



US Army Corps
of Engineers
Great Lakes &
Ohio River Division

Great Lakes Icebreaking Conference



Soo Locks Winter Work

Soo Locks Memorandum of Agreement

Maintenance Dredging Program

Soo Replacement Lock

**Wayne Schloop, PE
Chief, Operations
Detroit District**



US Army Corps
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Great Lakes &
Ohio River Division

Soo Locks Winter Work

January - March 2008

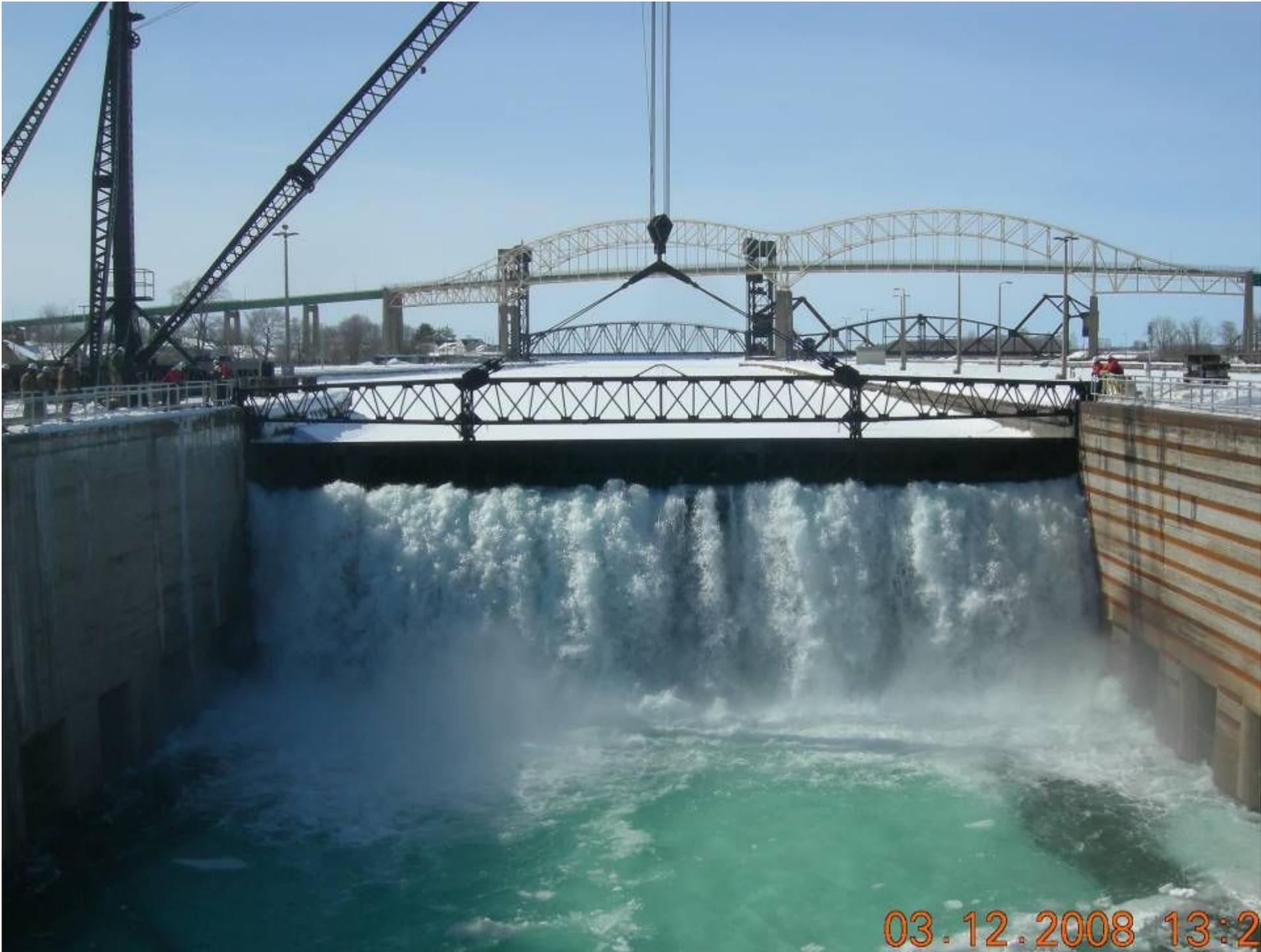








02.01.2008







US Army Corps
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2008 - 2009 Winter Work

MacArthur Lock

Closed from 15 December 2008 to 12 April 2009

Work Consists of:

- Placing dewatering bulkheads**
- Sandblasting & painting of gates**
- Concrete repairs to the gate sills**
- Mechanical and electrical repairs/upgrades**



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Soo Locks

Memorandum of Agreement

- Signed by: COE, USCG, USF&WS, MDEQ & MDNR
(expired 10 August 2008)
- Reaffirmed operating dates for the Soo Locks
Closed: 15 January (2400hrs) to 25 March (0001hrs)
- USCG shall monitor & enforce speed limits
- COE conduct low aerial flights of West Neebish Channel
(every 3 years for duration of MOA)
- During the last year of MOA – parties shall meet and determine if new/revised agreement warranted



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Maintenance Dredging Program



● Deep Draft
● Shallow Draft



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2007-2008 “Groundings” on the Great Lakes

Ludington Harbor, MI

• 6 SEP 2008

Muskegon Harbor, MI

- 22 AUG 2007
- 10 SEP 2007
- 13 NOV 2007
- 8 JAN 2008

Grand Haven Harbor, MI

• 3 DEC 2007

Waukegan Harbor, IL

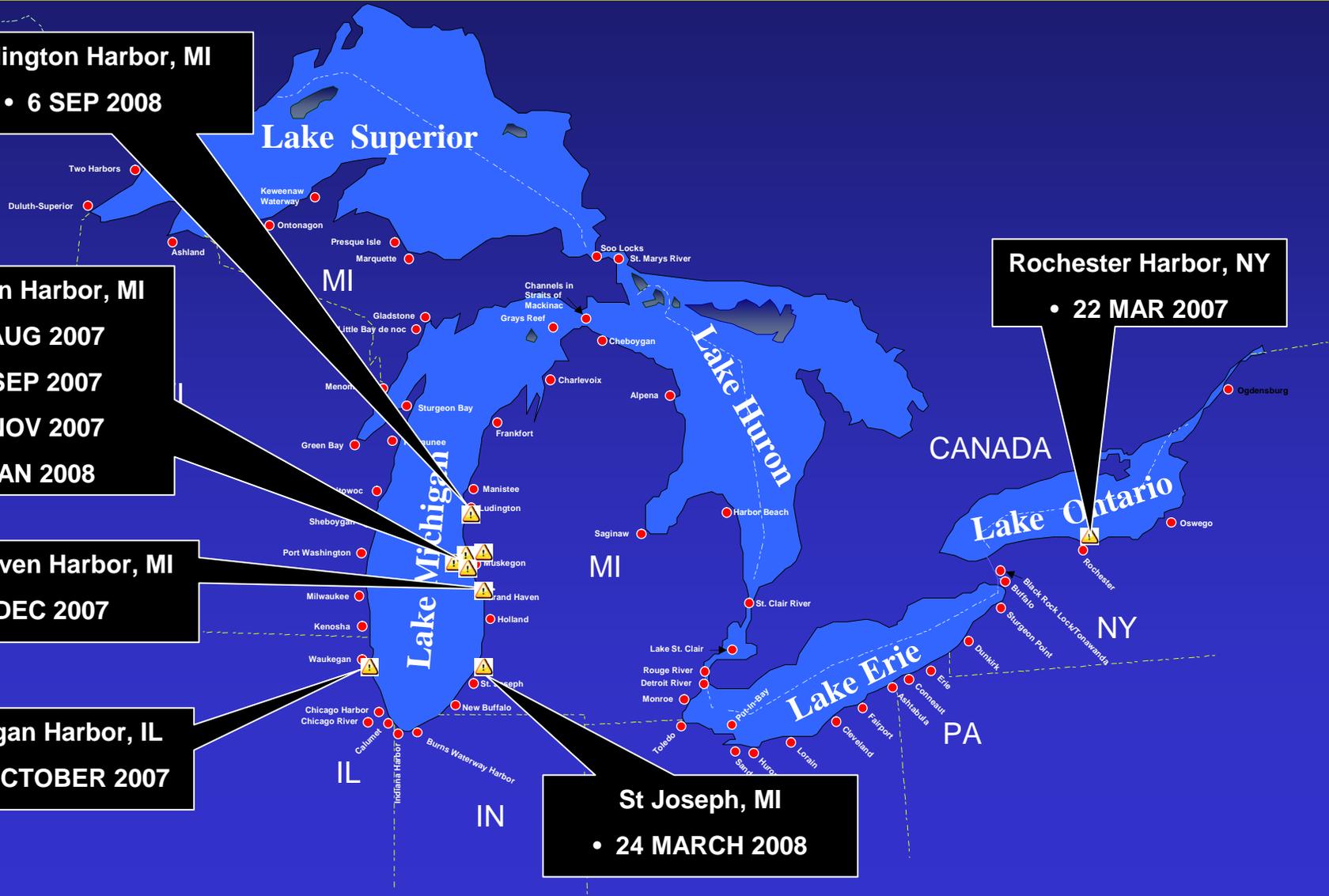
• MID-OCTOBER 2007

St Joseph, MI

• 24 MARCH 2008

Rochester Harbor, NY

• 22 MAR 2007

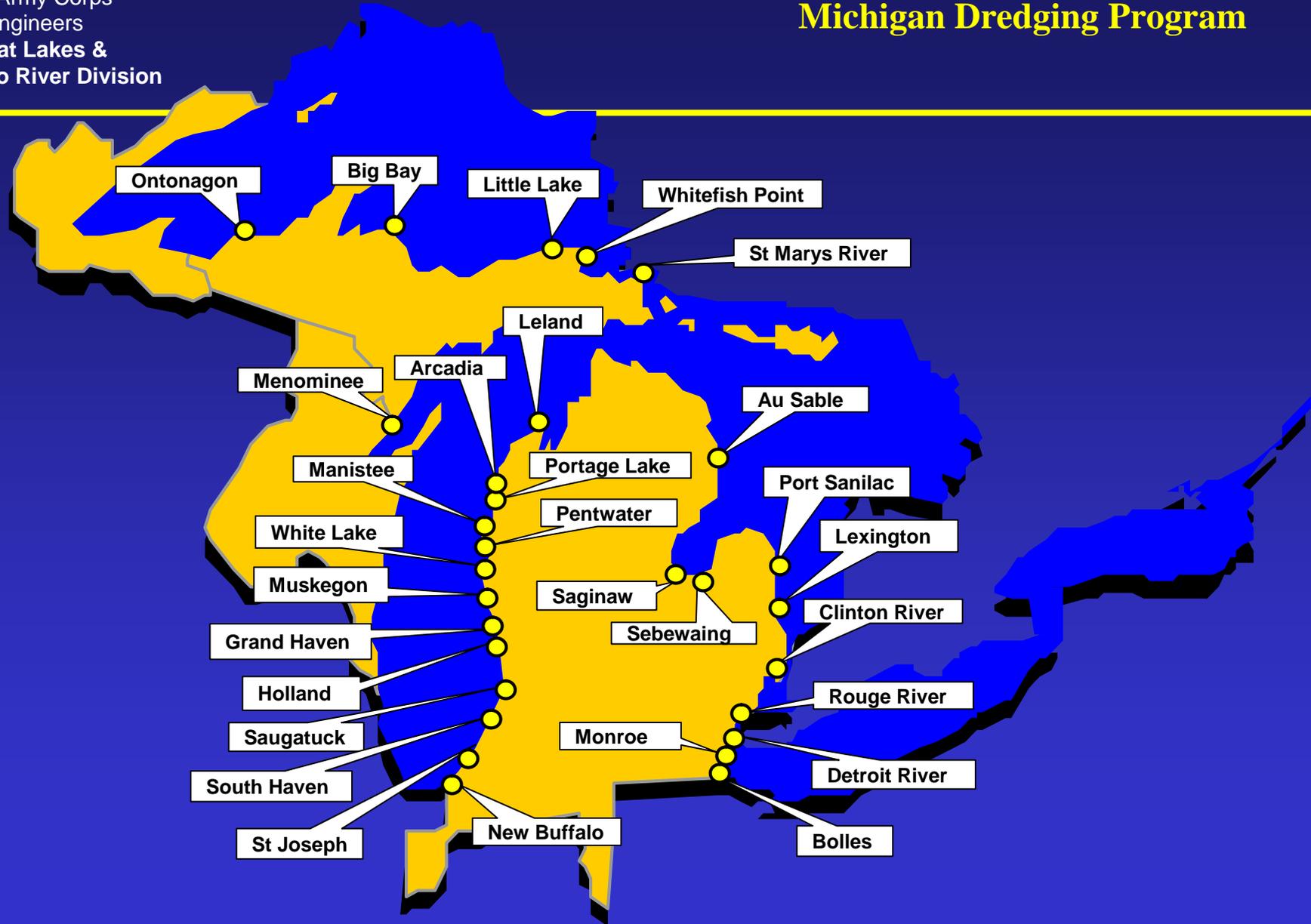




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FY2008 Projects

Michigan Dredging Program

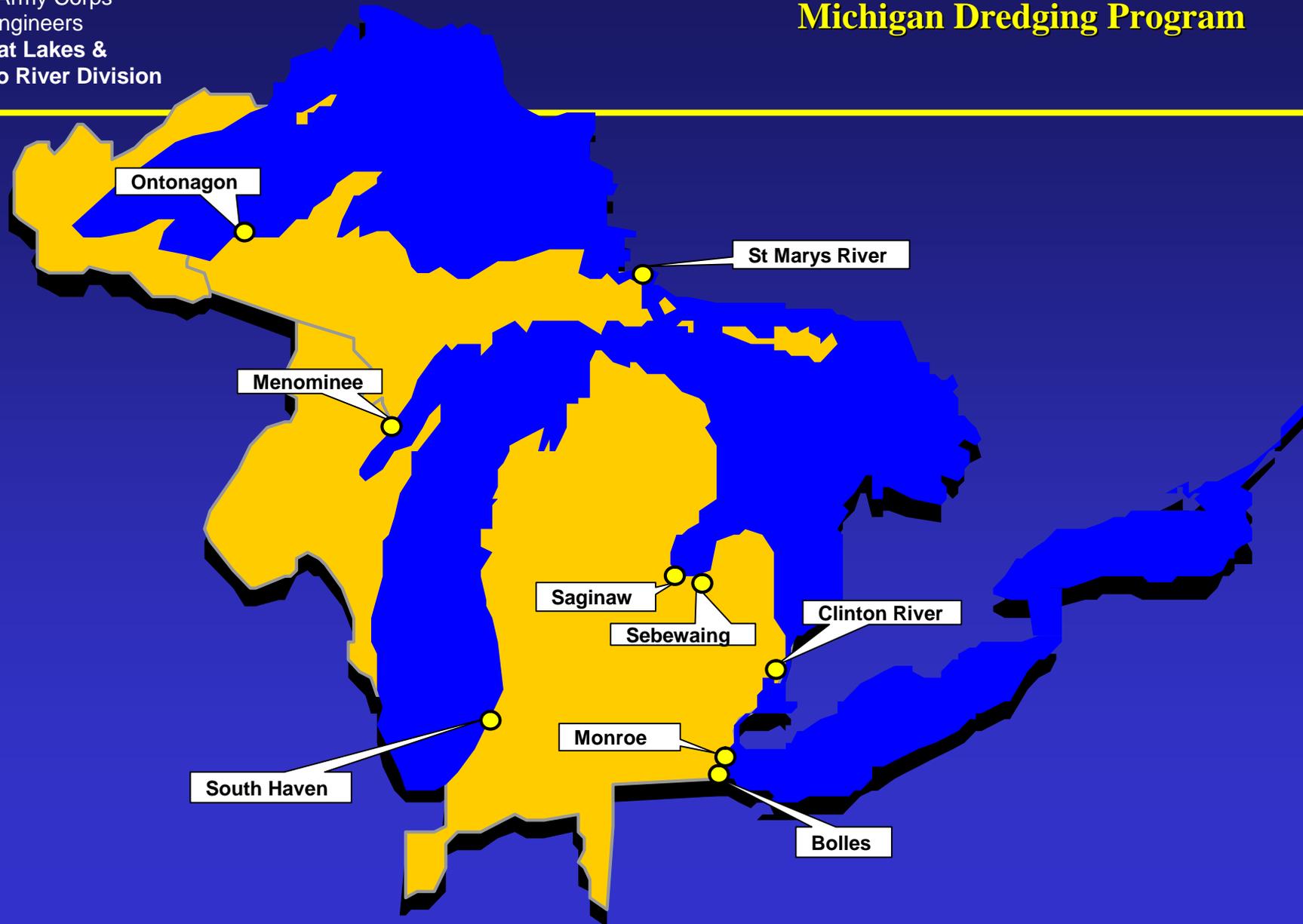




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Ongoing Dredging

Michigan Dredging Program





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FY2008 Projects

Wisconsin and Minnesota Dredging Program

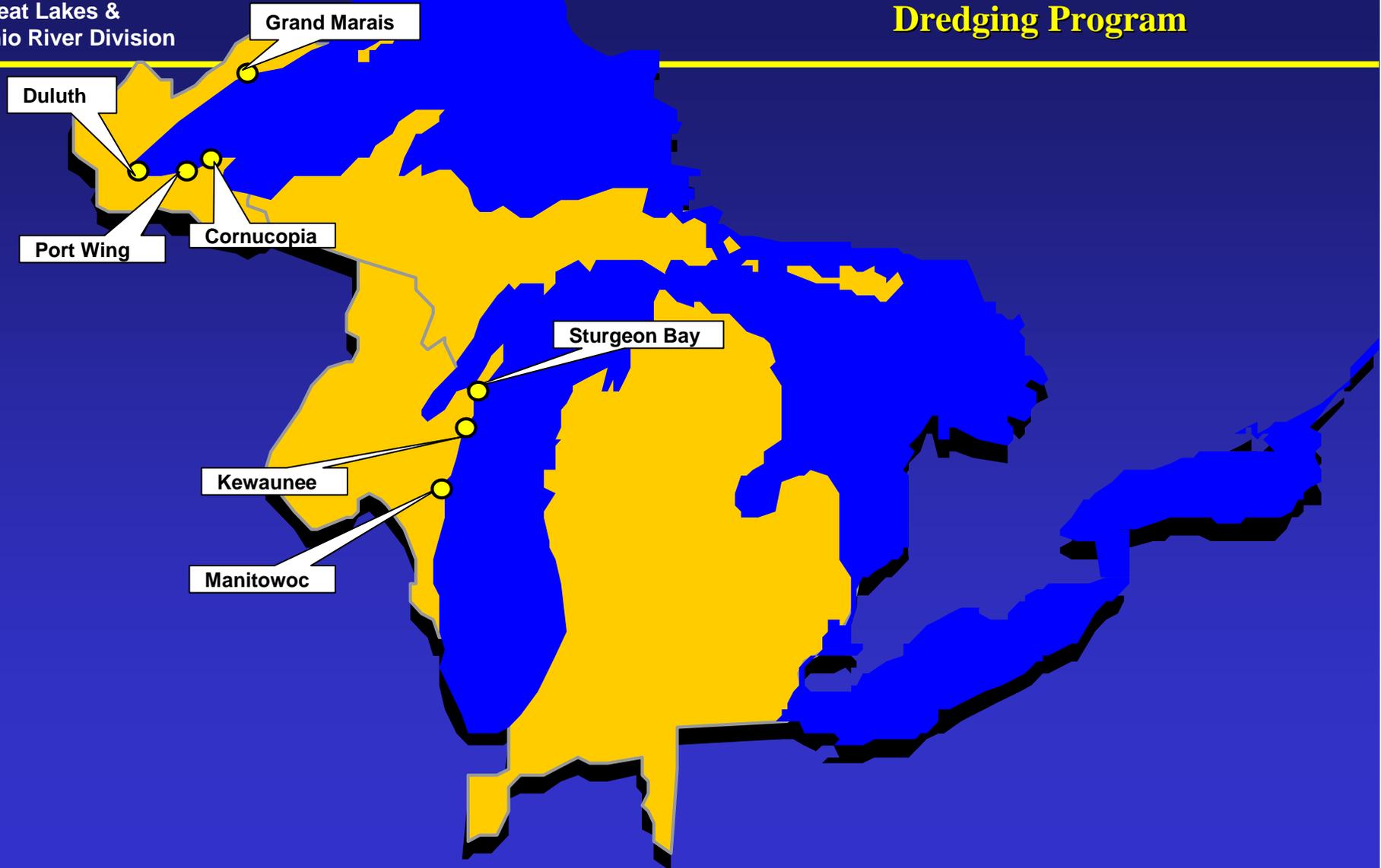




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Ongoing Dredging

Wisconsin and Minnesota Dredging Program





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FY2009 Presidents' Budget

DETROIT RIVER, MI	200,000
DULUTH-SUPERIOR HARBOR, MN&WI	120,000
GRAND HAVEN HARBOR, MI (OUTER)	50,000
GRAND HAVEN HARBOR, MI (INNER)	30,000
GREEN BAY HARBOR, WI	160,000
HOLLAND HARBOR, MI (OUTER)	35,000
LUDINGTON HARBOR, MI	40,000
MONROE HARBOR, MI	70,000
ROUGE RIVER, MI	80,000
ONTONAGON HARBOR, MI	45,000
SAGINAW RIVER, MI	300,000
ST JOSEPH HARBOR, MI	45,000
	<hr/>
TOTAL	1,175,000



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The Soo Locks – Today and Tomorrow

A View Today . . .



A View into the Future!





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WRDA 2007

SEC. 3091. SAULT SAINTE MARIE, MICHIGAN.

*(a) IN GENERAL.—The text of section 1149 of the Water Resources Development Act of 1986 (100 Stat. 4254) is amended to read as follows: “**The Secretary shall construct, at Federal expense, a second lock, of a width not less than 110 feet and a length not less than 1,200 feet, adjacent to the existing lock at Sault Sainte Marie, Michigan, generally in accordance with the report of the Board of Engineers for Rivers and Harbors, dated May 19, 1986, and the limited reevaluation report dated February 2004 at a total cost of \$341,714,000.**”.*

(b) CONFORMING REPEALS.—The following provisions are repealed:

- (1) Section 107(a)(8) of the Water Resources Development Act of 1990 (104 Stat. 4620)*
- (2) Section 330 of the Water Resources Development Act of 1996 (110 Stat. 3717).*
- (3) Section 330 of the Water Resources Development Act of 1999 (113 Stat. 305).*



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FY 09 Activities

- Complete Cofferd Dam Plans and Specifications
- Award Construction Contract & Initiate Construction
- Complete Detailed Design Reports for the Channel Excavation/Guide Walls and Lock Chamber
- Initiate Plans & Specifications for the Channel Excavation/Guide Walls and Lock Chamber



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FY 09 Funding

- Presidents Budget: \$0
- House Appropriations Markup: \$17.0 M
- Senate Appropriations Markup: \$2.0 M
- Conference Amount: ??

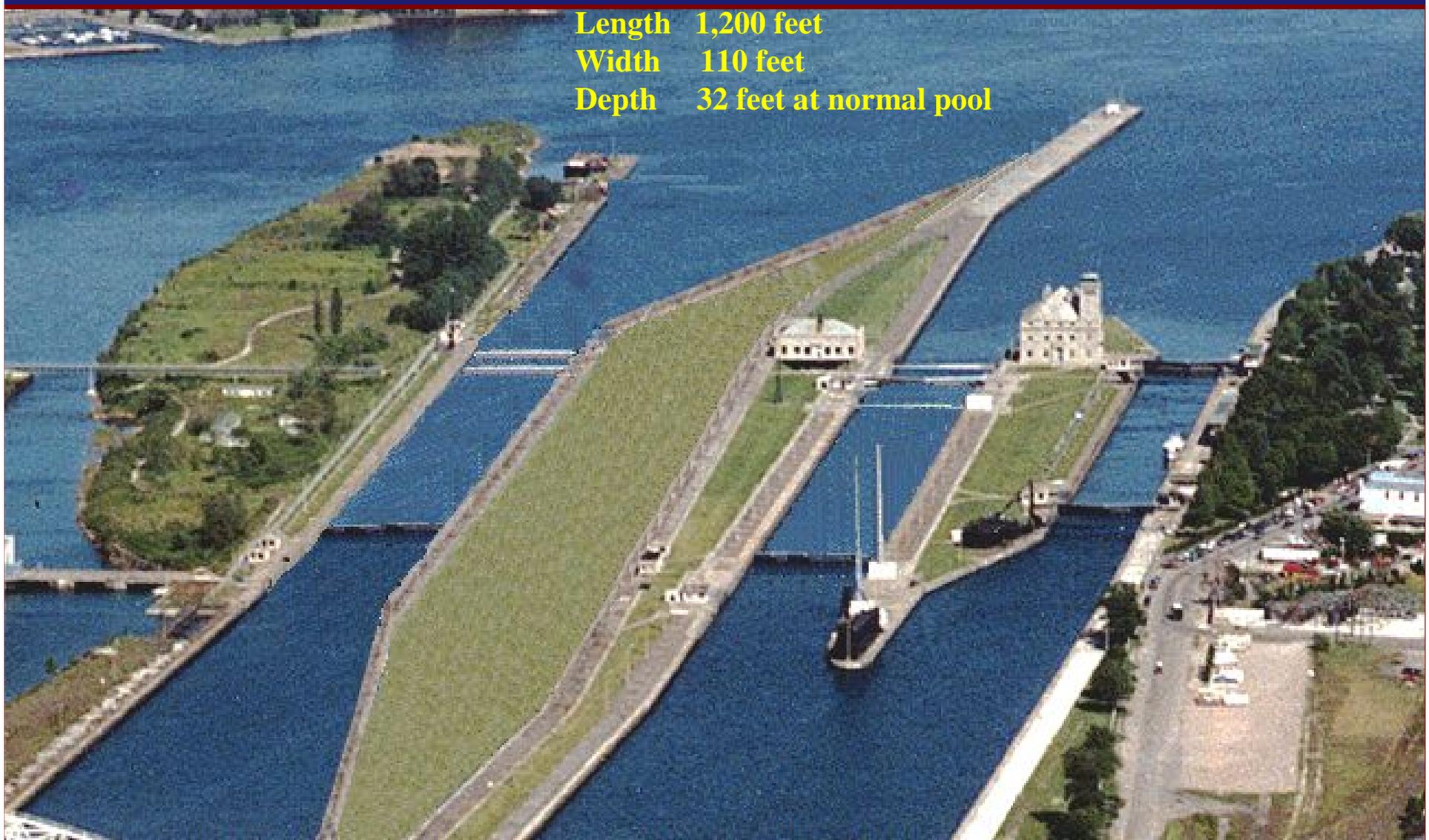
\$2 Million	\$8 Million	\$17 Million
Continue Design	Continue Design	Continue Design
	Award a Reduced Cofferdam Contract	Award Full Cofferdam Contract



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Rendition of Future Poe Size Lock

Length 1,200 feet
Width 110 feet
Depth 32 feet at normal pool



Other Information



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Soo Locks - Draft

Cargo Carriers Maximum Draft Comparison

	2007 Season			2008 Season			Difference	
	Vessel Name	Feet	Inches	Vessel Name	Feet	Inches	Feet	Inches
March	CANADIAN PROVIDER	26	3	FRONTENAC	26	0		-3
April	CSL ASSINIBOINE	26	6	FEDERAL RHINE	26	7		1
May	AMERICAN INTEGRITY	26	6	INDIANA HARBOR	26	10		4
June	AMERICAN FORTITUDE	26	7	MESABI MINER	27	5		10
July	INDIANA HARBOR	26	9	MESABI MINER	27	7		10
August	INDIANA HARBOR	26	10	AMERICAN MARINER	27	8		10
September	AMERICAN INTEGRITY	26	6	STEWART J CORT	27	7	1	1
October	EDWARD L RYERSON	26	7					
November	FEDERAL SHIMANTO	26	4					
December	YPERMACHOS	26	4					
January	CHARLES M BEEGHLY	25	9					



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Tonnage Statement

RPT21 - Tonnage Statement

River-SM Lock-1 Ch-All

Current Month: September 2008

Dates: 09-01-08 00:00 to 09-30-08 23:59

Tonnage	Sep 2007	Sep 2008	Change	Percent +/-
American	6,147,779	6,490,193	342,414	5.57%
Canadian	1,747,950	1,963,845	215,895	12.35%
Foreign	681,879	215,016	-466,863	-68.47%
	8,577,608	8,669,054	91,446	1.07%

Year to Date

Dates: 02-01-08 00:00 to 09-30-08 23:59

Tonnage	Feb 2007 to Sep 2007	Feb 2008 to Sep 2008	Change	Percent +/-
American	39,430,561	41,818,449	2,387,888	6.06%
Canadian	13,163,400	12,535,546	-627,854	-4.77%
Foreign	2,650,699	1,394,815	-1,255,884	-47.38%
	55,244,660	55,748,810	504,150	0.91%

The background of the slide is a close-up photograph of the American flag, showing the blue field with white stars and the red and white stripes. In the lower right corner, there is a small, ornate gold figurine of a castle or fortress. A dark blue rectangular box is centered over the middle of the image, containing contact information in white and yellow text.

Wayne.Schloop@us.army.mil
(313) 226-5013