

COASTAL HOMEOWNER BUYOUT FORUM

THE FEDERAL ROLE:

U. S. ARMY CORPS OF ENGINEERS

Sheila Warren
Silver Jackets Coordinator
Planning/New England District
Date: 21APR2021



US Army Corps
of Engineers®



USACE PROVIDES ENGINEERING SOLUTIONS TO A PROBLEM



- Utilizes Plan Formulation process to solve the problem.
- Will provide engineering solutions (options) both structural and non structural - not just one answer.
- This is examined through the Feasibility Process.



USACE MISSION AREAS



Commercial Navigation

- Larger ports (30' +) such as Boston, New Haven, Portsmouth, Portland and Providence responding to changes in ship sizes
- Modifications to smaller ports (shallow and deep drafts) in response to increased number of users

Flood Damage Reduction

- Watershed scale solutions
- Large, complex multi-purpose urban flooding problems
- Site specific problem areas
- Coastal and storm damage related problems

Environmental Restoration

- Coastal salt marsh, riverine and wetlands restoration
- Dam removal or other means of fish passage
- Watershed studies relating to flows and WQ impacts to aquatic impairments





USACE MISSION AREAS



Recreation

- Provider of outdoor recreation nationwide
- More than 400 lake and river projects in 43 states
- Responsible for 12 million acres of public lands and waters nationwide

Hydroelectric Power

- Largest generator of hydropower in the USA
- 75 power-producing dams housing 356 generating units
- USACE's hydropower assets generate more than 70 billion kilowatt hours per year of clean renewable energy

Water Supply

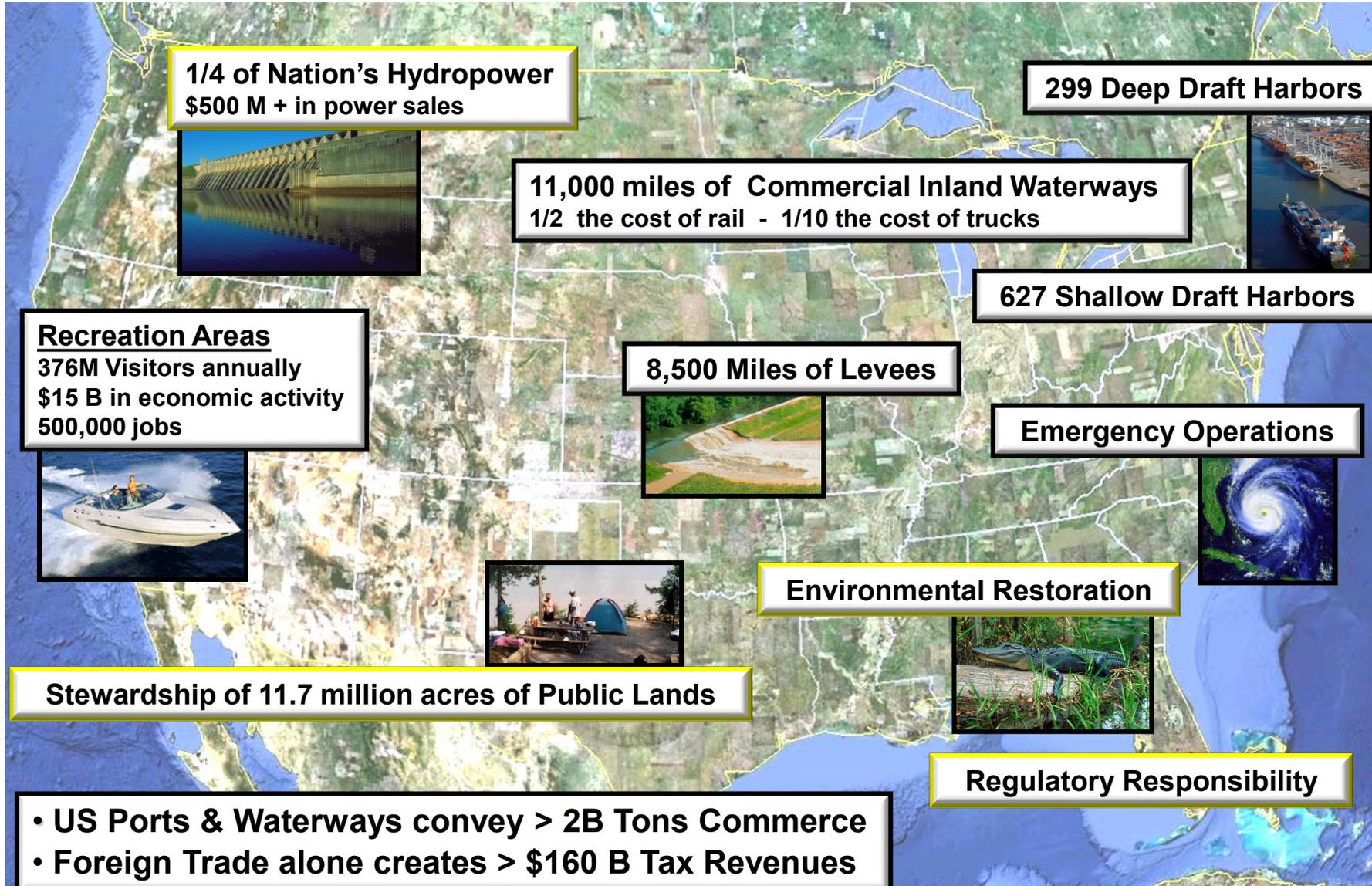
- USACE may participate and cooperate with states and local communities in developing water supplies when certain conditions are met

Emergency Management

- USACE is prepared to respond to natural and man-made disasters as part of the Federal Government's unified national response to disasters and emergencies

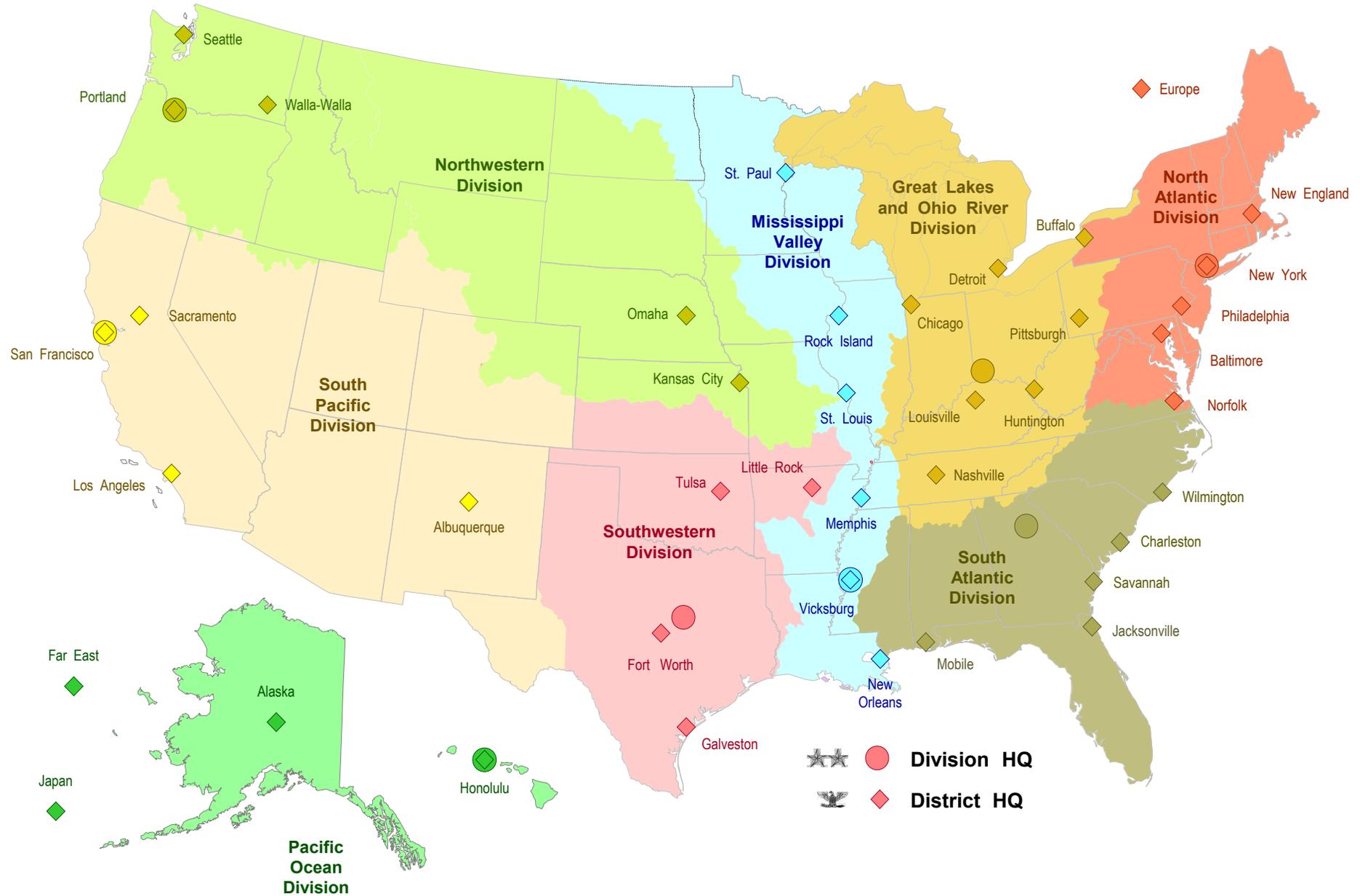


VALUE TO THE NATION



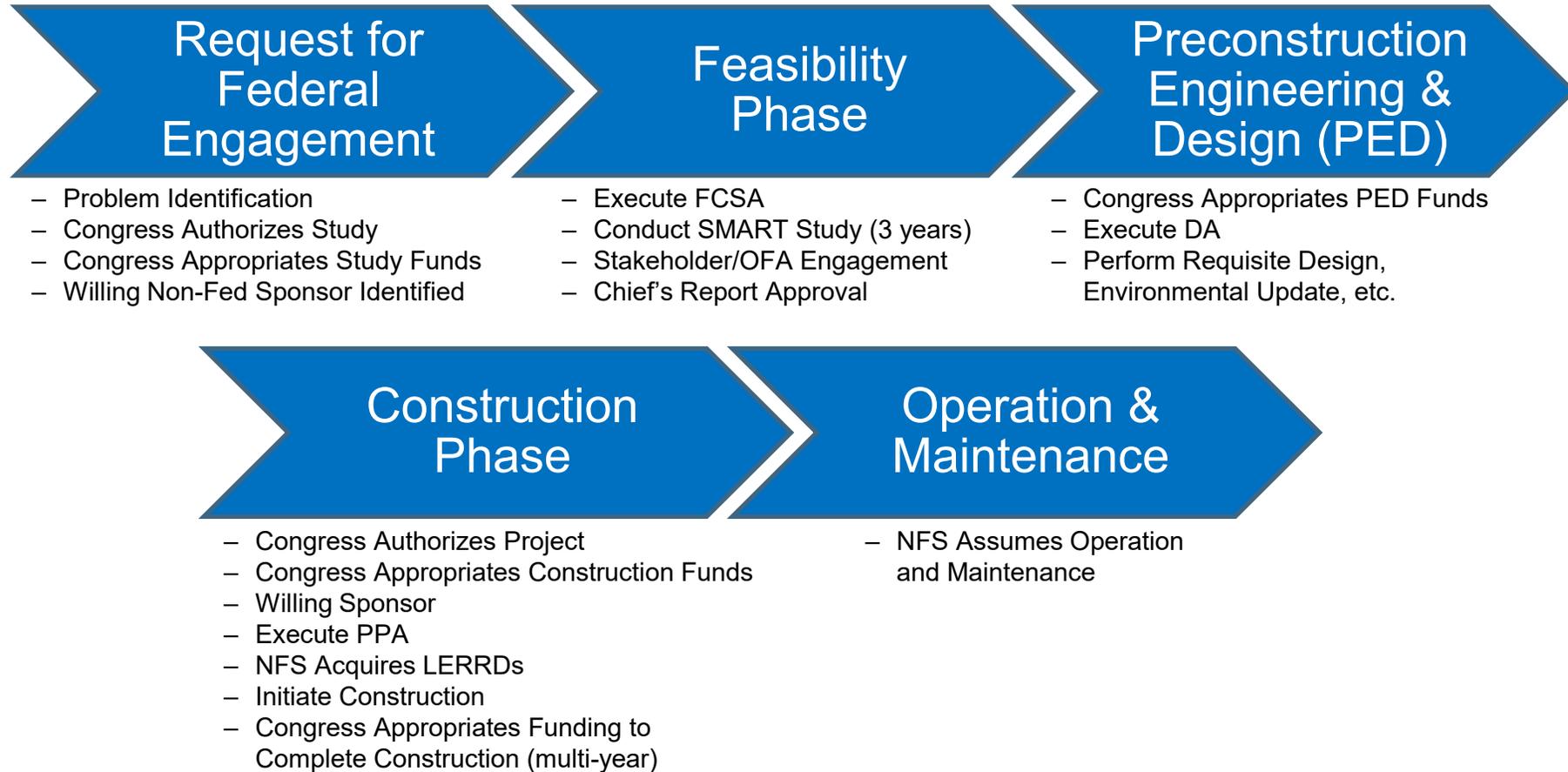


DIVISIONS AND DISTRICTS





CIVIL WORKS PROJECT DELIVERY PROCESS

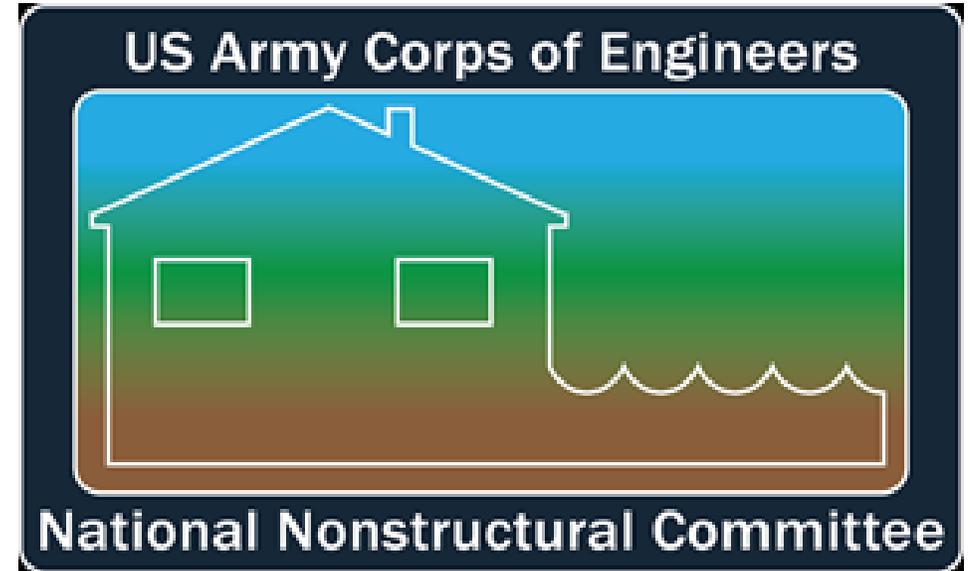




NONSTRUCTURAL MEASURES



- Identify non-structural definition
- Elevation
- Relocation
- Buyout/Acquisition
- Dry Flood Proofing
- Wet Flood Proofing



- <https://www.usace.army.mil/Missions/Civil-Works/Project-Planning/nnc/>



BENEFIT COST RATIO (BCR)

- The ratio of the benefits of a project relative to its costs (expressed in monetary terms). The higher the BCR, the better the investment
- BCR needs to be greater than 1





MAXIMIZE NET BENEFITS

- Need to evaluate different options and determine the maximized net benefits.
- Many times, other methods will provide a bigger bang for the buck.



FULL PARTICIPATION

- All the structures identified in the buyout need to participate in order to meet the USACE policies *or* the Non-Federal Partner needs to have Eminent Domain capability.



WHERE DOES THAT LEAVE US?

- USACE will deliver engineering solutions to a problem
- Buyouts are one option among many
- Feasibility Study flushes out the options





CAP PROCESS – 2 PHASES



Feasibility Phase (~2 years)

- Initial problem identification
 - Conduct site visit
 - Identify SPONSOR
- Initial 100% Federal funding: Determine “Federal Interest”
- Cost-share agreement for study
 - Shared 50/50 percent
- Conduct feasibility study and recommend plan

Design and Implementation Phase (D&I)

(~1-2 years)

- Cost-share agreement for D&I – most 65% Federal / 35% non-Federal (Can have different sponsor for each phase)
- Prepare plans and specifications
- Construction
- Turn over to sponsor for Operations and Maintenance





CONTINUING AUTHORITIES PROGRAM

* Info current as of 2017 – please verify cost shares, etc. still current be using.

Authority	Purpose	Design & Construction Cost Share (Fed - Non-fed) <small>Non-fed may include work-in-kind</small>	Fed. Project Limit
Section 14 , 1946 Flood Control Act, as amended	Emergency streambank and shoreline protection	65% / 35%	\$5.0 M
Section 103 , Rivers and Harbors Act of 1962, as amended	Beach erosion and hurricane and storm damage reduction	65% / 35%	\$10.0 M
Section 107 , Rivers and Harbors Act of 1960, as amended	Navigation improvements	Varies, based on harbor design depth	\$10.0 M
Section 111 , Rivers and Harbors Act, as amended	Shore damage mitigation caused by Federal navigation projects	Shared in same proportion as project causing damage	\$10.0 M
Section 204 , Water Resources Development Act (WRDA) of 1992, as amended	Environmental restoration projects in connection with dredging	65% / 35% Above base plan cost	\$10.0 M
Section 205 , 1948 Flood Control Act, as amended	Flood damage reduction	65% / 35%	\$10.0 M
Section 206 , WRDA 1996, as amended	Aquatic ecosystem restoration	65% / 35%	\$10.0 M
Section 208 , 1954 Flood Control Act	Snagging and clearing to reduce flood risk	65% / 35%	\$0.5 M
Section 1135 , WRDA 1986	Project modifications to improve the environment	75% / 25%	\$10.0 M



OTHER USACE ASSISTANCE PROGRAMS*

* Info current as of 2017 – please verify cost shares, etc. still current be using.

Authority (as amended)	Purpose	Cost Share (Fed / non-Fed)	Comments
Section 22, WRDA 1974, as amended	Planning Assistance to States (PAS) Develop plans and conduct studies related to development, use and conservation of water and related land resources.	50% / 50% May include work-in-kind.	Technical or planning assistance only; cannot conduct feasibility-level planning, site specific design or studies leading to construction.
Section 206, Flood Control Act of 1960, as amended	Flood Plain Management Services (FPMS) Provide technical & planning services to encourage prudent floodplain development	100% / 0%	
Section 729, WRDA 1986, as amended	Watershed Planning Assess water resource needs for management, restoration and development in river basin	Federal 75% / 25%	
Section 203, WRDA 2000, as amended	Tribal Partnership Program (TPP) Assist with water resources projects that address economic, cultural and environmental needs.	50% / 50%	Construction must be Congressionally authorized and appropriated
Interagency & International Services	Support for Others Provide technical assistance to others (except DoD agencies and private citizens)	0% / 100%	Thomas Act Restrictions



FLOOD EMERGENCY ASSISTANCE



Disaster Preparedness

- Federal preparation, local coordination and training

Flood Emergency Response

- Emergency flood fight assistance to local governments

Rehabilitation Assistance

- Repair locally sponsored flood control projects

Flood Risk Management Project Inspection

- Inspection / eligibility determination of non-Federal flood control projects

Water Assistance

- Provide water due to contaminated source or drought

Advanced Measures

- Emergency preventative work prior to predicted flood event





QUESTIONS?

FOR MORE INFORMATION

USACE Silver Jackets Web Site

<http://silverjackets.nfrmp.us/>

USACE NAE SILVER JACKETS COORDINATOR

Sheila Warren, Sheila.M.Warren@usace.army.mil

