

Listing of Strategic IT Services

Dept/Agency:

Florida Fish and Wildlife Conservation Commission

Prepared by:

Ken Snyder, Patrick Sampey

Phone:

850-414-2870

Date Completed:

10/15/2010

Item #	Strat App Svc Description
1	Recreational Services
	Recreation Services provides fish and wildlife viewing recreation opportunities for residents and visitors to Florida in a sustainable manner. Recreation Services works with local communities to: conserve habitat; attract wildlife tourists; and provide planning, design, and public use amenities on FWC-managed properties; promotes wildlife viewing outreach and other areas of interest such as the Great Florida Birding Trail and Paddling Trails.
1.A	FACILITIES AND TRAILS DATABASE: FWC is the landowner or lead managing agency for more than 1.4 million acres of the Wildlife Management Area system. On these WMAs, FWC is responsible for providing quality wildlife conservation and recreation opportunities, including hunting, fishing, wildlife viewing, hiking, biking, horseback riding, paddling, scenic driving and camping. The Facilities and Trails database holds locations and additional information about the various recreation facilities, interpretive signs and trails on each lead area. This information is currently used for internal reports and Florida Forever accountability data, but Phase II of this project will push this information out to the public as a resource for finding recreation opportunities and locations.
1.B	GREAT FLORIDA BIRDING TRAIL: The Great Florida Birding Trail (GFBT) is a program of the FWC. At its core is a network of 489 sites throughout Florida selected for their excellent bird watching or bird education opportunities. This 2,000-mile, self-guided highway trail is designed to conserve and enhance Florida's bird habitat by promoting bird watching activities, conservation education and economic opportunity. The FWC has developed a new interactive, trip-planning tool using Google™ Maps to help birders find destinations and species of interest along the GFBT. The public can search by amenities (such as handicapped accessibility), habitats and 40 featured bird species to choose which GFBT sites they wish to visit. Access to the application is open to the public, but FWC staff are required to have a network user name and password.
1.C	OUTFITTERS AND GUIDES DATABASE: This application maintains a database of service providers of outfitters and guides for freshwater fishing, saltwater fishing, hunting and wildlife viewing purposes. Access to the application is open to the public, but FWC staff are required to have a network user name and password.
1.D	VOLUNTEER (VOLTRACK) : This application tracks FWC's volunteer hours and is also a reporting database. The database keeps records of volunteer contact information and volunteer hours categorized by FWC Division or Office, volunteer program, and volunteer activity code. The database also produces a variety of reports, including volunteer hours by date and program. This data is used to produce volunteer program quarterly and annual reports.

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1.E	WMA RECREATIONAL ACTIVITY SEARCH: This application allows the public to search online for recreational opportunities on Wildlife Management Areas. Here, the public can find areas that offer the activity of interest. Access to the application is open to the public, but FWC staff are required to have a network user name and password. See Web Services documentation: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx
2	Licensing & Permitting
	Licensing and Permitting Service provides a single point of contact to apply for licenses and permits required by the FWC in accordance with state laws, rules and regulations as well as a means to obtain information regarding these activities; such as commercial and recreational fishing, hunting, captive wildlife, recreational use of management areas.
2.A	ANTLERLESS DEER/DEER DOG: Provides free deer dog permits and Antlerless deer permits and tags to applicants - heavily used from August - February with significant maintenance. These are scheduled for merger into the online permit system by October 2010.
2.B	BOATNET: Searches Total Licensing System (TLS) for vessel data - used by tax collectors offices externally.
2.C	COMMERCIAL SALTWATER LICENSE (CSL): Large web based system used by Licensing and Permitting staff to process and issue commercial saltwater licenses, endorsements, and trap tags; to invoice license holders; and to accept and process payments for licenses.
2.D	DOR CHILD SUPPORT ENFORCEMENT - TLS EXPORT: This application send a file of licensing data to the Dept of Revenue via FTP every 2 weeks. Individuals who are in arrears making child support payments may be subject to license revocation.
2.E	FWC GATORNET - ALLIGATOR LICENSE & TAG SEARCH: Gator permit and tag information for internal FWC use. Incorporate into re-write for Gator System.
2.F	FWC PERMIT SYSTEM: This application provides a framework to support permit administration, application, evaluation, issuance, and monitoring as a single on-line permitting system. It provides flexible automated work flow and can be used to support most permitting functions handled by the Commission. Invoicing and payment tracking is provided to support permits that require a payment before they are issued. In addition to the permitting framework, a support application allows developers to generate the objects necessary to implement new permits in the framework. New permits are being continuously implemented in this framework. <u>Recovery priority: 1 for HSC's permits, 4 for Aquatic Plant Control Permits</u>
2.G	FWC SPORTLICENSENET: Allows FWC staff to search Total Licensing System (TLS).

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2.H	FWC SYSTEMS MENU (INTERNAL FRAMEWORK OF FREE PERMITS): FWC Systems menu was developed as the backbone of the Free Permits system and as the internal menu system of all Office of Licensing & Permitting (OLP) applications developed by Office of Information Technology (OIT). The systems menu is built in Oracle (database and Oracle PL/SQL server pages) and will be retired when all remaining Oracle applications for OLP have been re-written in .Net/C#. This internal application is used by OLP to manage the Free Permits menu system, permission, manage free permits and handle reporting for free permits. Currently the internal free permits and the Antlerless Deer/Deer Dog System remain on the FWC Systems menu. The Free Permits include parking permits for medically disabled individuals.
2.I	GATOR INTERNET UPLOAD: Enhanced FoxPro data in the Gator system is uploaded daily via batch file process to Oracle tables and made available via Web-based applications. Once the Gator system is re-written in SQL Server and DotNet, this application will no longer be needed. If this process still exists when FWC has migrated off Oracle, the upload will need to be re-written for SQL Server.
2.J	ISSUANCE: Issues Tarpon tags, replacement forms and senior licenses to counties.
2.K	L&P INFORMATION SYSTEMS (LPIS) WEB PAGE - INTERNAL: Management site for all licenses and permits in the agency. LPIS maintains all information about licenses/permits, such as interest groups (that may be interested in the license), species that the license pertains to, application and information links, license tiers, license trust fund information, activities/categories assigned to the license (that the public might use to help find the license for which they need to apply), license points of contact, and authorities and exemptions for the license. LPIS keeps track of the license status, as well as the license to authority/exemption status, and helps provide a work flow as new licenses and permits are created by the agency. Certain pieces of data that is tracked are displayed in the LPIS public search application.
2.L	L&P INFORMATION SYSTEMS (LPIS) WEB PAGE - PUBLIC SEARCH: A search screen to help the public determine what permit(s) they need. Searching is available by desired activity, purpose (Commercial, public, recreational), species, and residency. The search screen displays information such as permit description, cost, how to apply, and other additional information links.
2.M	LICENSE GET (GATOR/COMMERCIAL) : Program changes commercial and gator licenses from WA (wait) status to PR (print) status if LE has approved the licenses. Also puts gator into WA (wait) status if a search against ArrestNet has resulted in a match.
2.N	LICENSING - ALLIGATOR: Client server/desktop application used to process and print alligator hunt permits and tags. Has 2 distinct functions (Public Hunt and Trapper/Farmer Permits).
2.O	LICENSING - COMMERCIAL CAPTIVE WILDLIFE LICENSE SYSTEM : Web-based DotNet application used to process, print, and report on commercial freshwater and captive wildlife permits and track money from the sale of those permits.

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2.P	LICENSING - CROSSBOW/DISABILITY PERMIT: Client-server system to print free Disability and Crossbow permits - heavily used by Licensing and Permitting - printed on special pre-printed permit paper to laser printer. Disability allows for input and print of free Disability permit (qualified by SSI, VA, etc.) - resides in same application as Crossbow but uses different tables, forms, reports. May become part of free permits/permitting system.
2.Q	LICENSING - LIFETIME/5 YEAR SYSTEM: Client server system to pull in Lifetime/5 Year Recreational license sales from the Total Licensing System (TLS) and print plastic card with name, license and privileges. Heavily used year round.
2.R	LICENSING - MOBILITY: Mobility impaired access to WMAs. The application resides on the user's workstation and OIT has not had much interaction with it. Consists of 2-3 tables, 2-3 queries a form with buttons and a few reports.
2.S	LICENSING - RECUSE (RECREATIONAL USE): Recreational Use is an Oracle PL/SQL web-based screen that generates invoices from data imported from the Total Licensing System (TLS).
2.T	LICENSING - SPECIAL OPPORTUNITY: Special Opportunity is an access system where an FTP file from the Total Licensing System (TLS) vendor is imported to generate invoices or reject post cards for hunt applicants.
2.U	MIGRATORY BIRD HUNTING PERMITS : Migratory birds resides in the FoxPro REPORTS application which also houses the "Comp Report", Void Report, Projections Report.
2.V	PUBLICATIONS MANAGEMENT SYSTEM: System to track public requests for FWC literature. Allows high volume users to order publications to preposition materials with their counties. Access to the application is open to the public, but FWC staff are required to have a network user name and password.
2.W	RIGHT NOW: FWC's contact center applications (http://myfwc.custhelp.com/) uses RightNow technologies to empower both customers and staff to find what they need quickly. Customers can find information 24x7. The customer interaction thread is maintained with RightNow's contact center applications to ensure a consistent cross-channel customer experience. FWC staff provide a great customer experience by presenting timely, contextually relevant information based on the interaction at hand.
2.X	SPORTLICENSENET -RECREATIONAL LICENSE SEARCH (ALSO CALLED TAX COLLECTOR LOOK-UP): FWC SportLicenseNet provides view access to Recreational licenses for bait/tackle shops, tax collectors and other vendors.
2.Y	TOTAL LICENSING SYSTEM (TLS): Vendor-provided and vendor-supported licensing system used to sell a number of commission licenses, via credit card.
2.Z	TOTAL LICENSING SYSTEM - REPORT MANAGER: This application produces management reports against the Total Licensing System (TLS) database in DB2. Reports are requested from a menu list.

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2.a	TOTAL LICENSING SYSTEM - SALES AND CUSTOMER SUPPORT FOR SPORT LICENSE DEMOGRAPHIC REQUESTS: This application produces license lists from the Total Licensing System (TLS) data base available for sale. Automated data requests for standard data sets are run after-hours weekly (hunting, freshwater, saltwater, all licenses and permits) to minimize wait time. Custom data requests are completed as needed and go through L&P. Automated requests have been re-written to use SSIS packages. All requests that are not included in Report Manager System must be handled as custom queries.
3	Law Enforcement
	The Law Enforcement Service ensures compliance with fishing and hunting regulations, state and federal laws that protect threatened and endangered species, laws dealing with commercial trade of wildlife and wildlife products, boating safety laws and regulations, performs search and rescue, and provides information and law enforcement service, protection and assistance to citizens and visitors to the state.
3.A	ACISS (INCLUDING THE TIPS INPUT WEB TOOL): Investigations Case Management System for management and tracking of Law Enforcement (LE) investigations. Includes the ACISS Tips Input tool. ACISS Web is composed of two main modules. The first module, Entry-Update, is used to enter information regarding core entities. Core Entities are subjects, addresses, vehicles, telephone numbers and financial instruments that are specific to a particular investigation. The Entry-Update Module is also where cases, case supplements or reports, tips and tasks, DNR and WIRE, property and evidence, pawn, and UCR information is entered and then linked to other entities. The second module, Inquiry, is used to research potential relationships between investigation entities that may have been entered previously via the Entry-Update Module. It is used to preview reports and to display relationship charts using the Adobe SVG Viewer, ACISS Links and Adobe Acrobat Reader.
3.B	ACTIVITY TRACKING - LE - TIES INTO ARRESTNET FOR PERSONNEL INFORMATION: Maintains database of Law Enforcement (LE) activities and special projects. Time to re-write will probably change based on requirements.
3.C	AVIATION FLIGHT LOG SYSTEM - LE/DOIS: Used to track and report all use and costs associated with FWC aircraft. Enter and maintain FWC flight logs.
3.D	BOATING ACCESS AND WATERWAYS FACILITY INVENTORY MANAGEMENT SYSTEM: Provide management and query capability of the marina and ramps inventory for the State of Florida. Provides the spatial component for the Waterway Markers-LE application.
3.E	BOATING ACCIDENTS: Maintains database of all boating accidents in Florida; reports through a Web Service these statistics to the United States Coast Guard (USCG).
3.F	BOATING SAFETY (BOBBERNET): Maintain and issue permits for required use of Personal Watercrafts (PWCs).

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3.G	CITATION AND MAINTENANCE (ARRESTNET) - LE: Enter and maintain all Uniform Boating Citations (UBCs) written statewide and FWC written citations. Includes: 1) Personnel component to track all LE positions, assigned officers, academic education, and related personnel staffing activities; 2) StatuteNet component to maintain statute numbers and associated items used in ArrestNet; and 3) Warnings component to enter and maintain FWC warnings.
3.H	COMMUNICATIONS WORK ORDER MANAGEMENT SYSTEM - LE - TIES INTO ARRESTNET FOR PERSONNEL INFO: System to allow entry of communication equipment work requests and track technician time to repair and general repair statistics.
3.I	CTS AMERICA SYSTEM (SMARTCOP): System that houses several different systems that allows officers in field to issue electronic, query FCIC/NCIC, complete boating accident reports. New component to add Data Warehouse function which will store data from all State LE Agencies.
3.J	DERELICT VESSEL - LE - TIES INTO ARRESTNET FOR PERSONNEL INFORMATION: Web system to enter, update and track vessels reported as derelict.
3.K	EVIDENCE MANAGEMENT SYSTEM - LE - TIES INTO ARRESTNET FOR PERSONNEL INFORMATION: Enter, maintain, track and update all Law Enforcement (LE) evidence items statewide.
3.L	MANDATORY EDUCATION VIOLATIONS (MEV) - TIES INTO ARRESTNET FOR CITATION INFORMATION: Tracks and reports thru ArrestNet violators required to take education. Based on citation history. This application is part of the ArrestNet application.
3.M	PROPERTY INVENTORY - LE - TIES INTO ARRESTNET FOR PERSONNEL INFORMATION: Enter, maintain, track and update all Law Enforcement (LE) property items state-wide.
3.N	SHOPNET - LE - TIES INTO ARRESTNET FOR PERSONNEL INFORMATION: Provides Law Enforcement (LE)'s North Florida Repair Facility with a comprehensive management system for tracking, scheduling, repairing/outfitting, inventory control of state-wide repair operations. Permits accountability for in-shop and mobile repair crews to perform on-site or in-the-field operations with inventory and activity management.
3.O	STOLEN VESSEL-FCIC/HSMV DATA - LE: Download of stolen vessel data from FCIC & HSMV for investigations research.
3.P	TRAINING DATABASE: Web-based database system for tracking Officers training records. System is hosted by vendor.
3.Q	WATERWAY MARKERS - LE: Maintains agency database of approved waterway markers. Also is used to track applications and requests.
3.R	WATERWAY MARKERS SEARCH: Internet search and print for waterway marker system.
4	Hunting and Game Management

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	The Hunting and Game Management Service provides for the safe and responsible use of wildlife species that are hunted; offers scientific expertise on game wildlife such as alligators, deer, small game, waterfowl and wild turkeys; develops science-based management strategies for game wildlife, including hunting regulations; provides hunter safety training and certification to citizens through volunteer instructors; develops and manages public shooting ranges; and develops regulations and brochures for wildlife management areas, wildlife and environmental areas, and other public hunting areas throughout the state.
4.A	BUCK REGISTRY: Entry and scoring of buck killed in Florida using Boone & Crocket scoring system
4.B	CROCODILE HANDLING EVENTS SYSTEM (FORMERLY STATEWIDE CROCODILE MANAGEMENT PROGRAM): New system to manage endangered Florida crocodiles.
4.C	DEER TRANSECT DATA: This is a new database that was created in SharePoint/InfoPath/SQL Server 2005 when DeerNet was ported over. HSC, HGM and FWRI are involved with this database. Not finalized yet.
4.D	DEERNET INTRANET SITE: Several databases used to collect harvest data and deer morphology data from the WMA's. This has been integrated into SharePoint using InfoPath forms attached to SQL Server 2005, but these haven't been adopted yet. HGM also makes use of the data. Additional documentation available here: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx
4.E	HUNTER EDUCATION SYSTEM (WITH REPLACEMENT CARDS): Maintain and provide on-line course registration. Keeps records of all Hunter Education (HE) students. Provides for re-issuance of duplicate Hunter Safety cards for properly authorized user.
4.F	MALLARD PERMIT-MALLARD CONTROL PERMIT DATABASE (INTERNET): Public can apply online for a free Mallard permit. See Web Services Documentation: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx
4.G	MANAGED AREA DATABASE: This is a standard list of FWC-managed areas, which is used in producing the annual No-Net-Loss of Hunting Lands report. It is also used in the ported DeerNet forms, as well as the ORS Facilities and Trails Database.
4.H	ON-LINE HUNTER SAFETY COURSE: Provide and maintain the on-line Hunter Safety course
4.I	STATEWIDE ALLIGATOR HARVEST DATA SEARCH (FORMERLY GATOR HARVEST): On-line data form that provides data to Statewide Nuisance Alligator System. See Web Services Documentation: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx
4.J	STATEWIDE NUISANCE ALLIGATOR PROGRAM (SNAP): Manages data and issues permits for all Nuisance Gator complaints state-wide.

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5	Habitat & Species Conservation
	The Habitat and Species Conservation Service supports healthy, diverse fish and wildlife populations for future generations and the greatest benefits to fish and wildlife species including: aquatic habitat management for marine, estuarine and freshwater systems; habitat management for terrestrial systems, including public lands management; land acquisition; invasive plant management in public waterways and public conservation lands, scientific support and assistance for habitat-related issues to private and public sector landowners; species management and recovery plan development; non-native species coordination focused on prevention and control divisions; and Manatee, Florida black bear, Florida panther and sea turtle population recovery.
5.A	AHRE FUNDING APPLICATION : This application is used to receive internal applications to fund projects designed to enhance or restore freshwater aquatic habitat in Florida.
5.B	AQUATIC HABITAT MANAGEMENT INFORMATION SYSTEM: This system will store data on how aquatic habitat management activities affect plant communities and wildlife species in different waterbodies across the state. Pre- and post-treatment data may be collected on various habitat parameters in order to determine if the management activities are having the desired effects. Fish populations may be sampled in certain cases (e.g., when habitat modifications are being made in streams). <u>Application is in the design phase and does not exist yet.</u>
5.C	AQUATIC PLANT SURVEY: Allows for the planning, scheduling, and workflow monitoring of surveys. Provides internet-based data entry. Storehouse for 27 years of aquatic plant survey data on Florida public waters. This application is part of the PMARS process. This is the remaining piece running at DEP and this is scheduled to move to FWC in the first quarter of 2010-11 and be incorporated into the PMARS application.
5.D	BEACH-NESTING/SHOREBIRDS (INTERNET): FWC and selected co-operators enter beach-nesting bird data into this application each spring/summer. The data can then be summarized in various ways. IT staff perform maintenance work on the database annually between Dec-Feb. A redesign has been proposed to incorporate Google Maps and possible changes to the data-collection protocols. See Web Services Documentation: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx
5.E	BEAR MANAGEMENT DATABASE: Database of reports of bears from the public, including sightings and conflicts, as well as records of agency actions, including carcass retrieval, captures, and research activities.
5.F	BEAR RANGE DATABASE: GIS shapefiles for creating primary range (contiguous areas with evidence of reproduction) and secondary range (evidence of bear presence but no females), comprised of grid cells with values of either absence or presence across the state. Presence values contain evidence (roadkill, bear report, capture, hair snare, etc).

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5.G	CAPTIVE FACILITY DATABASE: Detailed listing of marine turtles held in captive facilities; unique ID for each animal (except hatchlings); anomalies; source/origin of animal; tagging data; size class; final disposition of each animal.
5.H	CREEL ANALYSIS PROGRAM: This database contains creel survey data from fisheries projects. This database is currently under development and will replace the project level Access databases used to enter and analyze creel survey data. The current data size is 142 MB. Data entry and analysis programs will be written in Delphi version 5.
5.I	ERA TOOLS: ERAtools is pair of applications: an ArcMap report-writing extension; and a desktop application which is used to create the analysis definition files used by the ArcMap extension. ERAtools for ArcGIS was cooperatively developed by the Florida Fish and Wildlife Conservation Commission (FWC) and DEP. ERAtools is currently being implemented by FWC, the Florida Division of Emergency Management, and DEP, among other agencies.
5.J	EXOTIC SPECIES: This database contains exotic animal species information and observations from Florida. Current data size is 27 MB. Currently used mainly for tracking exotic species and mapping. Long range plans are for the database to provide data for the non-native wildlife web site. The front-end Delphi application is used to enter and manage the data.
5.K	FLORIDA WILDLIFE CONSERVATION GUIDE: Interactive product (puff and PowerPoint) to allow public users to access information regarding wildlife conservation, land use conservation, and permitting. IT service components include maintenance of pages, online survey results, and email listserve.
5.L	FOREST STEWARDSHIP: The Forest Stewardship database contains information about assistance provided to private landowners. DOF staff enter data in to the database. Additional documentation available here: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx
5.M	GRASS CARP PERMITTING SYSTEM: Triploid Grass Carp (TGC) permit system allowing some on-line permits to be issued and other requests routed to the appropriate biologist for review based on truth tables.
5.N	IMAGE ARCHIVE CATALOG (INTRANET): This searchable database contains images of wildlife and is searchable by related keywords and parameters for images stored in three different resolutions on the server. It has not been updated recently and should be kept until an agency-wide image gallery is developed.
5.O	ISM RESEARCH LIBRARY (TEQUESTA): Imperiled Species Management (ISM) research materials used by FWRI and HSC on programs such as marine turtles. It contains the following data: Article/report/manuscript title; author; date of publication; publication; subject; Marine Turtle Permit #; location within the library binders.
5.P	JPERMIT: Used to issue permits for aquatic plant control pursuant to Chapter 68F-20 FAC. Tracks Chapter 120FS administrative clock. Allows for on-line permit applications. Fully automated work flow. The FWC Permit System will be modified to issue Aquatic Plant Control Permits and this system will no longer be needed.

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5.Q	LAND MANAGEMENT INFORMATION SYSTEM: The Land Management Information System (a.k.a. Objective-based Vegetation Management -OBVM- program) collects data on how land management activities affect plant communities and wildlife species on our managed lands; as well, houses Wildlife Management Area infrastructure, vegetation and wildlife monitoring data and other wildlife habitat and natural resource data administrators and land managers need to determine funding allocation, make land management decisions and track progress towards pre-set management objectives.
5.R	LANDOWNER ASSISTANCE PROGRAM - LAND MANAGEMENT INFORMATION SYSTEM: The Landowner Assistance Program (LAP) has contracted with URS Corporation to design and develop a system to manage data associated with habitat management on private lands. This data management system will contain spatial data for landowner boundaries, habitat, and implementation of management practices. Data regarding program participation, type of management, and habitat condition will be stored for specific treatment areas. This information will provide LAP biologists and managers with data to support coordinated activities, focal area development, management decisions, assessment of plant community conditions, and assessment of the effectiveness of land management activities on the plant community structure.
5.S	LANDOWNER ASSISTANCE PROGRAM - LANDOWNER APPLICATION: The Landowner Assistance Program (LAP) has developed this application for landowners to submit necessary information related to participation in financial assistance for conservation activities on their properties. Additional documentation can be found here: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx
5.T	LANDOWNER ASSISTANCE PROGRAM - LANDOWNER FINANCIAL ASSISTANCE DATABASE (ACCLARIS ACCELERATOR): The Landowner Assistance Program (LAP) has contracted with ACCLARIS, Inc. to develop an inter-active, web-based landowner application and financial assistance tracking system used for administering LAP cost-share payments
5.U	MARINE FACILITIES DATABASE: GIS shapefiles for creating a statewide boat facilities inventory for manatee habitat based on available information.
5.V	MARINE TURTLE DISORIENTATION MONITORING: Summary of disorientation reports submitted by Marine Turtle Permit Holders; includes date and address, city, county of disorientation, address of suspected light; type of light visible from beach or other light source; number of adult or hatchling sea turtles impacted; number found live; number found dead; identity of reporter; number of years disorientations occurred at this address.
5.W	MARINE TURTLE PERMITS: Summary of Marine Turtle Permits issued pursuant to Florida Statute 379.2431 (1) and FAC Rule 68E-1. Lists Permit Holder's name, affiliation, address, contact information, authorized activities, nesting beach survey area; volunteers included on the permit.

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5.X	NON-NATIVE AMNESTY: This database contains information about the non-native amnesty program, adopters, amnesty day events, and species surrendered at the events. The SQL database is the main database for the amnesty program and event information is downloaded to Access databases to manage the events in the field. Current data size is 11 MB. This database is mainly used by Exotic Species Coordination Section personnel. There are front-end applications written in Delphi version 5 to manage the databases.
5.Y	OBJECT-BASED VEGETATION MANAGEMENT (OBVM): Upload data for vegetation sampling.
5.Z	PB2 DATABASE: An intranet database used to compile data for our annual PB2 performance measures. Data from the Forest Stewardship database automatically feed into this database.
5.a	PLANT MANAGEMENT AQUATIC REPORTING SYSTEM (PMARS): Internet based application to automate the aquatic plant management work plan development process, provide budgeting and accounting capabilities, and track plant control activities on public waters. Provides support for the management of the Aquatic Plant management contracted work plans. Supports development of annual work plans with local partners, generation of task assignments to contractors, validation and regular payment of invoices and 454 activities.
5.b	SPECIES RANKING: The Species Ranking database ranks species in terms of their biological status and need for management attention. Users input changes into an Access database, which is then uploaded into SQL Server on an annual basis. Reporting Services can then be used to generate reports from the data and download the data. HSC and FWRI both work on this system.
5.c	SPECIESNET: This application is used to track species of greatest conservation need. Application is not operational and will not be for the foreseeable future.
5.d	SPECIMEN LOAN: Specimen Loan tracks the possession of a loaned specimen to another institute. A loan is the temporary, physical transfer of specimens from one institution to another without transfer of ownership. Normally, loans are made to institutions, not individuals. This applications includes the following: Loanee name & contact information; Date of Loanee signature; Date of FWC signature; Species & detailed listing of specimens.
5.e	STATE WILDLIFE GRANTS FUNDED PROJECTS (INTERNET): Public can search on projects which have been funded by the Wildlife Legacy Initiative's State Wildlife Grants Program and download final reports.
5.f	UPLAND INVASIVE PLANT CONTROL PROJECTS: Warehouse of all upland invasive plant control funded by Invasive Plant Management (IPM) Section. Includes species and acres controlled, treatment method, costs, contractor, control sites and cooperator.
5.g	WILDLIFE OBSERVATION (WILDOBS) DATABASE (INTRANET): The Wildlife Observation (WildObs) Database is used to retain observations for species of interest in Florida. Additional documentation can be found here: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx

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5.h	<p>WMA ACTIVITY PLANNING AND REPORTING DATABASES (INTRANET): Used to generate quarterly reports for cost-accounting on the Wildlife Management Areas and to produce annual plans for the next fiscal year's activities. IT staff prepare the quarterly data they receive from Finance and Budget. Additional documentation can be found here: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx</p>
6	Freshwater Fisheries Management
	<p>The Freshwater Fisheries Management Service provides expertise on freshwater fish populations, angler use, or other aspects of freshwater fisheries needed to make good management decisions to ensure quality fisheries and fishing in selected Florida lakes, fish management areas, rivers and streams. It provides support of freshwater fisheries management issues, fishing opportunities, fish pond management, fish kills or other general fisheries-related issues; and delivers aquatic education and outreach to anglers to expose them to angler ethics, fisheries management, aquatic ecology, angling skills, fish identification and other aspects aimed at promoting responsible life-long participation in sport fishing.</p>
6.A	<p>BIG CATCH ANGLER RECOGNITION PROGRAM: This database contains the records for the Division of Freshwater Fisheries Management's big catch program. This database is currently under development and will replace the current Access database. The current data size is 14 MB on a local hard disk but no data has been loaded in to the server database yet. The front-end application is written in Delphi version 5.</p>
7	Marine Fisheries Management
	<p>The Division of Marine Fisheries Management develops regulatory and management recommendations to ensure the long-term conservation of Florida's valuable marine fisheries resources; provides recreational and commercial marine fisheries outreach and education programs; facilitates artificial reef development and deployment, preparation of fishery strategic plans, issuance of special activities licenses; conducts wholesale fish dealer audits, coordinates state-wide marine trap-retrieval efforts, and assesses administrative penalties to commercial fishers convicted of certain major marine violations.</p>
7.A	<p>MONOFILAMENT RECYCLING RECEPTACLE PROJECT (MRRP): MRRP (Monofilament Recovery & Recycling Program) is a statewide effort to educate the public on the problems caused by monofilament line left in the environment, to encourage recycling through a network of line recycling bins and drop-off locations, and to conduct volunteer monofilament line cleanup events. See Web Services documentation: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx</p>

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8	Fish and Wildlife Research
	The Fish & Wildlife Research Service conducts research to obtain data and information needed by natural resource managers and stakeholders in the manner of spatial analysis, biostatistics and modeling, population analyses, wildlife forensics, and socioeconomic research in order to: monitor marine and freshwater resources, wildlife, and habitats; develop and implement techniques for restoring plant and animal species and their habitats; provide technical support when oil spills and human-related or natural disasters occur; monitor red tides and provide technical support for state and local government public health concerns; and provide fish and wildlife research technical results to federal, state and local governments.
8.A	BIG CYPRESS BASIN METADATA SYSTEM: Migration of the Big Cypress Basin metadata management system from ColdFusion to .Net.
8.B	BIRD MORTALITY REPORTING (INTERNET): The bird mortality database/website collects data from the public regarding dead birds that they have found. FWC, in cooperation with DOH, is using it to monitor for avian influenza and other diseases. See Web Services documentation: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx
8.C	BOATING AND ANGLING GUIDE TO TAMPA BAY INTERNET MAP SERVER (IMS): The online Boating and Angling Guide to Tampa Bay contains all information found in the printed version of our Boating & Angling Guide series as well as both detailed and interactive maps. Users may zoom and print specific sections of the guide.
8.D	BREEDING BIRD ATLAS: Provides an online version of the publication "Florida's Breeding Bird Atlas" with a searchable database on breeding birds showing breeding evidence statewide or by county, quad, or block, and by a particular species for a county, quad or block. See Web Services Application Documentation: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx
8.E	COASTAL RESOURCES INFORMATION SYSTEM (CRIS) INTERNET MAP SERVER (IMS): Coastal Resources Information System (CRIS) is a marine resource management project that addresses both the science and human use aspects in the environment and their subsequent impacts and roles within ocean management. CRIS provides tools to view ecological and sociological data about coastal and ocean systems.
8.F	DIGITAL AREA CONTINGENCY PLANS : The Area Contingency Plan (ACP) was developed to address removal of oil and hazardous substances from waterways. The ACP geographically defines regional environmental and socio-economic resources that require priority protection. Within the digital ACP, these interactive maps enable planners and responders to get needed answers in a few mouse clicks.

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8.G	EAGLE NEST LOCATOR: FWC's Bald Eagle Nest Locator provides search features that may be used to locate FWC documented bald eagle nesting territories and to view their locations in map and spreadsheet form.
8.H	ENVIRONMENTAL ANALYSIS GEOGRAPHIC INFORMATION SYSTEM (EAGIS): The Environmental Analysis GIS (EASIS) system is a web-enabled application that includes scientifically based information for comprehensive planning and decision making. EAGIS was developed to provide specialized tools to users in order to facilitate requests for information used by resource managers, policy makers, and scientists. EAGIS also provides GIS capability to users who do not have access to desktop GIS software. This application servers both internal and external customers.
8.I	FDMOFFSHORE: FDMOffshore allows samplers to enter/edit/view data collected from offshore headboat and charter boat trips. It also allows their supervisors to do error checking on the data after it is entered.
8.J	FISHERIES DEPENDENT MONITORING (FDM/MRIS): FWRI houses Florida Commercial Fishery Landings data in their Marine Resources Information System (MRIS). Data has been collected since 1984. Saltwater Product License holders and dealers often request listings of their reported landings and sales records. The FDM system created nine reports making widely used and requested documents more accessible to the public, license holders, and stakeholders in a timely manner. Fishermen who more frequently check their landings data will be able to identify errors quickly aiding Staff to resolve data discrepancies sooner.
8.K	FISHERIES-INDEPENDENT MONITORING BUDGET APPLICATION (FIM - BUDGET): Database (2000 - ongoing) containing information on annual purchases and allotments for PID's tracked by the Fisheries-Independent Monitoring program. Current FY is tracking over 40 PID's. Database is added into and edited daily in a multi-user environment. Data are regularly queried to summarize expenditures and determine budget balances. SQL server/.NET database/app has been developed.
8.L	FISHERIES-INDEPENDENT MONITORING FISH HEALTH (FIM - FISH HEALTH): Long-term database (1997 - ongoing) containing information on obvious external abnormalities (tumors, cysts, parasites, etc.) on Florida estuarine and marine nekton. Database is periodically added into and edited in a multi-user environment. Data are periodically queried for data analysis purposes. Currently in an Access/VB environment, but movement to a SQL Server/.NET database/app is likely in the next 12 to 18 months.
8.M	FISHERIES-INDEPENDENT MONITORING INSHORE (FIM - INSHORE HISTORIC): Long-term database (1989 - ongoing) containing information on abundance, distribution, essential fish habitat, and sizes of estuarine nekton in seven Florida estuaries. These are the historic data (everything but current year) and are edited periodically in a multi-user environment. Data are regularly queried for data analysis purposes. Currently in an Access/VB environment, but plans are to move this into a SQL Server/.NET environment in the next 12 months.

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8.N	FISHERIES-INDEPENDENT MONITORING INSHORE (FIM - INSHORE LIVE): Long-term database (1989 - ongoing) containing information on abundance, distribution, essential fish habitat, and sizes of estuarine nekton in seven Florida estuaries. These are the current year's data which are being added into and edited daily in a multi-user environment. Data are regularly queried for data analysis purposes.
8.O	FISHERIES-INDEPENDENT MONITORING INSHORE SAMPLING UNIVERSE (FIM - UNIVERSE): Long-term database (1989 - ongoing) containing information on sampling locations and strata available in each of the seven estuaries sampled by the FWRI Fisheries-Independent Monitoring program. Data are occasionally edited and added to (when a new sampling project comes on line or available strata change at a location). Data are periodically queried for site selection purposes. Currently in an Access/VB environment, but movement to a SQL Server/.NET database/app is likely in the next 12 to 18 months.
8.P	FISHERIES-INDEPENDENT MONITORING LENGTH-WEIGHT (FIM - LWT): Long-term database (1998 - ongoing) containing information on the relationship between length and weight for Florida nekton. Data are vital for converting length data, that are collected in most fishery assessment sampling, into biomass data. Database is regularly added into and edited in a multi-user environment. Data are periodically queried for data analysis purposes. Currently in an Access/VB environment but movement to a SQL server/.NET database/app is likely in the next 24 - 36 months.
8.Q	FISHERIES-INDEPENDENT MONITORING MERCURY (FIM - HG): Long-term database (1992 - ongoing) containing information on mercury concentration in the edible tissues of Florida estuarine and marine nekton. Database is regularly added into and edited in a multi-user environment. Data are frequently queried for data analysis purposes. Currently in an Access/VB environment, but a SQL Server/.NET database/app will be necessary in the next 12 to 18 months.
8.R	FISHERIES-INDEPENDENT MONITORING OFFSHORE (FIM - OFFSHORE): Database (2006 - ongoing) containing information on abundance, distribution, essential fish habitat, and sizes of reef fishes in offshore Gulf of Mexico water. Database is added into and edited daily in a multi-user environment. Data are regularly queried for data analysis purposes.
8.S	FISHERIES-INDEPENDENT MONITORING SOUTHEAST AREA MONITORING AND ASSESSMENT PROGRAM (FIM - SEAMAP): The Southeast Area Monitoring and Assessment Program (SEAMAP) is a cooperative program to facilitate the collection, management, and dissemination of fisheries-independent data from the waters of the southeastern United States. FWRI/FIM began collecting these data in Gulf of Mexico waters in 2007; the project is ongoing. This is a cooperative project with many states participating (TX, LA, MS, AL, FL, GA, SC, NC). Data are entered into a standardized database (Access) during collection and then appended to an Oracle database maintained by the SEAMAP data manager.

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8.T	FISHERIES-INDEPENDENT MONITORING STOMACH CONTENT (FIM - GUTS): Database (2003 - ongoing) containing information on prey items consumed by nekton in the estuarine and offshore waters around Florida. These data are being added into and edited daily in a multi-user environment. Data are regularly queried for data analysis purposes. Currently in an Access/VB environment, but movement to an SQL server/.NET database/app is likely in the next 18 to 24 months.
8.U	FLORIDA MARINE SPILL ANALYSIS SYSTEM: The Florida Marine Spill Analysis System is an ArcView GIS application developed to support oil spill response, planning and damage assessment activities. The FMSAS application is used by both FWC/FWRI and FDEP's Bureau of Emergency Response staff and runs on office desktops and field laptops. The FMSAS is an integral component of US Coast Guard's Joint Incident Command Structure's information backbone.
8.V	FLORIDA WILDLIFE LEGACY INITIATIVE (FWLI) INTERNET MAP SERVER (IMS): The FWLI Internet Map Server is an online mapping tool that allows users to view spatial data that was used to create the Comprehensive Wildlife Conservation Strategy and provides links to a digital version of the indexed document.
8.W	FWC DIVISION OF LAW ENFORCEMENT (DLE) INTERNET MAPPING SERVER (IMS): The Division of Law Enforcement (LE) Internet Map Server is an online mapping tool that allows Officers to view spatial data that is used in their everyday tasks.
8.X	FWC/USGS MANATEE PHOTO-IDENTIFICATION SYSTEM (MIPS): Application used to manage manatee photo-identification data. Includes data from and accessed by FWC, U.S. Geological Survey, and Mote Marine Laboratory. Thousands of images are located on FWC servers and referenced by this database.
8.Y	GATORNET - ALLIGATOR BITE REPORTING : Internal reporting application summarizing confirmed alligator bites on humans by various variables of interest (i.e. year, county, FWC Region, etc.)
8.Z	GATORNET - ALLIGATOR NEST DATA SUMMARY : Internal reporting feature for completed statewide alligator nest surveys.
8.a	GATORNET - ALLIGATOR NIGHTLIGHT SURVEYS : Internal data entry, editing, and reporting application for annual statewide alligator nightlight surveys.
8.b	GEOINDEXER: An application that has been built to augment the Environmental Analysis GIS (EAGIS) is the GeoIndexer. This application is a web-based interface for querying FWC's extensive spatial database inventory. GeoIndexer operates through the use of keywords and is useful for any GIS user looking to access a layer within the extensive FWC GIS database but who may not know what a layer is called. This application is separate from EAGIS and may be bookmarked and accessed independently.
8.c	HARMFUL ALGAL BLOOM DATABASE: The Harmful Algal Bloom (HAB) Database application stores and displays data collected from various water samples around the state. Among the extensive data relating to specific location of the water sample, the database also contains data relating to the various organisms discovered in the water samples.

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8.d	HERPETOFUANA BIBLIOGRAPHY (INTERNET): An Internet database containing information about references pertaining to Florida's reptiles and amphibians. See Web Services Documentation: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx
8.e	LIFE CYCLE MONITORING (LCM) - PANTHER: Life Cycle Monitoring (LCM) represents an integrated approach to tracking the various life stages of an organism. It provides a core infrastructure which is then extended to specific needs of a particular organism. These include NeoNate/Juvenile, Life Events, Mortality, Necropsy, and the tracking of associated artifacts.
8.f	LONG TERM MONITORING FRESHWATER FISHERIES SAMPLING APPLICATION: The application is a data entry, storage, retrieval, and analysis system used to track sampling data for Florida lakes, canals, and ponds. Data captured includes location, habitat, water quality, sampling gear, species, and lab information. Abundance, effort, and ecosystem conditions are examples of the information available on Florida's freshwater water bodies. The application allows the integration of legacy data throughout the 17 locations housing Freshwater personnel. The application captures sampling data defined by the protocols in the FWRI Standardized Sampling Manual for Lentic Systems.
8.g	MANATEE MORTALITY APPLICATION: The Manatee Mortality Application houses Florida manatee mortality data for the US from 1974 through the present day. These data include cause of death, morphology, life-history parameters and are used to better understand risks to sustained recovery of the Florida manatee population. Data is also provided to academia, stakeholders, and citizens as requested.
8.h	MARINE RESOURCES GEOGRAPHIC INFORMATION SYSTEM (MRGIS): The MRGIS Internet Map Server is an online mapping tool that allows users to view spatial data, create customized queries, design printable maps, and download GIS layers for use within a desktop GIS. This application serves data that includes information about manatees, corals, turtles, and harmful algal blooms.
8.i	METAREP: Provide robust data management engine around FWC metadata holdings, includes programmatic access to external agencies and extensive search and reporting capabilities. MetaRep is a prototype database, received as a dump from the NOAA Mermaid system, restored to an Oracle instance, and used for search capability (using Cold Fusion queries). The application is under development and conversion to SQL Server is planned.
8.j	REQUEST FOR INFORMATION TRACKER: Track, manage and summarize requests for information that flow through FWRI.
8.k	RIVERS MONITORING : The Rivers Monitoring project uses the Long Term Monitoring Freshwater Fisheries Sampling Application with modifications to capture and retrieve additional data that is unique to the rivers project; such as, turbidity, canopy, and shoreline values for each.

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8.l	SHIP TRAFFIC IN SE RIGHT WHALE HABITAT: FWRI collects ship traffic information in the southeastern right whale seasonal management area (SMA) using the Automatic Identification System (AIS). Ship information broadcasted over AIS within the SMA has been recorded since November 2006.
8.m	SOUTH ATLANTIC FISHERY MANAGEMENT COUNCIL (SAFMC) HABITAT AND ECOSYSTEM INTERNET MAP SERVER (IMS): The SAFMC Habitat and Ecosystem IMS provides access to spatial data, imagery, and documents related to coral and other habitats of the South Atlantic ecosystem.
8.n	SPECIMEN COLLECTIONS MANAGEMENT : Manages Inventory, Search, and Librarian Functions for one of the largest biological specimen collections in the Southeastern United States.
8.o	TERRESTRIAL RESOURCES GEOGRAPHIC INFORMATION SYSTEM (TRGIS) INTERNET MAP SERVER (IMS): The TRGIS Internet Map Server is an online mapping tool that allows users to view spatial data, create customized queries, design printable maps, and download GIS layers for use within a desktop GIS. This application serves data that includes information about terrestrial habitats and species.
8.p	WATERBIRD COLONY LOCATOR: FWC's Waterbird Colony Locator provides search features that may be used to locate FWC documented wading bird colonies and to view their locations and species composition in map and spreadsheet form. FWRI team will handle. See Web Services documentation: http://portal.fwc.state.fl.us/DOI/Offices/Technology/OIT/WebServices/Application%20Documentation/Forms/AllItems.aspx
8.q	WATERWAY MARKER ASSET MONITORING SYSTEM (WAMS): Waterway Marker Asset Monitoring System (WAMS) is an online mapping tool that allows users to enter information related to waterway marker installation and maintenance. A website was developed to ease data entry and quality assurance reviews of field collected data as well as to assist with asset management functions.