A Conservation Toolbox from the "RICSC"

with contributions from David Gregg (RINHS), Scott Ruhren (ASRI), Rupert Friday (RILTC), Carol Trocki, and Pete August,

plus updates on the <u>RI Conservation Stewardship Collaborative</u>





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THE UNIVERSITY OF RHODE ISLAND DEPARTMENT OF NATURAL RESOURCES SCIENCE



inhs.org

Rhode Island Conservation Stewardship Collaborative (RICSC) Founded 2007



CSC Mission:

To advance long-term protection and stewardship of terrestrial, aquatic, coastal, estuarine, and marine areas in Rhode Island that have been conserved by fee, easement, or other means.

R. I. Conservation Stewardship Collaborative (www.ricsc.org)

- Money and Attention for Land already in Conservation
- Collaborative Model with Seven Partners
- Funding Mechanism (\$2 mil at RI Found.)
- Able to Tackle Bigger Issues







© 2007 Rhode Island Natural History Survey

WE INTERRUPT THIS PRESENTATION WITH AN URGENT MESSAGE THERE IS AN INVASIVE INSECT APPROACHING RHODE ISLAND

RESIDENTS SHOULD BE ON THE LOOKOUT

• • • • • •

THIS IS NOT A TEST...



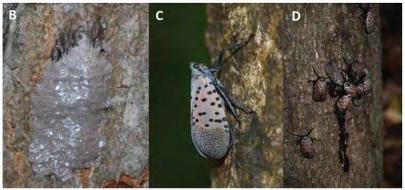


Photo courtesy: Lawrence Barringer, Pennsylvania Department of Agriculture

- A. 1st-4th insta with wings
 B. Egg masse covered in
 C. Lateral view
- D. Adult cong plant sap c





www.dem.ri.gov/pestalert

D. Adult cong plant sap c



WE NOW RETURN YOU TO YOUR REGULARLY SCHEDULED PROGRAM

Youth Conservation League



Preparing tomorrow's conservationists since 2010

Youth Conservation League

"...provides hands-on environmental stewardship and learning opportunities to youths while completing important and needed conservation and natural resource management work."

(Mission Statement 2010)







Protecting and Restoring Habitats



Wildlife Protection



Wildlife Protection



Trail Maintenance



Trail Maintenance



Trail Maintenance



Invasive Species



Invasive Species



Tales from the front...









Want to work for YCL this summer (crew and supervisors)?



2020 applications coming soon at www.asri.org

YCL and your land trust? "Crew in Your Community"



- Full-day, crew of 8, working alongside your land trust
- Raffle for a free CIYC day!

What next?

Is your land trust interested?

Contact me:

Scott Ruhren, Senior Director of Conservation – Audubon Society of Rhode Island

sruhren@asri.org



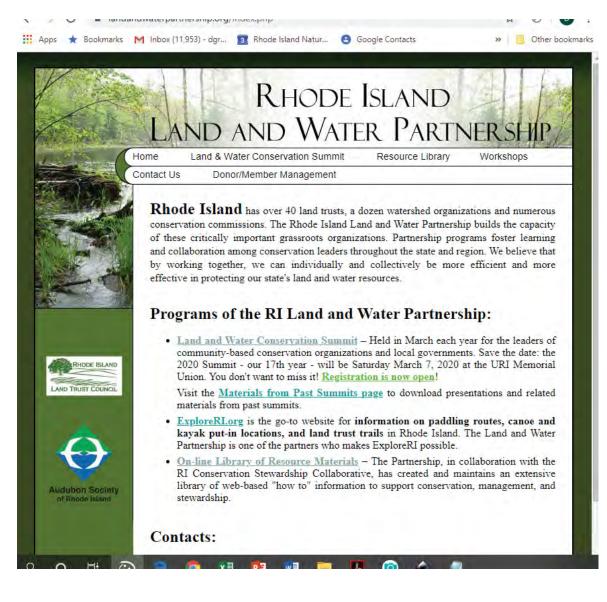


Other CSC-funded Resources:

- Land & Water Partnership Resources Library
 - Baseline Document Reports (BDR)
 - o Management Plans
 - o Monitoring Reports
- Natural History Survey Web Resources
 - o Invasive Plant Strategies
 - o Ecological Community Classifications (RIECC)
 - o Indicators of Biodiversity Value Rapid Assessment
 - o Rare species (natural heritage) data
- GIS resources via URI Environmental Data Center
 - o ArcGIS compendium of map layers
 - o Field navigation, mapping, and data collection

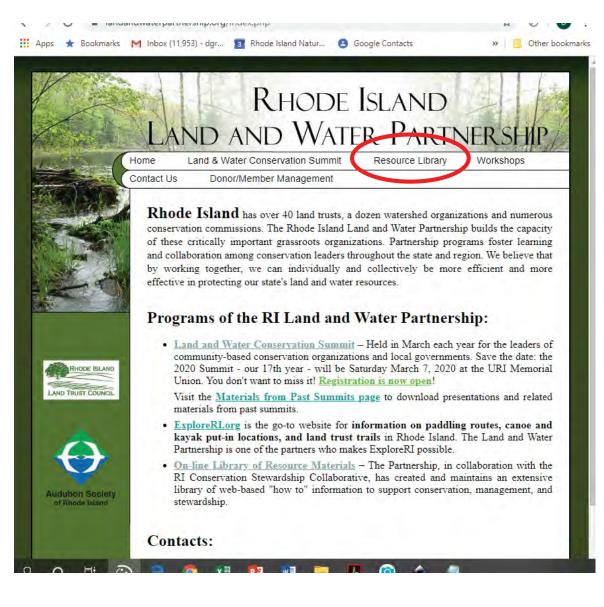
Rhode Island

Land & Water Partnership



Rhode Island

Land & Water Partnership



Excel document, make sure to save it to your own computer if you want to edit it. Changes you make will be lost if you do not save a copy of the document to your own computer.

If you have suggestions or have documents you would like to contribute, please contact us!

- Baseline Documentation/ Property Inventory/Mapping Resources
- **EXAMPLE 1** Clean Up Projects
- **Donor/Member Management Materials (incl. Salesforce Tip Sheets and Recipes)**
- **Easement and Property Monitoring**
- 🕂 Forest Management
- **Funding & Technical Assistance**
- 🕂 General Land & Water Conservation
- Ŧ Habitat Restoration
- Invasives
- 🕂 Management Plans
- 🕂 Safety Information
- 🕂 Signage

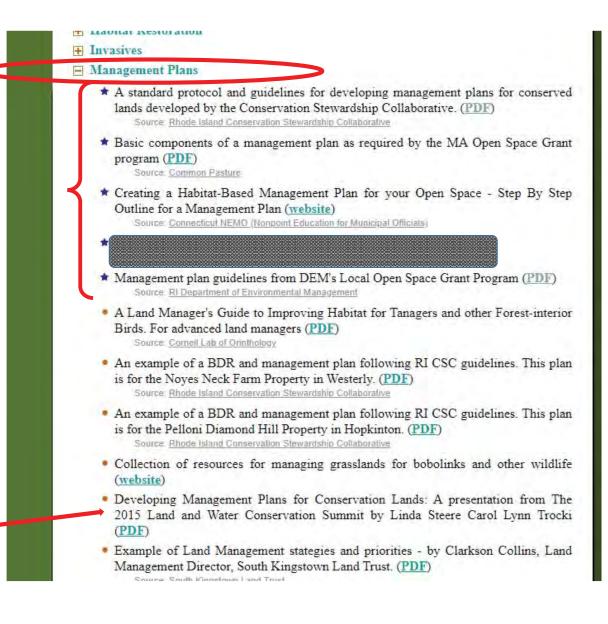
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- **+** Species ID
- 🕂 Trails Land
- 🛨 Trails Water
- ➡ Volunteers & Volunteer Management
- **H** Waivers
- **•** Water Quality Monitoring

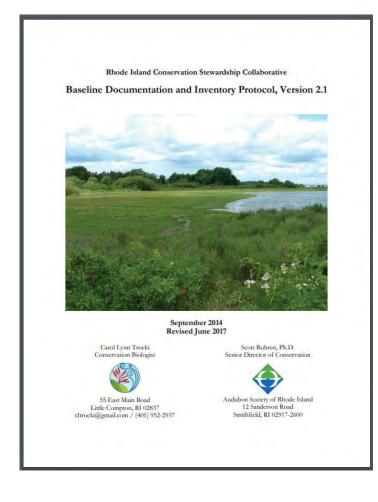
Resources made available at this website have been provided in the spirit of networking among our nonprofit organizations in an effort to inform each other of new developments, best practices and to generally spare each other from 'reinventing the wheel.' In some cases, links are provided to copyrighted websites. Please contact that website's organization for any



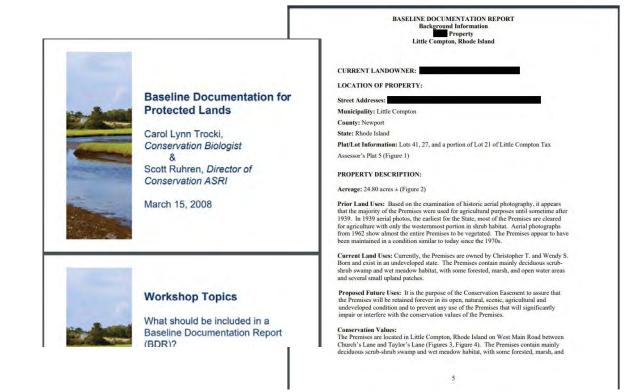
If you have suggestions or have documents you would like to contribute, please contact us! bon Society Baseline Documentation/ Property Inventory/Mapping Resources + Clean Up Projects Donor/Member Management Materials (incl. Salesforce Tip Sheets and Recipes) Easement and Property Monitoring Annual Monitoring Checklist Protocol (PDF) Source: Rhode Island Conservation Stewardship Collaborative Annual Monitoring Checklist Template (Long Form) (Word)(PDF) Source: Rhode Island Conservation Stewardship Collaborative Annual Monitoring Checklist Template (Short Form) (Word)(PDF) Source: Rhode Island Conservation Stewardship Collaborative A Guide to Conservation Easement Monitoring: frequency, scheduling, procedure, follow-up (PDF) Source: Mid-Atlantic Regional Partnership Committee Annual Property Monitoring Report Form (Word)(PDF) Source: Barrington Land Conservation Trust · Avoiding, Enforcing, Defending: What Should You Know About Dealing With Conservation Easement Violations? A presentation from the 2014 Land and Water Conservation Summit by Carol Lynn Trocki, Chuck Allott, and Greg Schultz (PDF) Basic map and compass skills (PDF) Source: New Hampshire Office of Energy and Planning Easement monitoring checklist (PDF) Source: New Hampshire Office of Energy and Planning Form to update your Stewardship Volunteers' Information (Word)(PDF) Source: Barrington Land Conservation Trust How to read a survey plan by the Aquidneck Land Trust (PDF) Source: Aquidneck Land Trust Informational booklet given to landowners of Conservation Easements (PDF) Source: Little Traverse (Michigan) Conservancy Land Trust Alliance National Standards for Monitoring: Practice 11C: Easement Monitoring (PDF) Source: Land Trust Alliance



Baseline Documentation Report ("BDR")



Carol Lynn Trocki 2017 (ver. 2.1) with Scott Ruhren



Ecological Inventory and Management of Protected Lands

NRS 567

3 seminars: 2016, 2018, 2020
49 URI students
participate in board meetings

& special events w/ land trusts

32 BDR's so far, more coming

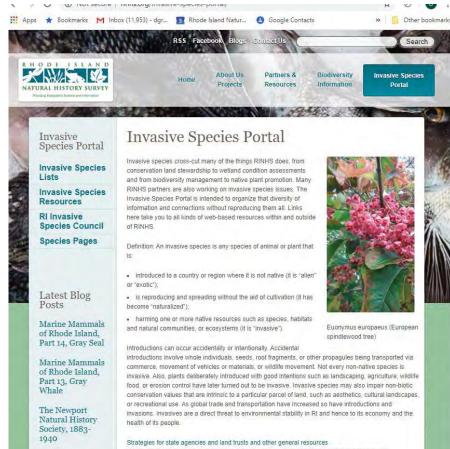
PARTICIPATING LAND TRUSTS

Barrington Land Conservancy Trust Cumberland Land Trust Scituate Land Trust Bristol Land Conservancy Trust Smithfield Land Trust Weekapaug Foundation for Cons. Westerly Land Trust Glocester Land Trust Narrow River Land Trust Land Conservancy of North Kingstown Foster Land Trust Richmond Rural Land Trust Tiverton Open Space Commission Foster Land Trust South Kingstown Land Trust Hopkinton Land Trust



DEPARTMENT OF NATURAL RESOURCES SCIENCE

rinhs.org/invasive-species-portal/



Pages by species for identification, current status, and recommended management techniques Need help with an unknown organism or or want to report a find in Rhode Island? Contact us.

Where Rhode



Invasives Preparedness for Land Stewards

Handout for 2014 Land and Water Conservation Summit, March 8, 2014, Memorial Union, University of Rhode Island, Kingston,

by Hope Leeson and David W. Gregg

Abstract:

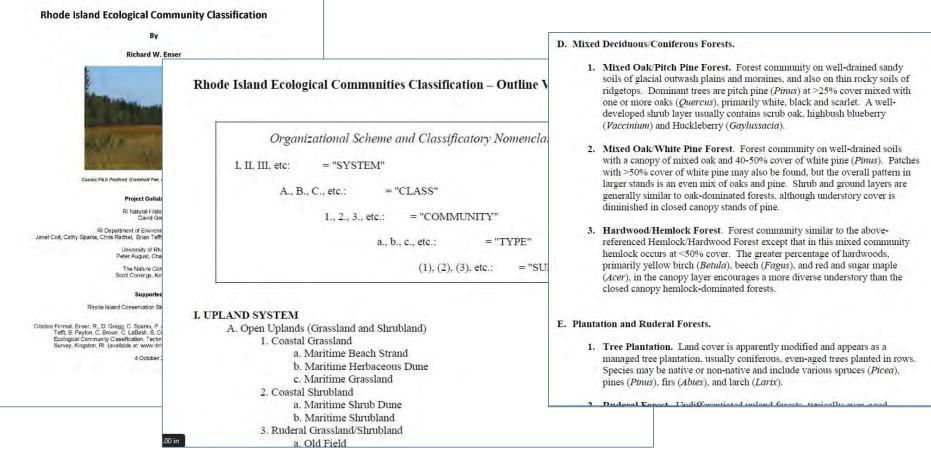
Every day, it seems, there are new invasive species threats, new research on their ecological effects, and new developments for their control. **Don't let the flood of information paralyze you into inaction.** For local groups managing conservation land, the situation won't be improved by delay and there are plenty of practical steps to take to improve your group's invasive species preparedness and to begin responding to existing problems. We prepared this handout to encourage good strategic invasives preparedness and practical invasives monitoring and control activities that you can initiate to affect the situation on the ground. Emphasis will be on plants and on key elements of an invasives strategy, simple first steps for monitoring and control, and resources available on the web and elsewhere.

Visit RINHS at www.rinhs.org or facebook.com/rinhs. See RINHS videos on invasive control at youtube.com/rinaturalhistory

Summary:

- 1. What are invasive species and why is invasive control important?
- 2. Invasive Preparedness Strategy Outline
- 3. The Easy Eight--eight species even a beginner can take on
- 4. The Secondary Six--six species that require a little more effort
- Seven things your group can do this year to improve your invasive preparedness





http://rinhs.org/wp-content/uploads/2012/05/RIECC-Final.pdf

Rapid Assessment of Biodiversity Value

(available on the RINHS publications webpage)

ver. 5 (11/13/2019)

Indicators of Biodiversity Value Checklist for Rhode Island

by

David W. Gregg, Ph.D., for Rhode Island Natural History Survey.

INTRODUCTION:

Conservation of "biodiversity" is a frequently expressed goal of land conservation and so methods for assessing biodiversity are an important part of initial prioritization of land acquisition as well as of ongoing conservation land monitoring For the present purposes, biodiversity is an informal label that can include the presence of rare species or rare natural communities, unusually high species richness, or unusually high habitat heterogeneity.

Two traditional methods of biodiversity assessment focus either on predicting species richness with models composed of indicators or on using taxonomic experts who either document species directly or predict their presence based on subjective, qualitative evaluation of the site. At the timinal and a floor land timet activity in Dhade Island any new els between 10

and 100 ac expensive expensive path?

USERS GUIDE:

Ext or intuitive potential. decision-m

ald be more t in the field is This tool-this Rapid Assessment Method (RAM)-is intendhere another quick overview of the character and features present on a piece of lan

potential for supporting higher (or lower) than average species biodiv contributing significantly to the species biodiversity of its surroundin site subjectively of Rhode Island as a whole. tors of that vards or

This RAM is not intended to produce comprehensive or exhaught after just a light and quick in order that USERS can get at least basic coverage of assessments might be used to prioritize subsequent work which migh assessments or other more technically sophisticated surveys. Cumula state they would represent an inventory of certain notable features on

The target USER is the scientifically literate land trust volunte training that includes review of this GUIDE. It is understood that man

	Score: 0 = not present 1 = pre 3 = THE major feature h	sent/deteo ere	ctable N/A = w		substantia o data	l feature h	ere
	Add notes to cells to indicate what you're seeing that makes you give it a particular score						
	E. Terrestrial Habitat Features	1	2	3	4	5	6
	i) extremely steep slopes (>50°)	101.0			1.000		100
	ii) boulders/ledge/cliff/scree			1 1			-
	iii) hilltop/eminence (bare or wooded)	1					
	iv) event- or process-dependent community	1	0				
	(1) fire (e.g. pitch pine/scrub oak, barren)	1		1	1		10.00
	(2) pasture/hay/meadow						
	(3) early successional habitat/shrubland (still having non-forest character)						
	(4) storms/flooding (e.g. beaver meadow, seasonally exposed pond shore, wind exposure)						
	(5) sunny mineral soil/sand/beach/dune	1.55		i	1		10 G
	v) edge habitat/transition zone	-					
	vi) pollinator habitat (concentrations of flower sources, nest sites totaling >0.25 acres)						
	vii) noteworthy trees	1	0	())			
	(1) closed forest canopy			11	1		10.0
	(2) large/old trees						
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SE—*Eupatorium novae-angliae* New England boneset



SC—*Asclepias tuberosa* orange milkweed



RARE SPECIES (a.k.a. "heritage" species) in RHODE ISLAND

SE—*Crocanthemum dumosum* bushy frostweed, bushy rockrose



ST—*Desmodium sessilifolium* sessile-leaved tick trefoil



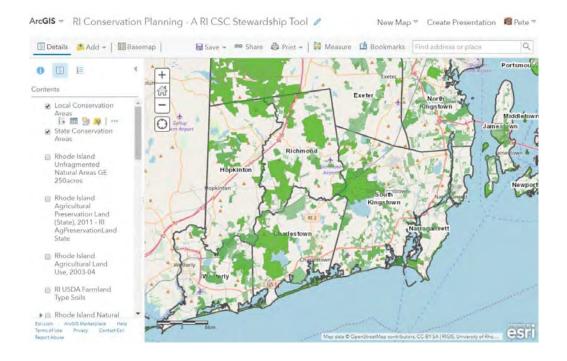
Rhode Island Natural Rare Plant Element Oc RINHF is established parama (RIGL 20.1220.37, sites alse) acreement among RI Natural, The Nature Conservance, and	OPERCEVEN ONLY. Daw Rendwal / / / / / / / / / / / / / / / / / / /			
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Observed By: Observer's Address: Observer's Email Address:		ation Date:	Today's Date:	
Approximate Time Spent at Site: Site Name: Town:		USGS Topo Name:	-	
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Desmodium sessilifolium Herbarium specimen collected here in 1914, no more recent record



CSC Conservation Stewardship Mapping Tool



http://tinyurl.com/CSC-Cons-Mapper

Easement Monitoring Tools



"That Property Line Should Be Near Here....."

Challenges

- Navigation to property boundary
- Consistent records
- Integrate photos
- Data sharing

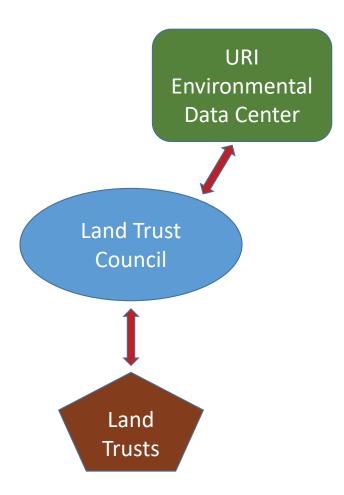
Easement Monitoring Tools

Solution

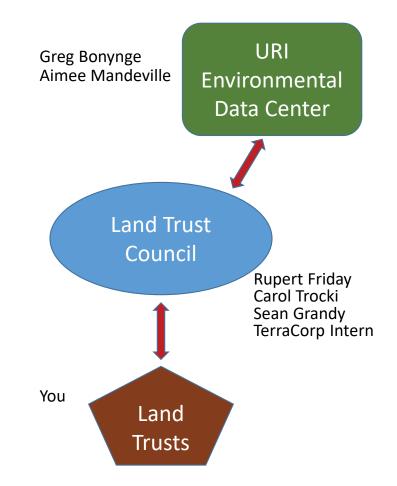
- iPad-based data collector
- Enhanced GPS accuracy
- Standardized input fields
- ArcGIS cloud storage



The Pieces and Players



The People



How it Works

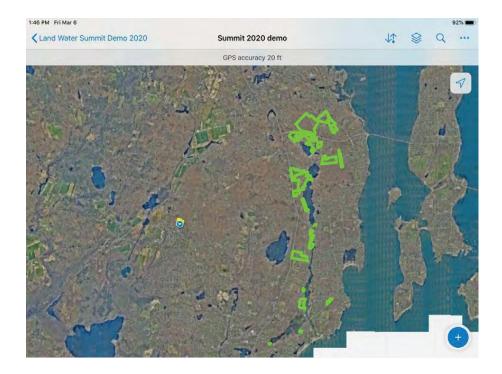




- URI EDC creates user account for LT
- TerrCorp Tech creates iPad app that includes parcel boundaries
- TerraCorp Tech provides system instructions to LT staff
- LT uses iPad and GPS for easement monitoring
- Returns hardware to LT Council
- Review data and reports using an online mapping app

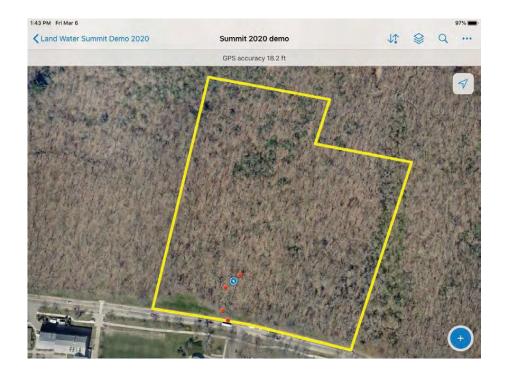
How it Works

Properties to Monitor



How it Works

Property Boundary

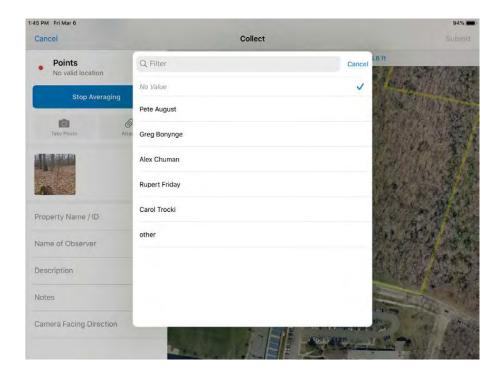


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Name of Observer Greg Bonynge	Storage	and all a sea
Description	Vandalism	A STATES
	Boundary Line	
Notes	Point of Interest	the state of the second
Camera Facing Direction		to management where the state
		Contraction and a fight

Add Photos and Metadata





Sending to the Cloud



- All of your work is stored on the iPad until...
 - the iPad is connected to a wifi network and,
 - the Land Trust re-opens Collector and deliberately syncs the iPad with ArcGIS Online.

Viewing Data

ArcGIS Online



Viewing Data



Attributes

Images



Reporting

Description (Grouped Counts)

COUNT	Construction/New Improvement	Mowing or Vegetation Removal	Natural History Observation	Point of Interest	
5	1	1	1	2	

Description

Property Name / ID	Name of Observer	Camera Facing Direction	Description	Notes downed tree interesting rock construction flagging	
	Greg Bonynge	Northwest	Mowing or Vegetation Removal		
	Greg Bonynge	West	Natural History Observation		
	Greg Bonynge	East	Construction/New Improvement		
	Greg Bonynge	All (NESW)	Point of Interest	fire hydrant	
	Greg Bonynge		Point of Interest	stone wall	

Easement Monitoring Tools

Conclusions

- CSC investing in tools to assist conservation land management
- Need Land Trust participation and suggestions
- Solution is an evolution, not a 1-time fix

RICSC has you covered:

- 1. Pre-acquisition assessment
- 2. Baseline Documentation Report
- 3. Management Plan
- 4. Monitoring

www.tinyurl.com/ricsctools

http://tinyurl.com/csc-cons-mapper (editor's pick!)



Contact Us Donor/Member Management

Overview Materials from Past Summits

Land & Water Conservation Summit

The 17th annual Summit will be held on Saturday March 7, 2020 at the URI Memorial Union. You don't want to miss it!

Keynote address by Dr. Mamie Parker, former head of Fisheries and Northeast Director at the US Fish & Wildlife Service - A Change in Climate - Preparing the Next Generation with Passion, Inspiration and Excellence. Dr. Parker is widely known as a motivational in inspirational speaker. <u>Read more about Dr. Parker</u>.

The Land and Water Conservation Summit is an annual day long conference held on a Saturday in March. Developed to meet the needs of land trusts, watershed organizations and municipal

conservation commissions, the Summit offers dozens of hands-on workshops designed to enhance technical and organizational effectiveness. Workshops are taught by experts from throughout Rhode Island and cover topics essential for watershed management, land conservation, and organizational development.

Since it began in 2004, the Summit has annually attracted over 300 leaders from throughout Rhode Island for a day of learning and networking. Local conservation leaders come from all walks of life - banking, industry, academia - and are preeminent leaders from throughout the state. The Summit presents an unsurpassed opportunity to network with people who are both passionate about the state's natural resources and outstanding community and state leaders.

Click on the links below for workshop descriptions and registration.

Summit Workshops

IODE ISLAND

LAND TRUST COUNCIL

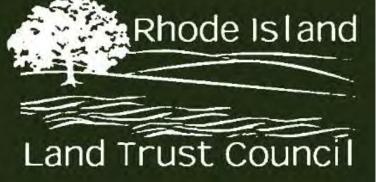
RIEEA

- 2020 Summit at a Glance (pdf format)
- 2020 Full Program (pdf format)
- Online and mail-in registration is no longer available but walk-up registrations on the day of the summit are welcome.



FE

- 35





exploreRI.org—

now reformated for smart phones

State map showing:

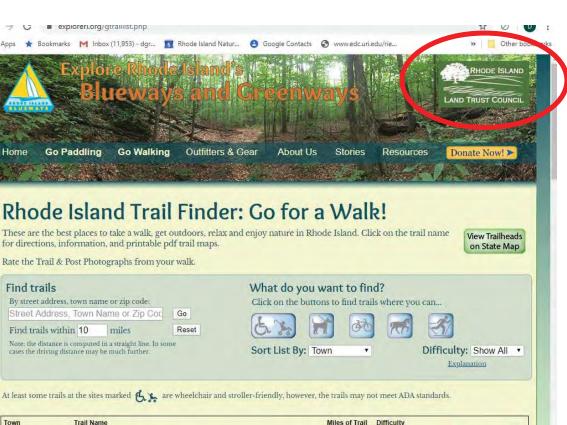
- trailheads and trailhead parking
- boat ramps and put-ins
- accessibility
- dog/bike/horse/ski

Site maps

- links to outfitters
- links to organizations
- stories

Tie-ins

- environ. ed. programs
- pediatricians



Town	Trail Name	Miles of Trail	Difficulty		
Barrington, RI	Osamequin Nature Trails and Bird Sanctuary: 'First Bird' Trails	1.5 miles	easy	Ħ	À
Barrington, RI	Osameguin Nature Trails and Bird Sanctuary: 'Second Bird' Trails	0.5 miles	easy	Ħ	3
Barrington, RI	Veterans Memorial Park - Eastern Side	2.5 miles	easy	A 90	3
Bristol, RI	Claire D. McIntosh Wildlife Refuge/Environmental Education Ctr.	0.8 miles	very easy		\$
Bristol, RI	Mount Hope Farm	2.5 miles	easy - very easy	A 40	
Bristol, RI	Perry Tavares Farm Conservation Land	2 miles	moderate	A 40	3
Burrillville, RI		1.2 miles	very easy	A 40	3
Charlestown, RI	Ninigret National Wildlife Refuge	6 miles	moderate - verv easy	¥	-X

exploreRI.org—

now reformated for smart phones

State map showing:

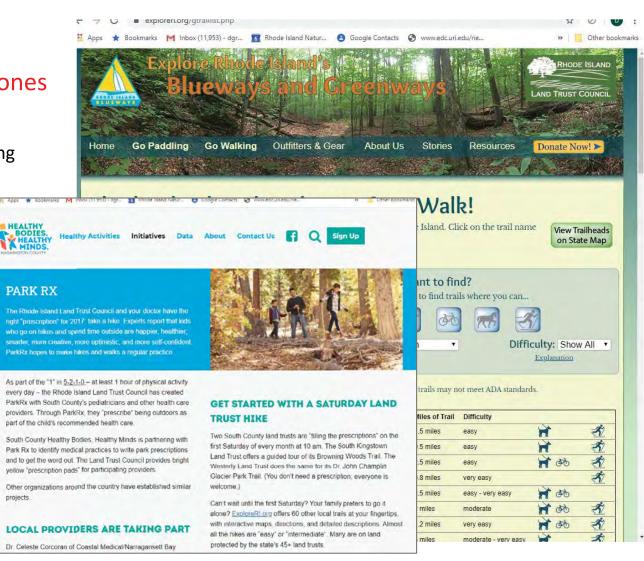
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CSC Projects 2019

CSC 2019 Project Proposals	2019 Distribution	Final - including repurposed funds
CSC Proposal 2019 Planning for Terra Corps - RILTC	\$2,340.00	\$2,340.00
CSC Proposal 2019 Land Water Summit-ASRI	\$2,500.00	\$2,500.00
CSC Proposal 2019 Pollinators- ASRI	\$7,784.00	\$7,784.00
CSC Proposal 2019 State Policy - RILTC	\$20,000.00	\$20,000.00
2019 URI Stewardship Interns - RINHS	\$9,056.00	\$16,070.00
Youth Conservation League 2019 - ASRI	\$22,000.00	\$22,000.00
CSC Proposal 2019 RINHS Capacity Building - RINHS	\$25,000.00	\$25,000.00
CSC Proposal Heritage Data 2019 - RINHS	\$9,900.00	\$12,400.00
TOTAL for all proposed projects	\$98,580.00	\$108,094.00













CSC Projects 2020

CSC 2020 Project Proposals		2020 Distribution		ollover of nspent '19
CSC Proposal 2020 Terra Corps - RILTC	\$	2,000	\$	1,000
CSC Proposal 2020 Land Water Summit-ASRI	\$	2,500		
CSC Proposal 2020 State Policy - RILTC	\$	20,000		
2020 URI Seminar on BDRs - RILTC	\$	8,400		
Youth Conservation League 2020 - ASRI	ion League 2020 - ASRI \$ 26,000			
CSC Proposal 2020 RINHS Capacity Building - RINHS	\$	25,000		
CSC Proposal Heritage Data 2020 - RINHS	\$	3,357	\$	2,067
CSC Proposal Forest Stewardship Planning - RIDEM	\$	12,000		
CSC Proposal 2018 Hab_Restoration_SpadefootToad - RINHS			\$	3,386
CSC 2018 Marketing and Website Development - RINHS			\$	1,796
TOTAL new funds for projects		\$99,257		\$8,249.00
TOTAL incl. Rollover		\$107,506		

The Nature Conservancy Protecting nature. Preserving life."

SUMMARY



- Look for RFPs for YCL
- Check out the Resource Library

at the Land & Water Partnership website

- Check out publications and invasive resources at the Natural History Survey's website
- Sign your land trust up to use ArcGIS online maps and the new field mapper equipment
- Overwhelmed? All the resources we discussed today and more are listed on the handout sheet

www.tinyurl.com/ricsctools

How can you get involved in the CSC?

- Through member organizations (see below)
- Participate directly in funded projects
- Watch for RFPs for pilot projects
- Give to the RICSC endowment at the RI Foundation

More discussion on RICSC?

