



**ARMY CIVIL WORKS PROGRAM
FY 2021 WORK PLAN - INVESTIGATIONS**

STATE	DIVISION	BUSINESS PROGRAM 1/	STUDY OR PROGRAM	FY 2021 BUDGET	FY 2021 EXPLANATORY STATEMENT	ADDITIONAL WORK PLAN AMOUNT	TOTAL FY 2021 ALLOCATION	LINE ITEM OF ADDITIONAL FUNDING 1/	SUMMARY OF WORK TO BE ACCOMPLISHED WITH CONFERENCE ALLOCATION	SUMMARY OF WORK TO BE ACCOMPLISHED WITH FUNDING POT ALLOCATION
AK	POD	NHD	ALASKA REGIONAL PORTS (PORT OF NOME MODIFICATION), AK			2,700,000	2,700,000	5		Initiate and complete preconstruction, engineering and design phase
AK	POD	NHS	CRAIG HARBOR, AK			200,000	200,000	5		Complete preconstruction, engineering and design phase
AK	POD	3/	ELIM SUBSISTENCE HARBOR, AK	110,000			110,000		Complete feasibility study and initiate preconstruction, engineering and design phase	
AL	SAD	AER	CLAIBORNE AND MILLERS FERRY LOCKS AND DAMS (FISH PASSAGE), LOWER ALABAMA RIVER, AL			500,000	500,000	8		New Start - Initiate the feasibility study phase
AR	SWD	NIH	ARKANSAS RIVER NAVIGATION STUDY, AR & OK			559,000	559,000	4		Complete an economic update, including an update of costs and benefits, and initiate and complete preconstruction, engineering and design phase
AR	SWD	NIH	THREE RIVERS, AR	3,292,000	3,292,000		3,292,000		Complete preconstruction, engineering and design phase	
AZ	SPD	3/	NAVAJO NATION AT BIRD SPRINGS, AZ	50,000			50,000		Continue watershed assessment	
CA	SPD	3/	CLEAR CREEK ECOSYSTEM RESTORATION, CA	100,000			100,000		Complete feasibility study and initiate preconstruction, engineering and design phase	
CA	SPD	2/	LOS ANGELES COUNTY DRAINAGE AREA (CHANNELS), CA	715,000			715,000		Complete disposition study	
CA	SPD	FDRR	LOWER MISSION CREEK, CA			500,000	500,000	1		Initiate a General Reevaluation Report
CA	SPD	FDRR	MURRIETA CREEK, CA			500,000	500,000	1		Initiate a General Reevaluation Report
CA	SPD	FDRR	PAJARO RIVER AT WATSONVILLE, CA			2,815,000	2,815,000	2		Complete preconstruction, engineering and design phase
CA	SPD	2/	SALINAS RESERVOIR (SANTA MARGARITA LAKE), CA	79,000			79,000		Complete disposition study	
CA	SPD	FDRR	SAN DIEGO COUNTY SHORELINE (ENCINITAS-SOLANA BEACH), CA			1,500,000	1,500,000	3		Continue preconstruction, engineering and design phase
CA	SPD	FDRR	SOUTH SAN FRANCISCO BAY SHORELINE, CA (PHASE II)	400,000	400,000		400,000		Continue the feasibility study phase	
CA	SPD	2/	SUISUN BAY CHANNEL (SLOUGH), CA	150,000			150,000		Initiate and complete disposition study	
CA	SPD	FDRR	WEST SACRAMENTO, CA	2,028,000	2,028,000		2,028,000		Complete preconstruction, engineering and design phase	
GA	SAD	2/	SAVANNAH RIVER BELOW AUGUSTA, GA	150,000			150,000		Complete disposition study	
GA	SAD	AER	SAVANNAH RIVER BELOW AUGUSTA, GA			940,000	940,000	8		Complete the feasibility study phase
FL	SAD	FDRR	NORTH PONTE VEDRA, ST. JOHNS COUNTY, FL			500,000	500,000	3		New Start - Initiate the feasibility study phase
ID	NWD	3/	SWEETWATER CREEK ECOSYSTEM RESTORATION, ID	100,000			100,000		Continue feasibility study	
IL	MVD	AER	BRANDON ROAD LOCK AND DAM, AQUATIC NUISANCE SPECIES BARRIER, IL (GREAT LAKES AND MISSISSIPPI RIVER INTERBASIN STUDY)			3,800,000	3,800,000	8		Continue preconstruction, engineering and design phase
IL	LRD	AER	INTERBASIN CONTROL OF GREAT LAKES-MISSISSIPPI RIVER AQUATIC NUISANCE SPECIES, IL, IN, OH & WI	50,000	50,000	285,000	335,000	7	Vertical team coordination, stakeholder coordination and engagement, budget development and defense, public outreach, Asian Carp Regional Coordinating Committee and Chicago Area Waterway System Advisory Committee related activities, and response to Congressional and media inquiries.	Vertical team coordination, stakeholder coordination and engagement, budget development and defense, public outreach, Asian Carp Regional Coordinating Committee and Chicago Area Waterway System Advisory Committee related activities, and response to Congressional and media inquiries.
IL	MVD	2/	PEORIA SMALL BOAT HARBOR, IL	110,000			110,000		Initiate and complete disposition study	
IL	MVD	NIH	UPPER MISSISSIPPI RIVER - ILLINOIS WATERWAY SYSTEM, IL, IA, MN, MO & WI			2,625,000	5,000,000	4		Continue preconstruction, engineering and design phase
IL	MVD	AER	UPPER MISSISSIPPI RIVER - ILLINOIS WATERWAY SYSTEM, IL, IA, MN, MO & WI			2,375,000		8		
KS	NWD	NIL	LOWER MISSOURI RIVER BASIN, KS, MO & IA			500,000	500,000	4		New Start - Initiate the feasibility study phase
KS	NWD	3/	SOLDIER CREEK WATERSHED, KS	45,000			45,000		Continue feasibility study	
LA	MVD	NHD	BAPTISTE COLLETTE, LA (SECTION 203)			900,000	900,000	5		Initiate and complete preconstruction, engineering and design phase
LA	MVD	2/	BAYOU COCODRIE AND TRIBUTARIES, LA	500,000			500,000		Initiate and complete disposition study	
MA	NAD	FDRR	BOSTON METROPOLITAN AREA, MA			500,000	500,000	7		New Start - Initiate the feasibility study phase
MD	NAD	AER	EASTERN SHORE, MID-CHESAPEAKE BAY ISLAND, MD			382,000	382,000	7		Complete preconstruction, engineering and design phase
ME	NAD	3/	HALF MOON COVE ECOSYSTEM RESTORATION, ME				100,000		Continue feasibility study	
MI	LRD	3/	BAY MILLS SHORELINE EROSION, MI	45,000			45,000		Continue feasibility study	
MI	LRD	NHD	ST. MARYS RIVER DEEPENING, MI			500,000	500,000	5		New Start - Initiate the feasibility study phase
MN	MVD	3/	LOWER SIOUX COMMUNITY RIVER BANK STABILIZATION, MN				100,000		Continue feasibility study	
MN	MVD	2/	LOWER ST. ANTHONY FALLS, MISSISSIPPI RIVER, MN	186,000			186,000		Initiate disposition study	

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MN	MVD	3/	PRAIRIE ISLAND STURGEON LAKE HABITAT RESTORATION, MN				100,000		Continue feasibility study	
MN	MVD	3/	UPPER SIOUX COMMUNITY RIVER BANK STABILIZATION, MN				100,000		Continue feasibility study	
MO	NWD	FDRR	LITTLE BLUE RIVER BASIN, JACKSON COUNTY, MO			500,000	500,000	2		New Start - Initiate the feasibility study phase
NC	SAD	FDRR	BRUNSWICK COUNTY BEACHES (HOLDEN BEACH), NC			500,000	500,000	3		Initiate a General Reevaluation Report for Holden Beach
NC	SAD	2/	CAPE FEAR LOCKS AND DAMS 1-3, NC	110,000			110,000		Complete disposition study	
NJ	NAD	FDRR	NEW JERSEY BACK BAYS, NJ			3,462,000	3,500,000	1		Continue the feasibility study phase
NJ	NAD	FDRR	NEW JERSEY BACK BAYS, NJ			38,000		3		
NM	SPD	AER	ESPANOLA VALLEY, RIO GRANDE AND TRIBUTARIES, NM			2,340,000	2,340,000	8		Initiate and complete preconstruction, engineering and design phase
NM	SPD	3/	PUEBLO OF ZIA, NM	50,000			50,000		Continue the watershed assessment	
NM	SPD	AER	RIO GRANDE, SANDIA PUEBLO TO ISLETA PUEBLO, NM			1,800,000	1,800,000	8		Initiate and complete preconstruction, engineering and design phase
OK	SWD	FDRR	TULSA AND WEST-TULSA LEVEE, OK			1,198,000	1,383,000	1		Complete preconstruction, engineering and design phase
OK	SWD	FDRR	TULSA AND WEST-TULSA LEVEE, OK			185,000		2		
SD	NWD	3/	LOWER BRULE SEWAGE LAGOON, SD				3,036,000		Complete preconstruction, engineering and design phase	
TN	MVD	AER	HATCHIE/LOOSAHATCHIE, MISSISSIPPI RIVER MILE 775-736 HABITAT RESTORATION, TN & AR			500,000	500,000	8		New Start - Initiate the feasibility study phase
TX	SPD	FDRR	CITY OF EL PASO, TX			500,000	500,000	2		New Start - Initiate the feasibility study phase
TX	SWD	NIH	GIWW - BRAZOS RIVER FLOODGATES & COLORADO RIVER LOCKS, TX			3,607,000	16,440,000	4		Perform an economic update (\$250,000) and initiate preconstruction, engineering and design phase for the Brazos River Floodgates (\$16.19 million)
TX	SWD	NIH	GIWW - BRAZOS RIVER FLOODGATES & COLORADO RIVER LOCKS, TX			8,000,000		6		
TX	SWD	NIH	GIWW - BRAZOS RIVER FLOODGATES & COLORADO RIVER LOCKS, TX			4,833,000		7		
TX	SWD	NIH	GIWW, HIGH ISLAND TO BRAZOS RIVER, TX			600,000	600,000	4		Complete a validation report, National Environmental Protection Act coordination, real estate, economics, reviews, and preconstruction, engineering and design phase
TX	SWD	NHD	MATAGORDA SHIP CHANNEL (WIDENING AND DEEPENING), TX			109,000	1,809,000	4		Complete preconstruction, engineering and design phase
TX	SWD	NHD	MATAGORDA SHIP CHANNEL (WIDENING AND DEEPENING), TX			1,700,000		5		
TX	SWD	AER	RESACAS AT BROWNSVILLE, TX			1,019,000	1,019,000	8		Complete preconstruction, engineering and design phase
VA	NAD	FDRR	CITY OF NORFOLK, VA			2,462,000	2,462,000	3		Complete preconstruction, engineering and design phase
VI	SAD	FDRR	SAVAN GUT PHASE II, ST. THOMAS, VI			2,000,000	2,000,000	1		Initiate preconstruction, engineering and design phase
WA	NWD	AER	PUGET SOUND NEARSHORE MARINE HABITAT RESTORATION, WA (DUCKABUSH RIVER ESTUARY)	2,563,000	2,563,000		2,563,000		Complete preconstruction, engineering and design phase	
WI	MVD	3/	BIG SAND LAKE SHORELINE EROSION, WI				100,000		Continue feasibility study	
XX	ERDC	RI	ACCESS TO WATER DATA	360,000	360,000		360,000		Provide access to water resources data to the public.	
XX	ERDC	RI	AUTOMATED INFORMATION SYSTEMS SUPPPORT TRI-SERVICE CADD/GIS TECHNOLOGY CENTER	250,000	250,000		250,000		Develop and publish geospatial standards.	
XX	ERDC	RI	COASTAL FIELD DATA COLLECTION	1,000,000	2,000,000		2,000,000		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 (\$1 million); continue data collection and research on the impact of extreme storms in coastal regions (\$1 million).	
XX	HQ	RI	COORDINATION WITH OTHER WATER RESOURCE AGENCIES	350,000	600,000		600,000		Participation in multi-agency and/or national water resources initiatives such as the Gulf of Mexico, Chesapeake Bay, and the CALFED Bay-Delta Program.	
XX	HQ	RI	DISPOSITION OF COMPLETED PROJECTS	2,000,000	2,000,000		[2,000,000]		Undertake disposition studies needed to identify necessary actions to safely dispose of infrastructure. Funded studies are listed individually under the State and Project the study is being conducted.	
XX	IWR	RI	ENVIRONMENTAL DATA STUDIES	80,000	80,000		80,000		Maintain a web-based geospatial data system that displays national ecological data.	
XX	MVD	RI	FERC LICENSING	100,000	100,000		100,000		Conduct reviews of Federal Energy Regulatory Commission (FERC) preliminary permit & license applications for development of hydroelectric power.	
XX	IWR	RI	FLOOD DAMAGE DATA	280,000	280,000		280,000		Collect and maintain basic flood damage data to support research efforts and to inform specific project	

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XX	HQ	RI	FLOOD PLAIN MANAGEMENT SERVICES	15,000,000	15,000,000		15,000,000		Provide site-specific flood and flood plain data and assistance to State and local communities.	
XX	MVD	RI	HYDROLOGIC STUDIES	750,000	750,000		750,000		Collect and study basic hydrologic data for major storm events or special hydrologic processes; Develop flood inundation data for improved real time flood forecasting.	
XX	HQ	RI	INTERAGENCY AND INTERNATIONAL SUPPORT		100,000		100,000		Support other Federal agencies, international organizations and foreign governments to address problems of national significance.	
XX	HQ	RI	INTERAGENCY WATER RESOURCE DEVELOPMENT	100,000	100,000		100,000		Coordinate with potential non-Federal sponsors.	
XX	IWR	RI	INTERNATIONAL WATER STUDIES	125,000	125,000		125,000		Participation in and support of boundary water treaties and related international agreements between the United States and Canada.	
XX	IWR	RI	INVENTORY OF DAMS	400,000	400,000		400,000		Maintain and administer the National Inventory of Dams database and web site.	
XX	IWR	RI	NATIONAL FLOOD RISK MANAGEMENT PROGRAM	5,000,000	5,000,000	290,000	5,290,000	1	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.	Additional funding to continue development of a tool to evaluate and rank flood risk management projects on the basis of risk to life.
XX	IWR	RI	NATIONAL SHORELINE MANAGEMENT STUDY		1,820,000		1,820,000		Support the Coastal Systems Portfolio Initiative.	
XX	HQ	RI	PLANNING ASSISTANCE TO STATES	5,000,000	10,000,000	3,726,000	13,726,000	8	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.	Additional planning and technical assistance to States and local communities.
XX	HQ	RI	PLANNING SUPPORT PROGRAM	3,500,000	3,500,000		3,500,000		Support Planning Associates Program, Planning Centers of Expertise, and Planning Modernization efforts.	
XX	IWR	RI	PRECIPITATION STUDIES	200,000	200,000		200,000		Conduct hydro-meteorological studies coordination/support with the National Weather Service.	
XX	ERDC	RI	REMOTE SENSING / GEOGRAPHIC INFORMATION SYSTEM SUPPORT	75,000	575,000		575,000		Provide technical support within the Corps for remote sensing and GIS.	
XX	ERDC	RI	RESEARCH AND DEVELOPMENT	15,000,000	30,791,000		30,791,000		Research and development of 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; Flood and Coastal Systems (including Flood and Coastal Storm Damage Reduction, Emergency Management, Water Supply, and Recreation); and Environmental (including Aquatic Ecosystem Restoration, Environmental Stewardship, and Regulatory). In addition, research the use of biopolymers to rehabilitate, reduce the cost of rehabilitating and maintaining, and increase the resiliency of earthen infrastructure (\$4 million). Research into predictive models and field-based research into geochemical, geophysical, and sedimentological analysis and modeling of diverse field sites on contemporary and historic time frames (\$2 million). Partner with research universities to conduct oyster reef restoration research (\$2.22 million). Post-Wildfire and Debris Flow Urban Flood Damage Reduction in Arid Regions (\$3 million).	
XX	ERDC	RI	SCIENTIFIC AND TECHNICAL INFORMATION CENTERS	50,000	50,000		50,000		Gather and disseminate information generated by the Army Corps of Engineers Civil Works as required by P.L. 99-802, Federal Technology Transfer Act of 1986.	
XX	HQ	RI	SPECIAL INVESTIGATIONS	1,000,000	1,000,000		1,000,000		Respond to general inquiries from members of the public on the work of the Civil Works program outside the scope of a specific Corps study, project, or program.	
XX	IWR	RI	STREAM GAGING	550,000	550,000	2,050,000	2,600,000	1	Pay USGS to gather data and operate and maintain approximately 80 existing stream gaging stations, including repair and replacement, at locations not directly associated with a project that the Corps owns or with a particular Corps study, in order to assist the Corps by improving its general understanding of flood risk in those watersheds.	Pay USGS to gather data and operate and maintain the approximately 25 new such stream gaging stations purchased with FY2020 funds (\$300,000); pay USGS to install approximately 50 additional such stream gaging stations nationwide at locations not directly associated with a project that the Corps owns or with a particular Corps study, in order to assist the Corps by improving its general understanding of flood risk in those watersheds (\$1.75 million).
XX	IWR	RI	TRANSPORTATION SYSTEMS	1,000,000	1,000,000		1,000,000		Fund information and technical services and support for navigation projects.	

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XX	HQ	RI	TRIBAL PARTNERSHIP PROGRAM	500,000	4,036,000		[4,036,000]		Funds will be used to initiate, continue, and complete studies with Tribes and for program management. Funded studies are listed individually under the State and Project the study is being conducted.	
			GRAND TOTAL		89,000,000	64,000,000	153,000,000			

1/ KEY:	FUNDING POT NAME
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	OTHER AUTHORIZED PROJECT PURPOSES
8	OTHER AUTHORIZED PROJECT PURPOSES (ENVIRONMENTAL RESTORATION OR COMPLIANCE)
AER	AQUATIC ECOSYSTEM RESTORATION
FDRC	FLOOD DAMAGE REDUCTION COASTAL
FDRR	FLOOD DAMAGE REDUCTION RIVERINE
NHD	COASTAL NAVIGATION DEEP DRAFT
NHS	COASTAL NAVIGATION SHALLOW DRAFT
NIH	INLAND WATERWAYS HIGH USE
NIL	INLAND WATERWAYS LOW USE
RI	REMAINING ITEM

2/ The studies funded in Disposition of Completed Projects are listed individually under the State and Project where the study is being conducted.
3/ The studies funded in the Tribal Partnership Program are listed individually under the State and Project where the study is being conducted.