

Partners for Fish and Wildlife Program and Coastal Program

HabITS *Habitat Information Tracking System*

Branch of Habitat Restoration
703-358-2201

July 2004





Coastal Program Mission:

**Working with
others to protect
and restore coastal
ecosystems for the
benefit of fish,
wildlife, and people.**

Partners for Fish and Wildlife Program Mission:



**Working with
private landowners
to restore fish and
wildlife habitat on
private lands.**

Program Budgets and Projects

- Coastal 2004 budget is \$9,874,000 with 80 FTEs
- Partners 2004 budget is \$35,683,000 with 220 FTEs located in all 50 states and Caribbean

Where We are Working Now

- Partners for Fish and Wildlife has 50 offices located in each state and territories.
- Coastal Program has 16 offices located in 14 states.

What is HabITS?

■ Habitat Information Tracking System



U.S. Fish & Wildlife Service
Habitat Information Tracking System



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Wellcome back to HabITS, Dan Hogan!

Please select your Program button on the left.

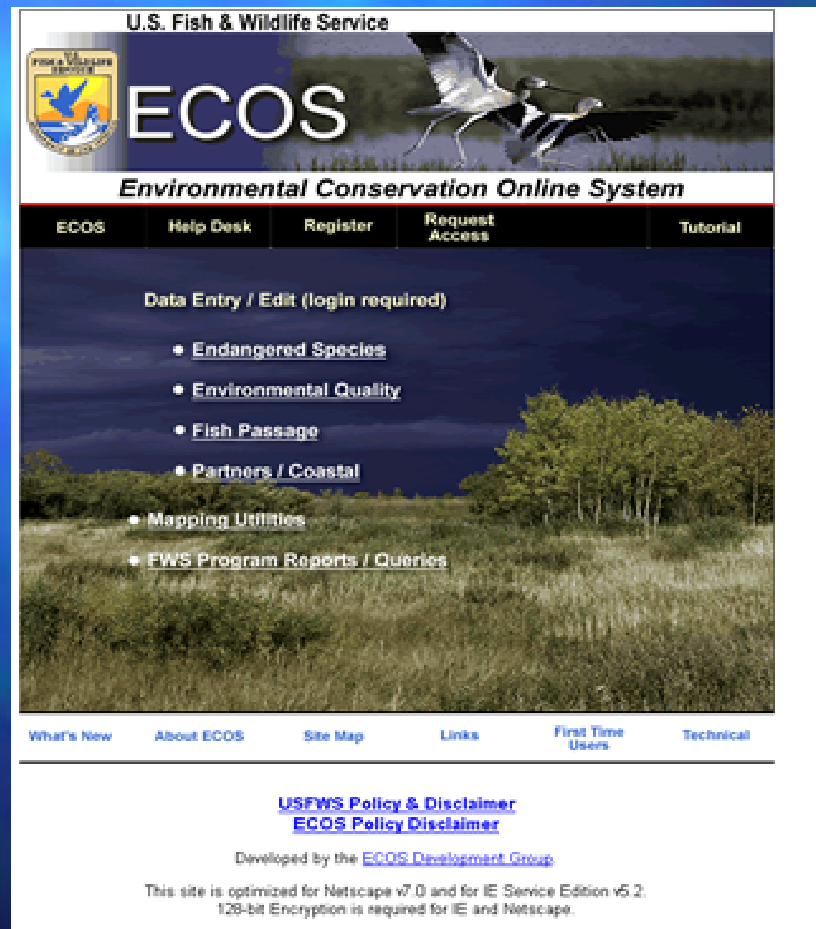
Featured Project

Project Name:	Doughchee Bridge	No Picture.
FWS Office:	(71470) FAIRBANKS FISH AND WILDLIFE FIELD OFFICE	
FWS Contact:	Baine Gross	
Project Status:	Completed	
Completion Date:	Aug 2003	
Description:	The city-owned parcel includes a culverted road crossing at Doughchee Road near North Pole south of Fairbanks, Alaska. The culvert at the crossing is crushed and moves water at such a steep angle that fish cannot move upstream. Beaver Springs Creek passes through the culvert and merges with Chena ...	

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What is HabITS? (cont.)

- Module within the Environmental Conservation Online System (ECOS)



Technology

- Java, JSP, HTML, XML, Struts, OJB, ArcIMS, ArcSDE, Tomcat, Apache, and Oracle.
 - Platform independent, MVC architecture, relational data mapping, spatial database and server.
 - Security compliant.
 - Open source projects.
 - Seamless data integration via XML

What is HabITS? (Cont.)

- Tracks habitat improvement accomplishments and technical assistance workloads
- Internet based (“real time”) system
- Geographically referenced projects
- Program specific: Partners, Coastal, Florida Gulf Program, Washington State Ecosystem Conservation Project

What is HabITS? (cont.)



U.S. Fish & Wildlife Service
Habitat Information Tracking System

Partners for Inland Wildlife Project Number: 4963 Name: Puerto Rico Conservation Trust... > [Help]

> Overview > Project > Mechanisms > Accomplishments > Area > Financials > Species > Monitoring

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PROJECT

Name: Puerto Rico Conservation Trust 2003

Number: 4963

Type: Habitat Improvement

Orgcode: (W1430) BOQUERON ECOLOGICAL SERVICES FIELD OFFICE

Entered By: Leopoldo Miranda-Castro, (707) 851-7297

Point of Contact: Leopoldo Miranda-Castro

Creation Date: Sep 12, 2003

Status: Active

Project Narrative: This project consist on the restoration of ~ 5 acres of shade coffee plantations in Hacienda Buena Vista Natural Reserve, restoration of ~30 acres of tropical dry forest, and the development of a shade coffee educational exhibit at the Buena Vista reserve.

Public Description:

MECHANISMS

Type: Landowner Agreement

Primary Non-FWS Party: Private Individual

Date of Mechanism: Jan 08, 2003

HabITS tracks contact information, agreement data, accomplishment locations, habitat areas, Partner and Service contributions, T&E species, and habitat monitoring by Office and project.



U.S. Fish & Wildlife Service
Habitat Information Tracking System

Accomplishment Project Number: 4963 Name: Puerto Rico Conservation Trust... > [Help]

> Overview > Project > Mechanisms > Accomplishments > Area > Financials > Species > Monitoring

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Add Accomplishment

Edit Accomplishment

Copy Accomplishment

Remove Accomplishment

View Summary

Enter the details of this accomplishment and its location coordinates using one of the formats below:

Mechanism: Cooperative Ag., NGO/land... ▼

Accomplishment Site Title:

Accomplishment Type: Enhancement ▼

Habitat Type: Wetland ▼

Habitat Class: None ▼
None ▼
None ▼
Estuarine ▼

Habitat Sub-Class: None ▼
Forested Wetland ▼
None ▼

What is HabITS? (cont.)



The screenshot shows the top of the HabITS website. It features the U.S. Fish & Wildlife Service logo and the title "Habitat Information Tracking System". Below the title is a navigation bar with "Documentation" and "Homepage" links. The main content area is titled "Help with HabITS" and contains a paragraph about the system's features and a link to the "ECOS Help Desk". Below this is a section titled "HabITS Links" with a list of links: "Terms and Definitions", "User Guide", and "Tutorials".

U.S. Fish & Wildlife Service
Habitat Information Tracking System

[Documentation](#) [Homepage](#)

Help with HabITS

This page provides links and information regarding the Habitat Information Tracking System, including field descriptions, a data dictionary, links to generate reports, a glossary of terms, and other useful tips. If you are unable to find the information you are looking for, please contact the [ECOS Help Desk](#).

HabITS Links

- [Terms and Definitions](#)

A list of terms and definitions that are particular to the HabITS application or that are in need of further clarification. Additional definitions and policies can be found on the Partners for Fish and Wildlife [policy](#) page.

- [User Guide](#)

The HabITS user guide is an online supplement to the downloadable tutorials. The user guide contains screen captures and general instructions for each component of the application. The user guide provides information on how to navigate through the system.

- [Tutorials](#)

HabITS tutorials are executable files that can be downloaded and run on your local system. The tutorials demonstrate the various modules within the application and

HabITS provides definitions of habitat and accomplishment types, a data dictionary, user guides, on-line tutorials, and multiple custom query and standard reports.



This screenshot shows the full HabITS homepage. It includes the same header as the previous image. The main content area is titled "Which report would you like to generate?". Below this title are three sections: "HabITS Query Reports", "HabITS Standard Reports - Coastal Program", and "HabITS Standard Reports - Partners Program". Each section contains a list of links to specific reports. A sidebar on the left contains a vertical list of links: "Partners", "Coastal", "Data Tools", "Reports", "Mapper", "User Guide", "Home Page", "ECOS", and "Logout".

U.S. Fish & Wildlife Service
Habitat Information Tracking System

[Home](#) [Help!](#)

Which report would you like to generate?

HabITS Query Reports

- [Accomplishments](#)
- [Partners and Contributions](#)
- [Partnership Monitoring](#)
- [Project Summary Report](#)

HabITS Standard Reports - Coastal Program

- [Regional - Upland Habitat](#)
- [Regional - Wetland Habitat](#)
- [Regional - River/Stream Habitat](#)
- [Regional - Other Structures](#)

HabITS Standard Reports - Partners Program

- [Regional - Upland Habitat](#)
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What Does HabITS Include?

■ Habitat accomplishments

- To the project level
- By program
- By location
- By ownership (private, State, Federal, and tribal lands)



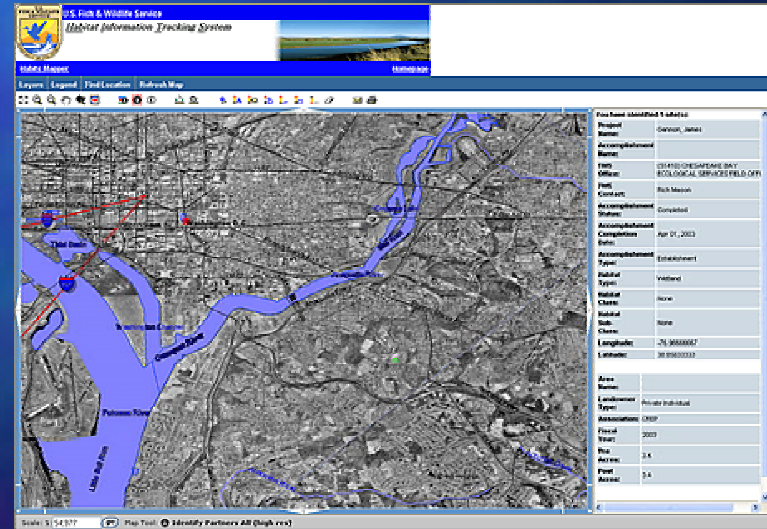
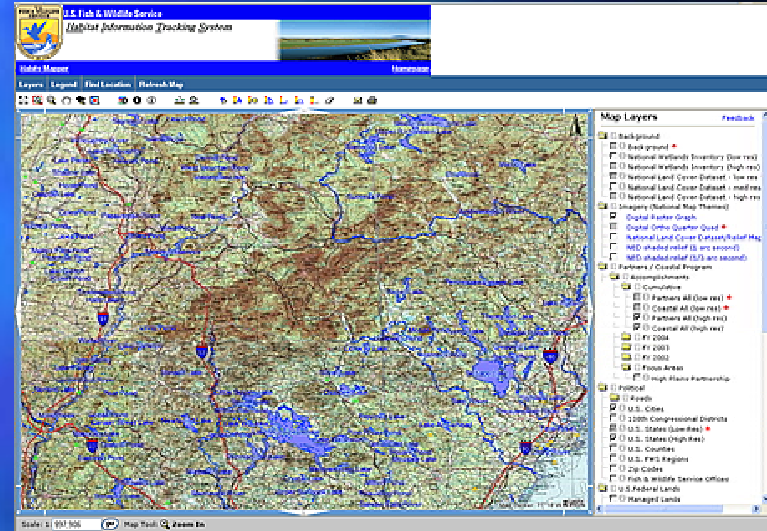
What Does HabITS Include? (cont.)

- By habitat type
- Special projects (e.g., Congressionally directed efforts)
- By cost (Service contribution)
- By partner (and partner contribution)
- Relevant existing data from other systems
 - Threatened and Endangered Species System
 - International Taxonomic Information System
 - Fisheries and Fish Passage Decision Support System

■ **Technical assistance workloads**

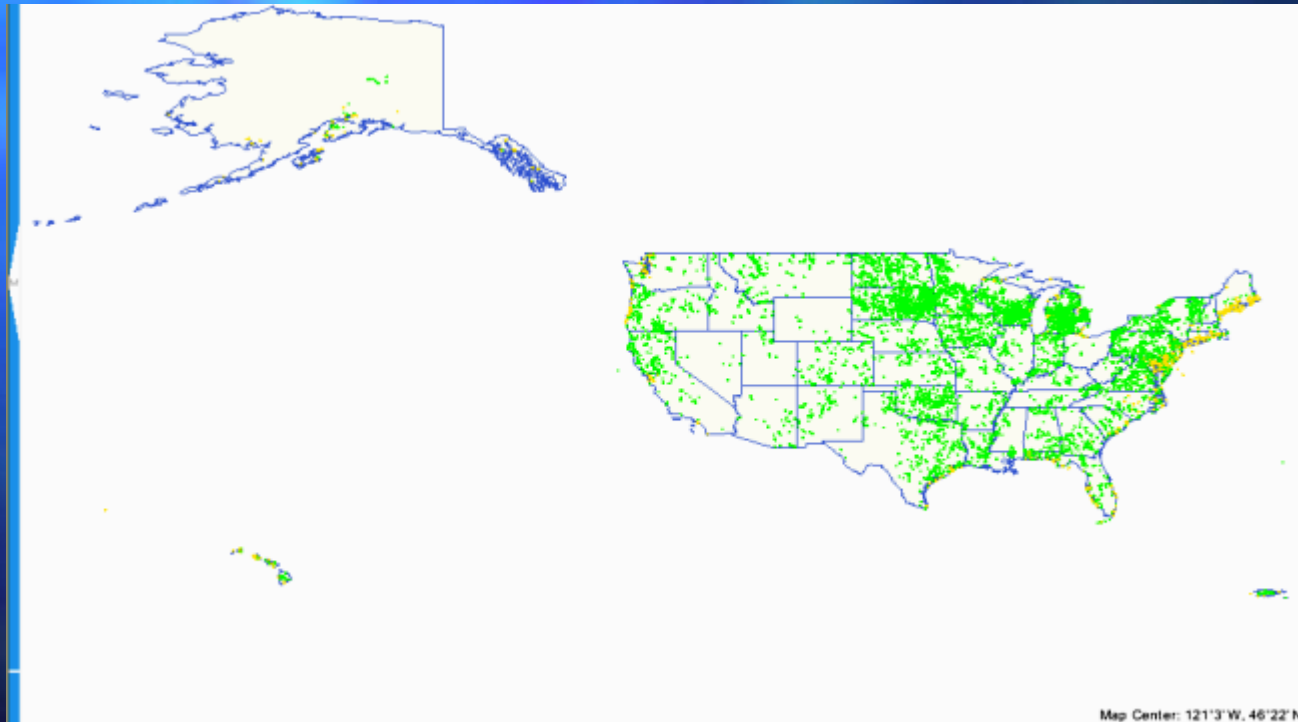
■ **Monitoring information**

- Interactive map component
- Links to external data
 - USGS National Map
 - TerraServer



Habits Accomplishments

Partners for Fish & Wildlife and Coastal Program habitat improvement accomplishments in the United States FY02-04.



Why Do We Need a Tracking System?

Inquiries:

- Director's office
- DOI
- Partners
- NGO's
- Other Federal agencies
- Congress
- White House
- GAO
- OMB
- Service budget office

Why Do We Need a Tracking System? (cont.)

- **National reporting needs:**
 - GPRA
 - Budget development and justification
 - Strategic planning
 - Regional allocations
 - Outreach
- **We MUST account for what we do**

GPRA End of Year Reports

Program Performance Summary - Habitat Conservation FY 2004 Completed Accomplishments															
Measure	Program	Accomplishment	Region 1	Region 1 Goals	Region 2	Region 2 Goals	Region 3	Region 3 Goals	Region 4	Region 4 Goals	Region 5	Region 5 Goals	Region 6	Region 6 Goals	Region 7
HABITAT IMPROVEMENT															
Acres of Uplands															
	Partners for Fish and Wildlife	Restored	6,417.24		40,322.00		5,704.10		8,861.83		1,971.10		21,495.90		8.00
		Enhanced	2,181.30		70,302.10		1,637.70		3,996.17		13.00		156,221.48		
		Established			1.50		596.85		280.00		258.80				
		Sub-Total	8,598.54	25,597.00	110,625.60	53,000.00	7,938.65	9,673.00	13,138.00	8,218.00	2,242.90	1,885.00	177,717.38	15,000.00	8.00
		Protected	49,000.00		3.00		791.00						14,552.00		
		Maintained	6,149.40										80.00		
		Consolidated Total	63,747.94	25,597.00	110,628.60	53,000.00	8,729.65	9,673.00	13,138.00	8,218.00	2,242.90	1,885.00	192,349.38	15,000.00	8.00
		Acres Treated for Invasives	430.00	3,074.00	40.00	4,801.00	8.00	2,363.00	4,911.84	2,000.00	0.00	310.00	5,947.20	23,899.00	0.00
		NET	63,317.94	22,523.00	110,588.60	48,199.00	8,721.65	7,310.00	8,226.16	6,218.00	2,242.90	1,575.00	186,402.18	8,899.00	8.00
	Coastal Program	Restored	34.00				240.00				50.49				
		Enhanced			529.00		560.00		15.00		0.22				
		Established									52.27				
		Sub-Total	34.00	261.00	529.00	582.00	800.00	83.00	15.00	35.00	102.98	597.00	0.00	0.00	0.00
		Protected		0.00		0.00		0.00	1,193.00	136.00	309,449.62	4,766.00		0.00	
		Maintained									419.35				
		Consolidated Total	34.00	261.00	529.00	582.00	800.00	83.00	1,208.00	171.00	309,971.95	5,363.00	0.00	0.00	0.00
		Acres Treated for Invasives	0.00		0.00		0.00		0.00		16.00		0.00		0.00
		NET	34.00	261.00	529.00	582.00	800.00	83.00	1,208.00	171.00	309,955.95	5,363.00	0.00	0.00	0.00
Number of Upland sites															
	Partners for Fish and Wildlife	Restored	28		28		169		104		84		118		1
		Enhanced	15		47		67		22		3		169		
		Established			1		31		8		8				
		Sub-Total	43		76		267		134		95		287		1
		Protected	1		2		5						2		
		Maintained	3		1		5						1		
		Consolidated Total	47		79		277		134		95		290		1
	Coastal Program	Restored	5				1				6				
		Enhanced			2		1		1		3				

HabITS is used to produce Program accomplishment and performance reports.

HabITS Database Snapshot

July 28, 2004

- Registered HabITS users: 271
- Total Habitat Improvement projects: 12,274
- Total Technical Assistance projects: 4,501
- Total partners: 6,248
- Total accomplishment sites: 23,488

What Does HabITS Do For Us?

- Replaces inconsistent reporting methods
- Encourages data standardization
- Improves accountability (OIG, OMB concerns)
- Analytical and predictive tool
- Reports available in a variety of formats to Field, Regional, and Washington Office

What Does HabITS Do For Us? (cont.)

- Outreach (images, maps, charts, document storage)
- Inter-agency and Intra-agency data sharing

How do we share data?

- Limited custom query data exports (Excel, Oracle, Access, XML)
- Web services allow real-time data reads and report queries

Challenges:

- Technology Overhead
- Connectivity
- Data structure

Advantages:

- Data Synchronization
- Data Standards
- Reach Common Goals
- Infrastructure