

INTRODUCTION TO THE ST. PAUL DISTRICT

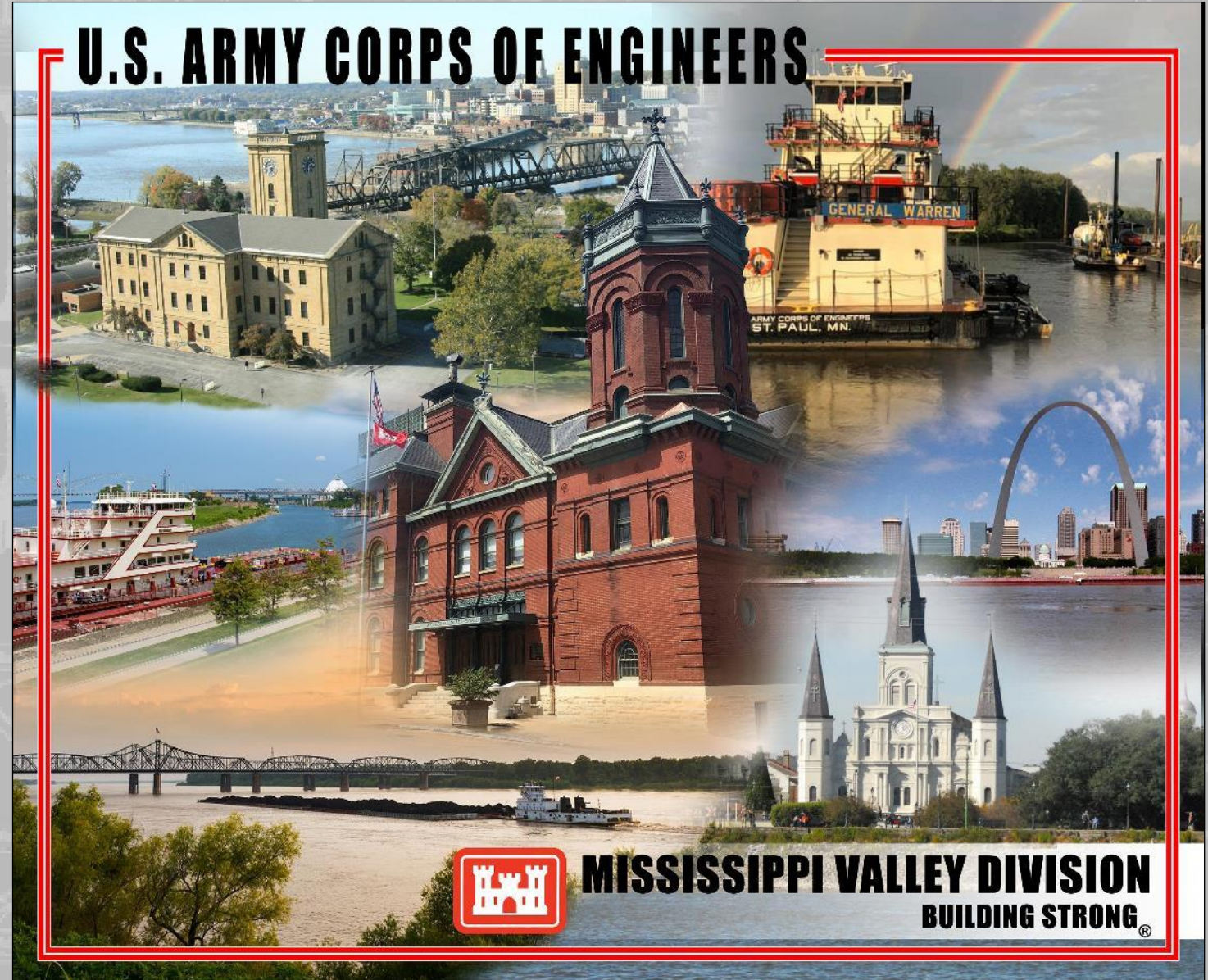
NAME
POSITION
St. Paul District
U.S. Army Corps of Engineers



US Army Corps of Engineers®



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USACE: WHERE WE ARE



Headquarters

Washington D.C.

9 Divisions

43 Districts

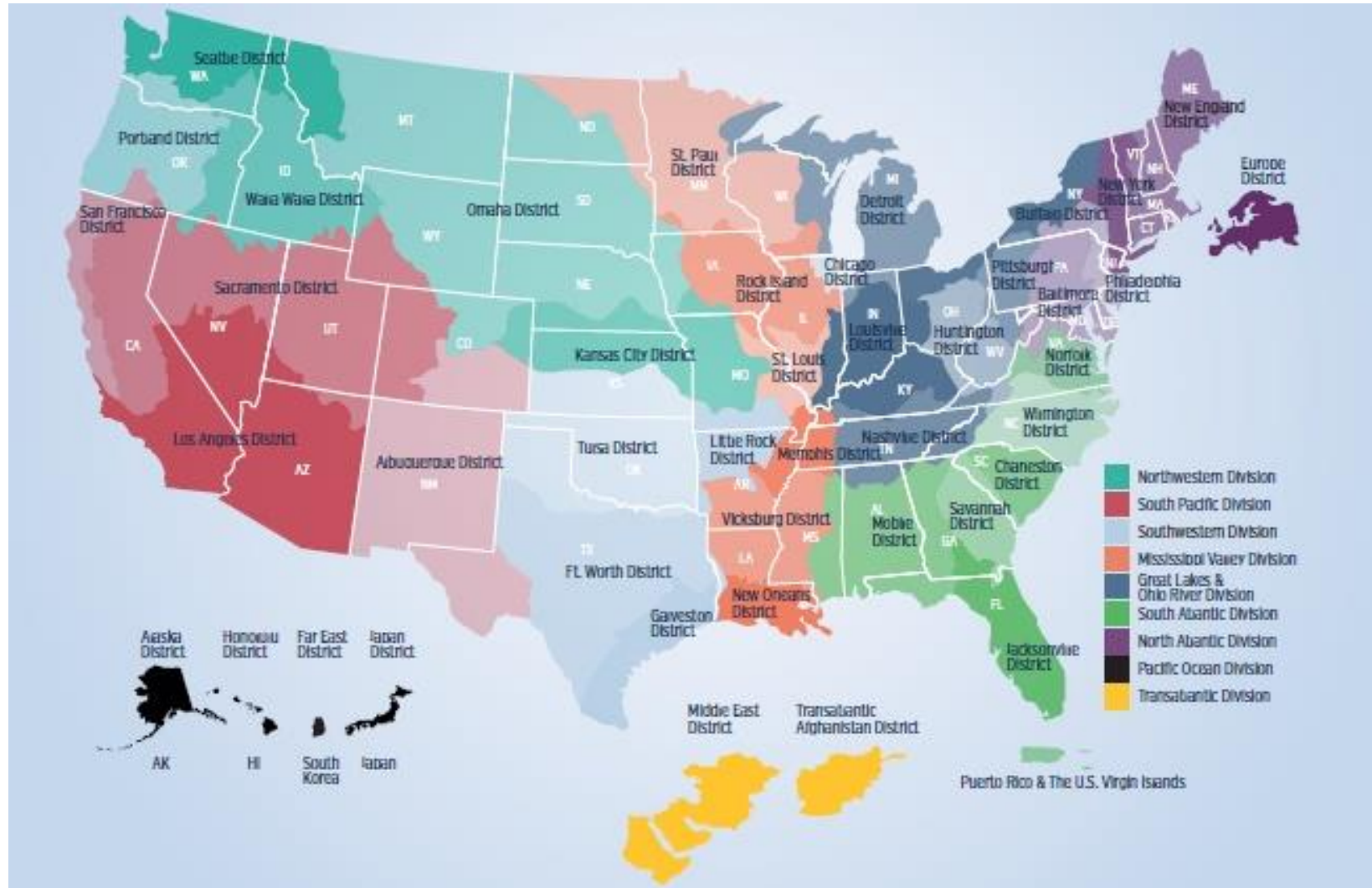
9 Centers and labs

1 Active duty unit

249th Prime Power Battalion

2 U.S. Army Reserve Theater Engineers Commands

412th and 416th



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USACE: *BUILDING STRONG*



Lock and Dam 9, located near Lynxville, Wisconsin, was constructed and placed in operation in July 1937.

USACE MISSION | Deliver vital engineering solutions, in collaboration with our partners, to secure our nation, energize our economy, and reduce risk from disaster.

USACE VISION | Engineering solutions for the Nation's toughest challenges.



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ST. PAUL DISTRICT



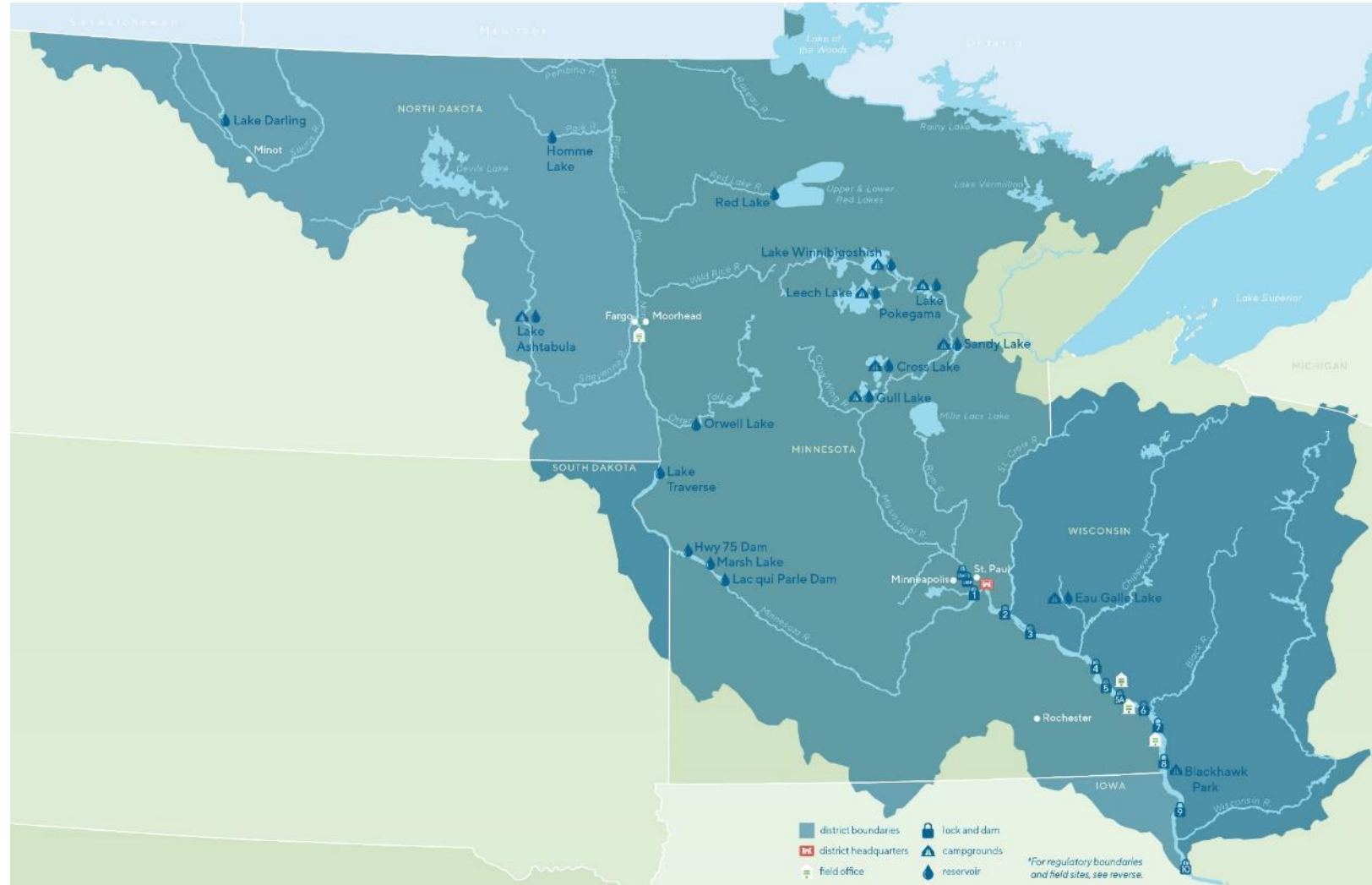
5 States

4 Major river basins

- ▶ Mississippi
- ▶ Red River of the North
- ▶ Souris
- ▶ Rainy

16 Flood risk reduction reservoirs

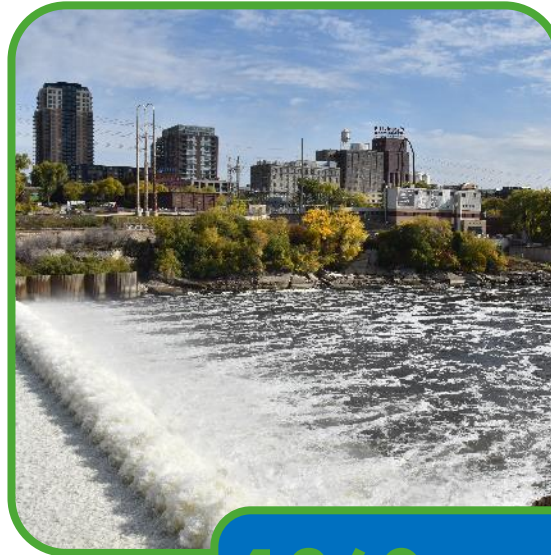
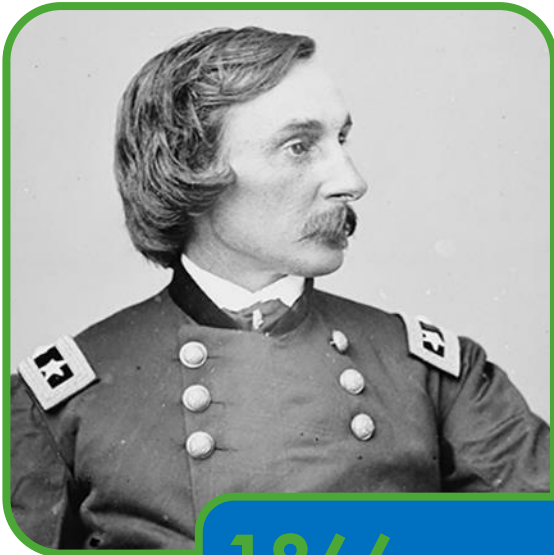
41 Locations



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OUR HISTORICAL HIGHLIGHTS



1866

- ▶ Maj. Gouverneur K. Warren, 1st St. Paul District engineer

1869

- ▶ Saved St. Anthony Falls, a national treasure

1884

- ▶ Completed nation's first major reservoir system



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OUR HISTORICAL HIGHLIGHTS



1910

- ▶ Completed nation's first federal hydroelectric dam

1970s

- ▶ Completed nation's first nonstructural flood control project

2016

- ▶ St. Paul District's 150th anniversary



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MISSIONS



- ▶ Navigation
- ▶ Flood risk management
- ▶ Environmental programs
- ▶ Regulatory
- ▶ Recreation
- ▶ Emergency operations



Eau Galle Dam and Recreation Area located near Spring Valley, Wisconsin



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NAVIGATION



Providing safe, reliable, cost-effective & environmentally sustainable waterborne transportation on the Upper Mississippi River

Maintaining a 9-ft. navigation channel and 13 locks and dams allows: **on average**

16M tons of commodities to travel past Lock and Dam 10 in Guttenberg, Iowa, per year

saving **\$430M** to shipping industries using inland waterways instead of overland shipping

90% less greenhouse gas emissions by using barges instead of semis

the Mississippi River

25% of all waterborne commerce in the U.S. depends on the Mississippi River

4th largest watershed in the world

92% of the nation's agriculture exports travel on the Mississippi

dredged material

1M cubic yards of sand dredged each year to maintain 9-ft. channel enough to fill the Capitol rotunda **20 times**



used for

- ▶ highways
- ▶ beaches
- ▶ habitat projects

1 5-BARGE TOW = **216** RAIL CARS = **1,050** LARGE SEMIS

The Dredge Goetz



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NAVIGATION: LOCKS, DAMS AND THE 9-FOOT CHANNEL



- ▶ 13 of the uppermost structures (out of 29)



- ▶ Leaders in dredged river sand beneficial use
- ▶ 1 million cubic yards dredged annually
- ▶ 284 channel miles



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FLOOD RISK MANAGEMENT

- ▶ Fargo-Moorhead Metro Diversion project
- ▶ Souris River Basin (Minot, North Dakota)
- ▶ Arcadia, Wisconsin



FLOOD RISK MANAGEMENT

Reducing flood risk to communities in the Upper Midwest



every **dollar** invested in the Corps' flood risk management program

saves Americans **\$8**

95 LEVEE SYSTEMS

~165 MILES participate in our **FEDERAL LEVEE** inspection program



Examples of Projects **REDUCING RISK**

- ▶ Grand Forks/East Grand Forks
- ▶ Mankato
- ▶ Rochester
- ▶ St. Paul



On average, in the last 10 years, the St. Paul District flood risk management and emergency response activities

SAVE \$600M per year



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ENVIRONMENTAL PROGRAMS



Marsh Lake shore birds



Marsh Lake water control structure

ENVIRONMENTAL SUSTAINABILITY

Restoring and protecting habitat for fish and wildlife



Stewardship of Public Land



manage more than **77K** acres of public land

responsible for grassland, fisheries, forest and wetland management

Environmental Infrastructure Program

assisted more than **50** communities

with **75** water infrastructure projects

Upper Mississippi River Restoration Program

completed **28** restoration projects

improving **45K** acres of river or floodplain habitat



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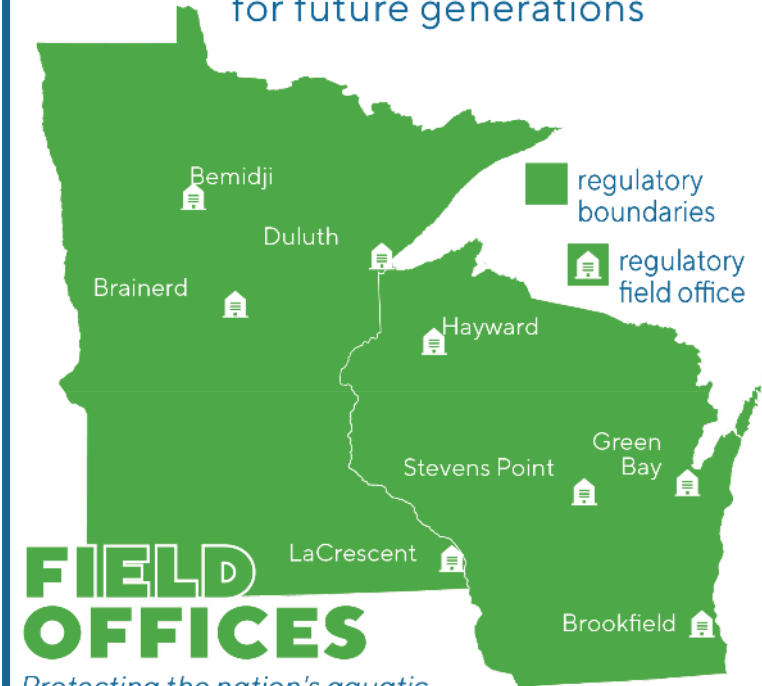


REGULATORY PROGRAM

- ▶ One of the largest programs in the nation
- ▶ All of Minnesota and Wisconsin
- ▶ 8 field offices



Helping to sustain aquatic resources for future generations



Protecting the nation's aquatic resources and navigation while enabling reasonable development through fair and balanced permit decisions.

evaluates **10K** REQUESTS PER YEAR

helped more than **50K** acres of wetlands to be RESTORED & ENHANCED



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RECREATION PROGRAM




The St. Paul District operates **49 recreation areas**




- ▶ Public landings along the Mississippi River
- ▶ Lock and dam visitor centers
- ▶ Full-service campgrounds







Supplying healthy, accessible outdoor recreational activities

 **2.3M** visitors per year to our recreation sites

spend **\$79M** in LOCAL & REGIONAL ECONOMIES

650 CAMPSITES 	27 BOAT LAUNCH RAMPS 	10 BEACHES 	49 RECREATION AREAS 
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EMERGENCY OPERATIONS



Recent Responses

- ▶ Hurricanes Katrina and Rita in 2005
- ▶ I-35W bridge collapse in 2007
- ▶ Hurricanes Gustav and Ike, 2008
- ▶ Red River floods of 2009, 2010 and 2011
- ▶ Souris River Flood 2011 and Minot, North Dakota flood recovery 2011 and 2012
- ▶ Mississippi floods of 2011 and 2019
- ▶ Hurricanes Harvey, Irma and Maria, 2018
- ▶ COVID-19 Alternative Care Facilities, 2020

DISASTER RESPONSE


TEMPORARY HOUSING TEAM
 completed 
11 MISSIONS SINCE 2000

supported
320 disaster response or recovery response
DEPLOYMENTS SINCE 2018



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SUPPORT TO OTHERS



Repairs at the Minnesota Veterans Affairs hospital

SUPPORT TO OTHERS

Providing world-class engineering solutions

our engineering customers include



- ▶ Veterans Administration
- ▶ US Customs and Border Patrol
- ▶ Native American Tribes
- ▶ International Joint Commission
- ▶ Department of Energy
- ▶ US Army
- ▶ US Air Force
- ▶ NASA



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INTERNATIONAL JOINT COMMISSION



Four Boards

- ▶ Rainy-Lake of the Woods
- ▶ Red River
- ▶ Souris River
- ▶ Souris River Study Board

Requirements

- ▶ Semi-Annual Board Meetings
- ▶ Semi-Annual Appearances
- ▶ Committee Involvement
- ▶ Advance Work Plan Items



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TRIBAL PARTNERSHIP PROGRAM



Under Tribal Partnership Program, the Corps can perform water-related planning activities and activities related to the study, design and construction of water resources development projects located primarily on tribal lands, that substantially benefit federally-recognized Tribes.

Current Projects:

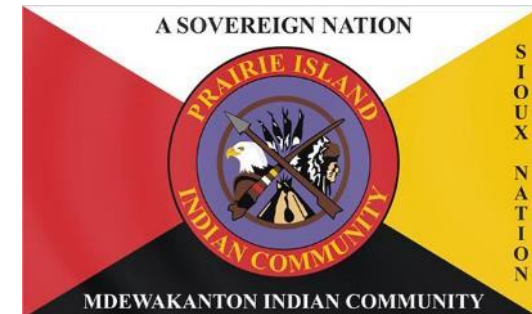
- ▶ Prairie Island Indian Community – Sturgeon Lake Island Restoration
- ▶ St. Croix Chippewa Indians – Big Sand Lake Shoreline Protection
- ▶ Upper Sioux Indian Community – Minnesota River Shoreline Protection
- ▶ Lower Sioux Indian Community - Minnesota River Shoreline Protection
- ▶ Ho Chunk Nation – Sacred Earth Parcel Wetland Restoration



Signing of the partnership agreement with the Prairie Island Indian Community for the Sturgeon Lake Island Restoration Project



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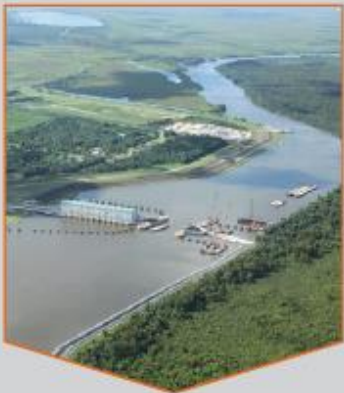


REVOLUTIONIZE CIVIL WORKS



OBJECTIVE
01

Accelerate Project Delivery



- Project Delivery Strategies
- Acquisition Processes and Tools
- Risk-Informed Decision-Making and Delegated Decisions
- Innovation

OBJECTIVE
02

Transform Project Financing and Budgeting



- Alternative Financing Tools
 - MFIA Loans
 - P3 Strategies
- Civil Works Budgeting
- Funding Flexibility

OBJECTIVE
03

Improve Permitting and Regulation Reform



- Environmental Reviews and Permits
- Mitigation
- Permitting Processes
- Regulation Reform

Crosscurrents
Serving the St. Paul District since 1977
Winter 2019/2020 | Vol. 45, No. 3

Revolutionizing Civil Works

- Improving dredged material management planning
Page 7
- Transforming project delivery
Page 9

U.S. Army Corps of Engineers
St. Paul District



BUILDING STRONG®



MISSION

committed to successfully
delivering our program

VALUE

passionate about using our
expertise to serve others

PEOPLE

dedicated to our inspired
and professional workforce

DRIVEN to be a
WORLD-CLASS
DISTRICT
THAT DELIVERS

for our
Workforce, Partners,
Region, Enterprise,
and Nation

by **BUILDING STRONG**
and Taking Care of People!



QUESTIONS



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