

TETON REGIONAL LAND TRUST

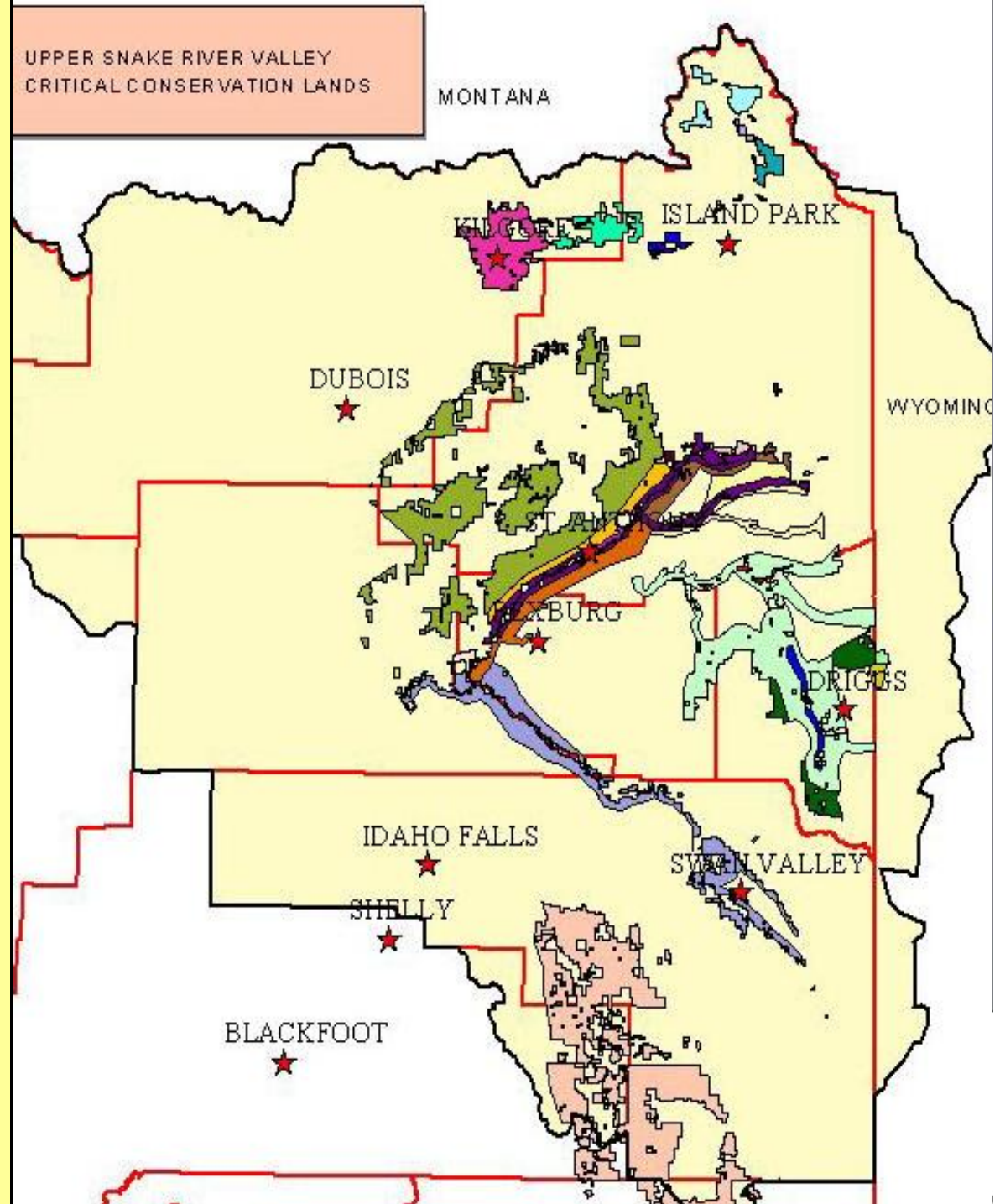
Ecological Monitoring in the Upper Snake River Watershed

National Land Trust Rally September 21, 2008

Matt Lucia, Wildlife Biologist

Priority Natural Elements Dependent on Private Lands in the Upper Snake River Watershed

- *Key Riparian and Wetland Habitats*
- *Big Game Winter Range and Transitional Habitat*
- *Yellowstone Cutthroat Trout*
- *Forest Carnivores*
- *Sage and Sharp-tailed Grouse*
- *Waterbirds*



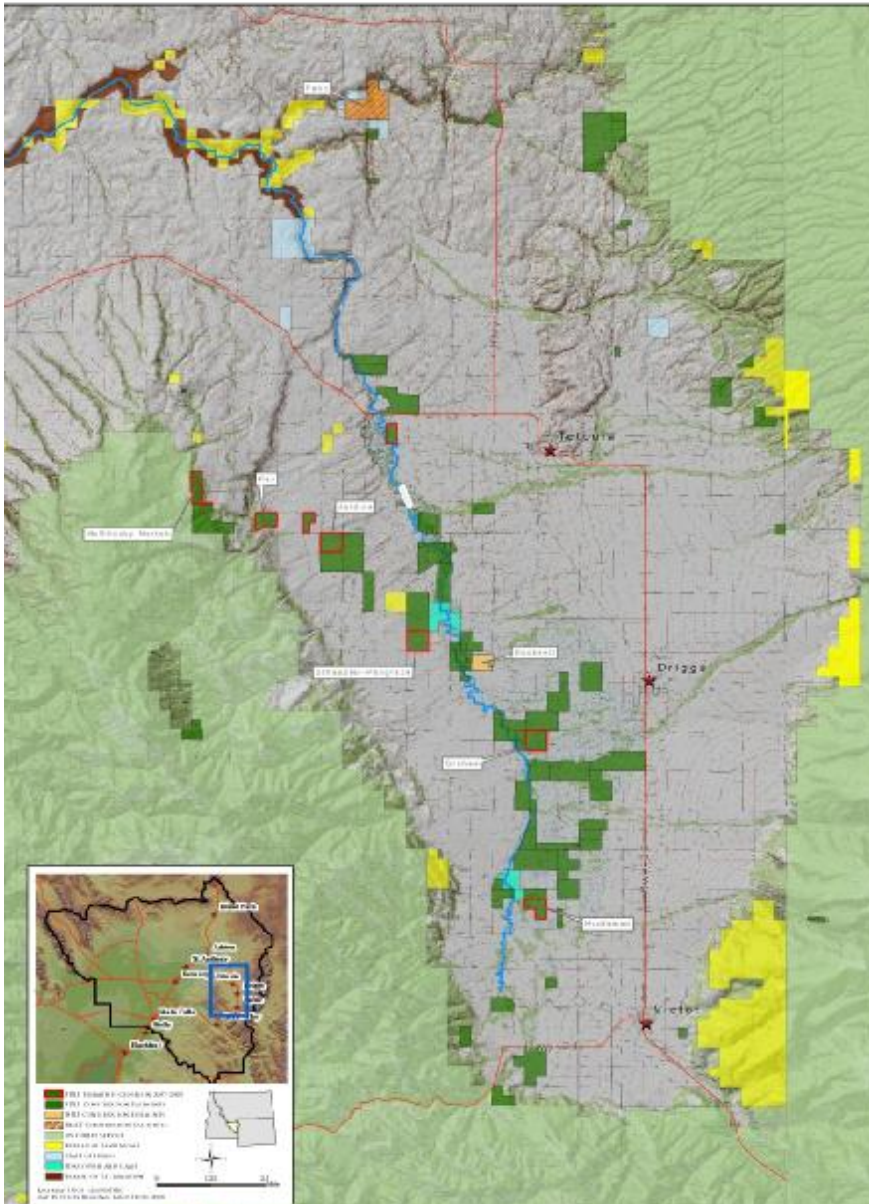
Why Ecological Monitoring?

- **Mission-outstanding ecological resources**
- **Enhances conservation-TRLT is an outcome-oriented organization (many funding partners require outcomes -NAWCA, LIP, NFWF)**
- **Empowers fundraising from grants and donors**
- **Informs ongoing conservation planning**
- **“Serves as the backbone of effective adaptive management (stewardship)” (*Conservation Measures Partnership, 2004*)**
- **Enhances partnership/landowner relationships**
- **Supports protection of conservation values on easement properties**



Protected Lands Summary

TETON BASIN PROTECTED LANDS



- **25,000 acres protected**
(Over half of protected lands in Ag)
- **River corridor focused**
- **Conservation Focal Areas are IBAs**
- **Includes some large contiguous habitat complexes**
- **Extensive investment in habitat restoration and enhancement**

Elements of Ecological Monitoring

Programmatic (Core) efforts that support refined ecological knowledge

- (1) Annual Stewardship/Resource
Monitoring*
- (2) Vegetation Monitoring*

Strategic ecological monitoring

- (1) Redd monitoring*
- (2) Bird Monitoring*



Stewardship/Resource Planning Matrix



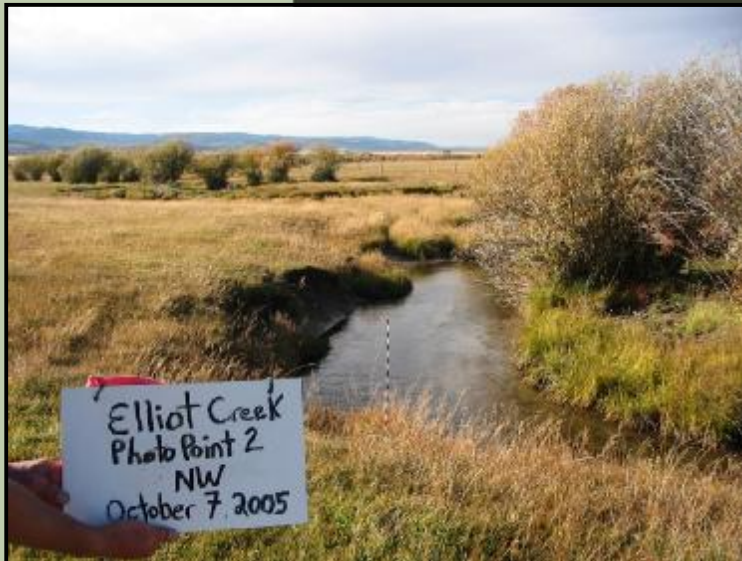
Late May	TDM/RAC	JR	JG	Noxious weeds
Late April	JRK/RAC	JR	DM	Ungulate and Songbird recon
Early June	TDM/RAC	DM-TM	DM	HR, Rare Plants
April	JRK/RAC	JR		ST, WB
Late May	TDM/RAC	04		Bird Count
April	JRK/RAC	04		SG Lek WB Recon
Late May	TDM/RAC	04		Ungulates
Sept	JRK	04		ULT
April-May	JRK/RAC	DM	JG	All bird
April-May	JRK/RAC	04		WB
May-June	JSG/RAC	TM-DM	DM	All Bird
May June	TDM/RAC	JR	JG	All Bird
June	TDM/RAC	TM-DM	DM	???
Mid-June/July	TDM/RAC	JR-RC	DM	Waterfowl Broods, Rare Plan
Coordinate w/	JSG/RAC	JG	JR	Rare Plants
May	TDM/RAC	TM	JR	SO+ Landowner contact
May/Sept	JRK	JR	DM	Riparian- Equip -Photo Point
May-June	TDM/RAC	JG	JG	All Bird - Canoe
May June	JSG/RAC	JG	JG	All Bird - Canoe
July	RAC	TM	DM	Waterfowl Brood Count
July-August	RAC	DM-RC	DM	Gen Stew Landowner Relatio
August	RAC	JR-DM	DM	Gen Stew Landowner Relatio
May-June	JSG/RAC	JG	DM	All Bird
May-June	TDM/RAC	TM	JR	Migrating Waterbirds
July	RAC	DM-RC	JG-DM	IDFG Reseeding

Vegetation Monitoring



- **Vegetation community descriptions for Upper Snake River Valley (NVCS)**

- **Rare plants**



- **Restoration and Grazing Management**



Redd Monitoring



Adaptive Management

Species Conservation

Bird Monitoring

- **Ties in well with conservation focal areas, funding sources and regional monitoring priorities**
- **Meaningful indicators of ecosystem health**
- **Community composition/ productivity/ numbers reflect habitat conditions**
- **Cost effective**
- **Simple techniques**
- **Great partnership opportunities**



Partnership/Funding Assistance

- *Teton Regional Land Trust*
- **State Wildlife Grant**
- **Community Foundation of Jackson Hole**
- **Defenders of Wildlife – Living Lands Program**
- **National Fish and Wildlife Foundation**
- **Bureau of Land Management**
- **Idaho Department of Fish and Game**
- **US Fish and Wildlife Service**

Teton Regional Land Trust

Elements and Scope of Coordinated Bird Monitoring



Waterbird pair and brood counts



Long-billed curlew



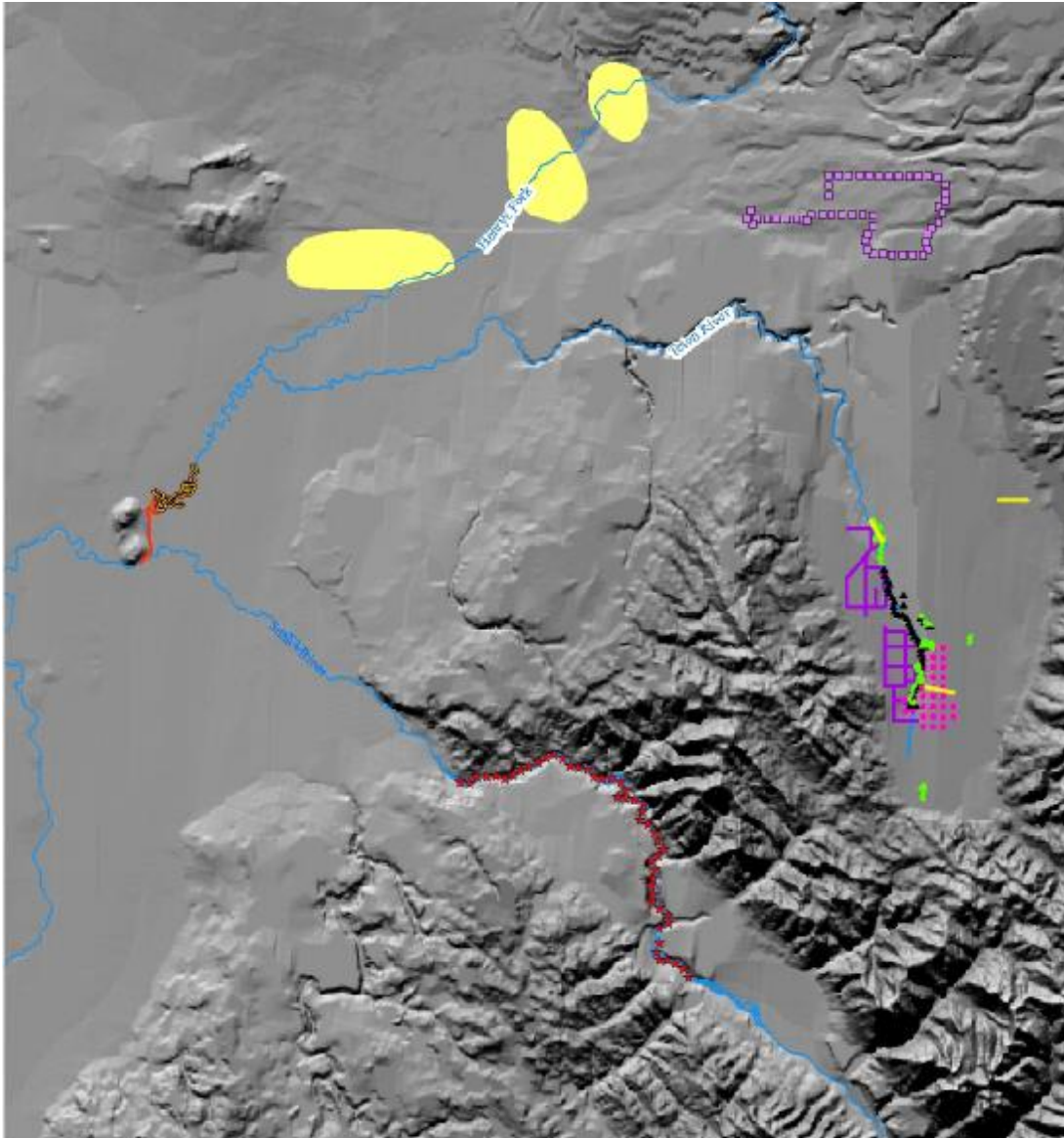
Riparian songbirds/landbirds

Wintering Trumpeter Swans

Pre-migration Staging Sandhill Cranes

** All species or representative habitats are State priorities and part of larger state or Federal monitoring priorities.*





Bird Monitoring Program

<u>Program Element</u>	<u>Partner(s)</u>
Waterbird Pairs and brood Counts	Idaho Department of Fish and Game (IBIS)
Breeding Bird Survey	US Geological Survey
Long-billed Curlew monitoring	US Geological Survey, US Fish and Wildlife Service
Point Counts	Bureau of Land Management, Defenders of Wildlife
Pre-Migration Staging Sandhill Cranes	US Fish and Wildlife Service, Intermountain Aquatics INC.
Christmas Bird Count	US Geological Survey

TRLT Bird Monitoring Sites



****5% of annual stewardship work program***

What and Where to Monitor?

IDAHO COMPREHENSIVE WILDLIFE CONSERVATION STRATEGY

As submitted to the USDI Fish and Wildlife Service,
National Advisory Acceptance Team

September 2005

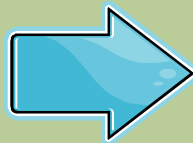


Idaho Department of Fish and Game
600 S. Walnut, P.O. Box 25, Boise, ID 83707

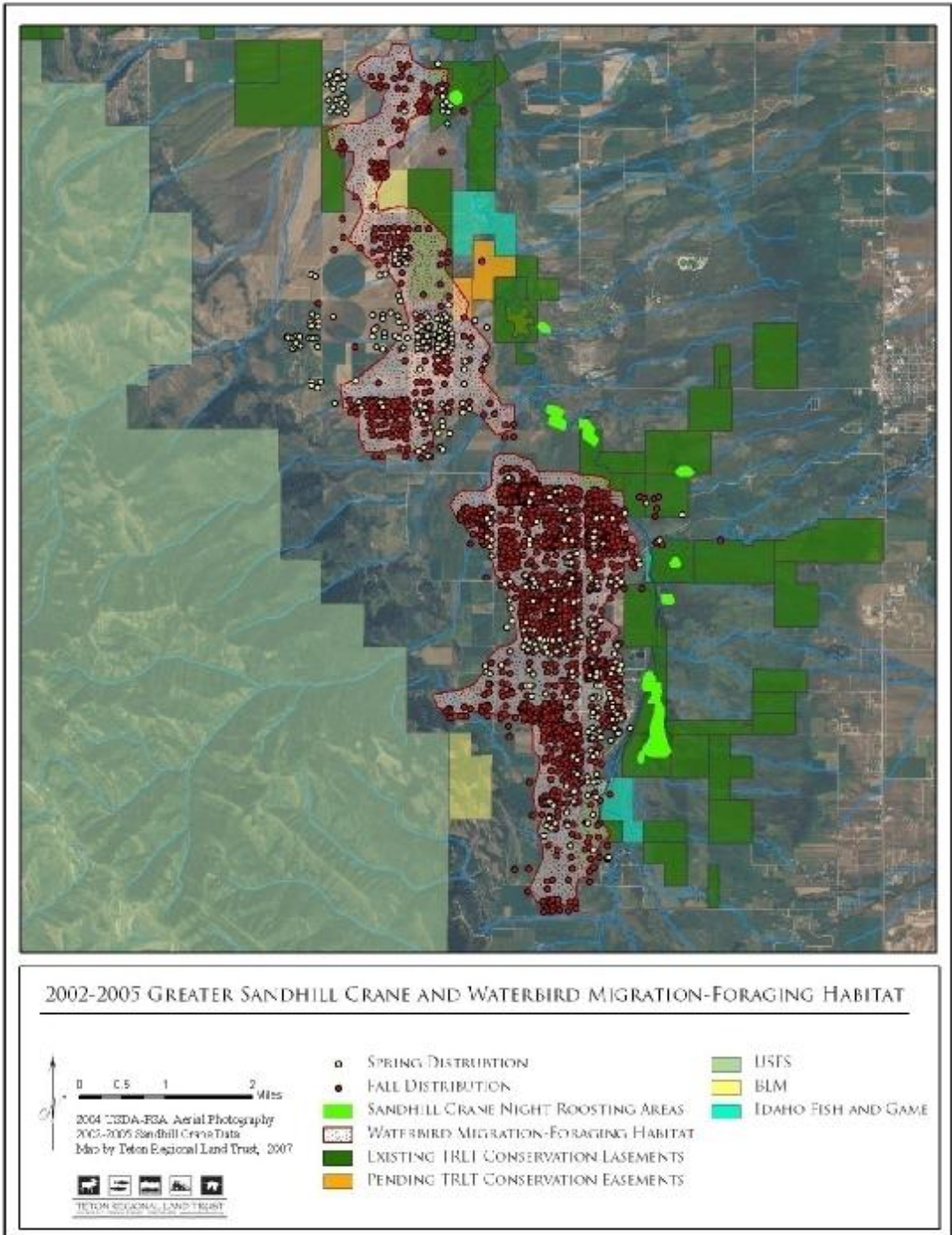


Greater Sandhill Crane - RECOMMENDED ACTIONS

Substantial improvements are needed in annual surveys to monitor population and subpopulation trends with acceptable accuracy and precision (Tacha et al. 1992). A complete census of breeding cranes should be conducted at least every 10 years and annual surveys of staging cranes are recommended (Ivey and Herziger 2005).



Pre-migration Staging Sandhill Crane Habitat Use



Sandhill Crane Monitoring Benefits

- **Greatly refines knowledge for conservation planning**
- **Data has been used successful to raise major funds for easement acquisition**
- **Empowers community outreach (crane event)**
- **Informs county planning in sensitive wildlife habitat**
- **Enhances relationship with agency and funding partners**
- **Gaining a unique understanding of our service area**

Acknowledgements

Michael Whitfield, TRLT

Tamara Sperber, TRLT

Renee Hiebert, TRLT

Wray Landon, TRLT

Rob Cavallaro

Angie Rudolph, TRLT

Rex Sallabanks, IDFG

Colleen Moulton, IDFG

Karen Rice, BLM

Rod Drewien, University of Idaho

Phil Thorpe, USFWS

Stephanie Jones, USFWS

Aimee Weldon, Defenders of Wildlife

Community Foundation of Jackson Hole

Tom Vezo, Wildlife Photographer

Kisa Krueger





Bedford Audubon Society

A Northern Westchester & Eastern Putnam Counties, New York
Chapter of the National Audubon Society

Celebrating 95 Years of Conservation 1913-2008

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The Ultimate BioBlitz 2007

[Updated Results Are Now Up!](#)

Bedford Audubon Receives Grant From Leon Levy Foundation

Thanks to a very generous grant from the Leon Levy Foundation, the Bedford Audubon Society conducted one of the largest BioBlitzes on record. We set the ambitious goal of conducting biodiversity surveys at six locations across northern Westchester: the [Leon Levy Preserve](#) (South Salem), the [Hunt-Parker Sanctuary](#) (Katonah), the [Angle Fly Preserve](#) (Somers), the [Guard Hill Preserve](#) (Bedford), the [Westchester Wilderness Walk](#) (Pound Ridge), and [Ward Pound Ridge Reservation](#) (Cross River). Due to the number of preserves included in the survey, the event took place over three days, from 2 PM on Friday, June 1, to 4 PM on Sunday, June 3.



Although Harvard biologist E.O. Wilson and Massachusetts wildlife expert Peter Alden generally take credit for coining the phrase BioBlitz after their first survey around Walden Pond in 1998, the idea of cataloguing all living organisms in a given area within a 24-hour period was, in fact, first implemented in Kenilworth Park and Aquatic Gardens National Park in Washington D.C. in 1996. Since then, BioBlitzes have been held in numerous locations all over the country as well as in Australia, Canada, and New Zealand.

www.bedfordaudubon.org



WESTCHESTER LAND TRUST

Preserving Westchester's Land and Communities

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Your generous support will help us reach our goal of protecting 5,000 additional



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Westchester Land Trust has protected over 5,731 acres in 25 communities, and our goal is to reach 10,000 acres by 2011.

To get there, we are reaching out to more landowners, more community groups, and more government officials, to ensure that we



www.westchesterlandtrust.org



Northern Westchester [NY] BioBlitz 2007

Although Harvard biologist E.O. Wilson and Massachusetts wildlife expert Peter Alden generally take credit for coining the phrase BioBlitz after their first survey around Walden Pond in 1998, the idea of cataloguing all living organisms in a given area within a 24-hour period was, in fact, first implemented in Kenilworth Park and Aquatic Gardens National Park in Washington D.C. in 1996. Since then, BioBlitzes have been held in numerous locations all over the country as well as in Australia, Canada, and New Zealand.

A BioBlitz has the dual aims of establishing the degree of biodiversity in an area and popularizing science. Our objective was to expand on the knowledge of the area's biodiversity while enabling conservationists to expand and refine habitat management plans to best reflect and support the species the area is responsible for preserving.



Northern Westchester [NY] BioBlitz 2007

We set the ambitious goal of conducting biodiversity surveys at six locations across northern Westchester: the [Leon Levy Preserve](#) (South Salem), the [Hunt-Parker Sanctuary](#) (Katonah), the [Angle Fly Preserve](#) (Somers), the [Guard Hill Preserve](#) (Bedford), the [Westchester Wilderness Walk](#) (Pound Ridge), and [Ward Pound Ridge Reservation](#) (Cross River).

Due to the number of preserves included in the survey, the event took place over three days, from 2 PM on Friday, June 1, to 4 PM on Sunday, June 3.

Steering Committee

John Askildsen

Micheal Barnhart

Brenda Bates

Brian Bielfelt

Linda Burke

Walter Fowler

Carol Gracie

John Hannan

Beth Herr

Tait Johansson

Paul Lewis

Jeff Main

Nannette Orr

Damon Oscarson

Vi Patek

Helle Raheem

Team Leaders

Brian Bielfelt: *Terrestrial Invertebrates*

Dr. Catherine Burns: *Mammals*

Dr. Linda Burke: *Aquatic Organisms*

Tait Johansson: *Birds*

Damon Oscarson: *Reptiles and Amphibians*

Dr. Robynn Shannon: *Terrestrial Plants*

Dianna Smith: *Fungi*

Scientists

Dr. Amy Berkov
Dr. William Buck
Olga Calderon
Rod Christie
Dr. Stephen Coghlan
Tami Colherty
Dr. Garrett E. Crow
Paul Damcot
Dr. Parker Gambino
Ted Gilman
Steve Glenn
Carol Gracie
Dr. Andrew Greller
Dr. Richard Harris
Dr. Christine Johnson
Ed Lam
Murray Lantner
Carol Levine
Gary Lincoff
Dr. Roz Lowen

Randy Mercurio
Dr. John Mickel
Hugh McGuinness
Dr. James Miller
Dr. Gerry Moore
Charlie Olsen
Dr. Vladimir I. Ovtcharenko
Dr. Susan Pell
Kelly Perkins
Steve Ricker
Butch Rosenfeld
Lori Shapiro
Dr. Lou Sorkin
Dr. Julie Trachman
Bill Wallace
Steve Walter
Harry Zirlin
Adam Zorn

Dr. Amy Berkov is a botanist whose interests include the interactions of tropical plants and insects, chemistry of the Brazil nut family, systematics and host associations of wood boring beetles, tropical forest ecology and conservation and the evolution of pollination in the Angiosperms. She teaches a variety of botany courses with special emphasis on urban ecology at the City University of New York.

Dr. Stephen Coghlan is an Assistant Professor of Freshwater Fisheries Ecology at University of Maine. Dr. Coghlan is working closely with state and federal agencies in building a collaborative research program around issues important to the ecology and management of Maine's freshwater fish and aquatic habitats and has taught courses in fisheries biology, ichthyology, aquatic entomology, and Adirondack field ecology. He is also a National Science Foundation Post-Doctoral Research Associate at Arkansas State University.

Ed Lam is a resident of Eastchester, NY. He is an acknowledged expert in the world of dragonflies and damselflies and a prolific writer. His latest book, written and illustrated by him, is Damselflies of the Northeast. His comprehensive website <http://homepage.mac.com/edlam/butterfly.html> includes birds, butterflies, and dragonflies.

Hugh McGuinness is a recognized authority on moths and/or birds of Eastern Long Island. He is a high-school science teacher at The Ross School, East Hampton, NY. His professional research involves monitoring moth populations in various habitats on Long Island.

Bedford Audubon Society BioBlitz 2007

NATURALISTS

Carlo Acuna

A resident of Vancouver, Canada. He has extensive bird banding experience from British Columbia and the Yukon and has also studied eiders in Barrow, Alaska.

Margo Bowerman

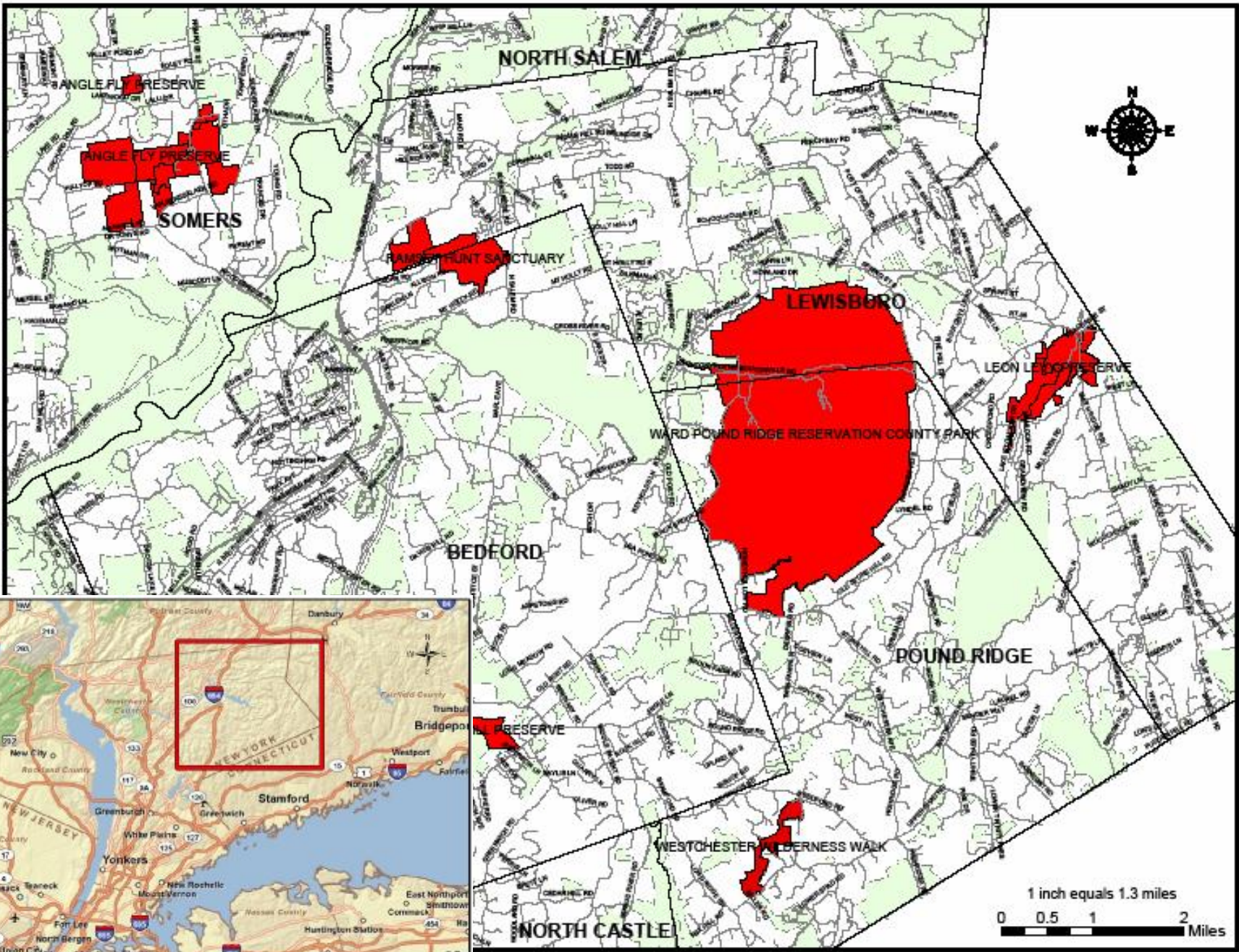
Coordinator of the 4-H Youth Development Program for Orleans County, New York. Her programming responsibilities include invasive species management. She has a Masters Degree in Wildlife Ecology from SUNY Environmental Science and Forestry.

Maggie Garcia

New York State licensed wildlife rehabilitator.

Cheryl Cook

Past director and naturalist of The Discovery Center at Ridgefield.



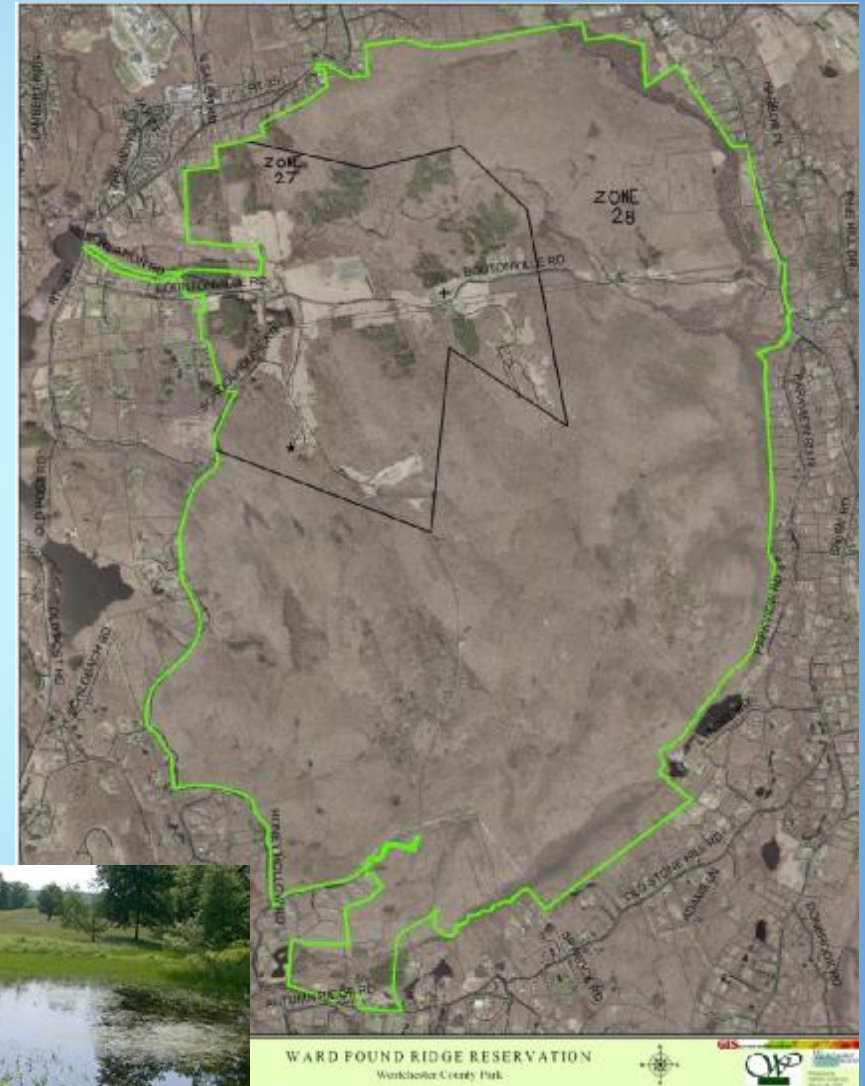
Ward Pound Ridge Reservation

Located in Pound Ridge, Ward Pound Ridge Reservation is Westchester County's largest park.

With its varied terrain, streams, meadows, open fields, and woodlands, the park provides great habitat for a large number of breeding birds. It is also the premier area for butterfly watching in New York State.

This 4,700 acre park was purchased in 1924 as a wildlife sanctuary and recreation area. The park has 35 miles of hiking trails, including several self-guided nature trails.

The Trailside Nature Museum hosts weekend nature interpretive programs year-round. A half-acre wildflower garden is located near the museum.

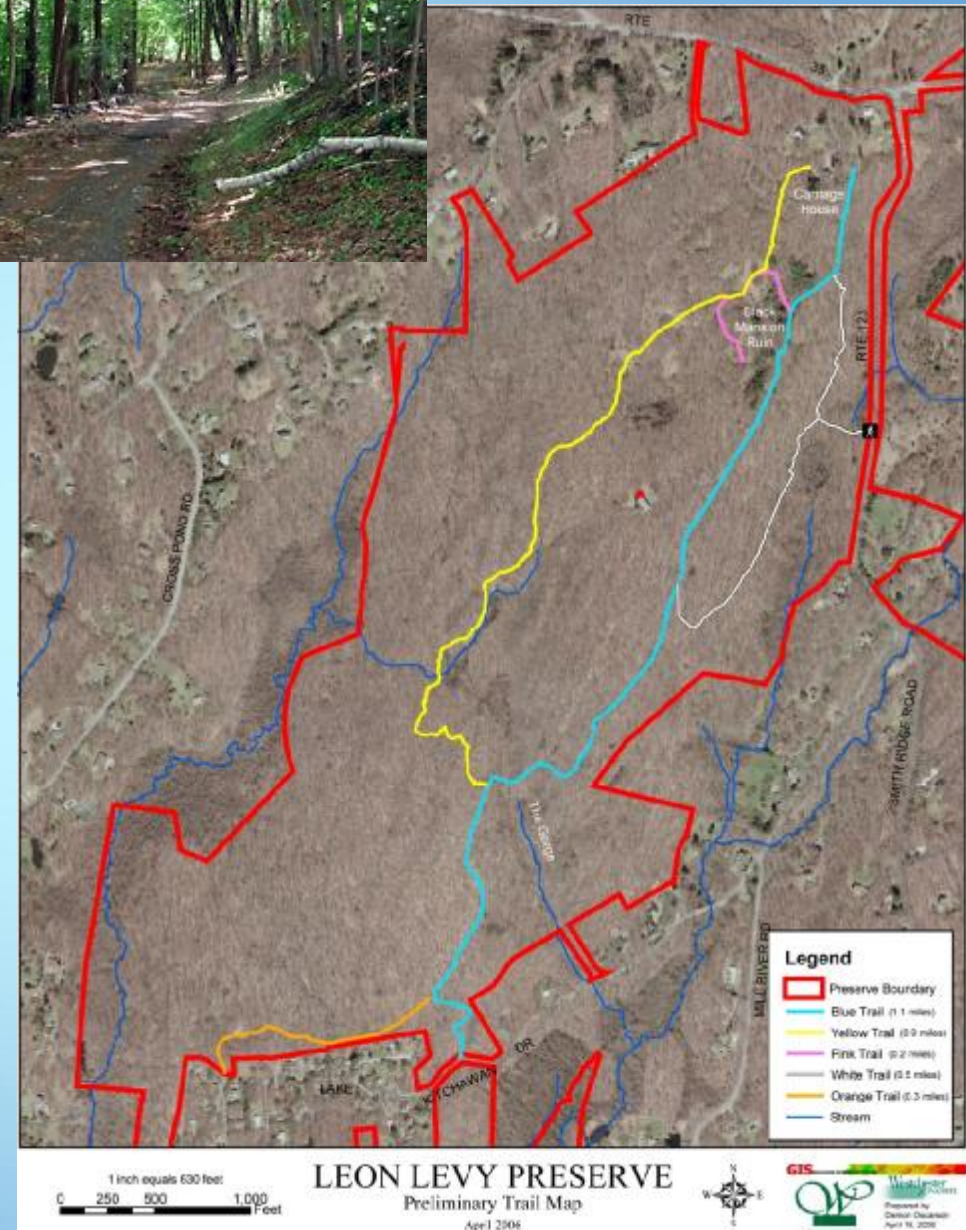


Leon Levy Preserve

The Leon Levy Preserve is a 386-acre preserve located south and west from the intersection of Routes 35 and 123 in South Salem, New York and lies in the watersheds of both the New York City and Stamford drinking water supplies.

The preserve contains a diverse array of wetlands, stream systems, rocky hills, a large ravine, and mature second growth forest.

The preserve contains an extensive system of hiking trails, including an old carriage trail, and is open to town residents for hiking, snowshoeing, biking, and horseback riding.

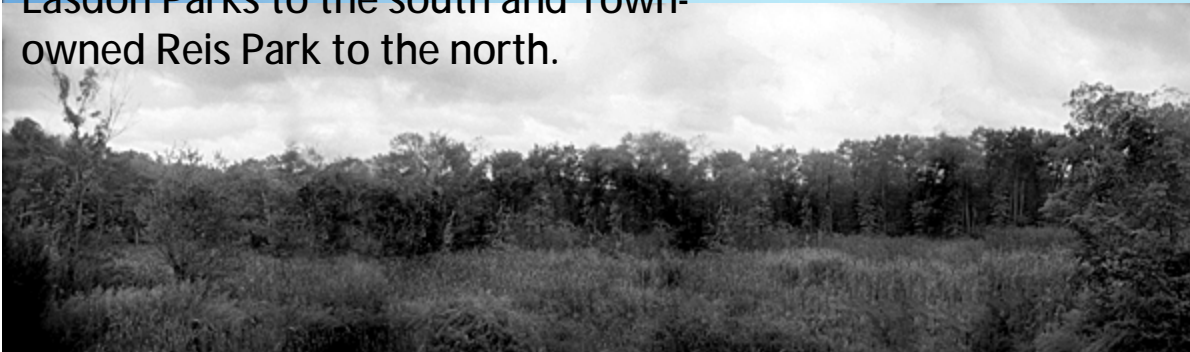
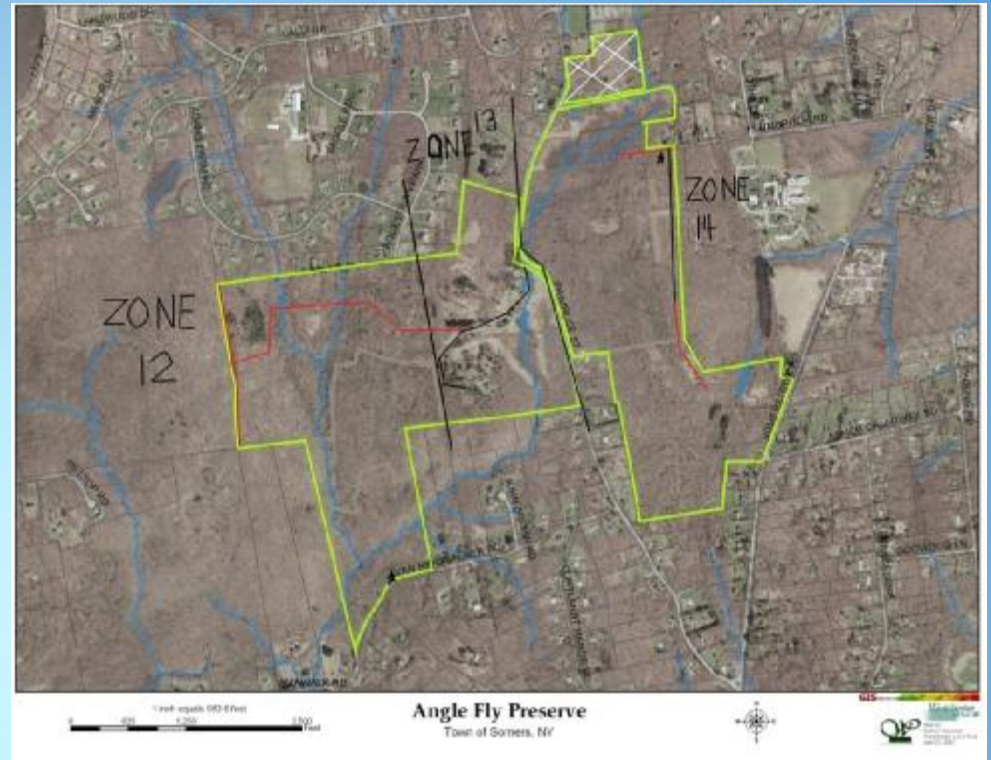


Angle Fly Preserve

The Angle Fly Preserve is one of Westchester County's newest protected open-spaces. It covers 654 rolling acres of forest, wetland, and meadow as well as the Angle Fly Brook for which it is named—reputed to be the last brook-trout spawning stream in Westchester.

Hosting an extensive wildlife population, it is particularly noteworthy for its turtle and bird life, particularly wood turtle, a species of conservation concern in Westchester and the Hudson Valley.

Situated in the heart of Somers, it provides a link in a continuous 2,000-acre corridor running from Muscoot and Lasdon Parks to the south and Town-owned Reis Park to the north.







Bedford Audubon BioBlitz 2007
Amphibians and Reptiles
Unique Listing by Family

	Common Name	Genus	Species	Angle Fly	Bylane	Guard Hill	Leon Levy	Wilderness Walk	WPRR
	Kingdom - Animalia (Animals)								
	Phylum - Chordata (Chordates)								
	Class - Amphibia (Amphibians)								
	Order - Caudata (Salamanders)								
	Family - Ambystomatidae (Mole Salamanders)								
	Spotted Salamander	<i>Ambystoma</i>	<i>maculatum</i>				x	x	
	Marbled Salamander	<i>Ambystoma</i>	<i>opacum</i>					x	
	Family - Plethodontidae (Lungless Salamanders)								
	Northern Dusky Salamander	<i>Desmognathus</i>	<i>f. fuscus</i>		x				
	Northern Two-lined Salamander	<i>Eurycea</i>	<i>bilineata</i>	x	x			x	
	Four-toed Salamander	<i>Hemidactylium</i>	<i>scutatum</i>				x		
	Redback Salamander	<i>Plethodon</i>	<i>cinereus</i>	x	x	x	x	x	
	Order - Anura (Frogs and Toads)								
	Family - Bufonidae (Toads)								
	Eastern American Toad	<i>Bufo</i>	<i>a. americanus</i>	x	x	x	x		
	Family - Hylidae (Treefrogs)								
	Gray Treefrog	<i>Hyla</i>	<i>versicolor</i>	x	x	x	x		
	Northern Spring Peeper	<i>Pseudacris</i>	<i>c. crucifer</i>			x	x		
	Family - Ranidae (Classic Frogs)								
	Bullfrog	<i>Rana</i>	<i>atesbeiana</i>	x			x		
	Green Frog	<i>Rana</i>	<i>clamitans melanota</i>	x	x	x	x	x	
	Pickerel Frog	<i>Rana</i>	<i>palustris</i>	x	x		x		
	Wood Frog	<i>Rana</i>	<i>sylvatica</i>	x	x	x	x	x	x
	Class - Reptilia (Reptiles)								
	Order - Testudinata (Turtles)								
	Family - Chelydridae (Snapping Turtles)								
	Common Snapping Turtle	<i>Chelydra</i>	<i>s. serpentina</i>	x			x		x
	Family - Emydidae (Pond Turtles)								
	Painted Turtle	<i>Chrysemys</i>	<i>picta</i>				x		
	Spotted Turtle	<i>Clemmys</i>	<i>gutata</i>						x
	Wood Turtle	<i>Clemmys</i>	<i>insculpta</i>	x					
	Eastern Box Turtle	<i>Terrapene</i>	<i>c. carolina</i>	x	x	x	x		x
	Order - Squamata (Snakes and Lizards)								
	Family - Colubridae (Snakes)								
	Northern Black Racer	<i>Coluber</i>	<i>c. constrictor</i>						x
	Black Rat Snake	<i>Elaphe</i>	<i>o. obsoleta</i>						x
	Eastern Milk Snake	<i>Lampropeltis</i>	<i>t. triangulum</i>	x					
	Northern Water Snake	<i>Nerodia</i>	<i>s. sipedon</i>		x		x		x
	Eastern Garter Snake	<i>Thamnophis</i>	<i>s. sirtalis</i>	x		x	x		

Bedford Audubon BioBlitz 2007
Moths and Butterflies
Unique Listing by Family

	Common Name	Genus	Species	Angle Fly	Bylane	Guard Hill	Leon Levy	WPRR	Observer
	Kingdom - Animalia (Animals)								
	Phylum - Arthropoda								
	SubPhylum - Hexapoda								
	Class - Insecta (Insecta)								
	SubClass - Pterygota								
	Order - Lepidoptera (Butterflies and Moths)								
	SuperFamily Papilionoidea								
	Family - Hesperidae								
	SubFamily - Hesperinae								
	Least Skipper	<i>Ancyloxypha</i>	<i>numitor</i>		x			x	Bill Wallace
	Dusted Skipper	<i>Atrytonopsis</i>	<i>hianna</i>		x			x	Bill Wallace
	Cobweb Skipper	<i>Hesperia</i>	<i>metea</i>					x	Bill Wallace
	Indian Skipper	<i>Hesperia</i>	<i>sassicus</i>					x	Bill Wallace
	Hobomok Skipper	<i>Poanes</i>	<i>hobomok</i>	x	x			x	Bill Wallace
	Zabulon Skipper	<i>Poanes</i>	<i>zabulon</i>	x				x	Bill Wallace
	Long Dash	<i>Polites</i>	<i>mystic</i>	x	x			x	Bill Wallace
	Peck's Skipper	<i>Polites</i>	<i>peckius</i>	x	x			x	Bill Wallace
	Tawny-edged Skipper	<i>Polites</i>	<i>themistocles</i>		x			x	Bill Wallace
	European Skipper	<i>Thymelicus</i>	<i>lineola</i>		x				Olga Calderon
	SubFamily - Pyrginae								
	Silver-spotted Skipper	<i>Epargyreus</i>	<i>clarus</i>	x	x				Bill Wallace, Damon Oscarson
	Wild Indigo Duskywing	<i>Erynnis</i>	<i>baptisiae</i>		x				Bill Wallace
	Dreamy Duskywing	<i>Erynnis</i>	<i>icelus</i>					x	Bill Wallace
	Juvenal's Duskywing	<i>Erynnis</i>	<i>juvenalis</i>					x	Bill Wallace
	Southern Cloudywing	<i>Thorybes</i>	<i>bathyllus</i>					x	Bill Wallace
	Northern Cloudywing	<i>Thorybes</i>	<i>pylades</i>					x	Bill Wallace
	Family - Papilionidae								
	SubFamily - Papilioninae								
	Eastern Tiger Swallowtail	<i>Papilio</i>	<i>glaucus</i>	x	x		x	x	Many
	Spicebush Swallowtail	<i>Papilio</i>	<i>troilus</i>	x				x	Bill Wallace
	Family - Pieridae								
	SubFamily - Coliadinae								
	Orange Sulfur	<i>Colias</i>	<i>eurytheme</i>		x			x	Bill Wallace
	SubFamily - Pierinae								
	Cabbage White	<i>Pieris</i>	<i>rapae</i>		x			x	Olga Calderon, Bill Wallace
	Family - Lycaenidae								
	SubFamily - Lycaeninae								
	American Copper	<i>Lycaena</i>	<i>phlaeas</i>		x			x	Annette Cunniffe, Bill Wallace



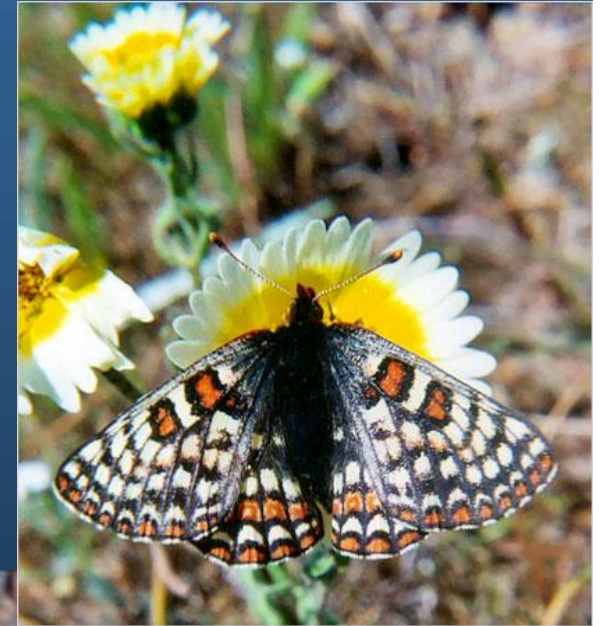
A landscape photograph of mountains and a valley under a cloudy sky with a rainbow. The text is overlaid on the image.

The Conservation Registry: Tracking Conservation across the Landscape

Aimee Weldon

Defenders of Wildlife

Landscape Scale Monitoring



The Conservation Registry

- **Online, centralized database**
- **Records, tracks and maps conservation actions across the landscape**



Conservation Actions

- **Enhance Conservation Status – easements, conservation and management plans, etc.**
- **Habitat Restoration and Management**
- **Monitoring, Education and Research**



Conservation Needs

- **Funding**
- **Technical Assistance and Resources**
- **Volunteers**



How will it Work?

- **Easy to use**
 - Turbo-tax style data entry
 - Google Maps platform
- **Can upload or download spatial information**
- **Sensitive spatial information can be kept private**



How will it work?

- **Launched in Idaho, Washington and Oregon in June 2008**
- **Rapid national expansion following initial launch – database now open for all to use**
- **The more populated the database, the more useful it becomes**



Home page

The screenshot shows the home page of 'The Conservation Registry' in a Mozilla Firefox browser. The browser window title is 'The Conservation Registry - Mozilla Firefox'. The address bar shows 'http://www.conservationregistry.org/'. The page features a green header with the site name 'The Conservation Registry beta' and navigation links for 'Log out', 'My Account', and 'Help'. Below the header is a dark blue navigation bar with links for 'VIEW PROJECTS', 'MY REGISTRY', 'NEWS', 'ABOUT', and 'CONTACT'. A search bar is located on the left side of the navigation bar. The main content area is divided into several sections: a left sidebar with search options like 'Browse by Maps', 'Browse by Keywords', and 'Add a Project'; a central map of Oregon with several yellow location pins; a quote by Hugh Stretton: 'People can't change the way they use resources without changing their relations with one another.'; and two columns of text: 'Welcome to the Conservation Registry' and 'About The Conservation Registry'. The 'About' section includes a 'LEARN MORE' button and a 'VIEW FAQs' button. The bottom of the browser window shows the status bar with the word 'Done'.

The Conservation Registry ^{beta}

Log out My Account Help

SEARCH [input type="text"]

VIEW PROJECTS MY REGISTRY NEWS ABOUT CONTACT

+ Browse by Maps

+ Browse by Keywords

+ Quick Searches

+ Advanced Search

+ Add a Project

+ View My Registry

+ Support the Registry

State Portals

Select a State [dropdown] Go

Projects in Need

- [Volunteers](#) (1)
- [Approval](#) (0)
- [Equipment](#) (0)
- [Funding](#) (1)
- [Permits](#) (0)
- [Technical Support](#) (0)
- [Planning Assistance](#) (0)

West Linn Oregon City Wilsonville Canby Spangler Hill Estacada Highland Butte

“People can't change the way they use resources without changing their relations with one another.”
— Hugh Stretton

>Welcome to the Conservation Registry

The Conservation Registry is a smart, accessible database and mapping system that allows users to enter, search, map and track interesting conservation projects. The registry gathers data from multiple sources, ranging from small organizations and landowners to federal resource agencies, non-profit organizations, tribes and foundations. The purpose of the registry is to help users understand the context, distribution, and effectiveness of our collective efforts to protect and restore ecosystems.

About The Conservation Registry

The concept of the registry emerged from our need to understand the scope of conservation activities across the landscape and to identify areas where landowners and organizations can generate the greatest strategic benefits for fish and wildlife.

LEARN MORE »

VIEW FAQs »

Done

Browse to your Region

The image shows a screenshot of a Google Maps interface. At the top, there is a search bar with the text "Search the Map". Below the search bar, there are navigation controls including a compass, a search icon, and zoom in/out buttons. The map itself is centered on Oregon, showing the state's outline and various geographical features. Overlaid on the map are orange hatched areas representing "Oregon Priority Areas" and brown hatched areas representing "USGS Watersheds (HUC 4)". Several green location pins are scattered across the map. The interface includes a "Registry Overlays" panel on the right with checkboxes for "Oregon Priority Areas" (checked) and "USGS Watersheds (HUC 4)". The map also shows labels for "Washington", "Tacoma", "Spokane", "Portland", "Oregon", "Boise", and "Idaho". At the bottom left, it says "POWERED BY Google" and at the bottom right, it says "Map data ©2008 Tele Atlas - Terms of Use".

Search the Map

Map Satellite Terrain Topo

Registry Overlays

Oregon Priority Areas

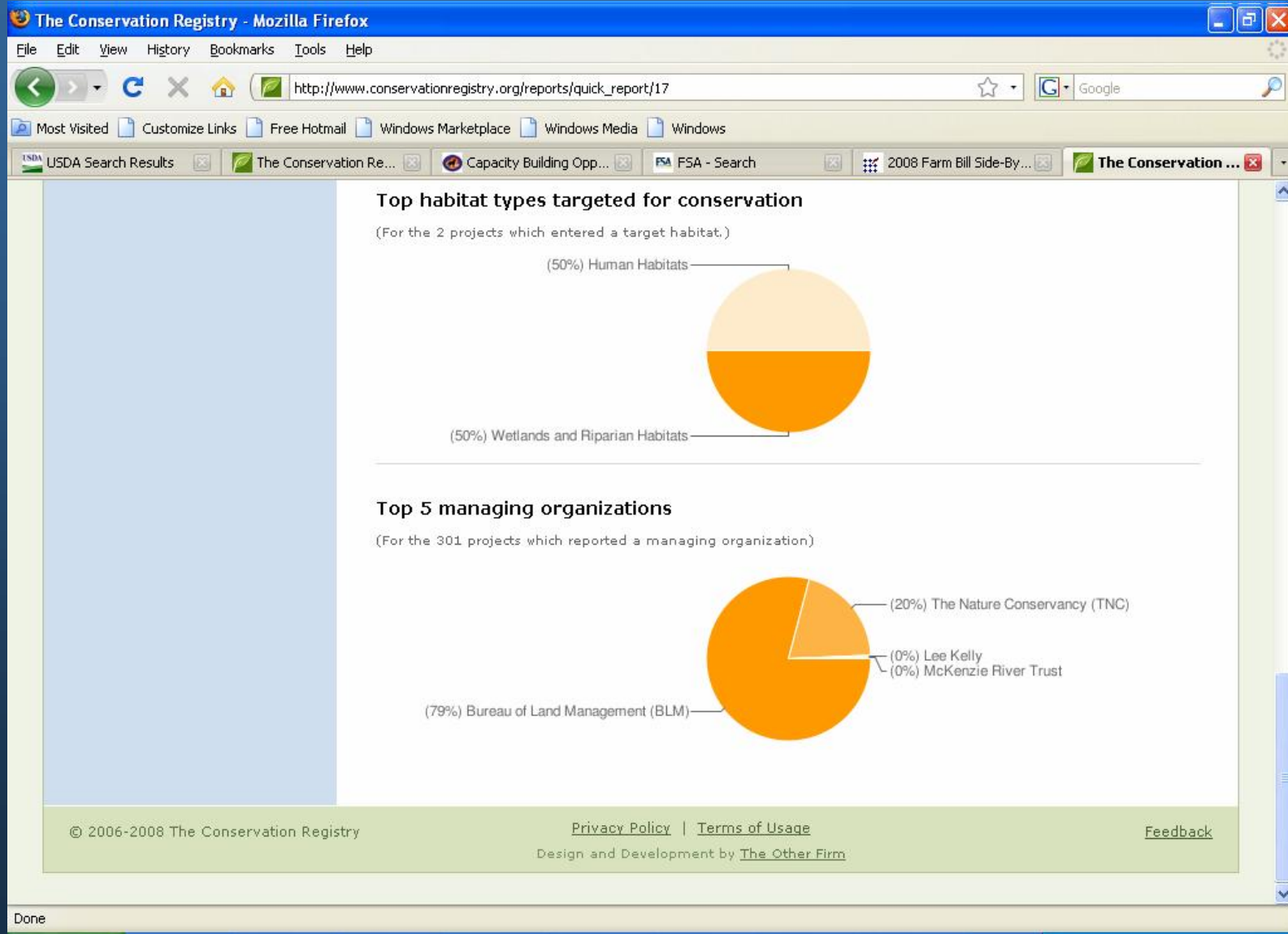
USGS Watersheds (HUC 4)

Washington
Tacoma
Spokane
Portland
Oregon
Boise
Idaho

POWERED BY Google

Map data ©2008 Tele Atlas - [Terms of Use](#)

Search and Query



Search and Query

The screenshot shows a Mozilla Firefox browser window displaying the Conservation Registry website. The address bar shows the URL http://www.conservaionregistry.org/search/quick_search. The browser's menu bar includes File, Edit, View, History, Bookmarks, Tools, and Help. The toolbar contains navigation buttons (back, forward, home, refresh) and a search engine dropdown set to Google. The browser's tab bar shows several open tabs, including 'USDA Search Results', 'The Conservation Re...', 'Capacity Building Opp...', 'FSA - Search', '2008 Farm Bill Side-By...', and 'The Conservaion ...'. The website content features a green header with the title 'The Conservation Registry' and a navigation menu with options: SEARCH, VIEW PROJECTS, MY REGISTRY, NEWS, ABOUT, and CONTACT. Below the navigation menu, there are links for 'Browse by Maps', 'Browse by Keywords', 'Quick Searches', and 'Advanced Search'. The main content area is titled 'Quick Searches' and contains a paragraph explaining the search criteria and a list of 'Action Categories' including 'Habitat Restoration and management', 'Enhanced conservation status', and 'Monitoring, research, and education'. There are also sections for 'Enhanced conservation status' and 'Habitat Restoration and management projects'. On the left side, there is a sidebar with a search box, a 'State Portals' section with a dropdown menu and a 'Go' button, and a 'Projects in Need' section with links to various project types and their counts. The browser's status bar at the bottom shows 'Done'.

The Conservation Registry

SEARCH

VIEW PROJECTS MY REGISTRY NEWS ABOUT CONTACT

Browse by Maps Browse by Keywords Quick Searches Advanced Search

Quick Searches

The links below will run a Quick Search of all projects in the Conservation Registry based upon pre-defined search criteria. Each search contains rules or conditions that are presented in detail at the top of the Search Results page. If you'd like to conduct a more refined search or narrow your search to a specific geographic area, use the Advanced Search feature.

Action Categories

- [Habitat Restoration and management](#)
- [Enhanced conservation status](#)
- [Monitoring, research, and education](#)

Enhanced conservation status

- [Stewardship certification](#)
- [Conservation/mitigation banks](#)
- [Natural area designation and zoning](#)
- [Conservation plans and agreements](#)
- [Private property transactions](#)

Habitat Restoration and management projects

- [Terrestrial habitat restoration and management](#)
- [Enhance stewardship \(timber, ranch, farm, urban\)](#)
- [Invasive species control and management](#)
- [Marine and estuarine restoration and management](#)

State Portals

Select a State

Projects in Need

- [Volunteers](#) (1)
- [Approval](#) (0)
- [Equipment](#) (0)
- [Funding](#) (1)
- [Permits](#) (0)
- [Technical Support](#) (0)
- [Planning Assistance](#) (0)

Quick Searches

Done

Search Results Page: Crystal Creek

- Browse by Maps
- Browse by Keywords
- Add a Project
- Advanced Search
- Registry Tutorials
- Create an Account
- View My Registry

SEARCH TOOLS

Add this search as a "Quick Search" in My Registry
Login required

Subscribe to the RSS feed for this search

RECENTLY VIEWED

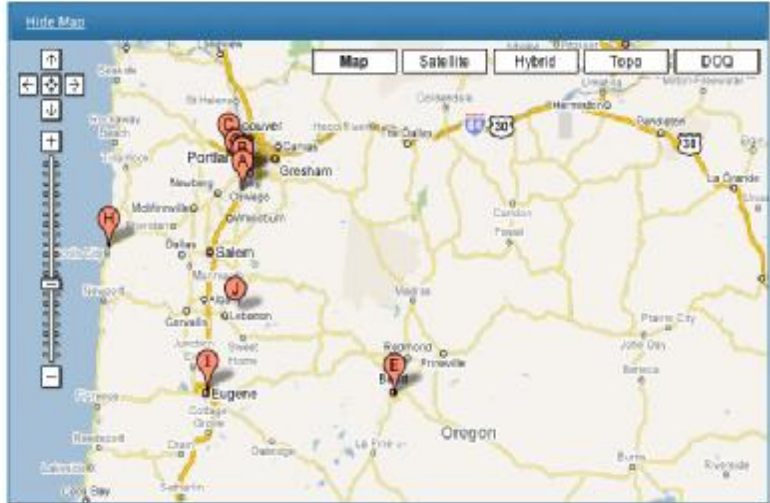
- Crystal Creek Conservation Easement
- Example Project Title Two

Search Results

New Search

You searched for: **Crystal Creek**
There are 6 projects that match your search. Click the title of a project to view it in detail.

[Add to My Saved Searches](#) [Add all results to My Groups](#) [Download results \(.csv\)](#)



- Crystal Creek Conservation Easement**
Location: [Portland, OR](#) Primary contact: [Ryan Shaw](#) Status: Complete
Conservation Easement on private land to conserve habitat for at-risk species including endangered sucker, bull trout, spotted frog, and threatened eagle.
[Add to My Registry](#) | [Download data \(.csv\)](#)
- Crystal Creek Wetland Mitigation Bank**
Location: [Portland, OR](#) Primary contact: [Ryan Shaw](#) Status: Proposed
100 acre wetland restoration project that entails planting native vegetation, including black cottonwood and big leaf maples, as well as establishing depth and duration of surface water that is characteristic of the area's deep emergent wetland communities.
[Currently in My Registry](#) | [Download data \(.csv\)](#)
- Crystal Creek State Park**
Location: [Gresham, OR](#) Primary contact: [Ryan Shaw](#) Status: Proposed
Creation of a 500 acre state park to protect natural and scenic characteristics of the site, including the preservation of a 100 acre white oak woodland.

Add a Project

The screenshot shows a Mozilla Firefox browser window titled "The Conservation Registry - Mozilla Firefox". The address bar displays "http://www.conservancyregistry.org/project/add/general/assets". The browser's menu bar includes "File", "Edit", "View", "History", "Bookmarks", "Tools", and "Help". The address bar also features navigation buttons (back, forward, refresh, home) and a search engine dropdown set to "Google".

The page content is organized into a sidebar on the left and a main content area on the right. The sidebar contains a navigation menu with the following items: "Advanced Search", "Add a Project" (highlighted in green), "View My Registry", and "Support the Registry". Below this is a "Project Entry Progress" section with a progress bar and a list of tabs: "General" (selected), "Project Files", "Project Links (URL's)", "Project Needs", and "Project Keywords". Further down are tabs for "Contacts", "Actions", "Location", "Assistance", "Goals & Targets", and "Outcomes".

The main content area is titled "Meadowland Breeding Bird Surveys" and is divided into several sections:

- General** (selected tab)
- Instructions**: A section with a "Need help?" link. It states: "If you have documents, photos, or other files related to your project, you can upload them here. Simply click on 'Add' below, select the file from your computer, name it and click the 'Upload' button. If you have multiple files, simply click the Add link again and repeat the process. Please note that the first image you upload will be the default image used to identify your project, please choose an appropriate image for this purpose." It also notes: "Please note that if the file is large, it may take a few moments for the file to transfer completely."
- Accepted file types**: A list of supported file formats:
 - Data/Documents: Comma separated values (.csv), Microsoft Excel (.xls), Microsoft Word (.doc), Plain text or Tab separated values (.txt), Portable Document Format (.pdf), Rich Text Format (.rtf), XML (.xml)
 - Images: GIF (.gif), JPEG (.jpg), TIFF (.tif)
 - Presentations: Microsoft PowerPoint (.ppt)
 - Archives: GZ archive (.gz), TAR archive (.tar), TAR/GZ archive (.tgz), ZIP archive (.zip)
- Project File Upload**: A section with an "Add" button. It includes a "New Asset" header and a yellow warning box: "Each upload has a file size limit of 20MB. If you need to upload a larger file, please submit a [Support Ticket](#)." Below this is a red asterisk indicating a required field: "• indicates a required field."
- Upload a file**: A form field with a "Browse..." button.
- File description**: A text input field.

The browser's status bar at the bottom shows "Done".

Add Actions

The Conservation Registry - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.conservationregistry.org/project/add/actions

Most Visited Customize Links Free Hotmail Windows Marketplace Windows Media Windows

USDA Search Results The Conservation Regis... Capacity Building Opportunit... FSA FSA - Search 2008 Farm Bill Side-By-Side: ...

+ Add a Project

View My Registry

Support the Registry

Project Entry Progress

General

Contacts

Actions

Choose Action(s)

Location

Assistance

Goals & Targets

Outcomes

Meadowland Breeding Bird Surveys

Instructions [Need help?](#)

Please tell us what actions are occurring in your project. These actions are presented as broad categories, sub-categories and specific action types.

Select **Add** and indicate the conservation actions that pertain to your project. You can add as many actions as necessary. Click **View Action definitions** to view the complete list of action categories and their action types. If your project contains actions that are not listed, choose which category and sub-category your action fits under, then **select other** under action and identify your action.

Also, please tell us the status of your project and the range of time when it occurred or will occur.

Actions for Meadowland Breeding Bird Surveys [Add](#)

Conservation easement [Edit Status](#) [Delete](#)

Plant native trees and/or shrubs, herbs, forbs, grasses [Edit Status](#) [Delete](#)

New Action [Description of Actions](#)

***** indicates a required field.

1. **Choose a category:**

2. **Choose a sub-category:**

3. **Choose an action:**

4. **Action status:**
Start year: **End year:**

Done

Map Project Area

The Conservation Registry - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.conservationregistry.org/project/add/location

Most Visited Customize Links Free Hotmail Windows Marketplace Windows Media Windows

USDA Search Results The Conservation Re... Capacity Building Opp... FSA FSA - Search 2008 Farm Bill Side-By-... The Conservation ...

View My Registry

Support the Registry

Project Entry Progress

General

Contacts

Actions

Location

Use the tools within the Map

Assistance

Goals & Targets

Outcomes

Meadowland Breeding Bird Surveys Publish this Project

Instructions Show/Hide Need help?

Find a Location

Map Satellite **Terrain** Topo Ownership + LandCover +

Registry Overlays

- All Project Sites
- Oregon Priority Areas
- Watersheds (HUC 4)
- TNC Priority Areas
- TNC Ecoregions
- Omemik Ecoregions

Drawing Tools

POWERED BY Google

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Done

Describe Habitat and Species

The screenshot shows a Mozilla Firefox browser window with the address bar displaying http://www.conservationregistry.org/project/add/goals_and_targets/species. The browser's menu bar includes File, Edit, View, History, Bookmarks, Tools, and Help. The address bar also contains a search engine icon and the text 'Google'. The browser's toolbar shows 'Most Visited', 'Customize Links', 'Free Hotmail', 'Windows Marketplace', 'Windows Media', and 'Windows'. The browser's tab bar shows several open tabs, including 'USDA Search Results', 'The Conservation Regis...', 'Capacity Building Opportunit...', 'FSA FSA - Search', and '2008 Farm Bill Side-By-Side: ...'. The main content area is titled 'Meadowland Breeding Bird Surveys' and contains the following text:

Instructions [Need help?](#)

The Conservation Registry is interested in knowing what species your project is focusing on.

To indicate targeted species related to your project, simply search by the common or latin name of the species and you'll be presented with suggested species to select. Click **Add** when you find the species you're looking for.

If the species you are targeting is not suggested and you feel it should be included based upon these parameters, please use our [feedback form](#) to suggest inclusion.

Targeted Species for Meadowland Breeding Bird Surveys

If applicable, what species (native or non-native) are being targeted? (select all that apply)

Common name	Latin name	
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	Delete
Western Meadowlark	<i>Sturnella neglecta</i>	Delete
Lark Bunting	<i>Calamospiza melanocorys</i>	Delete

[+ Add a species](#)

Animals Plants Invertebrates

Search For a Species to Add:

[Matching results](#) (click on a species to add)

Done http://www.conservationregistry.org/project/add/goals_and_targets/species#

Describe Project Needs

The screenshot shows a Mozilla Firefox browser window with the URL <http://www.conservationregistry.org/project/add/general/needs>. The page title is "The Conservation Registry - Mozilla Firefox". The browser's address bar shows the URL, and the search bar contains "Google". The browser's toolbar includes "File", "Edit", "View", "History", "Bookmarks", "Tools", and "Help". The browser's tabs show "USDA Search Results", "The Conservation Re...", "Capacity Building Opp...", "FSA FSA - Search", "2008 Farm Bill Side-By...", and "The Conservation ...".

The main content area is titled "Meadowland Breeding Bird Surveys" and includes a "Publish this Project" button. The "Project Needs" section contains the following questions and answers:

- Does your project need volunteers?**
Volunteers are needed between the months of June and August to conduct bird monitoring.
- Does your project need funding?**
Funding is needed to expand monitoring efforts beyond the easement protected area.
- Does your project need planning assistance?**
- Does your project need technical support?**
- Does your project need permits?**
- Does your project need approval?**

The left sidebar contains navigation links: "Advanced Search", "Add a Project", "View My Registry", and "Support the Registry". Below these is the "Project Entry Progress" section, which includes a "General" tab and a list of project details: "General Information", "Project Files", "Project Links (URL's)", "Project Needs", and "Project Keywords". The "General" tab is currently selected, and the "Project Needs" section is highlighted in green.

Track Funding

The Conservation Registry - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.conservaionregistry.org/project/add/assistance/direct_funding

Most Visited Customize Links Free Hotmail Windows Marketplace Windows Media Windows

USDA Search Results The Conservation Re... Capacity Building Opp... FSA FSA - Search 2008 Farm Bill Side-By... The Conservaion ...

View My Registry

Support the Registry

Project Entry Progress

General

Contacts

Actions

Location

Assistance

Direct Funding

In Kind Contribution

Technical Assistance

Property Tax Benefit

Income Tax Benefit

Regulatory Assurance

Other

Goals & Targets

Outcomes

Meadowland Breeding Bird Surveys

Publish this Project

Instructions [Need help?](#)

Did your project require or receive funding?

If it did, please indicate the source of funds, amounts and any other pertinent details. If you had multiple sources of funding, click **Add** in the blue bar.

If you have cost share/matching funds, once you **Save the Direct Funding Item**, you'll be notified that cost share/match information needs to be filled in. Simply click on the link and provide the cost/share match information associated with the direct funding item.

If funding was not part of your project, please click **Continue**.

Direct Funding

[Add](#)

Grant (Federal Government) (\$10,000.00)	Edit Delete
Other (Non-Governmental Organization) (\$15,000.00)	Edit Delete
Add another matching fund item	

*** indicates a required field.**

Funding Source * Federal Government

Federal Department * US Dept of the Interior

Federal Agency * Fish and Wildlife Service (FWS)

Federal Program * Partners for Fish and Wildlife (PFW)

Select funding type * Grant **Grant Number**

Amount of Funding * 10000

Funding Status * Partially Funded

Done

My Registry

The screenshot shows a Mozilla Firefox browser window displaying the 'My Registry' page of The Conservation Registry. The browser's address bar shows the URL http://www.conservationregistry.org/my_registry. The page features a navigation menu with options like 'VIEW PROJECTS', 'MY REGISTRY', 'NEWS', 'ABOUT', and 'CONTACT'. The 'MY REGISTRY' section is active, showing a dashboard for managing projects, groups, and saved searches. A sidebar on the left provides search filters and state portals. The main content area displays 'My Projects' with one unpublished project, 'Meadowland Breeding Bird Surveys', and 'My Groups' and 'My Saved Searches' sections, both currently empty.

The Conservation Registry

SEARCH

VIEW PROJECTS MY REGISTRY NEWS ABOUT CONTACT

My Projects My Groups My Saved Searches Add a Project

My Registry

My Registry gives you one place to manage Conservation Registry data that you create, find interesting, or want to stay aware of. **My Projects** gives you a dashboard view of projects you're working on and projects you've already published to the Registry. **My Groups** is where you can quickly view projects in groups you define (species, habitat, source of funding, etc.). **My Saved Searches** allows you to search the registry using search criteria you've previously defined - with just one click!

My Projects

Map all Projects

Unpublished Projects [1] Map

Meadowland Breeding Bird Surveys
Location: Crook County, OR
[Show description](#)

Edit | Publish | Delete

Published Projects [0]

You have no Published Projects to display

My Groups

You have no saved Groups to display.

My Saved Searches

Advanced Searches [1]

TNC Edit | Delete

Basic Searches [0]

You have no saved Basic Searches to display.

State Portals
Select a State

Projects in Need

- [Volunteers](#) (1)
- [Approval](#) (0)
- [Equipment](#) (0)
- [Funding](#) (1)
- [Permits](#) (0)
- [Technical Support](#) (0)
- [Planning Assistance](#) (0)

Quick Searches

Done

What are the Benefits?

- **Opens doors to new funding, collaboration, resources**
- **Allows ability to organize projects and highlight project needs – even for non-GIS users**
- **Ability to view the big picture in real time at a number of different scales - strategic**

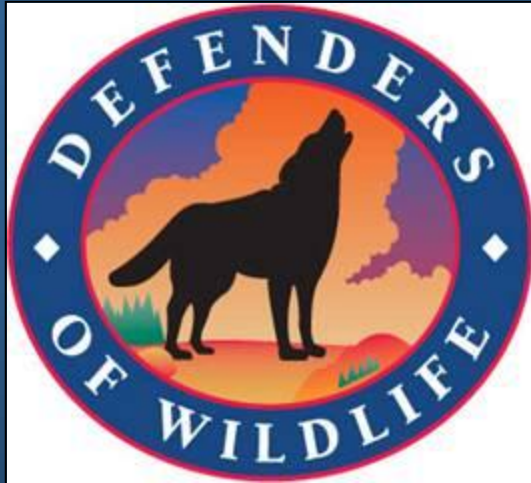


Web site:

www.conservationregistry.org



Contact Information:



Conservation Registry

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Living Lands Project

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www.defenders.org/livinglands