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Buffalo District Critical Needs Projects

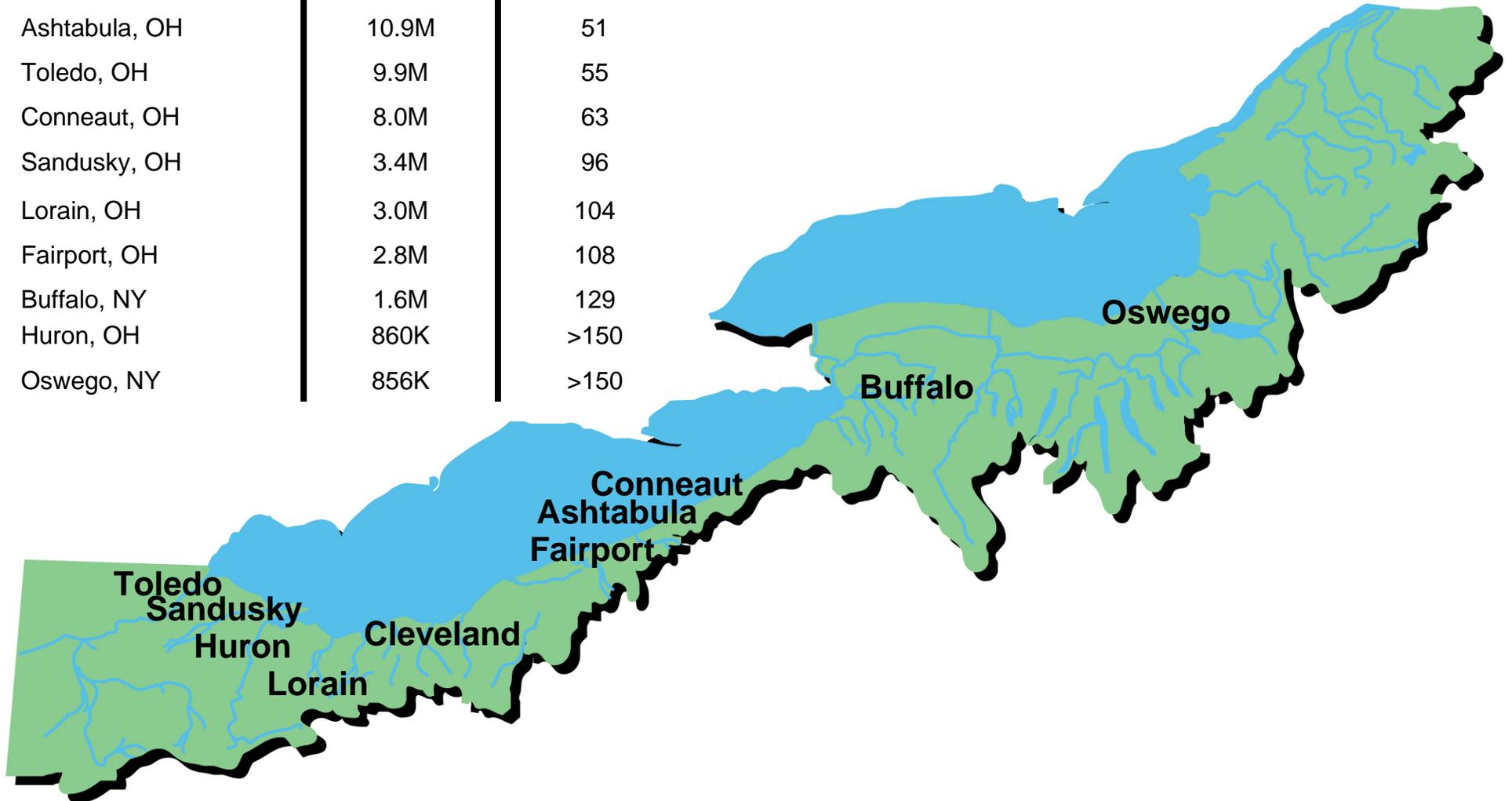


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Critical Needs



HARBOR	TONNAGE (2004)	RANK (2004)
Cleveland, OH	15.8M	44
Ashtabula, OH	10.9M	51
Toledo, OH	9.9M	55
Conneaut, OH	8.0M	63
Sandusky, OH	3.4M	96
Lorain, OH	3.0M	104
Fairport, OH	2.8M	108
Buffalo, NY	1.6M	129
Huron, OH	860K	>150
Oswego, NY	856K	>150



Critical Dredging Needs (FY07)

Harbor	Authorized Dimensions \$ Needs / Cubic Yards	FY07 \$ Needs/Cubic Yards	FY07 \$ Budget / Cubic Yards
Cleveland, OH (Cuyahoga River)	\$3.7M / 460K	\$2.3M / 234K	\$2.0M / 185K
Toledo, OH	\$13.4M / 3.5M	\$5.6M / 1.2M	\$3.9M / 824K
Huron, OH	\$2.7M / 577K	\$960K / 150K	\$660K / 90K
Fairport, OH	\$5.0M / 650K	\$1.6M / 170K	\$1.2M / 120K
Lorain, OH	\$4.5M / 1.0M	\$495K / 60K	0 / 0
Sandusky, OH	\$6.2M / 1.6M	\$1.0 M / 200K	\$360K / 0
Conneaut, OH	\$4.9M / 975K	\$750K / 90K	0 / 0
Ashtabula, OH	\$19.7M / 1.7M	\$11.7M / 260K	\$650K / 80K
Rochester, NY	\$3.2M / 581K	\$1.1M / 150K	\$920K / 123K
Oswego, NY	\$2.5M / 331K	\$635K / 48K	\$525K / 35K
TOTAL	\$65.8M / 11.4M	\$26.1M / 2.6M	\$10.2M / 1.5M



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FYDP Fact Sheets

Critical Needs By Work Package



Dredging and Dredged Material
Management



Safe Navigation and Storm Damage
Protection



Regulatory Requirement or Optimum
Maintenance



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Cleveland Harbor

15.8M tons – Rank: 44



- Dredged Material Management
- Maintenance Dredging
 - 2-3' shoal inc. trans cost \$7.6-\$12.6M
- Structure Repair



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U.S. Army Corps of Engineers Fiscal Year (FY) 2007 and 2008 Cleveland Harbor, Ohio Project Needs and President's Budget



Work Package	FY07 Need	FY07 Budget	Δ	FY08 Need	FY08 Budget*
Maintenance Dredging	2,160	1,860	300	2,350	
Critical Advance Maintenance Dredging	150	150	0	180	
Construction, Dike 10B Dredge Material Placement Management	450	150	300	370	
Initiate E&D of new CDF	150		150	250	
Construction, Interim CDF (Dike 12)	1,400	200	1,200	1,400	
Snagging & Clearing	40	40	0	40	
Dredged Material Management Plan	250	250	0	120	
Project Condition Surveys	44	44	0	110	
Structure Repair - Breakwater - 300 LF	690		690	1,200	
Construction, West Pierhead Repair				3,000	
E&D, East Breakwater Repair (Sta 84-94)	100		100	200	
E&D, Ohio Area Office Finger Pier Repair	200		200	250	
E&D, East Breakwater West End Section Repair	200		200	250	
Complete E&D, West Pierhead Repair	250		250		
E&D, Ohio Area Office Finger Pier - Electrical Repair	100		100		
Environmental Compliance				15	
TOTALS	6,184	2,694	3,490	9,735	

* FY08 President's Budget will not be available until February 2007



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Ashtabula Harbor

10.9M tons – Rank: 51



- Environmental Dredging
- Maintenance Dredging
 - 2' shoal inc. trans cost \$2.2M
- Structure Repair



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U.S. Army Corps of Engineers Fiscal Year (FY) 2007 and 2008 Ashtabula Harbor, Ohio Project Needs and President's Budget



Work Package	FY07 Need	FY07 Budget	Δ	FY08 Need	FY08 Budget*
Project Conditions Survey	26	26	0		
E&D, Environmental Dredging				200	
Construct, Environmental Dredging	10,900		10,900	11,900	
Maintenance Dredging	815	650	165		
E&D Repair of East and West Pier heads	100		100		
Construct Repair of 800 LF of East Breakwater	690		690		
Structure Repair – East Breakwater				900	
TOTALS	12,531	676	11,855	13,000	

* FY08 President's Budget will not be available until February 2007



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Toledo Harbor

9.9M tons – Rank: 55



- Maintenance Dredging
 - 2' shoal inc. trans cost \$784K
- Dredged Material Management



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U.S. Army Corps of Engineers Fiscal Year (FY) 2007 and 2008
Toledo Harbor, Ohio Project Needs and President's Budget



Work Package	FY07 Need	FY07 Budget	Δ	FY08 Need	FY08 Budget *
Project Conditions Survey	85	85	0	115	
Maintenance Dredging – Maumee Bay	3,495	2,695	800	2,740	
Maintenance Dredging – Maumee River	1,855	980	875	1,120	
Critical Advance Maintenance Dredging – Maumee Bay	150	150	0		
Critical Advance Maintenance Dredging – Maumee River	100	100	0		
E&D Island 18 Stone Repair	200	0	200		
TOTALS	5,885	4,010	1,875	3,975	

* FY08 President's Budget will not be available until February 2007

NOTE: Beneficial Use of Dredged Material (Pilot) \$300k in FY08 is in the
Environmental Stewardship FYDP



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Huron Harbor

860K tons – Rank: >150



- Maintenance Dredging

- 5' shoal inc. trans cost \$929K



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U.S. Army Corps of Engineers Fiscal Year (FY) 2007 and 2008 Huron Harbor, Ohio Project Needs and President's Budget



Work Package	FY07 Need	FY07 Budget	Δ	FY08 Need	FY08 Budget *
Project Conditions Survey	30	30	0		
Maintenance Dredging	960	660	300	900	
E&D Weir Repair				100	
Environmental Compliance (CDF-Risk Assessment)				60	
Environmental Compliance (CDF)				10	
TOTALS	990	690	300	1,070	

* FY08 President's Budget will not be available until February 2007



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Conneaut Harbor

8.0M tons – Rank: 63



- Maintenance Dredging

- 2-3' shoal inc. trans cost \$828K - \$2.0M

- Structure Repair



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U.S. Army Corps of Engineers Fiscal Year (FY) 2007 and 2008
Conneaut Harbor, Ohio Project Needs and President's Budget



Work Package	FY07 Need	FY07 Budget	Δ	FY08 Need	FY08 Budget *
Project Conditions Survey	33	33	0		
Maintenance Dredging	750		750	840	
Complete Construction of West Pier Repair	1,100	1,000	100		
Structure Repair – Breakwater				500	
E&D East Breakwater Repair				250	
TOTALS	1,883	1,033	850	1,590	

* FY08 President's Budget will not be available until February 2007



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Fairport Harbor

2.8M tons – Rank: 108



- **Maintenance Dredging**

- 2-3' shoal inc. trans cost
\$868K - \$1.4M

- **Structure Repair**



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U.S. Army Corps of Engineers Fiscal Year (FY) 2007 and 2008 Fairport Harbor, Ohio Project Needs and President's Budget



Work Package	FY07 Need	FY07 Budget	Δ	FY08 Need	FY08 Budget *
Project Conditions Survey	26	26	0		
Maintenance Dredging	1,625	1,225	400		
Structure Repair – East Breakwater	590	590	0	925	
E&D and Construction, Addition of Safety Ladders to East Pier	100	100	0		
TOTALS	2,341	1,941	400	925	

* FY08 President's Budget will not be available until February 2007



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Lorain Harbor

3.0M tons – Rank:104

An aerial photograph of Lorain Harbor, showing a large body of water with several long piers extending into it. A red ship is docked at one of the piers. The surrounding area includes a residential neighborhood with houses and trees, and some industrial or commercial buildings.

- Maintenance Dredging

- 2-3' shoal inc. trans cost
\$345K - \$896K

- Structure Repair



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U.S. Army Corps of Engineers Fiscal Year (FY) 2007 and 2008 Lorain Harbor, Ohio Project Needs and President's Budget



Work Package	FY07 Need	FY07 Budget	Δ	FY08 Need	FY08 Budget *
Project Conditions Survey	33	33	0		
Dredged Material Management Plan	250	250	0		
Construction, CDF Maintenance	350	350	0		
Maintenance Dredging	495		495	930	
E&D, CDF Maintenance				110	
Structure Repair – East and West Breakwaters	590	590	0		
Evaluate West Breakwater Extension Shorearm	50	50	0		
Environmental Compliance	10	10	0		
TOTALS	1,778	1,283	495	1,040	

*FY08 President's Budget will not be available until February 2007



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Sandusky Harbor

3.4M tons – Rank: 96



•Maintenance Dredging

- 2-3' shoal inc. trans cost
\$386K - \$678K



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U.S. Army Corps of Engineers Fiscal Year (FY) 2007 and 2008 Sandusky Harbor, Ohio Project Needs and President's Budget



Work Package	FY07 Need	FY07 Budget	Δ	FY08 Need	FY08 Budget *
Project Conditions Survey	37	37	0		
Maintenance Dredging	1,010	360	650	1,050	
TOTALS	1,047	397	650	1,050	

* FY08 President's Budget will not be available until February 2007



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Oswego Harbor

856K tons – Rank: >150



- Maintenance Dredging
 - 1' shoal inc. trans cost \$16K
- Structure Repair



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**U.S. Army Corps of Engineers Fiscal Year (FY) 2007 and 2008
Oswego Harbor, New York Project Needs and President's
Budget**



Work Package	FY07 Need	FY07 Budget	Δ	FY08 Need	FY08 Budget *
Project Conditions Survey	19	19	0		
Maintenance Dredging	635	525	110		
Sediment Sampling and Analysis				100	
E&D, East and West Arrowhead Breakwater Repair	300	300	0		
Structure Repair – East and West Arrowhead Breakwaters				2,000	
Construct, West Arrowhead Breakwater Repair				3,500	
TOTALS	954	844	110	5,600	

* FY08 President's Budget will not be available until February 2007



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Buffalo Harbor

1.6M tons – Rank: 129



- Maintenance Dredging
 - 3' shoal inc. trans cost \$909K
- Structure Repair



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U.S. Army Corps of Engineers Fiscal Year (FY) 2007 and 2008 Buffalo Harbor, New York Project Needs and President's Budget



Work Package	FY07 Need	FY07 Budget	Δ	FY08 Need	FY08 Budget*
Project Conditions Survey	44	44	0	95	
Sediment Sampling and Analysis	130	130	0		
Snagging and Clearing	20	20	0	20	
Structure Repair – CDF No. 4	100	100	0		
Maintenance Dredging				1,100	
Repair 250 LF of the South Breakwater	340		340		
E&D Repair of 1000 LF of the North Breakwater	250		250		
Structure Repair – South Breakwater				800	
E&D South Breakwater Repair				300	
E&D North Breakwater Repair				150	
Water Control Data Collection	38	38	0	40	
Environmental Compliance (CDF)				15	
Environmental Compliance (CDF – Risk Assessment)	100		100	15	
TOTALS	1,022	332	690	2,535	

* FY08 President's Budget will not be available until February 2007