

**ARMY CIVIL WORKS PROGRAM
FY 2016 WORK PLAN INVESTIGATIONS**

BUSINESS PROGRAM 1/	STUDY OR PROGRAM	PHASE 1/	PRESIDENT'S BUDGET AMOUNT	STATEMENT OF MANAGERS AMOUNT	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT	LINE ITEM OF ADDITIONAL FUNDING 1/	SUMMARY OF WORK TO BE ACCOMPLISHED WITH TOTAL AMOUNT
NHS	CRAIG HARBOR, AK	F	\$535,000					Chief's report will be completed with previously appropriated funds
NHS	KOTZEBUE SMALL BOAT HARBOR, AK	F	\$700,000	\$480,000		\$480,000		Continue feasibility study activities through the alternatives milestone
NHS	PERRYVILLE HARBOR, AK	F	\$700,000					
NHS	SAINT GEORGE HARBOR IMPROVEMENT, AK	F	\$700,000	\$500,000		\$500,000		Continue feasibility study activities through the alternatives milestone
NHS	UNALASKA (DUTCH) HARBOR, AK	F			\$200,000	\$200,000	5	New Start: Initiate Feasibility Study
FDRR	LOWELL CREEK TUNNEL FLOOD DIVERSION, AK	F			\$200,000	\$200,000	2	New Start: Initiate Feasibility Study
NHD	MOBILE HARBOR, AL	F	\$400,000	\$400,000	\$1,088,000	\$1,488,000	5	Continue General Reevaluation Report through the alternatives milestone and develop the tentatively selected plan
FDRR	VILLAGE CREEK, AL	F			\$200,000	\$200,000	2	Resume the feasibility study through the completion of the alternatives milestone
NIH	THREE RIVERS, AR	F	\$700,000	\$430,000		\$430,000		Continue feasibility study through the tentatively selected plan milestone
FDRR	LITTLE COLORADO RIVER (WINSLOW), AZ	F	\$100,000	\$100,000	\$22,000	\$122,000	2	Continue feasibility study through public review of draft report; prepare a 3x3x3 exemption memorandum and work towards the agency decision milestone
FDRR	LOWER SANTA CRUZ RIVER, AZ	F	\$700,000	\$700,000		\$700,000		Continue the feasibility study through the alternatives milestone
FDRR	AMERICAN RIVER COMMON FEATURES, NATOMAS BASIN, CA	P	\$3,500,000	\$3,500,000		\$3,500,000		Complete preconstruction engineering & design
ENR	ARROYO SECO WATERSHED, CA	F			\$75,000	\$75,000	8	Continue feasibility study through the tentatively selected plan milestone
RI	CALFED		\$100,000	\$100,000		\$100,000		Continue program support, coordination and USACE representation efforts in the Federal and State CALFED process
FDRC	CARPINTERIA SHORELINE STUDY	F			\$400,000	\$400,000	3	Continue the feasibility study through the alternatives milestone and work towards completing the tentatively selected plan milestone.
FDRR	CORTE MADERA CREEK, CA	F			\$500,000	\$500,000	2	Continue the General Reevaluation Report through the alternatives milestone and tentatively selected plan milestone
ENR	DRY CREEK (WARM SPRINGS) RESTORATION, CA	F	\$700,000	\$700,000		\$700,000		Continue feasibility study through the alternatives milestone and tentatively selected plan milestone
ENR	EAST SAN PEDRO BAY ECOSYSTEM RESTORATION, CA	F			\$75,000	\$75,000	9	Resume the feasibility study through completion of the alternatives milestone
ENR	LOS ANGELES RIVER ECOSYSTEM RESTORATION, CA	P			\$100,000	\$100,000	8	Initiate preconstruction engineering & design
FDRR	NORTHERN CALIFORNIA STREAMS, LOWER CACHE CREEK, YOLO COUNTY, WOODLAND & VICINITY, CA	F	\$570,000	\$570,000		\$570,000		Under review as a result of changed conditions
NHD	PORT OF LONG BEACH NAVIGATION IMPROVEMENTS, CA	F	\$700,000	\$700,000		\$700,000		Continue the feasibility study through the alternatives milestone and work towards completing the tentatively selected plan milestone
NHD	REDWOOD CITY HARBOR, CA	F			\$100,000	\$100,000	5	Continue the feasibility study through the agency decision milestone
FDRR	SACRAMENTO RIVER BANK PROTECTION (PHASE 3), CA	F	\$500,000	\$500,000		\$500,000		Continue General Reevaluation Report through the alternatives milestone and work towards completing the tentatively selected plan milestone
FDRR	SAN FRANCISCO CREEK, CA	F	\$331,000	\$100,000		\$100,000		Continuing feasibility study through update of project management plan and work towards completing the tentatively selected plan milestone
FDRC	SOUTH SAN FRANCISCO SHORELINE, CA	P			\$2,055,000	\$3,000,000	1	Initiate preconstruction engineering & design
FDRC	SOUTH SAN FRANCISCO SHORELINE, CA				\$945,000		3	
FDRR	SUTTER COUNTY, CA	P			\$100,000	\$100,000	1	Continue preconstruction engineering & design
ENR	YUBA RIVER ECOSYSTEM RESTORATION, CA	F	\$700,000	\$700,000		\$700,000		Continue the feasibility study through the tentatively selected plan milestone and draft report submittal
ENR	ADAMS AND DENVER COUNTIES, CO	F	\$700,000	\$700,000		\$700,000		Continue feasibility study through alternatives milestone and begin evaluating alternatives
FDRR	FAIRFIELD AND NEW HAVEN COUNTIES (FLOODING), CT	F	\$700,000	\$400,000		\$400,000		Continue feasibility study through the project management plan and the alternatives analysis
NHD	NEW HAVEN HARBOR DEEPENING, CT	F	\$700,000	\$700,000		\$700,000		Continue feasibility study through the alternatives milestone and make significant progress towards the tentatively selected plan
FDRC	THE DISTRICT OF COLUMBIA, DC	F			\$200,000	\$200,000	3	Initiate the feasibility study recommended in the North Atlantic Coastal Comprehensive Study
NHD	MANATEE HARBOR IMPROVEMENTS, FL	F	\$700,000	\$210,000		\$210,000		Continue the feasibility study through the project management plan, the alternatives milestone, conducting further alternative formulation and analysis to develop the tentatively selected plan
NHD	PORT EVERGLADES HARBOR, FL	P			\$1,387,000	\$1,387,000	5	Continue preconstruction engineering & design
FDRC	ST JOHN'S COUNTY, FL	F			\$160,000	\$160,000	3	Complete the feasibility phase
FDRC	ST LUCIE COUNTY BEACHES, FL	F			\$295,000	\$295,000	3	Complete the feasibility phase
ENR	PROCTOR CREEK, GA	F	\$700,000					
ENR	SATILLA WATERSHED, GA	F	\$700,000					
ENR	SAVANNAH RIVER BELOW AUGUSTA ECOSYSTEM RESTORATION, GA	F			\$200,000	\$200,000	8	New Start: Initiate Feasibility Study
FDRR	SWEETWATER, GA	F			\$200,000	\$200,000	2	New Start: Initiate Feasibility Study
FDRR	DES MOINES LEVEES SYSTEM, DES MOINES AND RACCOON RIVERS, IA	F	\$700,000	\$700,000		\$700,000		Continue the feasibility study through tentatively selected plan milestone and reviews
ENR	GRAND RIVER BASIN, IA & MO	F			\$200,000	\$200,000	8	New Start: Initiate the Feasibility Study
FDRR	BOISE RIVER, BOISE, ID	F	\$275,000	\$275,000	\$100,000	\$375,000	2	Continue the feasibility study through tentatively selected plan milestone and the agency decision milestone
FDRR	DU PAGE RIVER, IL	F	\$700,000	\$700,000		\$700,000		Continue feasibility study through the alternatives milestone
ENR	ILLINOIS RIVER BASIN RESTORATION, IL	F	\$400,000	\$400,000		\$400,000		Complete feasibility studies for Fox River and Ten Mile Creek
ENR	INTERBASIN CONTROL OF GREAT LAKES-MISSISSIPPI RIVER AQUATIC NUISANCE SPECIES, IL, IN, OH & WI	F	\$500,000	\$500,000	\$290,000	\$1,000,000	8	Continue feasibility study through the evaluation and analysis of alternatives to develop the tentatively selected plan
ENR	INTERBASIN CONTROL OF GREAT LAKES-MISSISSIPPI RIVER AQUATIC NUISANCE SPECIES, IL, IN, OH & WI				\$210,000		9	
ENR	KASKASKIA RIVER BASIN, IL	F	\$500,000	\$500,000		\$500,000		Continue feasibility study through the alternatives milestone
ENR	NORTHERN KENTUCKY RIVERFRONT COMMONS, KY	F			\$392,000	\$392,000	9	Continue feasibility study through the alternatives milestone
RI	GULF OF MEXICO		\$100,000	\$100,000	\$150,000	\$250,000	9	Funds will be used to continue USACE Gulf Restoration Inter-Divisional Team collaboration, including RESTORE Act related work, Deep Water Horizon long term recovery, and support for the Gulf of Mexico Alliance Master Mapping Plan
NIH	INNER HARBOR NAVIGATION CANAL LOCK, LA	F	\$1,400,000	\$1,400,000		\$1,400,000		Continue General Reevaluation Report through the tentatively selected plan milestone
ENR	LOUISIANA COASTAL AREA ECOSYSTEM RESTORATION, LA	F	\$50,000	\$50,000		\$50,000		Continue Mississippi River Hydrodynamic Model/Delta Management Study

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NHD	MISSISSIPPI RIVER SHIP CHANNEL, GULF TO BATON ROUGE, LA	F	\$550,000	\$550,000		\$550,000		Continue General Reevaluation Report to validate economic justification of authorized project
NHD	BOSTON HARBOR DEEP DRAFT INVESTIGATION, MA	P	\$1,835,000	\$1,835,000		\$1,835,000		Complete preconstruction engineering & design
ENR	CHESAPEAKE BAY COMPREHENSIVE PLAN, MD, PA & VA	F	\$250,000	\$250,000	\$450,000	\$700,000	9	Continue the feasibility study through data collection and compilation, modeling and model certification
RI	CHESAPEAKE BAY PROGRAM		\$75,000	\$75,000		\$75,000		Coordination with Federal, state, local, and non-governmental agencies on Chesapeake Bay Protection and Restoration
NHD	SAGINAW RIVER DEEPENING, SAGINAW, MI	F	\$100,000	\$100,000		\$100,000		Complete feasibility phase
ENR	MINNESOTA RIVER WATERSHED STUDY, MN & SD (MINNESOTA RIVER AUTHORITY)	F	\$600,000	\$600,000		\$600,000		Continue the feasibility study through hydrologic and sediment model development and integration of models into the decision support system watershed framework
ENR	ST LOUIS MISSISSIPPI RIVERFRONT, MO & IL	F	\$700,000	\$700,000		\$700,000		Continue feasibility study through the alternatives milestone
NHD	ROTA HARBOR MODIFICATIONS, CNMI	F	\$700,000	\$300,000		\$300,000		Continue General Reevaluation Report through the alternatives milestone and tentatively selected plan milestone
NHD	TINIAN HARBOR MODIFICATIONS, CNMI	F	\$700,000	\$300,000		\$300,000		Continue General Reevaluation Report through the alternatives milestone
FDRR	SOURIS RIVER BASIN, ND	F			\$200,000	\$200,000	2	New Start: Initiate Feasibility Study
ENR	RED RIVER OF THE NORTH BASIN, ND, MN, SD & MANITOBA, CANADA	F	\$786,000	\$786,000		\$786,000		Draft the Comprehensive Watershed Management Plan
FDRC	NEW JERSEY BACKBAY, NJ	F		\$300,000		\$300,000		Continue feasibility study through the alternatives milestone and begin development of a tentatively selected plan; North Atlantic Coastal Comprehensive Study spinoff
FDRR	PASSAIC RIVER MAINSTEM, NJ	F	\$982,000	\$982,000		\$982,000		Complete the General Reevaluation Report for Phase I (Above Dundee Dam)
FDRR	RAHWAY RIVER BASIN, NJ	F	\$500,000	\$500,000		\$500,000		Continue feasibility study through alternatives milestone
FDRR	RARITAN RIVER BASIN, GREEN BROOK SUB-BASIN, NJ (UPPER BASIN)	F			\$200,000	\$200,000	2	Initiate General Reevaluation Report
ENR	ESPANOLA VALLEY, RIO GRANDE AND TRIBUTARIES, NM	F			\$175,000	\$175,000	8	Continue the feasibility study through the agency decision milestone.
FDRR	MIDDLE RIO GRANDE FLOOD PROTECTION, BERNALILLO TO BELEN, NM	F			\$90,000	\$118,000	1	Continue the General Reevaluation Report through the tentatively selected plan milestone
FDRR	MIDDLE RIO GRANDE FLOOD PROTECTION, BERNALILLO TO BELEN, NM				\$28,000		2	
ENR	RIO GRANDE, SANDIA PUEBLO TO ISLETA PUEBLO, NM	F			\$200,000	\$200,000	9	New Start: Initiate Feasibility Study
RI	LAKE TAHOE		\$50,000	\$50,000		\$50,000		Continue participation in Lake Tahoe Federal Interagency Partnership activities
FDRR	TRUCKEE MEADOWS, NV	F			\$1,750,000	\$1,750,000	2	Initiate preconstruction engineering and design. In addition, evaluate the locally preferred plan under Section 1036 of WRRDA 2014 and work with the non-Federal sponsor to reach agreement on a proposed plan.
ENR	HUDSON RIVER HABITAT RESTORATION, NY	F			\$200,000	\$200,000	8	Resume the feasibility study through finalizing the project management plan and work towards the alternatives milestone
FDRC	NASSAU COUNTY BACK BAYS, NY	F			\$200,000	\$200,000	3	Initiate the feasibility study recommended in the North Atlantic Coastal Comprehensive Study
NHD	NEW YORK AND NEW JERSEY HARBOR, NY & NJ	F			\$300,000	\$300,000	5	Initiate General Reevaluation Report for an uncompleted separable element of the 50-foot New York/New Jersey Harbor Deepening (Anchorage) project
FDRC	NEW YORK - NEW JERSEY HARBOR & TRIBUTARIES, NY & NJ	F		\$400,000		\$400,000		Initiate the feasibility study recommended in the North Atlantic Coastal Comprehensive Study
FDRR	UPPER SUSQUEHANNA COMPREHENSIVE FLOOD DAMAGE REDUCTION, NY	F	\$600,000	\$600,000		\$600,000		Continue feasibility study through alternatives milestone and begin evaluating alternatives
FDRR	WESTCHESTER COUNTY STREAMS, BYRAM RIVER BASIN, NY	F	\$703,000	\$703,000		\$703,000		Complete the feasibility phase
ENR	ARKANSAS RIVER CORRIDOR, OK	F	\$815,000	\$460,000		\$460,000		Continue feasibility study through the tentatively selected plan milestone
RI	PACIFIC NORTHWEST FOREST CASE STUDY, OR, WA & ID		\$10,000	\$10,000		\$10,000		Assist the Mt. Baker National Forest on removal of an unstable and abandoned high head dam on Rocky Creek near Baker Lake, tributary to the Skagit River
WTR	WILLAMETTE RIVER BASIN REVIEW, OR	F			\$400,000	\$400,000	8	Continue feasibility phase of full reallocation of 13 reservoirs within the basin through the alternatives milestone
NHD	DELAWARE RIVER DREDGE MATERIAL UTILIZATION, PA	F	\$700,000	\$100,000		\$100,000		Continue the feasibility study through the alternatives milestone and initial screening for the tentatively selected plan.
ENR	CANO MARTIN PENA, PR	P			\$500,000	\$500,000	8	Initiate preconstruction engineering and design and Section 103 process
NHD	SAN JUAN HARBOR IMPROVEMENT STUDY, PR	F	\$700,000	\$500,000		\$500,000		Continue the feasibility study through identification of the final array of alternatives and initiation of environmental coordination
NHD	CHARLESTON HARBOR, SC	P			\$225,000	\$225,000	5	Continue preconstruction engineering & design
FDRC	COASTAL TEXAS PROTECTION AND RESTORATION STUDY, TX	F	\$700,000	\$700,000	\$553,000	\$1,253,000	1	Continue the feasibility study and work towards the alternatives milestone
NIH	GIWW - BRAZOS RIVER FLOODGATES & COLORADO RIVER LOCK, TX	F			\$600,000	\$600,000	6	New Start: Initiate Feasibility Study
NHD	HOUSTON SHIP CHANNEL, TX	F	\$700,000	\$700,000		\$700,000		Continue feasibility study through alternatives milestone and work towards the tentatively selected plan
NHD	MATAGORDA SHIP CHANNEL (WIDENING AND DEEPENING), TX	F			\$200,000	\$200,000	5	New Start: Initiate feasibility study
FDRR	SABINE PASS TO GALVESTON BAY, TX	F	\$600,000	\$600,000		\$600,000		Complete the feasibility phase
FDRR	SPARKS ARROYO COLONIA, EL PASO COUNTY, TX	F	\$200,000	\$200,000		\$200,000		Continue feasibility study through independent external peer review
WTR	SULPHUR RIVER BASIN, TX	F	\$500,000	\$500,000		\$500,000		Complete the feasibility phase
FDRC	CITY OF NORFOLK, VA	F		\$300,000		\$300,000		Initiate the feasibility study recommended in the North Atlantic Coastal Comprehensive Study
NHD	NORFOLK HARBOR AND CHANNELS, VA (DEEPENING)	F	\$800,000	\$800,000		\$800,000		Continue the General Reevaluation Report through the tentatively selected plan milestone
NHD	SEATTLE HARBOR, WA	F	\$500,000	\$500,000		\$500,000		Continue feasibility study through the tentatively selected plan milestone, work towards agency decision milestone and independent external peer review
FDRR	PUYALLUP RIVER, WA	F			\$600,000	\$600,000	2	Continue the feasibility study through tentatively selected plan milestone and the agency decision milestone
ENR	DUNGENESS RIVER ECOSYSTEM RESTORATION STUDY, WA	F	\$700,000					
ENR	SKOKOMISH RIVER BASIN, WA	P			\$200,000	\$200,000	8	Initiate preconstruction engineering & design
RI	ACCESS TO WATER DATA		\$750,000	\$750,000		\$750,000		Provide access to water resources data and related water quality data to the public

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FRM	COASTAL FIELD DATA COLLECTION		\$1,000,000	\$1,000,000		\$1,000,000		Operating and maintaining coastal field research facility to develop coastal field data. Systematically measure, analyze, and assemble long-term coastal data that field offices use to accomplish the Corps mission in coastal navigation and storm damage reduction
NAV	COMMITTEE ON MARINE TRANSPORTATION SYSTEMS		\$100,000	\$100,000	\$25,000	\$125,000	4	Fund Corps participation on the CMTS and support publication of related reports
RI	COORDINATION WITH OTHER WATER RESOURCES AGENCIES		\$398,000	\$398,000		\$398,000		Participation in the North American Waterfowl Management Program; National Estuary Program; and Regional Planning Bodies of the National Ocean Council. Review of environmental impacts resulting from installation of USDA project features. Review and determination of the flood control benefits of studies conducted by the Bureau of Reclamation for proposed Bureau of Reclamation projects.
NAV	DISPOSITION OF COMPLETED PROJECTS	F	\$800,000	\$800,000	\$1,260,000	\$2,060,000	6	Disposal studies for Corps projects: Allegheny River Locks 5-9, PA (\$900,000); Kentucky River Locks 1-4, KY (\$400,000); Upper Monongahela River, PA (\$300,000); West Pearl, LA (\$350,000); Willamette Falls, OR (\$60,000); and funding to screen the potential for new disposition studies (\$50,000).
RI	ENVIRONMENTAL DATA STUDIES		\$75,000	\$75,000	\$23,000	\$98,000	9	Further development of a web-based geospatial data system that displays national ecological data
RI	FERC LICENSING		\$200,000	\$200,000		\$200,000		Conduct reviews of Federal Energy Regulatory Commission (FERC) preliminary permit & license applications for development of hydroelectric power
FRM	FLOOD DAMAGE DATA		\$220,000	\$220,000	\$80,000	\$300,000	1	Collect and maintain basic flood damage data to support research efforts and to inform specific project studies
FRM	FLOOD PLAIN MANAGEMENT SERVICES (HQ MASTER AMSCO)		\$15,000,000	\$15,000,000		\$15,000,000		Provide site-specific flood and flood plain data and assistance to State and local communities
FRM	HYDROLOGIC STUDIES		\$1,743,000	\$1,743,000		\$1,743,000		Collect and study basic hydrologic data for major storm events or special hydrologic processes; Develop flood inundation data for improved real-time flood forecasting
RI	INTERAGENCY AND INTERNATIONAL SUPPORT		\$400,000	\$400,000		\$400,000		Support other Federal agencies, international organizations and foreign governments to address problems of national significance, and to collaborate with these entities
RI	INTERAGENCY WATER RESOURCE DEVELOPMENT		\$721,000	\$721,000		\$721,000		Coordinate with potential non-Federal sponsors
FRM	INTERNATIONAL WATER STUDIES		\$150,000	\$150,000		\$150,000		Participation in and support of boundary water treaties and related international agreements between the United States and Canada
FRM	INVENTORY OF DAMS		\$400,000	\$400,000		\$400,000		Maintain and administer the National Inventory of Dams database and web site
FRM	NATIONAL FLOOD RISK MANAGEMENT		\$6,000,000	\$6,000,000		\$6,000,000		Continue flood risk management coordination actions and plan development at the National, Regional and State levels and participate in state level intergovernmental teams to support states and local communities address flood hazard mitigation priorities
FRM	NATIONAL SHORELINE MANAGEMENT STUDY		\$400,000	\$400,000		\$400,000		Support the Coastal Systems Portfolio Initiative
RI	NORTH ATLANTIC COASTAL COMPREHENSIVE STUDY FOCUS AREAS		\$1,000,000					The Statement of Managers included funding for the three budgeted focus areas as separate and individual feasibility studies: City of Norfolk, VA (\$300,000); New Jersey Back Bay, NJ (\$300,000); and New York-New Jersey Harbor and Tributaries, NY & NJ (\$300,000)
RI	PLANNING ASSISTANCE TO STATES (HQ MASTER AMSCO)		\$5,500,000	\$6,000,000		\$6,000,000		Provide planning and technical assistance to States and local communities for a wide variety of water resource efforts, including watershed activities benefiting environmental restoration, flood risk management, and other watershed resources
RI	PLANNING SUPPORT PROGRAM		\$3,100,000	\$3,100,000		\$3,100,000		Support Planning Associates Program, Planning Centers of Expertise, and Planning Modernization efforts
FRM	PRECIPITATION STUDIES (NATIONAL WATER SERVICE)		\$225,000	\$225,000		\$225,000		Conduct hydro-meteorological studies coordination/support with the National Weather Service
RI	REMOTE SENSING / GEOGRAPHIC INFORMATION SYSTEM SUPPORT		\$75,000	\$75,000	\$275,000	\$350,000	1	Provide technical support within USACE for remote sensing and GIS
RI	RESEARCH AND DEVELOPMENT		\$18,143,000	\$22,000,000	\$1,000,000	\$27,711,000	1	Take advantage of rapidly developing technologies and techniques that will promote significant monetary savings and greater reliability, safety, enhanced efficiency, and environmental sustainability in planning, design, construction, operation and maintenance of civil works activities, which include Navigation (including Hydropower); Flood and Coastal Storm Damage Reduction; Emergency Management, Water Supply, and Recreation; and Environmental (including Regulatory)
RI	RESEARCH AND DEVELOPMENT				\$1,000,000		4	Regional Dredging Strategy
RI	RESEARCH AND DEVELOPMENT				\$2,946,000		6	Inland Navigation Design Center (\$878,000); Remote Lock Operations Demo (\$568,000); Structural Health Monitoring (\$1 million); River Information System and Lock Operations Management Assessment (\$500,000)
RI	RESEARCH AND DEVELOPMENT				\$765,000		5	Improve and update Channel Portfolio Tool Enhancements (\$500,000); Engineering with Nature (\$265,000)
RI	SCIENTIFIC AND TECHNICAL INFORMATION CENTERS		\$47,000	\$47,000		\$47,000		Gather and disseminate information as required by P.L. 99-802, Federal Technology Transfer Act of 1986
RI	SPECIAL INVESTIGATIONS AND REPORTS		\$1,350,000	\$1,350,000		\$1,350,000		Support efforts on requests from sources outside the Corps of Engineers, for information relating to unauthorized projects and other unauthorized and unfunded projects and/or activities, and which are not accomplished with a view toward determining whether a project can be developed. Provides \$25,000 per District to screen potential new feasibility studies.
FRM	STREAM GAGING (U.S. GEOLOGICAL SURVEY)		\$550,000	\$550,000	\$547,000	\$1,097,000	1	Reimburse USGS for operation and maintenance of 2,500 stream gaging stations and data collection

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NAV	TRANSPORTATION SYSTEMS		\$385,000	\$385,000	\$279,000	\$1,593,000	4	Update and distribute shallow and deep-draft vessel operating costs guidance, develop methodologies for preparing a national inland waterway traffic demand forecast, conduct industry and commodity profiles for use in preparing such a national inland waterways traffic demand forecast; Update and improve the data and methods used to estimate shipper response to price changes on the inland waterways; Complete HarborSym refinements, the standardized (and potential certification) of the transportation cost spreadsheet, deep-draft navigation user's guides and other guidance updates as well as training/workshops; Updates and Improvements to the Global Grain Models; Purchase data to track and analyze vessel movements for ports throughout the world, which improves the computation of transportation costs critical to planning; Certification of Navigation Models; Trade Subscriptions and Forecasts; and Completion of Deep Draft Navigation Planning Center of Expertise Products
NAV	TRANSPORTATION SYSTEMS				\$735,000		5	
NAV	TRANSPORTATION SYSTEMS				\$194,000		6	
RI	TRIBAL PARTNERSHIP PROGRAM		\$1,500,000	\$1,500,000		\$1,500,000		Funds will be used to initiate, continue, and complete studies with Tribes and to build strategic partnerships
RI	TRI-SERVICE CADD/GIS TECHNOLOGY CENTER		\$251,000	\$251,000		\$251,000		Develop and publish geospatial standards
FDRR	WATER RESOURCES PRIORITIES STUDY				\$300,000	\$600,000	1	New Start: Initiate Feasibility Study
FDRC	WATER RESOURCES PRIORITIES STUDY				\$300,000		3	
	Grand Total		\$97,000,000	\$94,356,000	\$26,644,000	\$121,000,000		

1/ KEY:	
1	FLOOD AND STORM DAMAGE REDUCTION
2	FLOOD AND STORM DAMAGE REDUCTION (FLOOD CONTROL)
3	FLOOD AND STORM DAMAGE REDUCTION (SHORE PROTECTION)
4	NAVIGATION
5	NAVIGATION (COASTAL AND DEEP-DRAFT)
6	NAVIGATION (INLAND)
7	NAVIGATION (SMALL, REMOTE, OR SUBSISTENCE)
8	OTHER AUTHORIZED PROJECT PURPOSES
9	OTHER AUTHORIZED PROJECT PURPOSES (ENVIRONMENTAL RESTORATION OR COMPLIANCE)
P	PRECONSTRUCTION ENGINEERING AND DESIGN
F	FEASIBILITY PHASE
FDRR	FLOOD DAMAGE REDUCTION RIVERINE
FDRC	FLOOD DAMAGE REDUCTION COASTAL
NHS	SHALLOW DRAFT NAVIGATION
NHD	DEEP DRAFT NAVIGATION
NIH	INLAND NAVIGATION
ENR	ECOSYSTEM RESTORATION
WTR	WATER REALLOCATION
RI	REMAINING ITEMS