

# Florida Fish & Wildlife Conservation Commission

## AQUATIC HABITAT RESTORATION/ENHANCEMENT (AHRE)

### PROPOSED PROJECTS 2008/09

4/14/2008

WATER BODY	COUNTY	ACRES	PROPOSED ACTIVITY FY08/09	PROPOSED BUDGET	FUNDING SOURCES	FY08/09 RUNNING TOTAL
<b>AHRE SUB-SECTION PROJECTS</b>						
<b>FY06/07 FWC/FCO ALLOTMENT \$4,500,000</b>						
Lake Okeechobee	Okeechobee, Glades	447,853	Mechanical removal of organic sediments to restore areas of the littoral zone in the NW marsh. <b>Project is complete.</b>	1,979,906	FWC	1,979,906
Tenoroc Watershed Restoration	Polk	52	Restore a currently dysfunctional headwater area to conditions prior to phosphate mining. <b>Project is complete.</b>	805,000	FWC FDEP Bureau of Mine Reclamation	2,784,906
Three Lakes WMA and Lake Marian	Osceola	5,739	Hydrological study to determine whether to replace or remove failing water control structure and all possibilities for wetland and slough restoration.	630,094	FWC	3,415,000
Lake Trafford	Collier	1,494	Hydraulic dredging of lake bottom sediments in the littoral zone.	1,000,000	FWC SFWMD	4,415,000
Lake Griffin	Lake	526	Breach levees of old farm (Lowrie Brown) to reconnect to Lake Griffin, control of exotic vegetation and planting of native vegetation.	85,000	FWC SJRWMD	4,500,000
<b>AHRE SUB-SECTION PROJECTS</b>						
<b>FY07/08 FWC/FCO ALLOTMENT \$6,000,000</b>						
Eagle Bay	Okeechobee	250	Mechanically remove organic sediments from an associated wetland of Lake Okeechobee. <b>Project is complete.</b>	498,642	FWC	498,642
Peace Pond	Highlands	200	Restore the hydrology of Peace Pond on Lake Wales Ridge WMA.	569,000	FWC	1,067,642
Tsala Apopka Chain of Lakes	Citrus	19,000	Mapping of tussock acreage and organic sediment quantity/quality in 15 priority lakes within the chain; to determine appropriate habitat restoration strategies and prioritize lakes for funding.	732,732	FWC	1,800,374
Upper Peace River	Polk	180	Construct wetlands from old clay settling ponds to enhance habitat for over wintering waterfowl and wading birds. These wetlands will also serve to collect and better treat surface waters that enter Tenoroc FMA's fishing lakes.	1,000,000	FWC FDEP Bureau of Mine Reclamation	2,800,374
Three Lakes WMA and Lake Marian	Osceola	5,739	Hydrological study to determine whether to replace or remove failing water control structure and all possibilities for wetland and slough restoration.	222,678	FWC SFWMD	3,023,052

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Tsala Apopka Chain of Lakes	Citrus	9,000	Provide modeling to determine the feasibility of restoring the historical conveyance features of the Floral City, Shinn Ditch and Leslie Hefner Canal sub basins of the Floral City Pool.	250,000	FWC SWFWMD	3,273,052
Tenoroc (Upper Peace River)	Polk	7,300	To create improved water flow through the lakes. To create and enhance wetlands, streams, and uplands to provide improved water quality and diverse wildlife habitat within Tenoroc FMA, and provide improved water quality and quantity to Saddle Creek and the Peace River. First year of a two year project.	1,250,000	FWC DEP	4,523,052
Gant Lake	Sumter	93	Removal of organic sediments by mechanical means and hydrologic dredging to restore the entire basin.	0	FWC	4,523,052

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<b>AHRE SUB-SECTION PROJECTS</b>						
<b>FWC/SGTF AHRE ALLOTMENT (License Sales Monies) \$844,439</b>						
<b>LEGISLATIVE APPROPRIATION (Doc Stamps) \$7,800,000</b>						
<b>TOTAL 8,644,439</b>						
<b>Operations</b>	Statewide	NA	<b>Operations and expenses for AHRE staff and statewide projects.</b>	500,000	FWC	500,000
<i>Florida Wildlife Legacy Initiative</i>	Statewide	NA	<i>Multi-year position to assist in the development and implementation of enhancements projects linked to the Florida Wildlife Legacy Initiative.</i>		FWC	500,000
<b>Maintenance</b>	Statewide	NA	<b>Maintenance for existing statewide projects.</b>	1,692,392	FWC	2,192,392
<i>Lake Tohopekaliga</i>	Osceola	18,800	<i>Harvest smartweed/tussocks to promote establishment of desirable aquatic vegetation.</i>		FWC	2,192,392
<i>T. M. Goodwin WMA</i>	Brevard	6,270	<i>Replace 10 flashboard riser water control structures.</i>		FWC	2,192,392
<i>Lake Okeechobee</i>	Okeechobee, Glades	447,853	<i>Manage up to 3,400 acres of aquatic plant communities with herbicides to enhance the aquatic plant community structure within the littoral zone of the northwest marsh. Re-slope two disposal islands. Finish Cody Cove project.</i>		FWC	2,192,392
<i>Orange Lake</i>	Alachua	12,000	<i>Maintain four miles of trails, pothole system, and scraped areas to improve fish and wildlife habitat. Second year of a four year project.</i>		FWC	2,192,392
<i>Kissimmee Chain of Lakes</i>	Osceola	73,600	<i>Manage aquatic plant communities with herbicide applications to include lakes Center, Coon, Cypress, Gentry, Hatchineha, Jackson, Kissimmee, Toho and Marian.</i>		FWC	2,192,392
<i>Lake Istokpoga</i>	Highlands	27,692	<i>Manage up to 1,000 acres of aquatic plants with herbicides and mechanically harvest up to 50 acres of aquatic plants associated with tussocks to enhance the aquatic plant community structure within the littoral zone. Approved by the Lake Istokpoga Standing Team.</i>		FWC	2,192,392
<i>T. M. Goodwin WMA</i>	Brevard	6,270	<i>Herbicide paragrass to stimulate desirable plant communities for wildlife.</i>		FWC	2,192,392
Oceanway FMA	Duval	6	Address problems maintaining lake level by installing permanent structure to maintain water levels.	100,000	FWC	2,292,392
Characteristics of Wildlife Islands on Lake Tohopekaliga	Osceola	NA	Determine the richness and abundance of flora and fauna occupying the islands over time. Investigate whether particular characteristics (size, shape, distance from shore, composition, vegetation) of the spoil islands created would attract wildlife. Final year of a three year study.	103,739	FWC	2,396,131

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Lake Rowell	Bradford	364	Engineering, project design, and permitting for sediment removal project to enhance habitat for fish and wildlife.	136,000	FWC SRWMD	2,532,131
Gant Lake	Sumter	NA	Perform pre- and post-enhancement evaluations to document both positive and negative impacts. Third year of an eight year study.	0	FWC	2,532,131
Gant Lake	Sumter	93	Project design and engineering for dredging permit.	460,000	FWC	2,992,131
Channeled Apple Snail Study	Statewide	NA	Study to determine the distribution, habitat use, and potential impacts of channeled apple snails in Florida. Second year of a three year study.	30,000	FWC	3,022,131
CMI Nutrient Outflow Investigations	Northwest Region	NA	Determine impacts if any from nutrient loading from the CMI's to receiving waters.	18,000	FWC	3,040,131
Marsh Bird Abundance	Osceola	NA	Project will provide estimates of abundance, habitat use and nest success of marsh bird species using restored and unrestored littoral habitats within the KCOL. First year of a four year study.	92,890	FWC	3,133,021
Submersed Aquatic Vegetation (SAV) Research	Statewide	NA	Identify the threshold requirements needed for successful establishment of SAV. Second year of a three year study.	98,172	FWC	3,231,193
Effects of Aquatic Plant Composition on Fish Metrics for Florida Lakes	Statewide	NA	This project will analyze existing databases in Florida and evaluate the precision of estimates of fish biomass, density, community composition and how they vary with aquatic plant species composition and abundance. This project would be a precursor to a project that will construct Ecopath with Ecosim models for predicting the effects of habitat enhancements on lake fish communities in Florida. Second year of a three year study.	100,100	FWC	3,331,293
Characterization of wetlands used by dabbling ducks in Central and South FL	Statewide	NA	Identify and characterize wetlands/wetland complexes used by dabbling ducks. Compare characteristics of wetlands used by dabbling ducks to AHRE restoration areas, random wetlands, and between rural and urban/suburban areas. First year of a four year study.	122,571	FWC Auburn University Ducks Unlimited FWRI	3,453,864
Hardee Lakes Park	Hardee	50	Design and construct a four foot berm along the eastern side of Lake D and install a water control structure to allow one-way water flow from the lake to the creek.	500,000	FWC	3,953,864
Statewide Lakes	Statewide	123,794	Control undesirable aquatic vegetation communities and plant desirable aquatic plant species on selected lakes statewide.	111,793	FWC	4,065,657

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Kissimmee Chain of Lakes, Orange Lake, Lake Lochloosa and Lake Istokpoga	Osceola, Highlands, Alachua	NA	Acquire low-altitude digital images of target lakes to provide lake managers/standing teams with maps to use in resource management. Approved by the Kissimmee and Istokpoga Standing Teams and the Orange Creek Basin Working Group. First year of a two year project.	71,000	FWC SFWMD	4,136,657
Webb Lake	Charlotte	390	Utilize a hydraulic pump to lower lake levels approximately 3.5 foot to expose lake bottom to promote aquatic vegetation response.	100,000	FWC	4,236,657
Middle Lake	Pasco	180	Mechanically harvest up to 20 acres of tussock material from the littoral zone.	100,000	FWC	4,336,657
Little Redwater Lake	Highlands	329	Mechanical removal of aquatic plants associated with tussocks and associated organic sediments within selected areas of the littoral zone.	200,000	FWC	4,536,657
Lake Jesup	Seminole	10,000	Plant 50,000 giant bulrush in various water depths (down to -3' NVGD) to create sheltered areas near shore.	25,000	FWC	4,561,657
Deer Point Lake	Bay	5,000	To modify Bay County's industrial and potable water pump system to prevent cavitation so that annual drawdowns of Deer Point Lake can be conducted to manage aquatic vegetation to maintain or improve fish and wildlife habitat. First year of a two year project.	100,000	FWC Bay County	4,661,657
Lake Trafford	Collier	1,500	Revegetate the littoral zone with preferred native aquatic emergent vegetation (giant bulrush, Egyptian paspalidium, maidencane, jointed spikerush, etc.); up to 500,000 plants.	250,000	FWC	4,911,657
Lake Kissimmee	Polk Osceola	35,000	Remove dikes (or make cuts) and remove spoil and fill in the ditches (entirely or in the form of plugs). First year of a two year project.	260,000	FWC SFWMD	5,171,657
Lake Ida	Palm Beach	121	Create six acres of diverse fisheries and wetland habitats including open-water fish habitat (two acres), tropical hardwood hammock (one acre), emergent marsh and littoral zone (three acres).	400,000	FWC DEP Palm Beach County	5,571,657
Regional Aquatic Enhancement	Northwest, North Central, Northeast, Southwest, and South Regions	NA	Funding for small regional projects to enhance fish and wildlife resources.	50,000	FWC	5,621,657
Evaluation of Monitoring Programs for Relating Fish Recruitment and Growth to River Flow	Gadsden, Liberty, Gulf, Calhoun, Leon, Franklin	50,000	To develop and validate a rapid method to determine year-class strength for selected sportfish in the Apalachicola River and sloughs (including Battle Bend Project) and relate them to river flows and connectivity with the main channel.	44,305	FWC	5,665,962

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Apalachicola River	Liberty	50,000	Restore the floodplain contour on the upper arm of Battle Bend by removing and pushing a constructed berm into the original borrow area.	450,000	FWC	6,115,962
Halpatiokee Lake	Martin	50	Improve or create 14 acres of wetland habitat.	300,000	FWC Martin County	6,415,962
Rotenberger Farm	Palm Beach	28,760	Mechanically remove or degrade the unnatural features that alter surface flow along the eastern boundary of Rotenberger. First year of a two year project.	500,000	FWC	6,915,962
Inventory, Assessment, and Management Potential of Ephemeral Wetlands on FWC WMAs and WEAs (Phase I)	Gadsden, Taylor, Dixie, St. Johns, Gilchrist, Putnam, Marion, Sumter, Hernando, Osceola, Highlands	219,044	Identify ephemeral ponds on the nine highest priority WMAs and WEAs using GIS and aerial interpretation, assess ephemeral pond conditions, and recommend specific management/restoration strategies per identified wetland. First year of a two year study.	143,030	FWC	7,058,992
Kirby Pit	Columbia	73	To create approximately 2000 linear feet of 6:1 slope out to a depth of six feet deep.	500,000	FWC DEP	7,558,992
Lake Gwyn	Polk	120	Rehydrate the non-functioning wetlands to provide fish and wildlife habitat. First year of a two year project.	225,000	FWC	7,783,992
Franklin Ponds	Taylor	25	Create three acres of new littoral habitat to provide quality spawning and nursery areas for fish, forage areas for wading birds, and enhance recreational opportunities for the public at Hickory Mound WMA.	500,000	FWC	8,283,992
Marshall Swamp	Marion	3,000	Survey, inventory and improve the existing levees and water control structures; manage area for public use and establish it as a multi-use WMA unit. First year of a three year project.	200,000	FWC Potential cost share through NRCS/WRP	8,483,992
Lake Beauclair	Lake, Orange	1,118	Hydraulically dredge to remove the accumulated organic sediments. Multi-year project.	1,000,000	FWC LCWA	9,483,992
Initial Treatment of Lygodium microphyllum	Palm Beach	965	Treat L. microphyllum, approximately 11% (≥ 150 acres) of the total treatment area, using plant control contractors.	50,000	FWC DEP	9,533,992
Lake Marion	Polk	3,006	Conduct an engineering study to determine restoration alternatives with emphasis on dredging.	200,000	FWC	9,733,992
Topsail Hill Preserve State Park	Walton	1,600	Recreate the topography that existed prior to the installation of Campbell Lake Road and Topsail Road to the level of the surrounding wetland communities. First year of a two year project.	10,000	FWC DEP	9,743,992
Tarkiln Bayou Preserve State Park	Escambia	91	Recreate the previously existing topography that existed prior the impacts of off-highway driving to the level of the surrounding wetland communities. First year of a two year project.	10,000	FWC DEP	9,753,992
Duck Field Pond	Orange	20	Refurbish earthen levee system and install water control structures and water supply system. First year of a two year project.	100,000	FWC	9,853,992

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Big Savannah Marsh	St. Johns	95	Identify primary hydrologic impairments and assess what impacts the water management strategies employed by FWC have on the hydrology of the southern GTMNERR portion of Big Savannah Marsh. First year of a three year project.	100,000	FWC	9,953,992
Hilochee WMA, Osprey Unit	Polk	95	Determine the feasibility of a wetland construction project using soil and hydrology indicators and (2) to develop wetland construction engineering and design plans. First year of a two year project.	250,000	FWC	10,203,992
Ice Cream Slough	Polk	1,000	Hydrological restoration of a floodplain delta associated with the Kissimmee River and Ice Cream Slough.	1,000,000	FWC SFWMD	11,203,992
Royce Ranch	Highlands	2,639	Remove spoil material and bring the sites back to original grade. Monitor recruitment of native vegetation and replant if needed.	1,000,000	FWC	12,203,992