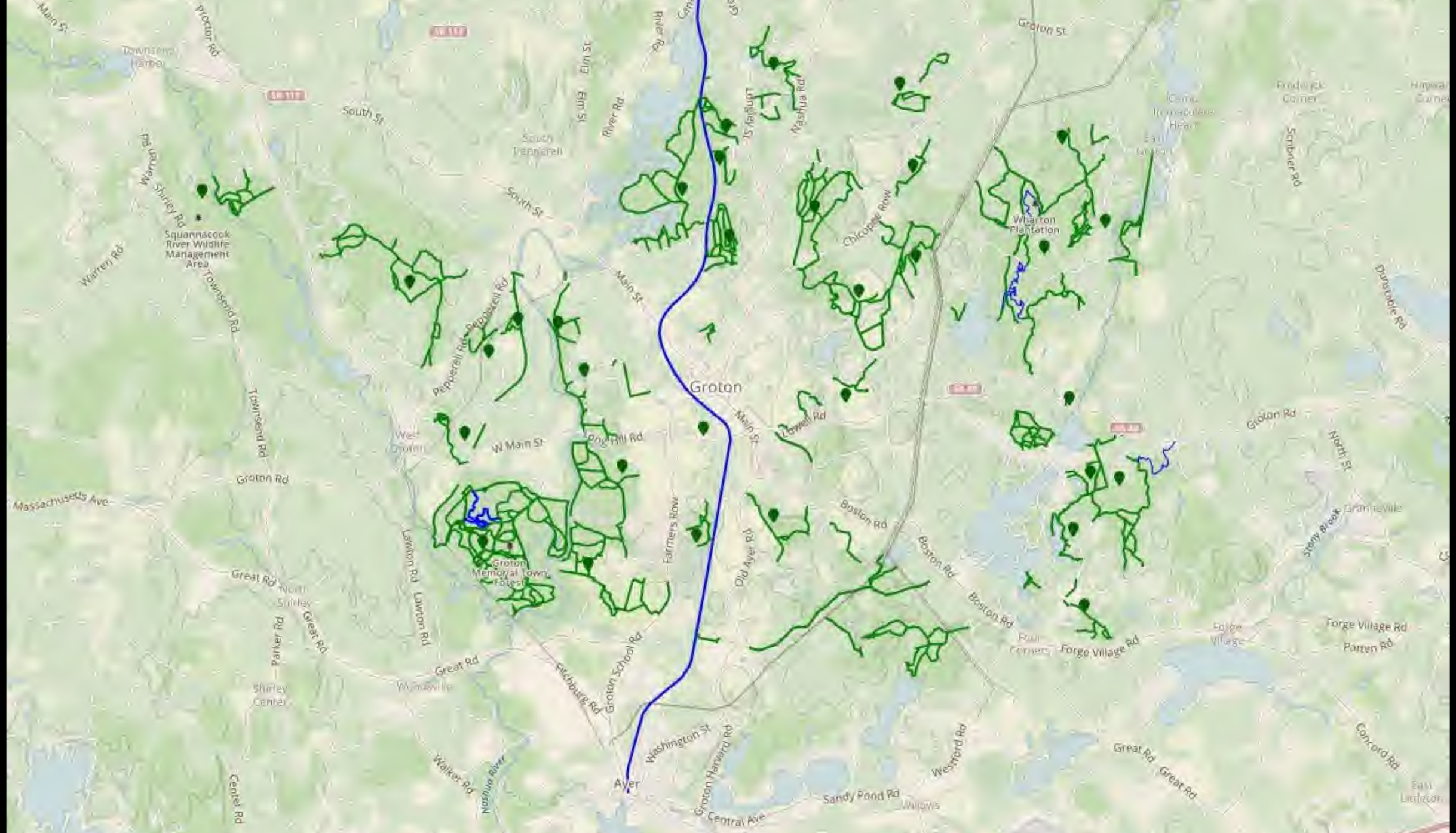
Groton Trails Committee

Massachusetts Trails Conference
14 November 2015
Leominster, MA

The Problem



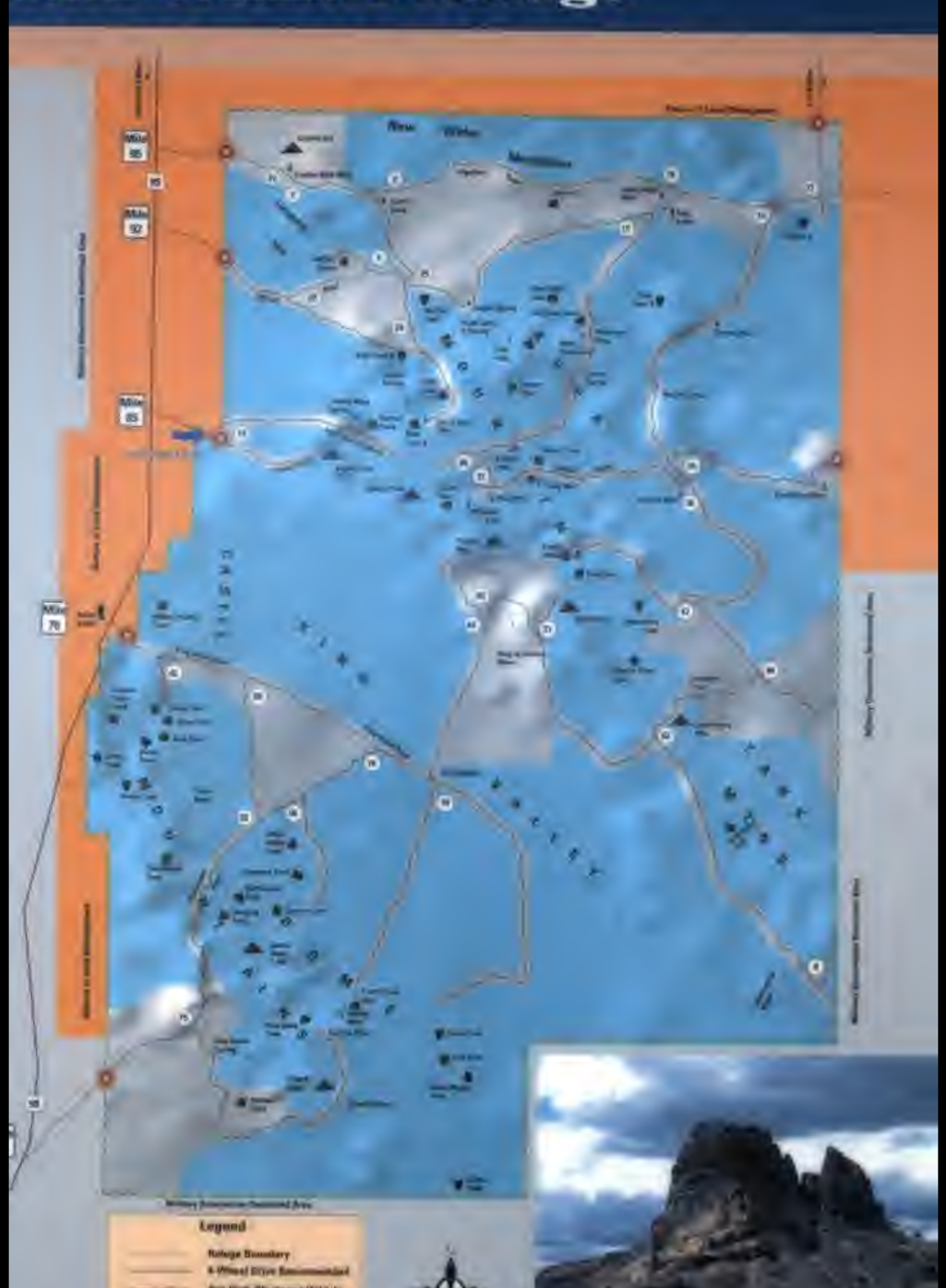
Groton
Groton St
Main St
Proctor Rd
Townsend Harbor
South St
Elm St
River Rd
South Pepperell
Nashua Rd
Chicopee Row
Wharton Plantation
Frederick Corner
Scribner Rd
Dunstable Rd
Warren Rd
Shirley Rd
Squannacook River Wildlife Management Area
Townsend Rd
Pepperell Rd
W Main St
Long Hill Rd
Lowell Rd
Groton Rd
North St
Massachusetts Ave
Boston Rd
Farmers Row
Old Ayer Rd
Groton Memorial Town Forest
Lawton Rd
Great Rd
North Shirley
Parker Rd
Shirley Center
Fitchburg Rd
Groton School Rd
Washington St
Groton Harvard Rd
Ayer
Walker Rd
Nashua River
Central Ave
Sandy Pond Rd
Willows
Westford Rd
Four Corners
Forge Village Rd
Forge Village
Patten Rd
Concord Rd
Stony Brook
Granite Ville
East Littleton
Center Rd

What have others done?

Easily accessible

GREEN HILL

Swamp Walk


Mile 95
Mile 92
Mile 85
Mile 78
Legend

Catamount Trail (CT) Map Legend
CT: Backcountry Trail
CT: Ski Center Trail
CT: Plowed Road
CT: Snowmobile Trail (VAST)
CT: Unplowed Road
Other Snowmobile Trail
Approximate Mileage
Paved Highway
State Road
CT Access Point
Long Trail System

HUMPHREYS TRAIL
WEATHERFORD TRAIL 3.8 MI.
HUMPHREYS PEAK SUMMIT 4.8 MI.
NO HORSES ALLOWED
ON HUMPHREYS TRAIL

BROOKBANK TRAIL
SUNSET TRAIL 2.5 MI.

Less accessible

WATERLINE ROAD
THIS ROAD SERVES AS THE ROUTE FOR THE WATERLINE FROM SPRINGS IN THE INNER BASIN OF THE SAN FRANCISCO PEAKS TO THE CITY OF FLAGSTAFF.
A NON-MOTORIZED ROUTE (EXCEPT FOR ADMINISTRATIVE PURPOSES), IT IS POPULAR WITH MOUNTAIN BIKERS, HIKERS, AND HORSEBACK RIDERS, SO PLEASE BE ON THE ALERT FOR EACH OTHER, ESPECIALLY IF YOU'RE A MOUNTAIN BIKER HEADED DOWNHILL!
PREPARE TO STOP QUICKLY, AND RESPECT EACH OTHER'S RIGHT OF WAY AS YOU ENJOY THIS SCENIC ROUTE. THANKS!

NO
HUNTING IN
MUNICIPAL
PARKS
CITY CODE 8.04-001-0008
PET OWNERS ARE
RESPONSIBLE FOR
THE IMMEDIATE
CLEANUP AND
REMOVAL OF THEIR
PETS DEFECATION.
ORD NO. 1991

SPORTSMEN
THIS DEVELOPMENT
WAS CONSTRUCTED
FOR YOUR GAME
WITH YOUR MONEY
HELP PROTECT YOUR
INVESTMENT

DEAD END

TO SUMMIT → .9
← TO OHLSON FIELD 1

OAKS & YALLOWS TR. NO. 3
JCT. JUNIPER MESA TR. NO. 20 2 1/4
JCT. HAPPY CAMP TR. NO. 9853 2 1/2
CO. RD. 125 TRAILHEAD 5 1/2

Remote

2
Nendaz 35 min
Sion

Keine Signale eigenmächtig anbringen oder entfernen. Veränderungen an der Wanderwegbeschilderung erfordern die Zustimmung der kantonalen Wanderwegbeauftragten. Dies gilt auch für das Anbringen zusätzlicher Schilder.

Bei der Signalisation von Themenwegen und weiteren Angeboten entlang von Wanderwegen ist Zurückhaltung nötig. Zusätzliche Markierungen und Beschriftungen erschweren die Orientierung und belasten das Landschaftsbild.

Die Wanderwegbeauftragten sind stets dankbar für Mitteilungen über beschädigte oder fehlende Wegweiser und Markierungen.

» ASTRA, Schweizer Wanderwege; Handbuch Signalisation Wanderwege; 2008

» Schweizer Wanderwege; Signalisation wandernaher Angebote; 2008

» Schweizer Wanderwege; Themenwege – Planung und Koordination mit dem bestehenden Wanderwegnetz; 2010

Wanderweg ersetzen. Wanderwege sind zu ersetzen, wenn sie beeinträchtigt werden oder nicht mehr frei zugänglich sind.

Die häufigste Beeinträchtigung ist das Einbringen von Asphalt- und Betonbelägen. Der betroffene Abschnitt muss in diesem Fall aus dem Wanderwegplan gestrichen und durch einen anderen Weg mit geeigneter Oberfläche ersetzt werden.

Falls keine Verlegung auf einen bestehenden Weg möglich ist, muss nach Bundesgesetz über Fuss- und Wanderwege (FWG) ein neuer Wanderweg angelegt werden, damit Erholung und Freizeitaktivitäten auf attraktiven und sicheren Wanderwegen langfristig gewährleistet bleiben.

» ASTRA, Schweizer Wanderwege; Vollzugshilfe Ersatzpflicht für Wanderwege; 2012

» ASTRA, Schweizer Wanderwege; Handbuch Bau und Unterhalt von Wanderwegen; 2009

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Bundesamt für Strassen ASTRA

Wanderwege betroffen?

Merkblatt zur Erhaltung von Wanderwegen

JUNIPER MESA TR. NO. 20
OAKS & WILLOWS TR. NO. 3

BULL SPRINGS TR. NO. 100
JUNIPER MESA TR. NO. 20

HELLS HOLE TRAIL 284 UPD
BOYER TRAIL 148 2
HELLS HOLE 6

MCFADDEN PARK TR 55
MCFADDEN TRAILHEAD

PARK TANK

McFADDEN PARK TR. 55
A CIRCLE TRAILHEAD 4

HUMPHREYS TRAIL

GARFIELD
GARFIELD RIDGE CAMPSITE
GALEHEAD HUT

USFS
AMC
GREENLEAF TRAIL
GREENLEAF HUT
OLD BRIDLE PATH
FRANCONIA NOTCH

Don't let this
happen to you.

Hayes Woods Nature Trail
Groton Conservation Trust
Joseph and Elsa Hayes made a gift of this 46-acre parcel to the Groton Conservation Trust in 1984. We are all indebted to them for sharing this beautiful place with us.
Hayes Woods
Loop Trail Map
N
Trail Guides
Caution
DEER TICK HABITAT
HAYES WOODS
NATURE TRAIL
GUIDE

Station 7

Station 8

Station 9

Toward the most common types of coniferous trees found in Massachusetts are the White Pine and the Red Pine. You will notice there are large White Pine to the left side of the trail and a Red Pine to the right. The White Pine is best identified by having five needles to a bunch, whereas the Red Pine has three. The Red Pine or Norway Pine is distinguished from the White Pine because the bark has a darker reddish hue. In the past, Red Pines were often used in reforestation projects.

Station 10

Surrounding Station 10 are several species of Oak trees, identifying specific types of Oak can be difficult as Oaks are known to hybridize readily. Oak trees cross-pollinate, producing a hybrid offspring. This is why there are many possible combinations of Oak types.

Types of Oak found in Massachusetts include the White Oak, Northern Red Oak, Black Oak, and Scarlet Oak.

Station 11

The pond is home to the larvae and/or adults of many insects, including Dragonflies, Mayflies, Mosquitoes, Black Flies, Waterstriders, and dozens of others. Small ponds and pools are important breeding grounds for almost all flying insects.

As you gaze across the pond you may notice several bird species:

Herons

Great Blue Heron- (up to 40 tall) gray-blue in color, and white about the head.

Green Heron- (16"-22") deep green with a brown neck.

American Bittern- (23") stalky brown with white stripes on its underside.

Woodpeckers

Hairy W.- (9½") white underside and black with white speckled wings. Bill length is equal to or greater than the length of the head. Males have a red patch on back of head.

Downy W. (6½") smaller than the Hairy. [illegible] with white outer tail feathers and a white back.

Ducks

Mallard- (23") male has a green head, while the females heads are a light brown.

An unintentional [illegible] planted by [illegible] in the area.

Station 12

This dead tree has [illegible] in its early stages. This is the work of wood boring insects which have infested the tree and begun the process of decomposition. This generally only happens after the dead tree has fallen.

Station 13

Here you will notice that the trail comes with views of Peppercell Road and the adjacent property across the street. By retaining undeveloped Hayes Woods, [illegible] "stepping stone" that [illegible] between surrounding conservation areas. It provides a link between Rocky Woods (New England Forestry Foundation) and the Johnson Conservation Area (Groton Conservation Commission). This is part of a larger chain of properties leading from the Sipsar Brook Fish & Wildlife Management Area to a string of conservation areas along the Nashua River. This makes conserving Hayes Woods incredibly important, as the linkage of properties is essential to maintaining genetic diversity in area animal populations.

The area of Groton, in general, is an area of staggering diversity. It [illegible] with species that live exclusively south.

Station 14

Station 14 concerns a very large, very tall White Pine tree. This tree is an example of a "lone wolf" tree. It was here before any of the other trees. Its many low, dead branches indicate that it once received a lot of sunlight, without [illegible] to block it.

Station 15

Several species of fern can be found along the successional trail [illegible] New England and [illegible] woodland, swampy and [illegible]

On this portion of the trail, you will encounter the Hay-scented Fern, Lady Fern, Sensitive Fern, Cinnamon Fern, Bracken Fern, Interrupted Fern, Christmas Fern, and various [illegible] ferns.

Station 16

[illegible] Pine is a member of the white pine group. One [illegible] are now small but this was not always the case. During the [illegible] period, 360 to 285 million [illegible] Horses could reach 100 ft. in [illegible] The [illegible] of these plants is [illegible] they formed most of the [illegible]

The Eastern Pine is [illegible] height and grows [illegible] in moist, well-drained [illegible] and usually grows in clusters.

Also prevalent along this part of the trail is the Mountain Laurel, which is a woody shrub that grows throughout the eastern United States. It is a dominant plant on Hayes Woods. In the springtime the [illegible] bloom [illegible]

Mountain Laurel

NATE AVERY LOOP TRAIL
BLE
Flagstaff Star Party
Buffalo Park 17-18-19 SEP
BUFFALO PARK URBAN TRAIL

MILLSTONE
HILL & TRAILS
OLD ROAD
TO ESSEX
Caution

Subject to a
Conservation
Restriction
blic Access
Permitted
Wildlife Management Area
Rules & Regulations in
Effect

NO
MOTORIZED
VEHICLES
– WELCOME –
Protected Area
Please: No Motorized Vehicles
No Hunting or Firearms
No Littering
No Fires

POSTED
NO
TRESPASSING
VIOLATORS WILL BE PROSECUTED
TEAR OFF INDIVIDUAL

McMILLAN
MESA
TRAIL

PULSE CHECK GUIDE
LOCATE AND COUNT YOUR PULSE RATE FOR 10 SECONDS
RECOMMENDED 10 SEC. PULSE RATE FOR THE NOVICE
YOUR AGE
RECOMMENDED 10 SEC. PULSE RATE FOR THE ADVANCED
POINTS TO REMEMBER
MIRACLE

PULSE CHECK GUIDE
MIRACLE

Routed Signs

Material

- Wood
- Laminated plastic

Fuccillo Conservation Area
Groton Conservation Commission

6 Answers

active oldest votes

20

As a New Englander who hikes a lot, I'd say that the sight of any good signage is so startling and unexpected that the appearance of the material should be a distant secondary concern to the signs' utility.

Routed Signs

Material

- Wood
- Laminated plastic

Commercial Routing

- 4 no reply
- 4 referred to others
- $100 minimum, 20 at once all the same
- $120 each, red oak, requires some finishing

Routed Signs

Material

- Wood
- Laminated plastic

Commercial Routing

- 4 no reply
- 4 referred to others
- $100 minimum, 20 at once all the same
- $120 each, red oak, requires some finishing

Non-commercial

- Local high school

DANGER
EYE PROTECTION
REQUIRED
DANGE

Routed Signs

Material

- Wood
- Laminated plastic

Commercial Routing

- 4 no reply
- 4 referred to others
- $100 minimum, 20 at once all the same
- $120 each, red oak, requires some finishing

Non-commercial

- Local high school
- Local tech school

Routed Signs

Material

Wood
Laminated plastic

Commercial Routing

4 no reply
4 referred to others
$100 minimum, 20 at once all the same
$120 each, red oak, requires some finishing

Non-commercial

Local high school
Local tech school
Friend at machine shop

EVENT
0 0 1
+00,0000 X
+00,0000 Y
+0 1,9990 Z
X
Y
Z
PRESET
CLEAR ENTRY
RUN
START
STOP
GO
JOG FAST
JOG SLOW
7
8
9
4
5
6
1
2
3
0
TRAK CNC 2

PART NO.
15222R
REV. G
SERIAL NO.
CP - 13 - 1327
DATE
BACK PANEL KEY
CNC2
REMOTE
POWER UNIT
TAPE
AUXILIARY

The Solution

OLD COLONY C.C

MCI SHIRLEY

SOUZA-BARANOWSKI C.C.

BAY STATE C.C .

M.C.I. FRAMINGHAM

MASSACHUSETTS TREATMENT CENTER

NORTH CENTRAL CORRECTIONAL INSTITUTE

M.C.I. CEDAR JUNCTION

M.C.I. NORFOLK

EMBROIDERED
CLOTHING

MATTRESSES, PILLOWS,
SHEETS, PILLOW CASES

REGULATORY &
CUSTOM SIGNS

BINDERS, PADFOLIOS
& CLIP BOARDS

RE-UPHOLSTERING

US, MASS STATE
& POW FLAGS

WOOD FURNITURE

CLOTHING

OFFICE SYSTEMS,
FILES & FURNITURE

PRINTING

SILK SCREENING

CUSTOM METAL WORK

SIGNS

Diamond Grade Reflective Sheeting, .080 Gauge Aluminum, One Color Silk Screening, 1-Sided

Prices reflect regulatory signs only, custom signs priced separately.

Unless otherwise stated, all non-traffic signs will be done with
3M 3200 Series Engineer Grade Reflective Sheeting.

Description	Unit	Unit Price
SIGN,6" X 12" REGULATORY	EACH	$ 10.96
NON-TRAFFIC	EACH	$ 8.21
SIGN,6" X 24" REGULATORY	EACH	$14.22
NON-TRAFFIC	EACH	$ 9.64
SIGN,8" X 24" REGULATORY	EACH	$ 18.98
NON-TRAFFIC	EACH	$ 10.07
SIGN,12"X 6" REGULATORY	EACH	$10.96
NON-TRAFFIC	EACH	$ 8.21
SIGN,12"X 12" REGULATORY	EACH	$18.02
NON-TRAFFIC	EACH	$ 9.05

SPEED LIMIT

www.masscor.us

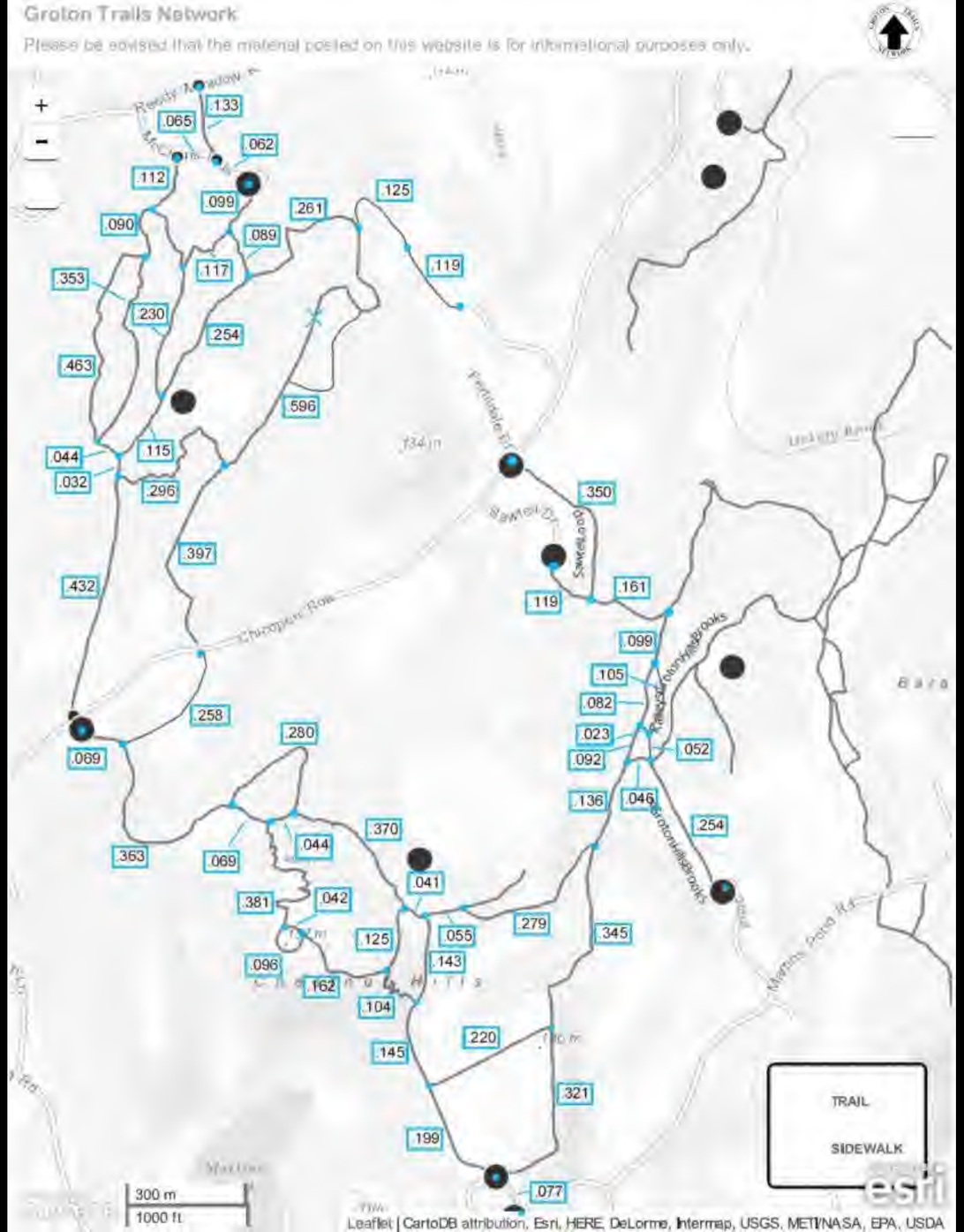
Brown Trail
Brown Lane 0.2
McLains Woods Rd end 0.4
Williams Barn 1.1
Chicopee Row 1.0
www.grotontrails.org

100 79 63 50 40 31 25

←Bruce Clements Trail→
Chestnut Hill 0.4 ↑
Brooks Orchard 0.5 ←
Williams Barn 0.5 →

Bruce Clements Trail
Williams Barn 0.1
Chicopee Row 0.3
Brown Lane 1.5
Brooks Orchard 0.9

Trail Distances

Groton Trails Network

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