

U.S. Army Corps of Engineers Navigation Program Update

NAD/SAD/Western Dredging Association Eastern Chapter Annual Meeting

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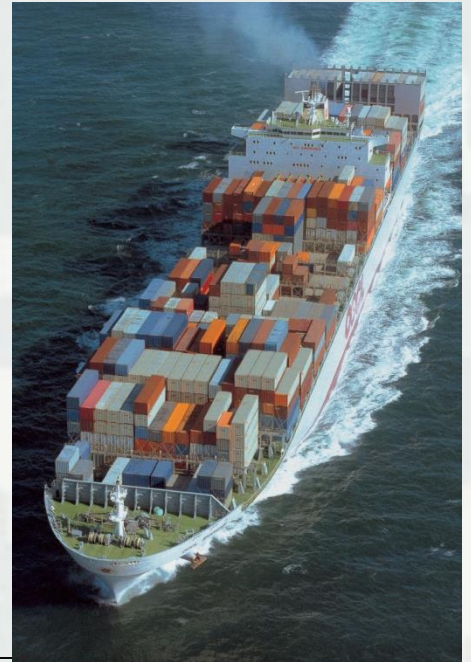


US Army Corps of Engineers
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Corps Navigation Mission

Provide safe, reliable, efficient, effective and environmentally sustainable waterborne transportation systems for movement of commerce, national security needs, and recreation.



USACE Navigation Assets

COASTAL NAVIGATION

1,067 Navigation projects
19 Lock chambers
13,000 Miles of channels
929 Navigation structures
844 Bridges



INLAND NAVIGATION

27 Inland River Systems
207 Lock chambers @ 171 lock sites
12,000 Miles of inland river channels



USACE Navigation Points

- **Water/Port Infrastructure Important to US Economy**
 - 98% of US Overseas Trade by Weight and 99.6% by Volume Moves Thru Corps Navigation Systems
 - Moves 60% of US Grain, 22% of Coal, 22% Petroleum
 - Capacity to Help Relieve Congestion on Other Modes
- **The U.S. marine transportation industry supports ~ \$2 trillion in commerce.**
- **Nation's Water Infrastructure is Aging, Performance is Degrading, and Loss of Economic Impacts**
- **U.S. Population Projected to Increase to 110 M in 30 Yrs**
- **U.S. Imports and Exports Projected to Increase.**
- **Panama Canal New Locks Opened in June 2016.**
- **Global Post-Panamax Fleet to Increase in size and numbers.**
- **Need additional public and private investment**

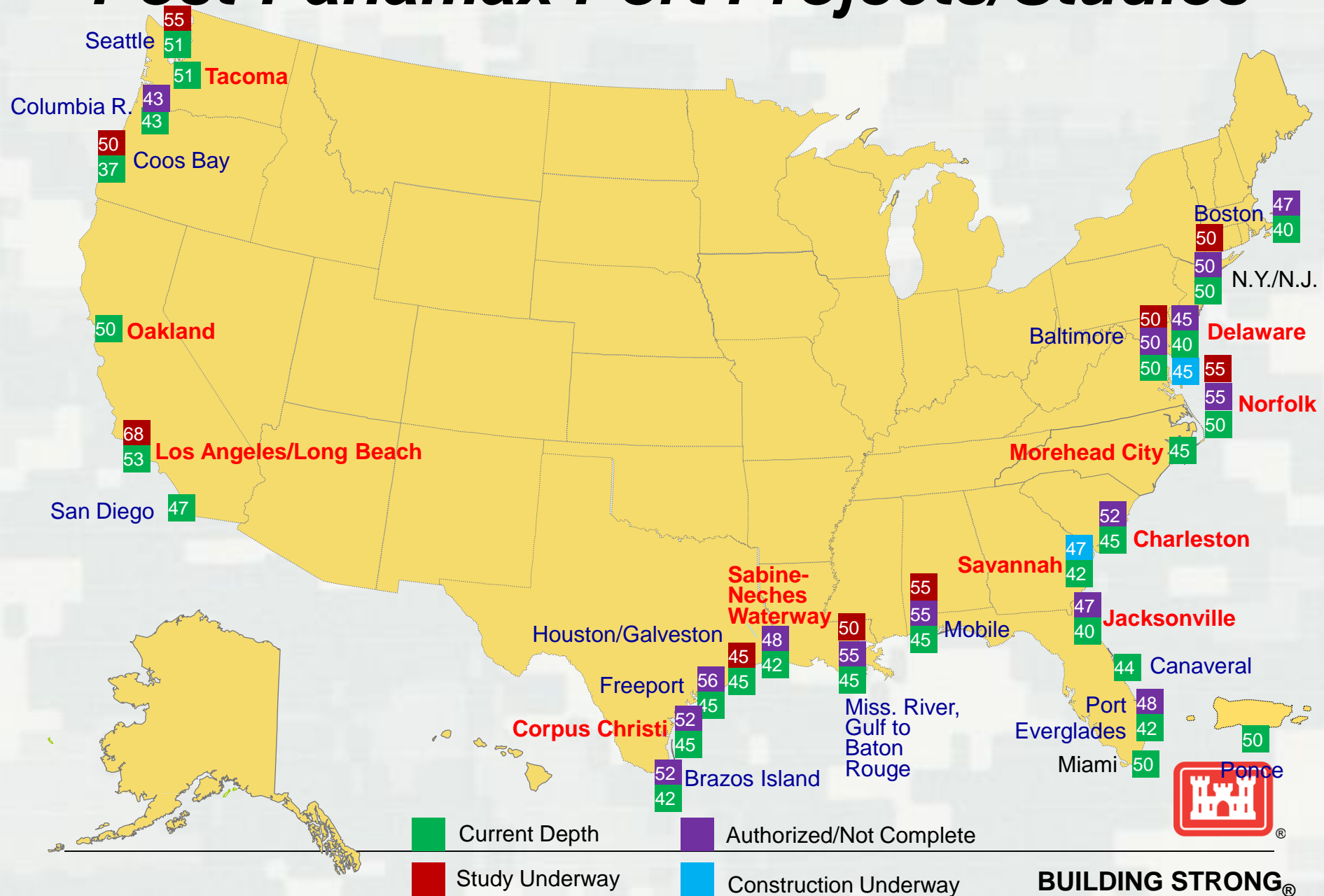


Hurricane Response

- **U.S. Gulf Coast, Southeastern Atlantic Coast, Puerto Rico, and Virgin Islands impacted by 4 hurricanes in last 1.5 months – Harvey, Irma, Maria, and Nate.**
- **Great response by Districts, Divisions, NOAA, USCG, Navy, dredging and marine construction industry, and navigation stakeholders to respond to needs for hydrographic surveying, dredging, wreck removal, buoy replacement, etc. and to communicate the condition and status of ports and channels.**
- **Surveys still underway to determine channel conditions and shoreline erosion to assess dredging needs.**
- **National teleconference in October-November to review dredging needs and dredge availability.**
- **Districts must have emergency contracting procedures.**
- **Keep up the great work!**



Post-Panamax Port Projects/Studies



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National Priorities for Budgeting

- A. Provide for National Defense
- B. Reduce the Deficit
- C. Create Jobs and Restore the Economy
- D. Improve Resiliency and Safety of Communities and Infrastructure
- E. Restore and Protect the Environment
- F. Maintain Global Competitiveness
- G. Increase Energy Independence and Renewable Energy
- H. Improve Quality of Life
- I. Support Research and Innovation that leads to American Jobs and Industries

Navigation has a key role in all of these!



President's Budgets

(\$millions)

Fiscal Year	Coastal	Inland	Nav	CW total	Nav Percent
FY 18	\$1,079	\$1,019	\$2,098	\$5,002	42%
FY 17	\$1,017	\$917	\$1,934	\$4,620	42%
FY 16	\$973	\$974	\$1,947	\$4,732	41%
FY 15	\$991	\$834	\$1,825	\$4,561	40%
FY 14	\$980	\$904	\$1,884	\$4,826	39%
FY 13	\$967	\$780	\$1,747	\$4,731	37%
FY 12	\$832	\$744	\$1,575	\$4,631	34%
FY 11	\$873	\$779	\$1,652	\$4,939	33%
FY 10	\$971	\$796	\$1,767	\$5,125	35%
FY 09	\$969	\$931	\$1,900	\$4741	40%



Navigation Budget by Account

(\$millions)

Fiscal Yr	Investigations	Construction	O&M	MR&T	Total Nav
FY 18	\$19	\$310	\$1,717	\$52	\$2,098
FY 17	\$22	\$348	\$1,527	\$37	\$1,934
FY 16	\$25	\$321	\$1,563	\$38	\$1,947
FY 15	\$22	\$277	\$1,487	\$39	\$1,825
FY 14	\$23	\$345	\$1,461	\$55	\$1,884
FY 13	\$25	\$352	\$1,326	\$44	\$1,747
FY 12	\$18	\$283	\$1,237	\$37	\$1,575
FY 11	\$19	\$291	\$1,297	\$45	\$1,653
FY 10	\$19	\$288	\$1,411	\$48	\$1,767
FY 09	\$20	\$495	\$1,346	\$39	\$1,900

Coastal Navigation Budget

(\$million)

Pres Bud	Investigations	Construction	O&M	MR&T	Total Coastal
FY 18	\$11	\$133	\$933	\$2	\$1,079
FY 17	\$14	\$105	\$896	\$2	\$1,017
FY 16	\$18	\$81	\$872	\$2	\$973
FY 15	\$17	\$97	\$875	\$2	\$991
FY 14	\$16	\$108	\$853	\$2	\$980
FY13	\$17	\$151	\$797	\$2	\$967
FY12	\$7	\$117	\$706	\$2	\$832
FY11	\$9	\$115	\$747	\$2	\$873
FY10	\$16	\$119	\$834	\$2	\$971



Inland Navigation Budget

(\$million)

Fiscal Year	Investigations	Construction	O&M	MR&T	Total Inland
FY 18	\$8	\$177	\$784	\$50	\$1,019
FY 17	\$8	\$243	\$631	\$35	\$917
FY 16	\$7	\$240	\$691	\$36	\$974
FY 15	\$5	\$180	\$612	\$37	\$834
FY 14	\$7	\$237	\$608	\$53	\$904
FY13	\$8	\$201	\$529	\$42	\$780
FY12	\$11	\$166	\$531	\$35	\$743
FY11	\$10	\$176	\$550	\$43	\$779
FY10	\$3	\$170	\$577	\$47	\$796



Additional FY 17 Funds for Navigation in Appropriations Act (\$millions)

- **Investigations** **\$ 15.0**
 - Navigation \$ 5.0
 - Coastal and Deep Draft \$ 5.0
 - Inland \$ 5.0
 - Small, Remote, Subsistence \$ 0.0
 - Remaining Items \$? (share of \$6.4 M)

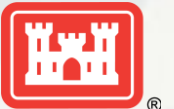
- **Construction** **\$295.45**
 - Navigation \$211.2
 - Inland Waterways TF \$ 75.25
 - Section 107 \$ 8.5
 - Section 111 \$ 0.5

- **MR&T - Dredging** **\$ 3.968**
- **MR&T – Oth Author Purposes** **\$ 10.316 (of \$41.0 M)**

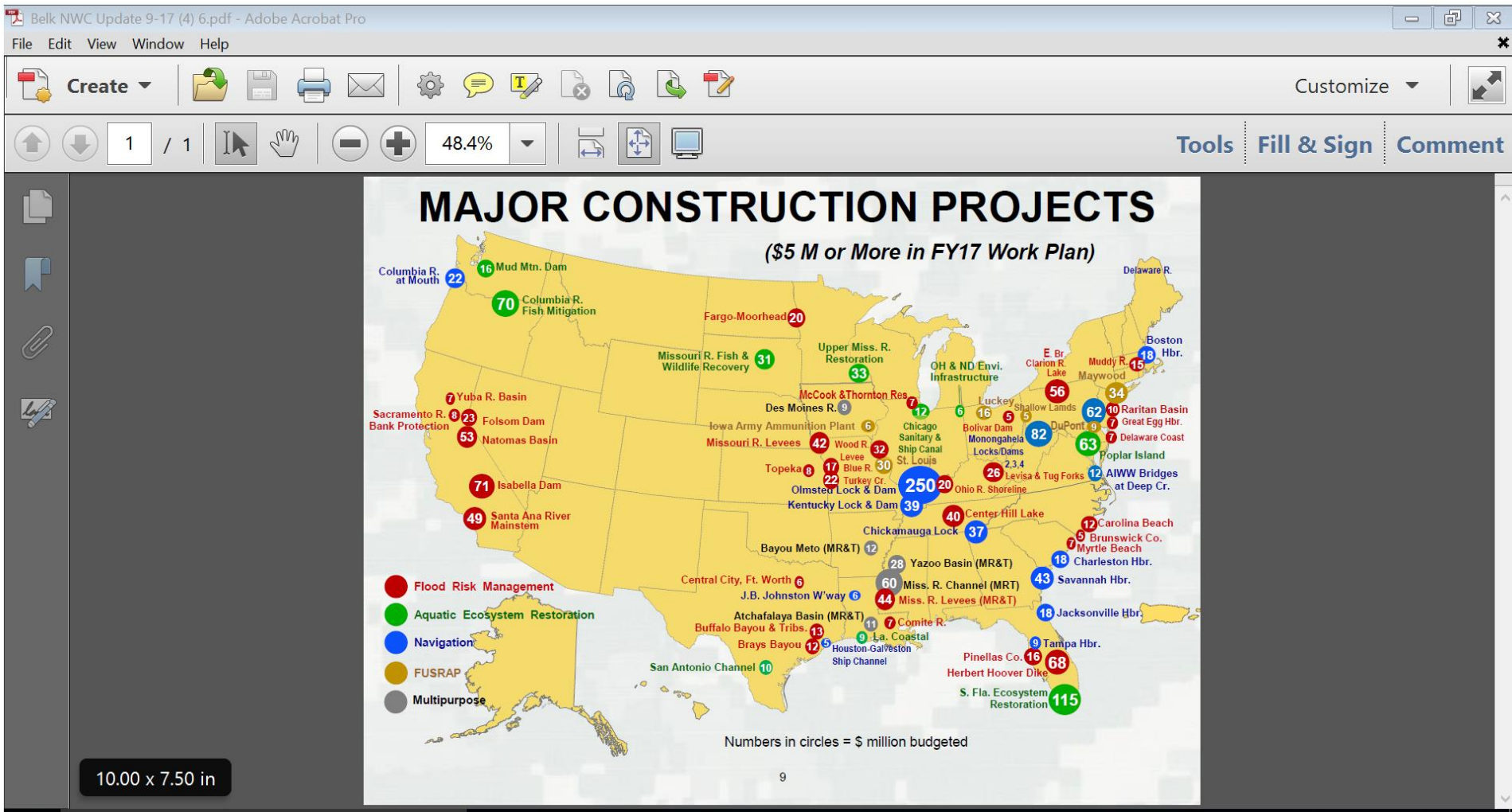


Additional FY 17 Funds for Navigation in Appropriations Act (\$millions)

■ O&M	\$425.065
■ Navigation	\$ 24.365
■ Deep Draft Harbor & Channel	\$268.0
■ Inland Waterways	\$ 46.5
■ Small, Remote, Subsistence	\$ 49.0
■ Donor & Energy Ports	\$ 28.0
■ Remaining Items	\$ 9.2
 ■ Total Additional Funding	 \$749.799 +

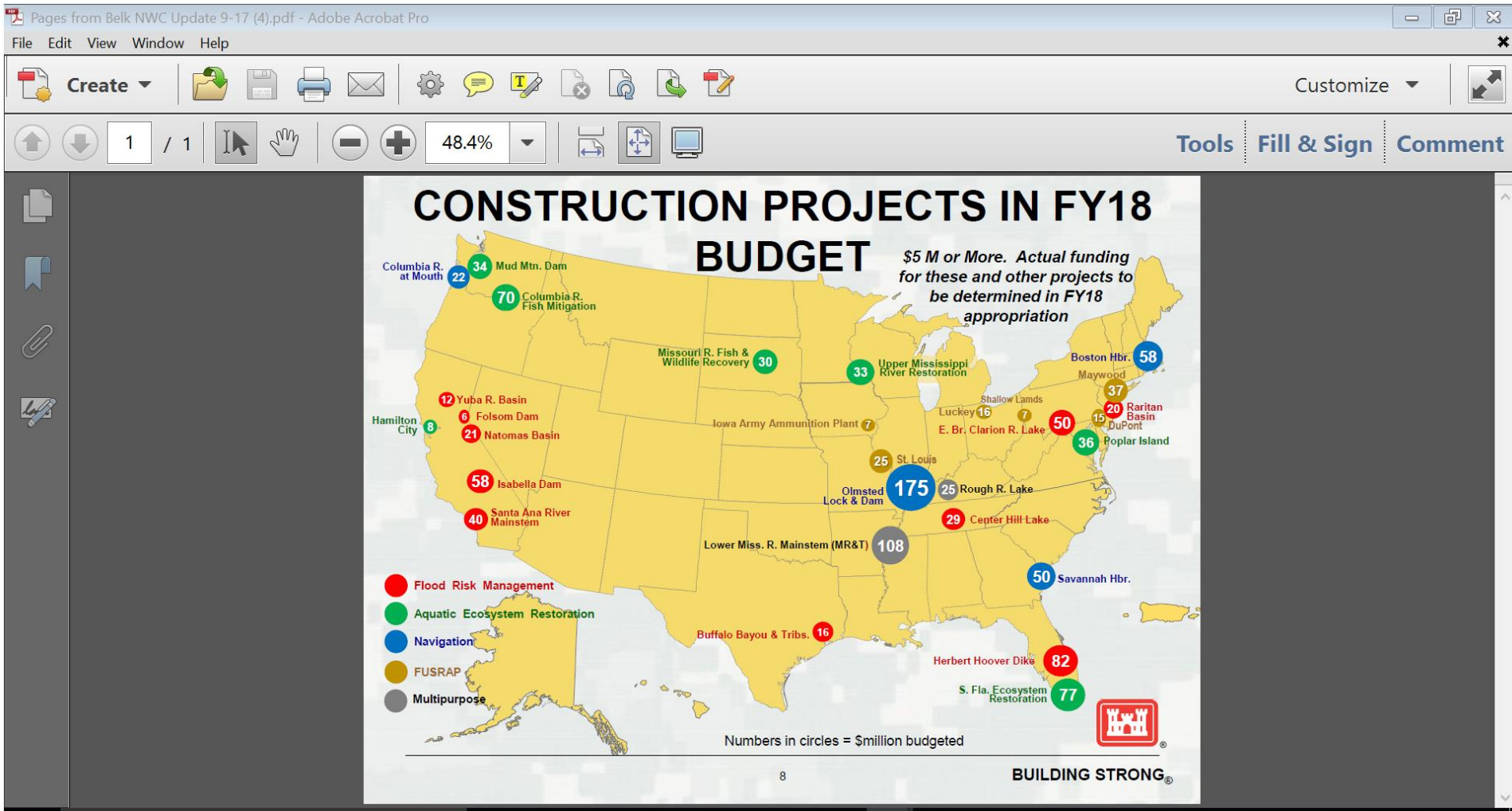


Construction Projects in FY 2017 Workplan



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Construction Projects in FY 2018 Budget



Additional FY 18 Funds for Navigation (\$millions) in Bills

	House	Senate
Investigations	\$ 8.0	\$ 14.0
▪ Navigation	\$ 2.5	\$ 5.0
▪ Coastal and Deep Draft	\$ 2.5	\$ 5.0
▪ Inland	\$ 2.5	\$ 1.5
▪ Small, Remote, Subsistence	\$ 0.0	\$ 0.0
▪ Remaining Items (R&D)	\$ ~0.5	\$ ~2.5
 ▪ Construction	 \$247.00	 \$330.45
▪ Navigation	\$160.75	\$211.2
▪ Inland Waterways TF	\$ 78.75	\$111.75
▪ Section 107 (Nav)	\$ 7.00	\$ 7.0
▪ Section 111 (Sand Mitig)	\$ 0.50	\$ 0.5
 ▪ MR&T O&M Dredging	 \$ 3.09	 \$ 5.0
▪ MR&T – Oth Author Purposes	\$ 13.00	\$ 50.0 *

* to be split with other business lines



Additional FY 18 Funds for Navigation (\$millions) in Bills

	House	Senate
▪ O&M	\$404.0	\$432.7
▪ Navigation	\$ 8.4	\$ 23.0
▪ Deep Draft Harbor & Channel	\$334.4	\$287.0
▪ Inland Waterways	\$ 25.0	\$ 13.5
▪ Small, Remote, Subsistence	\$ 20.0	\$ 51.0
▪ Donor & Energy Ports	\$ 10.0	\$ 50.0
▪ Remaining Items	\$ 6.2	\$ 8.2
▪ Total Additional NAV Funding	\$674.59 +	\$782.15 +

Additional Flood Risk Management Funding

▪ Flood/Storm Damage Reduct	\$114.5	\$150.0 *
▪ Shore Protection	\$ 75.0	\$ 50.0

* to be split with Flood Control



Navigation Actions

- WRRDA 2014/WRDA 2016 – All Navigation Implementation Guidance is complete or under review within Administration.

<http://www.usace.army.mil/Missions/Civil-Works/Project-Planning/Legislative-Links/>

- National Placement Data Manager under going Beta test. Request District participation.

<https://navigation.usace.army.mil/dmgr/Default.aspx>

- Section 408 guidance being revised.
- Planning to kick-off dredge estimating PDT.



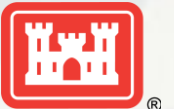
Navigation Challenges

- Constrained funding - can't maintain authorized/constructed channel dimensions and critical infrastructure
- Funding for low commercial use projects
- Increased cost of doing business
- Aging infrastructure
- Behind in channel depths
- Environmental Issues
 - ▶ Air and water quality requirements
 - ▶ Threatened, endangered, and invasive species
 - ▶ Dredging windows



Stakeholders and Partnering

- Leverage Efforts
- Understand and communicate Civil Works Value to Nation
- Find consensus on Major Initiatives
 - Identify Funding to Reach Outcomes
 - Engage in Dialogue
- Be mutually supportive
- Shared Messages
- Involve & Engage End-Users
- Seek to Influence Decision-Makers



Closing Thoughts

- USACE funding continues to be constrained and addressing the Nation's Infrastructure Investment Gap must be a Shared Federal, State and Local Responsibility.
- The Corps Doesn't Deliver Anything by Itself... Critical that We Not Lose Focus on Our Partners, Stakeholders, and Our Commitments
- Navigation Investment is Essential for the Nation's Global Trade and International Competitiveness
- America's Marine Transportation System infrastructure must become a National priority in order to get adequate funding
- Navigation investment is key to Economy, Jobs, and Exports!



QUESTIONS?

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