

Economic Impact Risks of Climate Change to
Ports, Harbors & Marinas

Increased Slip Dredging Costs-Toledo Harbor:

(Per foot of depth)*

<u>Dock Name</u>	<u>Total Berthing(ft)</u>	<u>Slip Width Dredged(ft)</u>	<u>Cost @ \$5/CY</u>	<u>Cost @ \$10/CY</u>	<u>Cost @ \$15/CY</u>
ADM/COUNTRYMARK TOLEDO ELEVATOR WHARF.	1790	90	\$268,500.00	\$537,000.00	\$805,500.00
ANDERSONS TOLEDO EDWIN DRIVE ELEVATOR DOCK.	730	90	\$109,500.00	\$219,000.00	\$328,500.00
ANDERSONS TOLEDO KUHLMAN DRIVE TERMINAL WHARF.	1100	90	\$165,000.00	\$330,000.00	\$495,000.00
ARMS/CRISCIONE GRAIN CO. WHARF.	900	90	\$135,000.00	\$270,000.00	\$405,000.00
BP OIL CO TOLEDO REFINERY MARINE DOCK.	1108	90	\$166,200.00	\$332,400.00	\$498,600.00
CITY OF TOLEDO MOORING BASIN.	2070	90	\$310,500.00	\$621,000.00	\$931,500.00
CITY OF TOLEDO SALT WHARF.	1280	90	\$192,000.00	\$384,000.00	\$576,000.00
CITY OF TOLEDO NAVAL ARMORY WHARF.	457	90	\$68,550.00	\$137,100.00	\$205,650.00
INTERNATIONAL PARK LOWER MOORING WHARVES.	1127	90	\$169,050.00	\$338,100.00	\$507,150.00
CITY OF TOLEDO, INTERNATIONAL PARK UPPER MOORING WHARF.	2807	90	\$421,050.00	\$842,100.00	\$1,263,150.00
CLARK REFINING CO WHARF.	527	90	\$79,050.00	\$158,100.00	\$237,150.00
H HANSEN INDUSTRIES SLIP.	911	90	\$136,650.00	\$273,300.00	\$409,950.00
HARBOR LIGHT CRUISE LINES DOCK.	24	90	\$3,600.00	\$7,200.00	\$10,800.00
KUHLMAN CORP., UPPER DOCK.	340	90	\$51,000.00	\$102,000.00	\$153,000.00
KUHLMAN CORP., YARD NO. 1 DOCK.	495	90	\$74,250.00	\$148,500.00	\$222,750.00

Economic Impact Risks of Climate Change to
Ports, Harbors & Marinas

Increased Slip Dredging Costs-Toledo Harbor:

(Per foot of depth)*

<u>Dock Name</u>	<u>Total Berthing(ft)</u>	<u>Slip Width Dredged(ft)</u>	<u>Cost @ \$5/CY</u>	<u>Cost @ \$10/CY</u>	<u>Cost @ \$15/CY</u>
LAFARGE CEMENT TOLEDO TERMINAL WHARF.	1061	90	\$159,150.00	\$318,300.00	\$477,450.00
NABISCO TOLEDO FLOUR MILL WHARF.	85	90	\$12,750.00	\$25,500.00	\$38,250.00
SENECA PETROLUM CO EDISON ACME STATION SLIP.	200	90	\$30,000.00	\$60,000.00	\$90,000.00
ST. MARYS CEMENT, TOLEDO PLANT DOCK.	900	90	\$135,000.00	\$270,000.00	\$405,000.00
SUNOCO MID-AMERICA REFINING CO.; DOWNSTREAM HOCKING VALLEY PIER SLIP.	1895	90	\$284,250.00	\$568,500.00	\$852,750.00
SUNOCO MID-AMERICA REFINING CO.; UPSTREAM HOCKING VALLEY PIER SLIP.	1836	90	\$275,400.00	\$550,800.00	\$826,200.00
TOLEDO HARBOR WAREHOUSING CORP WHARF.	750	90	\$112,500.00	\$225,000.00	\$337,500.00
TOLEDO SHIP REPAIR CO.; LOWER MOORING DOCK.	1727	90	\$259,050.00	\$518,100.00	\$777,150.00
TOLEDO SHIP REPAIR CO.; SHIPYARD DOCK.	900	90	\$135,000.00	\$270,000.00	\$405,000.00
TOLEDO SHIP REPAIR CO.; SHIPYARD SLIP.	838	90	\$125,700.00	\$251,400.00	\$377,100.00
TOLEDO-LUCAS COUNTY PORT AUTH. FACILITY NO. 1 WHARF.	4196	90	\$629,400.00	\$1,258,800.00	\$1,888,200.00
U.S. COAST GUARD TOLEDO STATION WHARF.	430	90	\$64,500.00	\$129,000.00	\$193,500.00
WOHLLEB-SOCIE SLIP.	965	90	\$144,750.00	\$289,500.00	\$434,250.00
GRAND TOTALS:			\$4,717,350.00	\$9,434,700.00	\$14,152,050.00

*Assumes 1.2 factor for vessel maneuverability and connection to federal channel.