
Upper Mississippi River System Environmental Management Program**Fact Sheet****GLADES WETLANDS HABITAT RESTORATION****Illinois River, Illinois**

Location: The Glades management area is located along the Illinois River's left bank between River Miles 13.3 and 15.3. It is just North of Rosedale, Illinois, and just south of confluence of Otter Creek with the Illinois River. The property is owned by the Corps and is managed through a cooperative agreement with the Illinois Department of Natural Resources (IDNR). IDNR manages the refuge for waterfowl through manipulation of water levels for moist-soil plant production, and by supplemental plantings to enhance and expand the forage base.

Resource Problem: Like most backwater areas along the Illinois River, siltation has degraded this site's wetlands habitat. Presently, this 300+ acres of wetland has filled with sediments until now the entire site is in a perched condition. To maintain the area as viable wetland habitat, water is seasonally pumped into the area from the Illinois River. The area is managed as a large moist soil unit, when river levels decline in summer drain tubes are opened to the River. Gravity flow will render the entire site dry if the river is at normal pool level. The existing water control structures are old and are of inadequate water transfer capacity.

Project: The proposed project includes: (1) removal of old water control structures, (2) installation of new water control structures, (3) installation of a spillway, (4) cleanout of drainage ditches, (5) creation of dugout areas, (6) placement of new interior levees with stop-log structures, and (7) raising existing site access road with pipes.

The existing 2-36" gated CMPs riverside water control drains would be replaced with two 42-inch gated drainage structures. Adjacent to these structures, a hardened spillway (100 feet long) would be constructed to handle the transfer of flood waters both rising and receding. The 4,000 foot ditch to these structures needs to be modified to handle the proposed capacity. Within the site's interior, a series of ditches (12,000 feet) would be modified to accommodate drainage and public use. Dugouts (4 acres total with a 10 foot cut) would be created at various locations throughout the site's interior. In the crop fields on the south end of the glades moist-soil units would be created. Low levees (6,000 feet total) would be constructed along the timbers edge that can be seasonally manipulated to provide feed and sanctuary for migratory waterfowl.

The moist soil units would have 4-36" CMP stop-log risers to control the level as required. The existing access road (400 feet long) would be raised and re-topped with gravel and would have a 1-36" gated CMP added under the road so the existing pump system can be utilized to flood the new moist soil units.

Project Outputs: The project proposal is to enhance the overall quality of the existing wetland by improving the ability to control water levels at the site. Also to expand the moist-soil production acres which would serve as feeding/resting areas for waterfowl. The improved drainage will provide the tools to institute the annual draw down in a timely fashion. This will improve the reliability factor for annual food production and expand the acres of feed and sanctuary available. The dugouts will trap the last of the drainage creating shallow feeding areas for large wading birds and early shorebird habitat as the areas evaporate. It is expected that the ability to improve the overall support value of the site's wildlife habitat will improve by about 20% to 25%.

Financial Data: Total estimated base year costs for this project is \$1,473,692 (or \$1,768,430 fully funded). The estimated annual operations and maintenance cost is \$13,000. All of the project features are on Corps owned General Plan lands "managed as a national wildlife refuge. Under the provisions of Section 906 (e) of WRDA 1986, the projects first costs are 100 percent Federal. Annual operation and maintenance requirements will be satisfied through an agreement with the U.S. Fish and Wildlife Service and the Illinois Department of Natural Resources.

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ENVIRONMENTAL
MANAGEMENT PROGRAM

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ST. LOUIS DISTRICT
U.S. ARMY
CORPS OF ENGINEERS

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