

Trail Standards, Assessments, and Technology



Access

Engage and Excite

Conservation and Sustainability

Appearance

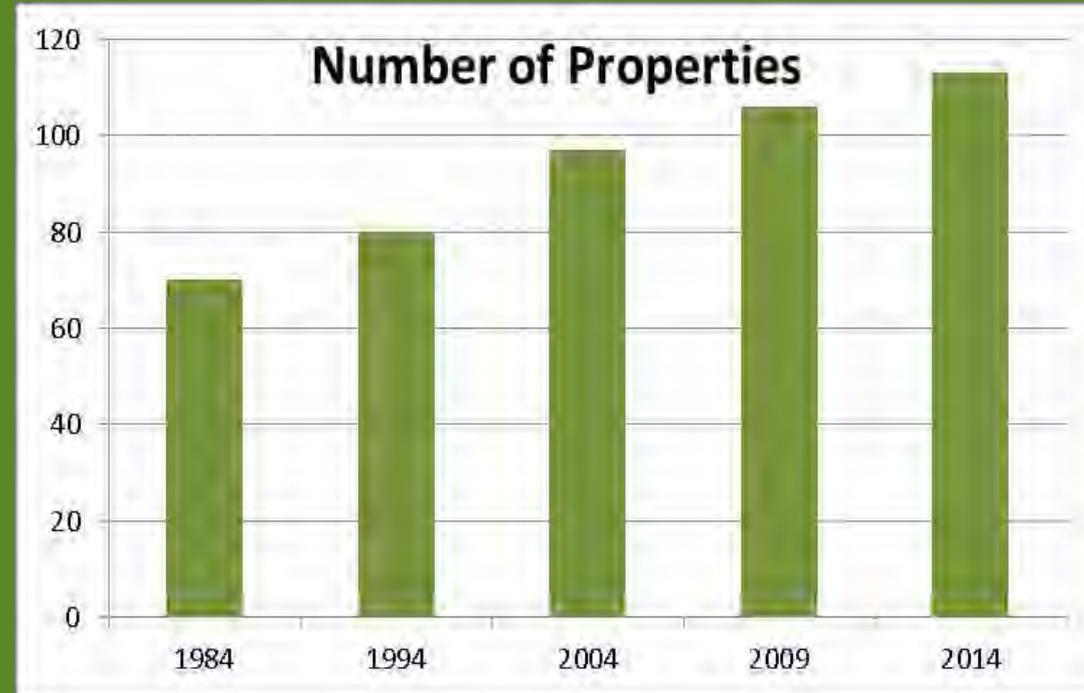
Safety and Comfort



Stewardship Context

Rapid growth – size and complexity

- Active farming
- Urban properties
- Designed landscapes
- Growing enterprises
- Increasing number of buildings
- 350 Miles of Trails



What are baseline standards?

- Comprehensive baseline standards
- Minimum condition metrics
- Triple bottom line of sustainability
 - Resource conservation and property care
 - Visitor and community experience
 - Financial and enterprise success





Access

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and Excite

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Safety and Comfort



Standards - Key Features

Entrances

Open to visitors, Parking, Kiosk, Signs / Structures, Appearance,

Trails

Safety, Access, Drainage, Tread, Width, Vegetation, Cleanliness,
Wayfinding

Assessment Ratings



Good:

Condition is stable. Functionally good. No immediate management needed. None or few signs of degradation. Early in lifespan. Maintenance prescriptions followed or regular maintenance noticeable.



Assessment Ratings

Fair:

Condition is stable to decreasing. Showing signs of wear and degradation, moderately functional but might have some impairment. Some absence of good condition. Past due date of prescribed maintenance. Management needed soon. Should plan for maintenance in near term, but not immediate. Mid part of lifespan. Chronic problems starting to appear.



Assessment Ratings

Poor:

Condition is unstable, decreasing rapidly. Degradation more rapid and significant without intervention. Chronic on-going problems. Immediate management necessary to function. Function is significantly impaired or non-functional. Safety hazard present. Late in lifespan.



Description for Ratings

Drainage and Tread Example

Good

- Trail segment with a stable tread, showing no major signs of soil loss, muddy areas or obstructions; and that allows water to drain.

Fair

- Trail segment shows some signs of tread degradation, that does not fully drain water and / or that includes some moderate damage areas or consistent minor damages (such as erosion areas, channelized tread, muddy areas or obstructions, exposed top of tree roots, protruding rocks to 4") that might affect the trail experience.

Poor

- Trail segment showing on-going degradation, that does not fully drain water, and / or that includes numerous and severe damages (such as erosion areas, channelized tread, muddy areas or obstructions, exposed roots top and sides, protruding rocks 4" and greater) that affect the trail experience.

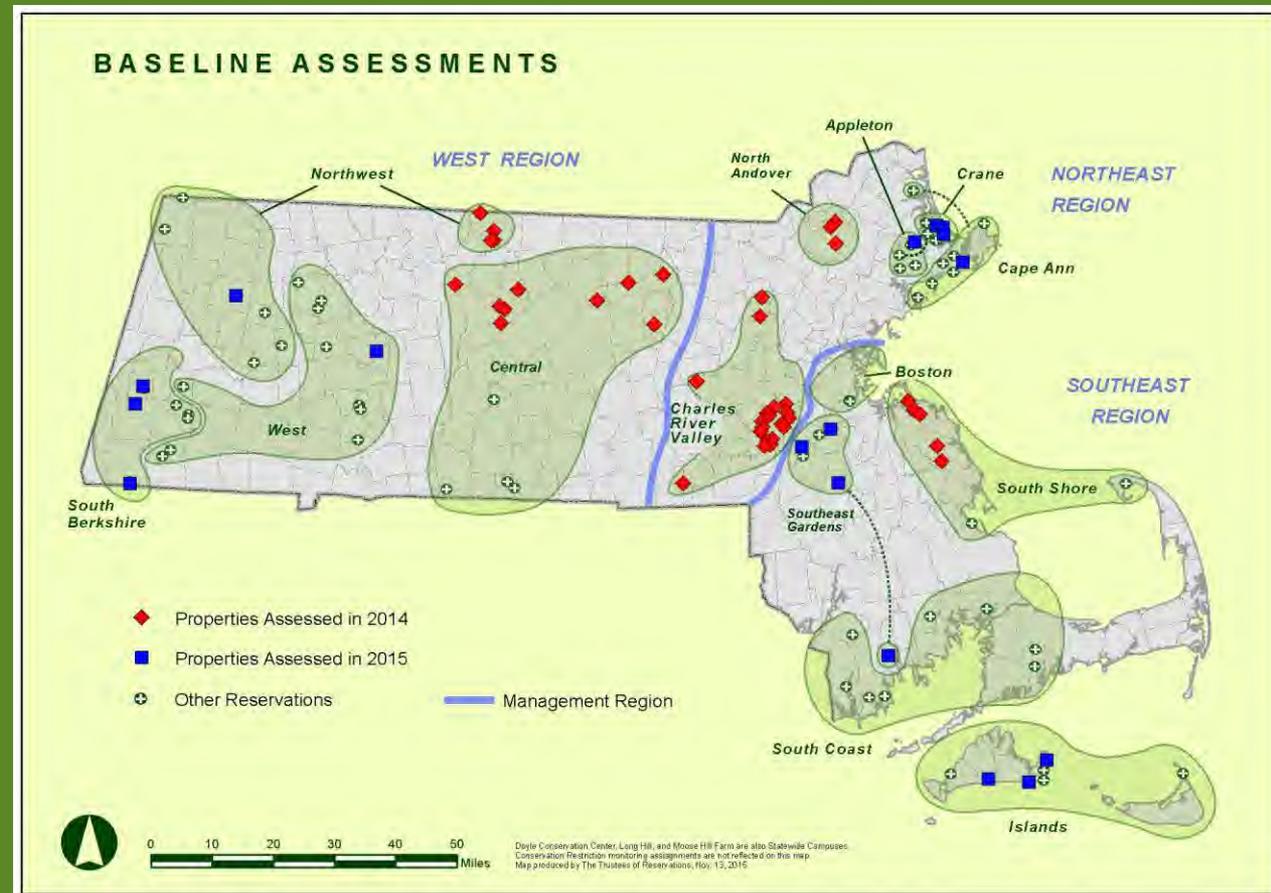
Assessment

Assessed property conditions against baseline standards

Pilot Analysis:

56 Properties

- 241 miles of trails
- 59 entrances



PeopleGIS and Mobile Technology

Building Assessments | Designed Landscape Assess | Eco LU Assessments | Ecology Prop-wide Assess | Entrance Assessments | Trail Assessments | Comm Gardens Assess | Assessments Dashboard | **Map DB Assessments**

Work Orders Dashboard | Map DB Work Orders | Reports | Field Forms

Layers

- Trails DB Rating
 - none
 - medium
 - high
- Entrance DB Rating
 - none
 - medium
 - high

Results Summary

Trails DB Rating

access_id
TNL_05_1192

Detail Information [Go to](#)

access_id	TNL_05_1192
ass_date_readable	2014-10-21
property	Park Factory Brick
trf_id	TNL113
Link	PeopleForm

Base Maps

- OpenStreetMap
- 2011-2012 MassGIS Orthos

Map Interface: About | Layers | Print | Navigation controls (Home, Back, Forward, Full Screen, Print, Refresh)

Map Content: Rocky Woods Reservation, Wartner Farm Trust, Hine Hill 111 m, Cedar Hill 131 m, Main Street, MA 109, and various surrounding roads and landmarks.

http://www.mapsonline.net/tor/assessments_control_panel.php?ssid=5dd1a4c3d390d2d5e183db6d4c773609

Entrance Assessment

Entrance ID

ENTR 5

Property

Greenwood Farm

What is Good / Fair / Poor ?

Entrance Features

Open to visitors

Good

Fair

Poor

Parking area

Good

Fair

Poor

Kiosk

Good

Fair

Poor

Signs and structures

Good

Fair

Poor

Cleanliness and appearance

Good

Fair

Poor

Overall Assessment

Overall assessment of this entrance *

Good

Fair

Poor

Describe problems or add comments

Take Photo

No file chosen

Assessment ID

###

(this field will be filled in when you submit this record)

Entrance Pts

Property

Greenwood Farm

Property ID

PROPTX

Entrance ID

ENTR5

Region

NO T13331

Management Unit

Crane



12/20/12

Tablet Input

Poor Features Appear in Dashboard

Building Assessments | Designed Landscape Assess | Eco LU Assessments | Ecology Prop-wide Assess | Entrance Assessments | Trail Assessments

Comm Gardens Assess | **Assessments Dashboard** | Map DB Assessments | Work Orders Dashboard | Map DB Work Orders | Reports | Field Forms

Dashboard Settings
Dashboard Forms
Dashboard Filters

Sort by Property (Ascending) ▾

Only show items from the selected forms:

- Designed Landscape Assessment
- Entrance Assessment
- Building Assessment
- Eco LU Assessment
- Trail Assessment

Show entries that match Rating:

- high
- medium

Show entries that match Property:

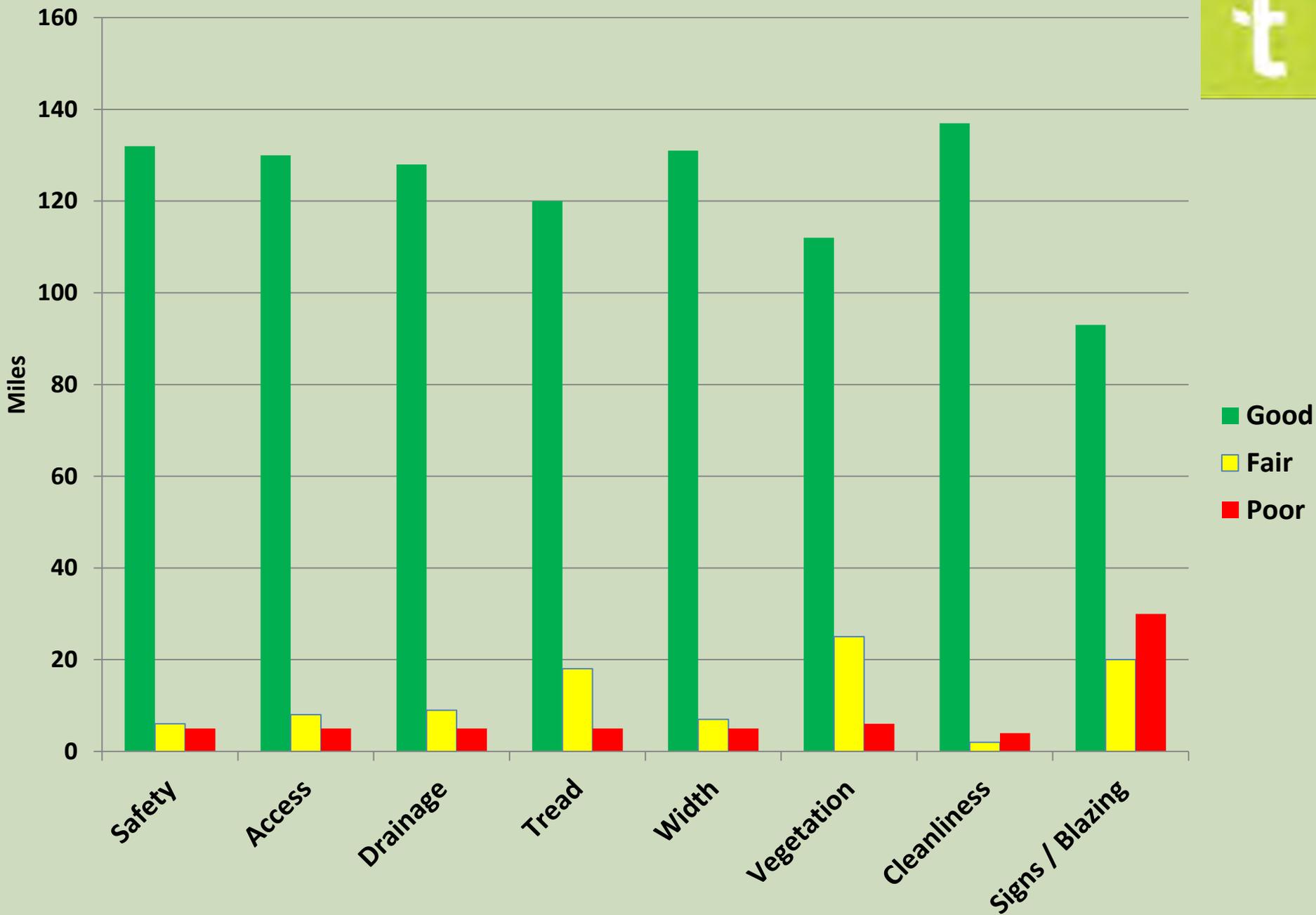
- Cormier Woods
- Doyle Reservation
- Elliott Laurel
- Old Manse
- Powisset Farm
- Swift River Reservation
- TEST
- World's End

Bear's Den	Status: (work order required)	
Age: 205 days	Assessment Type : entrances	Rating : high
Brooks Woodland Preserve	Status: (work order required)	
Age: 198 days	Assessment Type : entrances	Rating : high
Brooks Woodland Preserve	Status: (work order required)	
Age: 208 days	Assessment Type : entrances	Rating : high
Cormier Woods	Status: (work order required)	
Age: 181 days	Assessment Type : entrances	Rating : high
Doane's Falls	Status: (work order required)	
Age: 210 days	Assessment Type : entrances	Rating : high
Elliott Laurel	Status: (work order required)	
Age: 198 days	Assessment Type : entrances	Rating : high
Jacobs Hill	Status: (work order required)	
Age: 197 days	Assessment Type : entrances	Rating : high
Malcolm Preserve	Status: (work order required)	
Age: 188 days	Assessment Type : entrances	Rating : high
North Common Meadow	Status: (work order required)	
Age: 198 days	Assessment Type : entrances	Rating : high
TRL_AS_1421	Status: (work order required)	
Age: 367 days	Property : Naanet Woodlands	Rating : medium
TRL_AS_685	Status: (work order required)	
Age: 409 days	Property : Charles River Peninsula	Rating : medium
TRL_AS_1006	Status: (work order required)	
Age: 384 days	Property : Naan Hill	Rating : medium

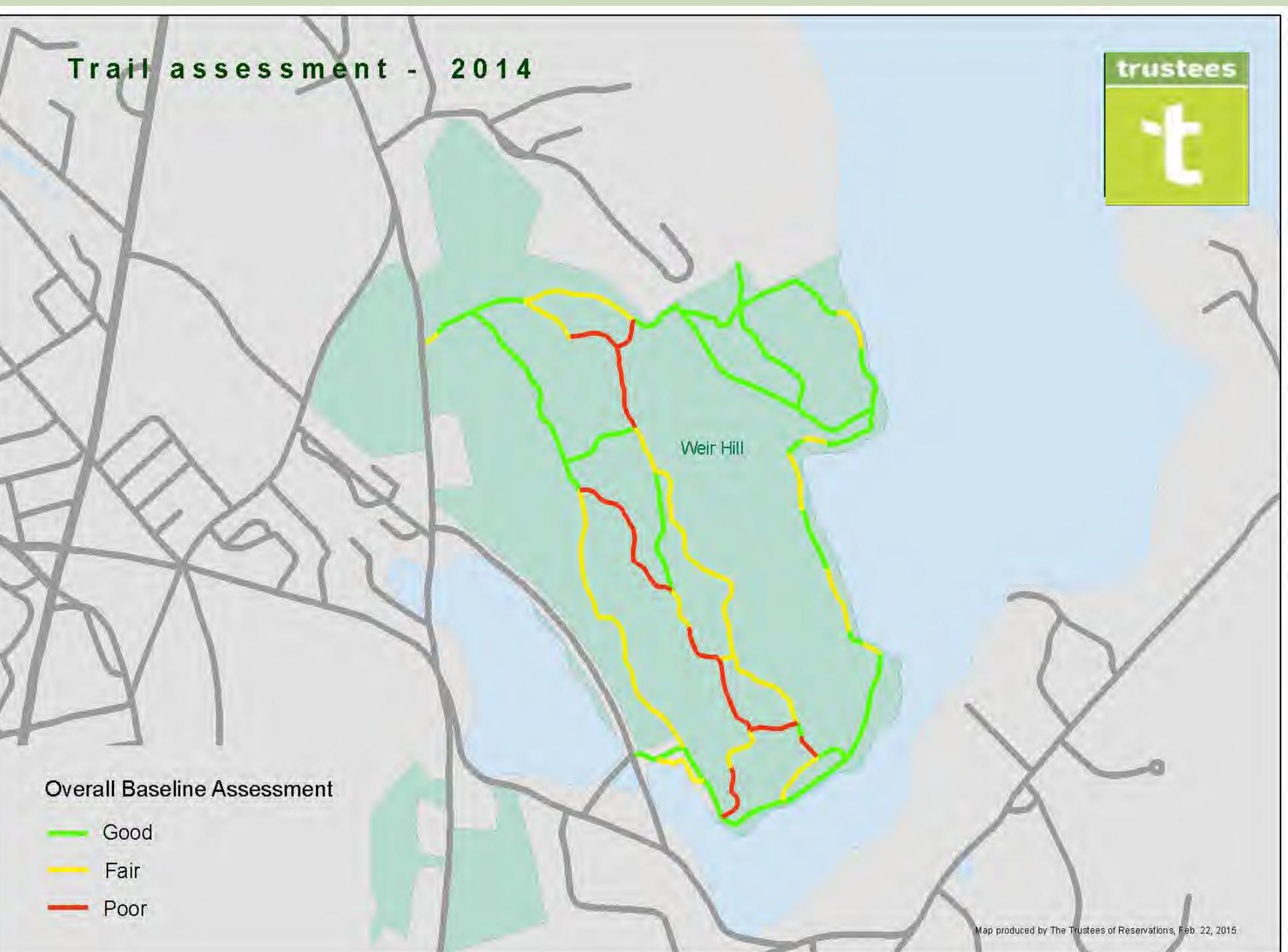
Filters



Trail Feature Ratings



Trail assessment - 2014

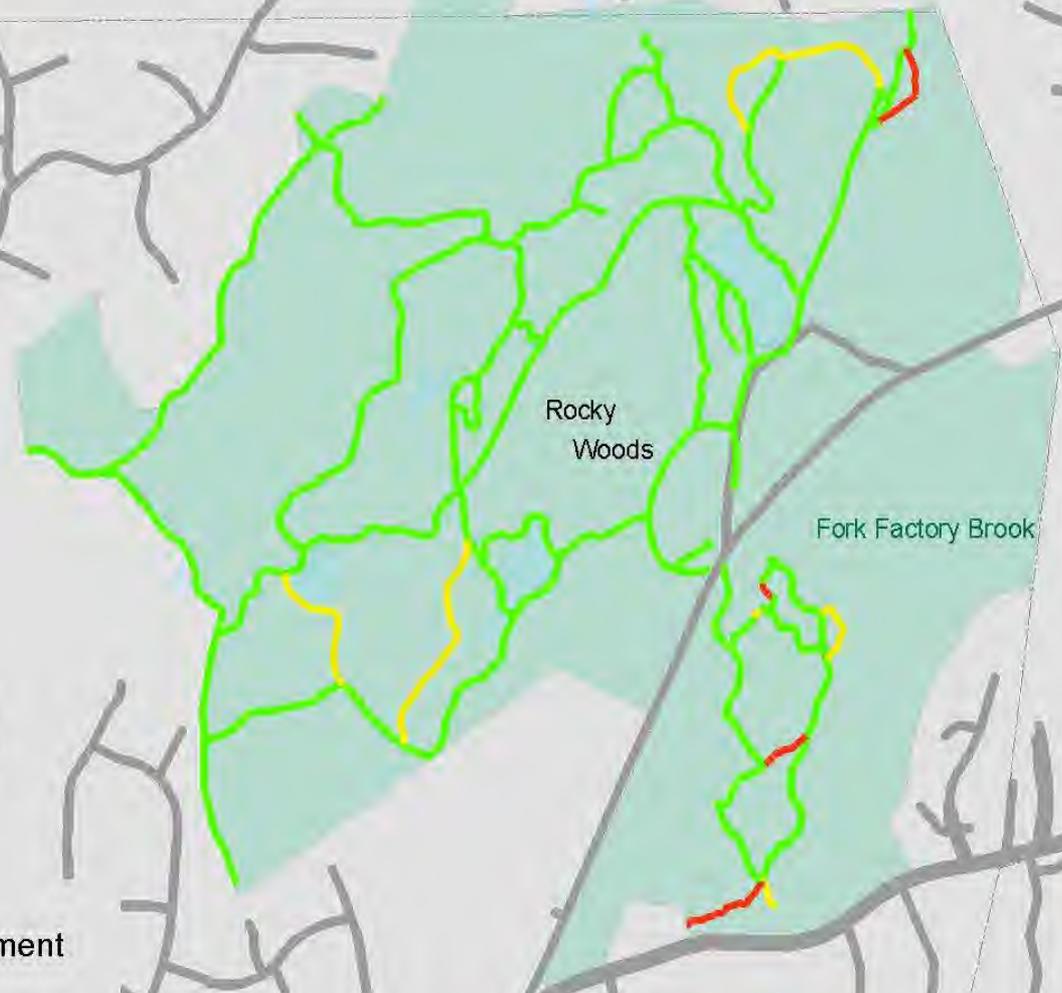


Weir Hill

Overall Baseline Assessment

- Good
- Fair
- Poor

Trail assessment - 2014



Overall Baseline Assessment

-  Good
-  Fair
-  Poor



Scoping Work Orders

Work Order Number

Property

Assessment ID

Scope

Property System / Assessment Category

Entrance Work Addressed

- Open to visitors
- Kiosk
- Cleanliness and appearance
- Parking area
- Signs and Structures
- Other

Project Description

Regrade and pave existing roadside parking pull-off. Rough gravel pull-off collects ice in winter. Can be dangerous. Town approval has already be give (see attached).

Project Manager (email address)

Extra Notes

Approx. 1,500 sq. ft. @ \$4/ft = \$6,000

Labor Source

- Staff
- Contractor
- Volunteer
- Partner Organization

Percent Contractor

- In-House
- >50% In-House
- <50% In-House
- Outsource

Estimated Cost (no dollar sign)

Estimated Staff Hours (whole hours)

Expected Fiscal Year (ex. 2016)

Estimated Funding Source

Upload Documents (will be linked to Work Order)

 No file chosen

View Related Documents

- TOWN APPROVAL_09-2015

Date Work Order Issued:

View Related Assessments

- ENTR_AS_6

Record: 1 of 6 of 6



