Water Resources Development Act (WRDA): Army Corps of Engineers Authorization Issues in the 109th Congress

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Water Resources Development Act (WRDA): Army Corps of Engineers Authorization Issues in the 109th Congress

SUMMARY

Under its civil works program, the Army Corps of Engineers plans, constructs, and operates water resources facilities primarily for flood damage reduction, navigation, and environmental purposes. The 109th Congress is considering authorizing Corps planning and construction activities, and is debating changes to Corps policies and practices, through two Water Resources Development Act (WRDA) of 2005 bills, S. 728 and H.R. 2864. Once Corps activities are authorized, the appropriations process plays a significant role in their realization. For more information about Corps appropriations and operational issues, see CRS Issue Brief IB10120, Army Corps of Engineers Civil Works Program: Issues for the 109th Congress.

Legislative Status. Previous WRDAs have followed a loosely biennial schedule. No WRDA has been enacted since 2000. S. 728 was reported by the Senate Environment and Public Works Committee and placed on the Senate calendar. H.R. 2864 was approved on June 16, 2005, by the House Transportation and Infrastructure Subcommittee on Water Resources and the Environment. Authorization of a few controversial projects and possible changes to Corps practices are shaping consideration of the bills.

Project Development Reform. WRDA bills in past Congresses and other proposed legislation have contained provisions to change how the Corps formulates, reviews, and implements projects, but no significant changes have been enacted since 1986. Disagreement about the appropriate direction of any changes to Corps practices is continuing as provisions in S. 728 and H.R. 2864 are considered. The provisions receiving the most attention are related to fish and wildlife mitigation, Corps planning, and independent review of projects.

Upper Mississippi River-Illinois Waterway (UMR-IWW). S. 728 and H.R. 2864 include authorization of UMR-IWW navigation and ecosystem restoration investments. Some environmental and taxpayer advocacy groups oppose the navigation improvements. Navigation and agricultural interests insist that these improvements are needed to reduce lock delays and maintain global competitiveness. Whether and how to link UMR-IWW navigation improvements and ecosystem restoration also is part of the discussion.

Everglades Restoration. Authorization in S. 728 of two projects — Indian River Lagoon-South and Picayune Strand — also are part of the WRDA debate. H.R. 2864 appears to authorize the Indian River Lagoon project, but not the Picayune Strand project. These projects were planned as part of a federal-nonfederal restoration effort to restore the Florida Everglades that began with WRDA 2000. The two projects are bringing attention to implementation issues of the larger restoration effort.

Coastal Louisiana Restoration and Protection. Authorization of investments in coastal Louisiana restoration also are included in S. 728 and H.R. 2864. Provisions in both bills draw upon a Corps report on the feasibility of activities to restore coastal wetlands in Louisiana over the next decade; that report recommended $1.1 billion in immediate actions, and estimated an additional cost of $0.9 billion.
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RSI = Resources, Science, and Industry Division.
Most Recent Developments

H.R. 2864 — Water Resources Development Act (WRDA) of 2005 — was marked up and approved on June 16, 2005, by the House Transportation and Infrastructure Subcommittee on Water Resources and the Environment. Reportedly, the full committee may consider the bill during the summer.

S. 728, WRDA 2005, was introduced on April 6, 2005. The Senate Environment and Public Works Committee marked up the bill on April 13, 2005. The bill was reported with amendments and placed on the Senate calendar.

The WRDA 2005 debate is being shaped primarily by a few provisions that would change Corps policies and practices, and project authorizations for a few projects. Three provisions — fish and wildlife mitigation, independent review, and planning — also are the subject of debate; although similarly titled in H.R. 2864 and S. 728, the content of the provisions differs in the two bills.¹ (Some observers refer to these provisions as “Corps reform” measures.) The project authorizations in S. 728 receiving the most attention are:

- Coastal Louisiana: more than $1 billion for immediate actions to restore coastal wetlands in Louisiana over the next decade.²
- Upper Mississippi River-Illinois Waterway (UMR-IWW): $2.0 billion for navigation improvements and $1.58 billion for ecosystem restoration.
- Everglades: $1.2 billion Indian River Lagoon-South project for wetlands and estuarine restoration and $0.4 billion Picayune Strand ecosystem restoration project, planned as part of the Florida Everglades restoration effort.

H.R. 2864 also would authorize these projects, except for Picayune Strand. An amendment adopted during markup of S. 728 by the Senate Environment and Public Works Committee would limit the Corps’ regulatory responsibilities for navigable waters. The language added would exclude from the Corps’ regulatory authority those activities or structures on private property that do not pose a safety threat to maritime traffic. A similar amendment proposed during House subcommittee markup of H.R. 2864 was ruled nongermane.

Background and Analysis

The Corps is a federal agency in the Department of Defense with military and civilian responsibilities. At the direction of Congress, the Corps plans, builds, operates, and maintains a wide range of water resources facilities in U.S. states and territories. The

¹ S. 753, the Corps of Engineers Modernization and Improvement Act of 2005, includes provisions on fish and wildlife mitigation, independent review, and planning. S. 753 takes a different approach to the three subjects than similarly titled provisions in S. 728. The S. 753 approach generally is supported by environmental interest groups.

² An authorization amount for coastal Louisiana is not specified in S. 728 (except for $10 million for one subsection); instead, reference is made to the report by the Corps’ Chief of Engineers (known as the Chief’s report) that recommended $1.1 billion in immediate actions and estimated an additional cost of $0.9 billion.
Sections 10 and 13 of the Rivers and harbors Act of 1899 (22 U.S.C. 407) require that a permit be obtained for the Corps for alteration or obstruction of and refuse discharge in navigable water of the United States. The Corps also has regulatory responsibilities under other laws, notably Section 404 of the Clean Water Act (33 U.S.C. 1344). Since the mid-1960s, court decisions and administrative actions have altered the jurisdictional reach of the Corps' regulatory program and the scope of the agency's consideration in issuing permits for private actions that might affect wetlands and other water of the United States.

Congressional direction comes primarily through authorization and appropriations legislation and oversight activities. This report focuses on the main legislative vehicle for Corps civil works authorizations, the Water Resources Development Act. After background on WRDA and WRDAs in recent Congresses, this report discusses the current legislative status of WRDA and major issues shaping WRDA consideration in the 109th Congress — changes to Corps project development practices and policies, UMR-IWW investments, Everglades restoration projects, and coastal Louisiana restoration activities.

WRDAs — Legislation Authorizing Corps Studies and Projects. Congress generally authorizes Corps water resources studies as part of a typically biennial consideration of a WRDA, or in a survey resolution by an authorizing committee — the House Transportation and Infrastructure Committee or the Senate Environment and Public Works Committee. Authorization to construct projects and changes to the policies guiding the Corps civil works program, such as project cost-share requirements, are also typically in WRDAs. The authorization of Corps projects generally do not expire; however, there is a process to deauthorize projects that have not received appropriations for seven years. Although Congress has historically authorized Corps projects as part of a WRDA, authorizations also have been included in appropriations bills, especially in years when passage of a WRDA has been delayed. Corps authorizing committees generally discourage as standard procedure authorizations in appropriations bills; authorization in appropriations bills may be subject to a point of order.

Authorization establishes a project's essential character, which is seldom substantially modified during appropriations. The appropriations process, however, plays a significant role in the realization of a project; appropriations determine which studies and projects receive federal funds. Many authorized activities never receive appropriations. Fiscal priorities and public attitudes in recent decades have resulted in declining federal funding for water resources activities, thus increasing competition for funding among authorized activities. Moreover, during the last 15 years, Congress has authorized not only navigation

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3 Sections 10 and 13 of the Rivers and harbors Act of 1899 (22 U.S.C. 407) require that a permit be obtained for the Corps for alteration or obstruction of and refuse discharge in navigable water of the United States. The Corps also has regulatory responsibilities under other laws, notably Section 404 of the Clean Water Act (33 U.S.C. 1344). Since the mid-1960s, court decisions and administrative actions have altered the jurisdictional reach of the Corps’ regulatory program and the scope of the agency’s consideration in issuing permits.


5 For example, the civil works budget has experienced a substantial decline in real dollar amounts; the annual funding for the Corps’ construction account fell from an average of $4 billion (in 2000 (continued...)}
and flood control projects, but also ecosystem restoration, environmental infrastructure assistance, and other nontraditional activities, exacerbating competition for construction funds. The Corps now has a “backlog” of more than 500 authorized projects that have not consistently received construction appropriations.

**WRDAs in Recent Congresses.** WRDA 1986 (P.L. 99-662) marked the end of a decade-long stalemate between the Congress and the executive branch regarding authorizations. In addition to authorizing numerous projects, WRDA 1986 resolved long-standing disputes related to cost-sharing, user fees, and environmental requirements. A biennial WRDA cycle has loosely been followed since, with WRDAs enacted in 1988 (P.L. 100-676), 1990 (P.L. 101-640), 1992 (P.L. 102-580), 1996 (P.L. 104-303), 1999 (P.L. 106-53), and 2000 (P.L. 106-541). Many of these WRDAs authorized or modified the authorization of more than a hundred projects. Pressure to authorize new projects, increase authorized funding levels, and modify existing projects is often intense, thus promoting a fairly regular (if not always biennial) consideration of WRDA.

WRDA legislation was considered, but not enacted, during the 108th Congress. On September 24, 2003, the House passed H.R. 2557 (H.Rept. 108-265) — WRDA 2003. The Administration did not support the bill, primarily because it viewed the bill as creating false expectations by authorizing appropriations of more than $4 billion, despite fiscal constraints and the backlog of Corps construction projects. The Senate Environment and Public Works Committee reported a WRDA 2004 (S. 2773) on August 25, 2005, and it was placed on the Senate’s legislative calendar. S. 2773 included provisions for a few high-profile projects that were not included in H.R. 2557: UMR-IWW navigation improvements and ecosystem restoration, and two Everglades restoration projects. The Administration took no position on S. 2773. No further action was taken on the either bill.

**WRDA in the 109th Congress.** S. 728, WRDA 2005, started the legislative consideration of WRDA by the 109th Congress. It was followed by H.R. 2864, WRDA 2005. The primary issues that appear to be shaping consideration in the 109th Congress are largely the same as in the 108th Congress: authorized spending (e.g., the amount of authorizations in the bill, and the bill’s potential budgetary impact), change to Corps policies and practices (see “Project Development Reform,” below), and authorization of a few controversial projects (see project-specific sections of this CRS issue brief). Other issues, of course, may arise during the course of consideration.6

The Congressional Budget Office’s (CBO’s) analysis of the estimated cost to the federal government of S. 728 surpassed the estimates of S. 2773 and H.R. 2557 of the 108th

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5 (...continued)

5 (Continued) dollars) in the 1960s and 1970s to $1.7 billion recently.

6 For example, §2001 of S. 728 would allow in-kind construction work by nonfederal project sponsors to be credited against local cost-share responsibilities for Corps projects; this may raise the issue of the responsibility of these nonfederal sponsors to pay prevailing wages under the 1931 Davis-Bacon Act (40 U.S.C. §§276a-276a-5). The application of prevailing wages to activities of nonfederal sponsors was an issue that delayed a WRDA bill’s consideration in 2000. For more information on the Davis-Bacon Act, see CRS Report 94-908 E, Davis-Bacon: The Act and the Literature, by William G. Whittaker.
The effect of S. 728 on direct spending is considerably lower than the estimate for S. 2773.


Congress.\(^7\) CBO estimated that S. 728 would cost $4.1 billion from 2006 to 2010 and an additional $7.6 billion from 2011 to 2020.

Although many of the provisions in H.R. 2864 are similar to those in H.R. 2557 (108\(^\text{th}\) Congress), the addition of the coastal Louisiana, UMR-IWW, and Indian-River Lagoon investments are expected to increase the estimated cost of the bill above the estimate for H.R. 2557. How the Administration will view S. 728 and H.R. 2864, which both would authorize more activities than H.R. 2557, which the Administration did not support, is unknown.

**Regulatory Changes.** One issue that is shaping S. 728 consideration in the Senate that was not an active part of the WRDA debate in the 108\(^\text{th}\) Congress is a proposed reduction of the application of the Corps’ regulatory responsibilities. An amendment adopted during the markup of S. 728 by the Senate Environment and Public Works Committee would limit the Corps’ regulatory responsibilities for navigable waters under Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 407). The language added would exclude from the Corps’ regulatory authority those activities or structures on private property that do not pose a safety threat to maritime traffic. Interpretations of the impact of the language and the need to reduce the Corps’ application of the regulatory requirement (i.e., defining a smaller universe of activities and structures as requiring a permit) remain topics of debate. For example, S.Rept. 109-61 for S. 728 includes additional views of seven committee members on what they perceive to be “extremely broad language” with “extensive unintended consequences.”

A similar amendment proposed during House subcommittee markup of H.R. 2864 was ruled nongermane.

**Project Development Reform.** Support for changing the Corps’ practices gained momentum in 2000 in the wake of a series of critical articles in the Washington Post, whistleblower allegations, and ensuing investigations. Many of the supporters of these changes, primarily environmental groups, sought to modify Corps project planning (e.g., by changing the cost-benefit analysis and consideration of environmental impacts and benefits) to require additional review of Corps projects (e.g., through external review of Corps feasibility reports), and to strengthen environmental protection (e.g., through modifications to fish and wildlife mitigation requirements); these kinds of changes often were referred to as “Corps reform.” Although Corps reforms were discussed in the 106\(^\text{th}\), 107\(^\text{th}\), and 108\(^\text{th}\) Congresses, no significant changes were enacted. Some Members of Congress, along with agriculture and navigation interests, were satisfied with existing practices.

Although the 106\(^\text{th}\) Congress did not enact Corps changes, it asked the National Academy of Sciences to review Corps planning in §216 of WRDA 2000. In April 2004, the Academy’s National Research Council (NRC) published four reports from this review. Each report recommended changes in Corps practices and the larger water resources management context. The Corps argues that it has transformed itself by changes it has implemented since 2000, and other changes that are nearing completion; these include refinements in planning, internal review (with the possibility of external review), and wetlands mitigation.\(^8\)

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\(^7\) The effect of S. 728 on direct spending is considerably lower than the estimate for S. 2773.

\(^8\) The Corps summarizes its efforts at [http://www.usace.army.mil/inet/functions/cw/hot_topics/18apr_changes.htm], visited on June 8, 2005.
The debate over changing the Corps has evolved. As shown by S. 753 (Corps of Engineers Modernization and Improvement Act of 2005), some continue to support the Corps reform proposals that largely grew out of the exposure the Corps received in 2000. Others argue that any changes should move the agency in a different direction than the original measures pursued after the 2000 events. These stakeholders, like many nonfederal sponsors of Corps projects, want to increase the predictability of the Corps planning process, by making changes such as standardizing planning procedures, models, and data; limiting the length of studies; and requiring tracking of the agency’s construction backlog. In other words, there are at least two views of how to change the Corps that derive from fundamentally divergent perspectives of what, if anything, is wrong with Corps’ practices.

One view is that Corps projects could be improved by increasing environmental considerations in project planning, implementing external review, and enacting more stringent requirements for fish and wildlife mitigation. Another view supports refinements to Corps planning, review, and mitigation that are aimed at limiting the length and increasing the predictability of the project development process, while not increasing costs. Consequently, the S. 728 and H.R. 2864 provisions that would change Corps planning, review, and fish and wildlife mitigation are the subject of some debate. The provisions in H.R. 2864 are largely the same as in the WRDA 2003 (H.R. 2557) bill that passed the House. Although these provisions increase environmental considerations and review of Corps projects, some environmental advocates argue that the measures are insufficient; supporters of streamlining the Corps practices have argued that the provisions are unnecessary and add only delay, cost, and uncertainty to an already lengthy project development and constructions process.

Although some elements of S. 728 are similar to provisions negotiated during Senate WRDA considerations in the 108th Congress, many elements of S. 728 are either new or significantly modified. As a result, there are key differences between the provisions in the House and Senate bills. For example, the independent review provisions in the two bills differ on what would be reviewed, and by whom. (For a more detailed analysis of the provisions, see CRS Report RS22129, “Corps of Engineers Reform” in WRDA 2005, by Nicole T. Carter.)

The planning, review, and mitigation provisions are not the only provisions in S. 728 and H.R. 2864 changing Corps practices and policies. Other provisions of the two bills could be analyzed in the context of Corps reform; these include §2005 of S. 728, requiring a Corps fiscal transparency report; §2015 of S. 728, requiring cost-sharing for monitoring of ecosystem restoration projects; and §2025 of H.R. 2864, streamlining environmental review of Corps projects.

Upper Mississippi River-Illinois Waterway. The Upper Mississippi River and Illinois Waterway (UMR-IWW) is at the center of a debate over the future of inland navigation, the restoration of rivers used for multiple purposes, and the reliability and completeness of the Corps analyses justifying investments. Consequently, authorization of investments in navigation and ecosystem restoration of the UMR-IWW is playing a role in

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WRDA debates in the 109th Congress; topics being debated include the urgency, necessity, and national benefit of expanded UMR-IWW navigation capacity and ecosystem restoration.

The UMR-IWW is a 1,200-mile, 9-foot-deep navigation channel created by 37 lock-and-dam sites and thousands of channel structures. The UMR-IWW makes commercial navigation possible between Minneapolis and St. Louis on the Mississippi River, and along the Illinois Waterway from Chicago to the Mississippi River. It permits upper midwestern states to benefit from low-cost barge transport. Since the 1980s the system has experienced increasing traffic delays, purportedly reducing competitiveness of U.S. products in some global markets. The river is also losing the habitat diversity that allows it to support an unusually large number of species for a temperate river. This loss is partially attributable to changes in the distribution and movement of river water caused by navigation structures and operation of the 9-foot navigation channel.

The Corps’ Chief of Engineers approved the agency’s completed feasibility report on UMR-IWW improvements in December 2004. This report is now being reviewed for compliance with Administration policy by the Assistant Secretary of the Army (Civil Works), and subsequently will be reviewed by OMB. The Corps’ feasibility report failed to significantly reduce the debate over the urgency, necessity, and national benefit of expanded navigation capacity. (For an analysis of the navigation expansion decisions, see CRS Report RL32470, *Upper Mississippi River-Illinois Waterway Navigation Expansion: An Agricultural, Transportation, and Environmental Decision*, coordinated by Randy Schnepf.) The Corps’ ecosystem restoration plan has been less controversial than the navigation plan. There is general agreement that the ecosystem is declining and support for the 15-year increment of the Corps’ 50-year ecosystem restoration plan. Debate over the restoration proposal focuses primarily on implementation strategies. For more information, see CRS Report RL32630, *Upper Mississippi River System: Proposals to Restore an Inland Waterway’s Ecosystem*, by Kyna Powers and Nicole T. Carter.

**UMR-IWW Navigation and Ecosystem Restoration Investments.** The authorizations of navigation ecosystem restoration investments for the UMR-IWW in S. 728 and H.R. 2864 are largely similar. Section 1002 of S. 728 and §8003 of H.R. 2864 would authorize $2.03 billion for the initial set of navigation improvements — seven new locks, small-scale and non-structural measures, and related environmental mitigation, in general conformance with the feasibility report. The bills, however, do not explicitly mention the adaptive implementation process recommended by the Corps nor many of the monitoring and study recommendations.


11 One of the differences is that S. 728 directs that the investments are to be implemented in “general accordance” with Corps documents, while H.R. 2864 directs that implementation be “substantially in accordance with the [Corps documents] and subject to the conditions described therein.”

12 The feasibility report was the result of a controversial feasibility study process that began in 1993. (continued...)
Section 1002 of S. 728 and §8004 of H.R. 2864 would authorize $1.58 billion for ecosystem restoration for the Upper Mississippi River Basin in accordance with the general framework outlined in the Corps feasibility report. However, neither bill mentions the Corps’ proposal for an adaptive management approach, nor do they explicitly authorize dual-purpose management of the river for ecosystem restoration and navigation. S. 728 and H.R. 2864 appear to link ecosystem restoration and navigation improvements through a comparable progress provision. For a comparison of the ecosystem restoration and navigation authorization language and the Corps’ recommendations, see CRS Report RL32915, *Upper Mississippi River-Illinois Waterway Investments: Legislation in the 109th Congress*, by Nicole T. Carter and Kyna Powers.

**Everglades Restoration.** To date, the Corps’ largest involvement in a restoration effort has been in the Florida Everglades, with a three-decade, $7.8 billion restoration program. Congress approved the Corps’ implementation of the Comprehensive Everglades Restoration Plan (CERP) as a framework for Everglades restoration in WRDA 2000. For more information on Everglades restoration and implementation issues, see CRS Report RS22048, *Everglades Restoration: The Federal Role in Funding*, by Pervaze A. Sheikh and Nicole T. Carter.

The principal objective of CERP is to redirect and store freshwater currently diverted away from the Everglades to the ocean, and use it to restore the natural hydrologic functions of the south Florida ecosystem. WRDA 2000 authorized an initial set of CERP restoration projects, as well as $700 million in federal funds to implement them, and established a process for additional projects contemplated in the 1999 CERP plan to be developed and authorized. Authorization language for two of these additional projects — Indian River Lagoon-South (IRL-S) wetlands and estuarine restoration and the Picayune Strand ecosystem restoration (also known as Southern Golden Gates Estates ecosystem restoration) — is included S. 728; H.R. 2864 only contains the authorization for IRL-S. These two projects are the first projects to be developed under the process established in WRDA 2000; consequently, some view their fate as a test case of the CERP framework. Further, both bills would include the Hillsboro and Okeechobee Aquifer project as a part of CERP, and H.R. 2864 would increase the authorization of that project by $12.2 million to $39.2 million. This would place the project within the framework of CERP and the requirements of WRDA 2000. With regard to modified water deliveries to the Everglades, H.R. 2864 states that the Secretary of the Army shall not carry out a project raising Tamiami Trail until the project is

12 (...continued)
The final feasibility report stated that sufficient analysis had been completed to support an initial investment decision to be implemented using an adaptive approach that minimizes risk by controlling the magnitude of investment decisions; the report recommended that additional monitoring and study be performed in order to support decisions made under the adaptive implementation approach.

13 Prepared by Pervaze A. Sheikh, Analyst in Environmental and Natural Resources Policy, Resources, Science, and Industry Division.

authorized by law; and that no later than August 31, 2005, the Secretary shall submit to Congress reports requesting authorization for changes in the projects to improve water deliveries to Everglades National Park, raise Tamiami Trail, and modify the C-111 canal.

**Indian River Lagoon.** S. 728 and H.R. 2864 would authorize an IRL-S project estimated at $1.2 billion (50% federal), as recommended by the Corps. The Corps recommended that Congress authorize this project to restore the IRL-S wetlands and estuary.\(^{15}\) The Indian River Lagoon is a 156-mile long estuary, located at the mouth of the St. Lucie River in eastern Florida. The IRL-S has been altered by unnaturally large and poorly timed freshwater discharges arriving from the St. Lucie Canal and other elements of the Central and Southern Florida project. These discharges have altered water quality, and may have contributed to depleted water supplies in the Everglades ecosystem. The significance of these ecosystem problems is exacerbated by the high biodiversity found in the IRL-S.\(^{16}\)

The Corps’ report on the feasibility and implementation of the IRL-S is being reviewed for compliance with Administration policy by the Assistant Secretary of the Army (Civil Works), and subsequently will be reviewed by OMB. The recommended plan would divert some of the current flow to planned storage reservoirs as well as to disperse water throughout the IRL-S ecosystem. Four artificial reservoirs would store excess freshwater for agricultural uses in the area. Natural storage areas would be restored by acquiring nearly 93,000 acres of land. These storage areas would also improve native habitat (which is a goal of the larger Everglades restoration plan) and reduce phosphorus and nitrogen loads into the IRL-S. Further, the plan calls for removing an estimated 7.7 million cubic yards of “muck” and disposing it elsewhere. The recommended project has evolved since the activities proposed in CERP; in that document, the estimated cost for the activities that now make up the recommended IRL-S project was less than $1 billion and consisted primarily of artificial storage reservoirs.\(^{17}\)

Some supporters of the Indian River Lagoon restoration project argue that the project will improve the seabed floor and revive bottom-dwelling communities.\(^{18}\) In the **IRL-S Final PIR**, the Corps states that IRL-S restoration will result in clean water transferred to Lake Okeechobee, thus improving the quality of water that moves through the ecosystem from the lake.\(^{19}\) Others, however, suggest that even though the project will help the estuarine ecosystem, it will not completely attenuate freshwater flows from Lake Okeechobee, a problem that may have to be dealt with separately. Further, some believe that IRL-S


\(^{16}\) Corps, *IRL-S Final PIR*.

\(^{17}\) Corps, *CERP Plan*.


\(^{19}\) Corps, *IRL-S Final PIR*. 

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restoration is localized and will have little impact on the Greater Everglades ecosystem. Another concern that has been raised is the increase in project cost.

**Picayune Strand Restoration.** The Picayune Strand restoration project (also known as the Southern Golden Gates Estates project) is expected to cost $363 million, of which the federal share would be $181 million. S. 728 would authorize the Picayune Strand restoration project; H.R. 2864 does not include authorization of the project. The Corps prepared a final Project Implementation Report and Environmental Impact Statement for Picayune Strand and solicited comments through December 19, 2004. After responding to comments and finalizing the report, the next step for the Corps would be for the final report to be approved by the Chief of Engineers. The proposal is to remove roads, canals, and other infrastructure, and is expected to increase freshwater flows to natural areas, lower freshwater surges to the ocean, and improve water quality.20 The non-federal sponsor (the state of Florida) has spent nearly $100 million of its share on land acquisition; most of the remaining project expenses are for design and construction of the project.21

The Picayune Strand project encompasses 86 square miles (approximately 55,000 acres) in Collier County, FL, and includes several federal and state lands, such as the Florida Panther National Wildlife Refuge, 10,000 Islands National Wildlife Refuge, and others. Residential development in the region has altered the landscape, changing the ecosystem. Some alterations include a lower watertable, which has diminished cypress-dominated wetlands and has led to colonization by invasive species.22 Other ecosystem alterations are degraded water quality and an increase in the severity and frequency of wildfires.

Some are concerned that unwilling sellers may delay or stall Picayune Strand restoration activities that depend on land acquisition. Nearly 98% of the land needed for restoring Picayune Strand is in public ownership and over 1,800 parcels (representing almost 1,500 landowners) have been acquired through eminent domain.23 The accessibility of the Picayune Strand for recreation is another controversial issue for local residents. Some are concerned over the potential loss of recreational opportunities due to restoration; the state has responded that it will provide areas for off-road vehicles and other recreational activities.

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20 Ibid.
23 Florida Dept. of Environmental Protection, *Statement by Florida Department of Environmental Protection Secretary Colleen M. Castille Regarding the Restoration of America’s Everglades* (Tallahassee, FL: May 24, 2004); available at [http://www.dep.state.fl.us/secretary/news/2004/may/0525_hardy.htm], visited on June 8, 2005.
Coastal Louisiana Restoration and Protection. Coastal wetlands in Louisiana have been disappearing at a high rate, and those losses are forecast to continue if no actions are taken to reverse current trends. Federal agencies, led by the Corps and in coordination with the state, developed several versions of plans to slow the rate of loss and restore some of these wetlands. The current Corps feasibility report was released in November 2004; it received a favorable recommendation in a Chief’s report in late January 2005. The recommended measures in the feasibility report totaled an estimated $1.997 billion. The Chief’s report subdivided this total into three parts; it recommended that projects and programs totaling $1.123 billion be authorized immediately, an additional $145 million be spent on already authorized investigations of “large-scale concepts,” and future authorization be pursued for ten features totaling $728 million.

The Corps’ feasibility report proposed activities to divert water from the Mississippi River to convey sediments into nearby wetlands, and to help stabilize the coastline. In the diversions, wetlands would gradually reestablish themselves on newly deposited sediments. The Bush Administration has reportedly endorsed this effort, in which the federal government would pay about 64% of the total estimated cost. For more information on the status of wetlands in coastal Louisiana and the evolution of the restoration plans, see CRS Report RL32673, Coastal Louisiana: Attempting to Restore an Ecosystem, by Jeffrey Zinn, and on the Corps’ recommended actions, see CRS Report RS22110, Coastal Louisiana Ecosystem Restoration: The Recommended Corps Plan, by Jeffrey Zinn.

Section 1003 of S. 728, as ordered reported with amendments, would authorize the Louisiana Coastal Area program “substantially in accordance with” the Chief’s report. The legislative language does not specify any dollar amounts, or federal and nonfederal shares of the total, so it appears the estimates in the Chief’s report would be the authorized amounts. Provisions in §1003 state that of the projects identified in the Chief’s report, priority is to be given to critical restoration features, to Mississippi River diversion projects that protect specified population centers and provide coastal environmental benefits, and to coastal barrier projects that are related to diversion projects and protect population centers. It also authorizes non-governmental organizations to pay the nonfederal portion of project costs.

Title VII of H.R. 2864, as introduced, by contrast, does specify dollar amounts, and would authorize a total of $1.218 billion for many of the same activities that are recommended in the Corps report. It would provide a total of $828.3 million for five projects that the Corps is ready to initiate. The amounts specified for each project are the same as in the Chief’s report. It also would authorize funding levels requested in the Chief’s report for demonstration projects and beneficial uses of dredged materials. It also would authorize $130 million for feasibility studies “substantially in accordance with the Plan.”

Section 1003 of S. 728 also contains additional provisions. It calls on the Secretary, in coordination with the state, to develop a comprehensive plan for protection, preservation, and restoration within one year, to be updated every five years, and specifies that it include discussions of three topics, and consider incorporating related projects into the program laid out in the Chief’s report. It would create a federal-state task force to make recommendations.

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24 Prepared by Jeff Zinn, Specialist in Natural Resources Policy, Resources, Science, and Industry Division.
to the Secretary on many specified aspects of the coastal Louisiana effort, including the comprehensive plan. The only specific project included in these provisions is the Mississippi River Gulf Outlet (MRGO). The Corps would be required to develop a plan to modify MRGO in ways that would address six listed topics (e.g., salt water intrusion) within a year of enactment. It would create a new science and technology program to develop better information about baseline conditions in coastal Louisiana. An amendment adopted during committee markup adds language describing the content of a National Academy of Sciences study, to be initiated within 180 days of enactment, on the causes and sources of degradation caused by any activities approved by the Secretary. The language in this subsection also would require the Corps to submit a feasibility report on the ten features identified in the Chief’s report that are estimated to cost a total of $728 million, for which the agency anticipates seeking future authorization; §1003 would authorize $10 million for this report.

Title VII of H.R. 2864 also contains additional provisions, many of which are similar to those in §1003. In addition to having nearly identical requirements for a report on MARGO, it would also require the Corps to submit to Congress reports on the Barataria-Terrebonne Estuary and the Chenier Plain by July 1, 2006. It would require that a comprehensive plan be completed within five years of enactment. Like the House bill, it would create a federal-state task force to make recommendations to the Secretary on many specified aspects of the coastal Louisiana effort, including the comprehensive plan. However, the membership would be slightly different, with two additional federal agencies added to the roster, and the three state positions being specified. Also, this bill would require a biennial report to Congress, rather than a report every five years. Title VII would also allow credit for certain prior non-federal contributions to projects, and also allow them to be transferred to any other project authorized in this title.

**Legislation**

**109th Congress**

**H.R. 2864 (Young)**

**S. 728 (Bond)**

**S. 753 (Feingold)**
Corps of Engineers Modernization and Improvement Act of 2005. Introduced on April 11, 2005; and referred to the Committee on Environment and Public Works.

**108th Congress**

**H.R. 2557 (Young)**
Water Resources Development Act of 2003. Passed House September 24, 2003; no further action was taken.
S. 2554 (Inhofe)
Water Resources Development Act of 2004. Ordered reported by the Senate Committee on Environment and Public Works on June 23, 2004. Instead on August 25, 2004, the committee reported a new bill — S. 2773 — which has been placed on the Senate calendar; no further action was taken.

S. 2773 (Inhofe)
Water Resources Development Act of 2004. Original measure reported to Senate, and placed on Senate calendar on August 25, 2004; no further action was taken.

FOR ADDITIONAL READING

Background


Authorizations and WRDA
Congressional Budget Office, Cost Estimate, H.R. 2557, Water Resources Development Act of 2003, as ordered reported by the House Committee on Transportation and Infrastructure on July 23, 2003.


Project Development Reform


—— River Basins and Coastal Systems Planning Within the U.S. Army Corps of Engineers (2004).

Upper Mississippi River-Illinois Waterway


Everglades Restoration


CRS Report RL32131, Phosphorus Mitigation in the Everglades, by Pervaze Sheikh and Barbara Johnson.

Coastal Louisiana
CRS Report RS22110, Coastal Louisiana Ecosystem Restoration: The Recommended Corps Plan, by Jeffrey Zinn.

CRS Report RL32673, Coastal Louisiana: Attempting to Restore an Ecosystem, by Jeffrey Zinn.