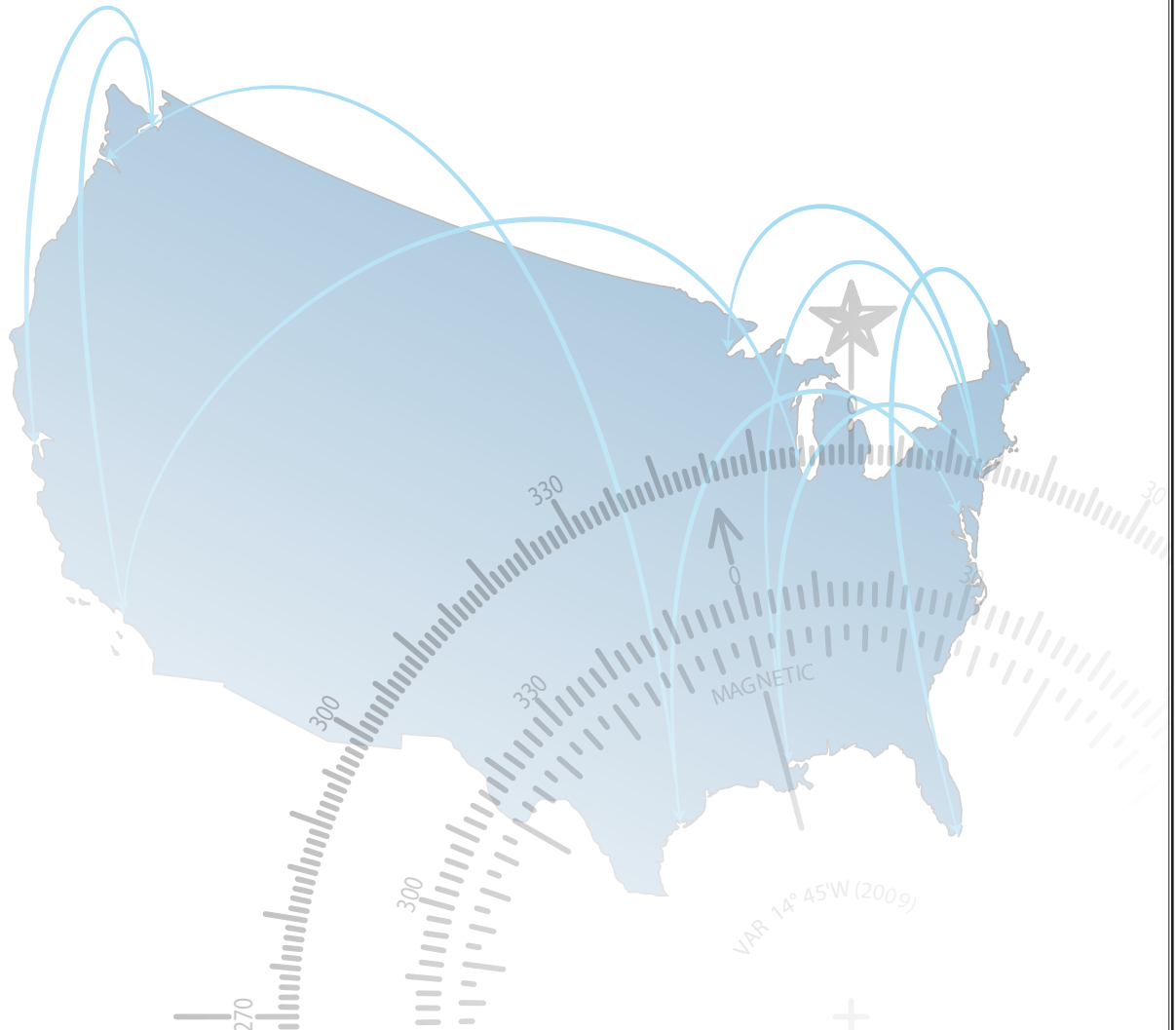


Distances Between United States Ports



2012 (12th) Edition

U.S. DEPARTMENT OF COMMERCE

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National Oceanic and Atmospheric Administration (NOAA)

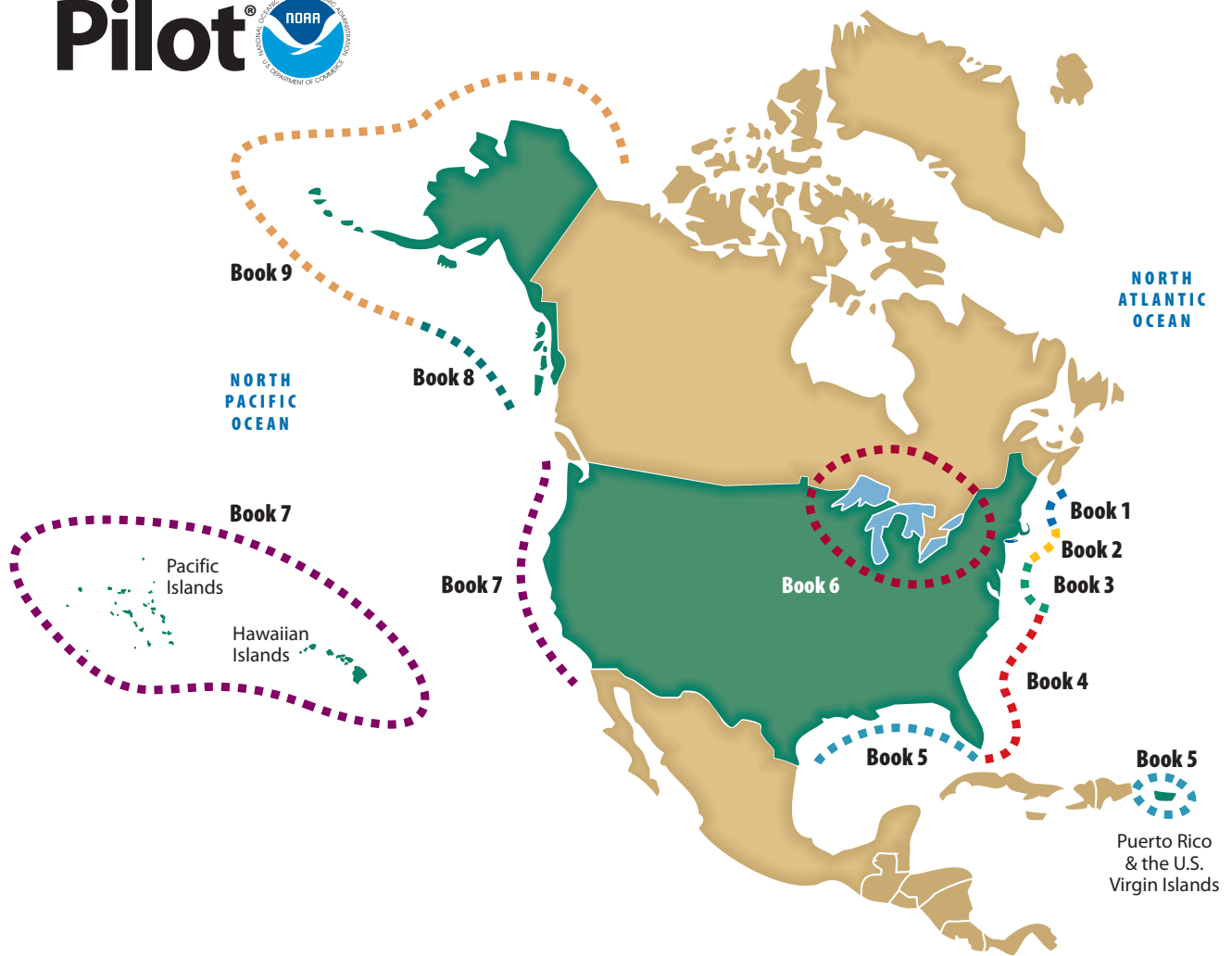
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UNITED STATES Coast Pilot®



The Coast Pilot Series

Atlantic Coast

- 1 Eastport, ME to Cape Cod, MA
- 2 Cape Cod, MA to Sandy Hook, NJ
- 3 Sandy Hook, NJ to Cape Henry, VA
- 4 Cape Henry, VA to Key West, FL
- 5 Gulf of Mexico, Puerto Rico, and Virgin Islands

Great Lakes

- 6 Great Lakes and their connecting waterways

Pacific Coast

- 7 California, Oregon, Washington, Hawaii, and Pacific Islands
- 8 Alaska: Dixon Entrance to Cape Spencer
- 9 Alaska: Cape Spencer to Beaufort Sea

Preface

Distances Between United States Ports is published by the Office of Coast Survey, National Ocean Service (NOS), National Oceanic and Atmospheric Administration (NOAA), pursuant to the Act of 6 August 1947 (33 U.S.C. 883a and b), and the Act of 22 October 1968 (44 U.S.C. 1310).

Distances Between United States Ports contains distances from a port of the United States to other ports in the United States, and from a port in the Great Lakes in the United States to Canadian ports in the Great Lakes and St. Lawrence River.

Distances Between Ports, Publication 151, is published by National Geospatial-Intelligence Agency (NGA) and distributed by NOS. NGA Pub. 151 is international in scope and lists distances from foreign port to foreign port and from foreign port to major U.S. ports. The two publications, **Distances Between United States Ports** and **Distances Between Ports**, complement each other.

This volume of **Distances Between United States Ports** cancels the 2012 (11th) Edition.

Mariners and others are urged to promptly report errors or general inquiries to <http://nauticalcharts.noaa.gov/inquiry>.

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General Information

Distances Between United States Ports contains distances from a port of the United States to other ports in the United States, and from a port in the Great Lakes in the United States to Canadian Ports in the Great Lakes and St Lawrence River. These distances are measured along navigable tracklines.

General

Departure and arrival geographic coordinates, where listed, are for a centrally located pier inside the port. Distances along the coast are given in nautical miles. Distances in tables of the Mississippi River System, the Great Lakes, and other inland waters are in statute miles.

International nautical mile

The nautical mile is a special unit employed for marine and aerial navigation to express distance. The International nautical mile is exactly 1,852 meters in length (1,852 meters = 6,076.11549 feet). Each distance between the two ports concerned is along the shortest route that safe navigation permits. The navigator must make his own adjustments for weather or prevailing currents.

Junction Points

These are positions where two or more routes converge; they are shown in CAPITAL LETTERS in the tables. Distances between ports listed in different tables can be obtained by adding the respective distances to the junction points. Where a port is listed in more than one table, additional combinations of distances can also be obtained by using the port as a common reference point. (See examples that follow.)

Foreign Ports

Distances Between Ports, Pub. 151, is published by the National Geospatial-Intelligence Agency (NGA) and distributed by the National Ocean Service. NGA Pub 151 is International in scope and lists distances from foreign port to foreign port, and from foreign port to major United States ports. The two publications, *Distances Between United States Ports* and *Distances Between Ports*, complement each other.

Examples

The following examples will illustrate the use of the tables. The index will show in which table the ports are listed.

Ports in the same table

Example 1: Find the distance from New York, NY to Charleston, SC.

In the *Atlantic Ocean Distances* table, find New York, NY, in the list of cities along the left edge of the table, and Charleston, SC, in the list of cities along the top of the table. The intersection of the row and column will contain the distance (630 miles) between these two ports.

Use of junction and common reference points

Example 2: Find the distance from Bridgeport, CT, to Albany, NY.

Bridgeport to New York	52
New York to Albany	126
Bridgeport to Albany	178

Example 3: Find the distance from New York, NY, to Miami, FL, via the Intracoastal Waterway

New York to Chesapeake and Delaware Canal east entrance	190
East entrance of Chesapeake and Delaware Canal to Norfolk, VA	209
Norfolk to Miami	947
New York to Miami	1,346

Alternate Routes

Example 4: Find the distance from Portland, ME, to New York, NY, by two routes

Outside, via Nantucket Shoals	
Portland to New York	426
Via Cape Cod Canal and Long Island Sound	
Portland to Cape Cod Canal east entrance	118
Cape Cod Canal E entrance to New York	182
Portland to New York	300

Example 5: Find the distance from Boston, MA, to Baltimore, MD, by two routes

Outside, via Nantucket Shoals and Chesapeake Bay entrance	
Boston to Baltimore	694
Via Cape Cod Canal and Chesapeake and Delaware Canal	
Boston to Cape Cod Canal east entrance	52
Cape Cod Canal east entrance to Montauk Point, NY	76
Montauk Point to Chesapeake and Delaware Canal east entrance	263
East entrance of Chesapeake and Delaware Canal to Baltimore	62
Boston to Baltimore	453

Harbor Entrances

Example 6: Find the distance from San Francisco entrance buoy, CA, to Coos Bay entrance buoy, OR

San Francisco to Coos Bay (city)	396
San Francisco entrance buoy to San Francisco, 15 miles, plus Coos Bay entrance buoy to Coos Bay (city), 13 miles	28
San Francisco entrance buoy to Coos Bay entrance buoy	368

Foreign Ports

Example 7: Find the distance from Beaumont, TX to Lisbon, Portugal

Beaumont, TX, to Straits of Florida	726
Straits of Florida to Lisbon, Portugal (Pub. 151)	3,831
Beaumont to Lisbon, Portugal	4,557

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4 • Distances Between United States Ports

Atlantic Ocean Distances – Montreal, Canada to the Panama Canal (nautical miles)																												
	Panama Canal (Pacific)	Panama Canal (Atlantic)	Yucatan Channel	San Juan, PR	Corpus Christi, TX	Galveston, TX	Port Arthur, TX	New Orleans, LA (via SW Pass)	Mobile, AL	Pensacola, FL	Tampa, FL	Straits of Florida	Key West, FL	Jacksonville, FL	Savannah, GA	Charleston, SC	Wilmington, NC	Diamond Shoals	Norfolk, VA	Chesapeake Bay (entrance)	Baltimore, MD	Philadelphia, PA	New York, NY	Nantucket Shoals	Boston, MA	Portland, ME	Gut of Canso (Lock)	Cabot Strait
Montreal, Quebec* (St. Lambert Lock)	3249	3203	2730	2445	3347	3242	3240	3080	3011	2977	2772	2540	2479	2172	2088	2014	1948	1729	1716	1689	1838	1682	1534	1311	1318	1276	717	681
Cabot Strait 45°07.0'N., 60°17.0'W.	2568	2522	2049	1764	2666	2561	2559	2399	2330	2296	2091	1859	1798	1491	1407	1333	1267	1048	1035	1008	1157	1001	853	630	637	595	120	-
Gut of Canso (Lock) 45°39.0'N., 61°25.0'W.	2465	2419	1937	1669	2558	2453	2451	2291	2222	2188	1983	1751	1690	1379	1295	1221	1155	936	923	896	1046	890	742	519	526	484	-	-
Portland, ME 43°39.4'N., 70°14.7'W.	2235	2189	1629	1531	2255	2150	2148	1988	1919	1885	1680	1448	1387	1071	987	913	847	628	611	584	734	575	426	203	100	-	-	-
Boston, MA 42°22.0'N., 71°03.0'W.	2195	2149	1589	1486	2215	2110	2108	1948	1879	1845	1640	1408	1347	1031	947	873	807	588	571	544	694	535	386	163	-	-	-	-
Nantucket Shoals 40°30.0'N., 69°25.0'W.	2032	1986	1426	1334	2052	1947	1945	1785	1716	1682	1477	1245	1184	868	784	710	644	425	408	381	531	372	223	-	-	-	-	-
New York, NY 40°42.0'N., 74°01.0'W.	2018	1972	1346	1399	1977	1872	1870	1710	1641	1607	1402	1170	1109	788	704	630	564	345	294	267	417	240	-	-	-	-	-	-
Philadelphia, PA 39°56.8'N., 75°08.3'W.	2001	1955	1323	1395	1954	1849	1847	1687	1618	1584	1379	1147	1086	765	681	607	541	322	269	242	392	-	-	-	-	-	-	-
Baltimore, MD 39°16.0'N., 76°34.5'W.	1950	1904	1268	1375	1899	1794	1792	1632	1563	1529	1324	1092	1031	710	626	552	486	267	173	150	-	-	-	-	-	-	-	-
Chesapeake Bay (entrance) 36°56.3'N., 75°58.6'W.	1800	1754	1118	1225	1749	1644	1642	1482	1413	1379	1174	942	881	560	476	402	336	117	27	-	-	-	-	-	-	-	-	-
Norfolk, VA 36°50.9'N., 76°17.9'W.	1827	1781	1145	1252	1776	1671	1669	1509	1440	1406	1201	969	908	587	503	429	363	144	-	-	-	-	-	-	-	-	-	-
Diamond Shoals 35°08.0'N., 75°15.0'W.	1683	1637	1001	1114	1632	1527	1525	1365	1296	1262	1057	825	764	443	359	285	219	-	-	-	-	-	-	-	-	-	-	-
Wilmington, NC 34°14.0'N., 77°57.0'W.	1655	1609	904	1153	1535	1430	1428	1268	1199	1165	960	728	667	315	227	151	-	-	-	-	-	-	-	-	-	-	-	-
Charleston, SC 32°47.2'N., 79°55.2'W.	1609	1563	809	1138	1440	1335	1333	1173	1104	1070	865	633	572	197	102	-	-	-	-	-	-	-	-	-	-	-	-	-
Savannah, GA 32°05.0'N., 81°05.7'W.	1610	1564	780	1156	1411	1306	1304	1144	1075	1041	836	604	543	145	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jacksonville, FL 30°19.2'N., 81°39.0'W.	1559	1513	699	1121	1330	1225	1223	1063	994	960	755	523	462	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key West, FL 24°33.7'N., 81°48.5'W.	1106	1060	251	966	880	775	773	613	544	510	305	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Straits of Florida 24°25.0'N., 83°00.0'W.	1047	1001	192	1017	807	702	700	540	471	437	232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tampa, FL 27°56.5'N., 82°26.7'W.	1259	1213	404	1249	810	703	697	502	389	347	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pensacola, FL 30°24.0'N., 87°13.0'W.	1388	1342	533	1448	618	509	504	288	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mobile, AL 30°42.5'N., 88°02.5'W.	1417	1371	562	1448	605	496	491	269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Orleans, LA (via SW Pass) 29°57.0'N., 90°03.7'W.	1442	1396	587	1557	555	446	441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Arthur, TX 29°49.5'N., 93°57.6'W.	1533	1487	691	1717	249	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Galveston, TX 29°19.0'N., 94°47.0'W.	1539	1493	696	1719	207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corpus Christi, TX 27°48.8'N., 97°24.0'W.	1595	1549	769	1824	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Juan, PR 18°27.8'N., 66°06.7'W.	1036	990	1111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yucatan Channel 21°50.0'N., 85°03.0'W.	855	809	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Panama Canal (Atlantic) 9°23.5'N., 79°55.3'W.	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Panama Canal (Pacific) 8°53.0'N., 79°31.0'W.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

All tabular distances are by outside routes which can be used by the deepest-draft vessel that the listed ports can accommodate. Lighter-draft vessels can save considerable mileage by transiting Canso Lock (Canada), the Cape Cod Canal (Massachusetts), and the Chesapeake and Delaware Canal (Delaware-Maryland); see the detailed tables. Gulf of Mexico distances are through the Shipping Safety Fairways.

*For Quebec City, Canada – subtract 139 miles

Gulf of Maine Distances – Calais, Maine to Cape Cod, Massachusetts (nautical miles)																																
	Nantucket Shoals	Provincetown, MA	Cape Cod Canal	Plymouth, MA	Scituate, MA	Boston, MA	Lynn, MA	Marblehead, MA	Salem, MA	Gloucester, MA	Rockport, MA	Newburyport, MA	Portsmouth, NH	York Harbor, ME	Portland, ME	Augusta, ME	Bath, ME	Wiscasset, ME	Boothbay Harbor, ME	Bangor, ME	Bucksport, ME	Searsport, ME	Rockland, ME	Stonington, ME	Buck Harbor, ME	Bar Harbor, ME	Jonesport, ME	Machiasport, ME	Lubec, ME	Eastport, ME	Calais, ME	
Calais, ME 45°11.4'N, 67°16.7'W	312	258	270	268	259	265	261	251	252	245	236	241	230	222	198	214	187	189	168	176	159	152	145	118	125	98	66	61	26	24	-	
Eastport, ME 44°54.3'N., 66°59.0'W.	297	243	255	253	244	250	246	236	237	230	221	226	216	208	183	200	173	175	153	162	145	137	130	102	109	83	42	46	3	-	-	
Lubec, ME 44°51.7'N., 66°59.0'W.	286	232	244	242	233	239	235	225	226	219	210	215	204	196	172	188	161	162	142	150	133	126	118	91	98	72	40	35	-	-	-	
Machiasport, ME 44°41.9'N., 67°23.6'W.	271	214	226	224	215	221	217	207	208	200	192	197	186	178	153	169	142	144	123	132	115	107	100	73	80	52	20	-	-	-	-	
Jonesport, ME 44°31.6'N., 67°37.0'W.	257	197	209	206	196	203	198	188	189	182	173	178	167	159	135	149	122	124	105	113	96	89	82	53	60	34	-	-	-	-	-	
Bar Harbor, ME 44°23.5'N., 68°12.0'W.	243	179	190	188	177	184	179	169	170	163	154	159	148	140	115	130	103	105	86	94	77	70	62	33	39	-	-	-	-	-	-	
Buck Harbor, ME 44°20.3'N., 68°44.2'W.	237	165	176	174	159	162	157	148	149	138	131	137	123	114	85	94	67	68	57	39	22	16	22	16	-	-	-	-	-	-	-	-
Stonington, ME 44°09.2'N., 68°39.8'W.	226	155	165	163	155	158	153	143	145	133	126	132	119	109	81	90	63	64	53	47	30	24	20	-	-	-	-	-	-	-	-	-
Rockland, ME 44°06.0'N., 69°05.5'W.	223	148	160	155	142	147	142	132	133	126	115	118	107	99	71	86	59	62	42	50	33	23	-	-	-	-	-	-	-	-	-	-
Searsport, ME 44°27.0'N., 68°54.0'W.	242	166	178	174	161	166	161	151	152	145	134	137	127	118	90	105	78	80	61	30	13	-	-	-	-	-	-	-	-	-	-	-
Bucksport, ME 44°34.3'N., 68°48.0'W.	250	175	187	182	169	174	169	159	160	153	143	145	135	126	98	113	86	89	70	17	-	-	-	-	-	-	-	-	-	-	-	-
Bangor, ME 44°47.7'N., 68°46.3'W.	267	192	204	199	186	191	186	176	177	170	160	162	151	144	115	131	104	106	87	-	-	-	-	-	-	-	-	-	-	-	-	-
Boothbay Harbor, ME 43°51.0'N., 69°37.6'W.	207	119	130	125	112	115	110	101	102	95	84	86	74	64	36	50	23	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wiscasset, ME 43°59.5'N., 69°40.1'W.	217	127	139	133	120	123	118	109	110	103	92	94	82	72	44	57	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bath, ME 43°54.5'N., 69°48.7'W.	213	123	137	129	115	119	114	104	105	98	88	89	78	67	40	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Augusta, ME 44°18.9'N., 69°46.4'W.	240	150	164	156	142	146	141	131	132	125	115	116	104	94	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Portland, ME 43°39.4'N., 70°14.7'W.	203	107	118	112	97	100	95	86	87	79	66	67	56	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
York Harbor, ME 43°07.9'N., 70°38.6'W.	182	75	83	75	60	63	58	48	49	42	29	25	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Portsmouth, NH 43°04.6'N., 70°44.5'W.	180	73	81	73	58	61	56	46	47	40	27	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Newburyport, MA 42°48.8'N., 70°52.4'W.	171	63	72	64	48	51	47	37	38	31	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rockport, MA 42°40.0'N., 70°36.5'W.	157	49	58	50	34	37	33	23	24	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gloucester, MA 42°36.6'N., 70°39.6'W.	155	45	52	43	26	26	22	11	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Salem, MA 42°31.3'N., 70°52.5'W.	159	49	53	45	24	27	18	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marblehead, MA 42°30.2'N., 70°50.7'W.	156	45	48	39	22	19	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lynn, MA 42°27.3'N., 70°56.6'W.	159	47	48	40	22	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boston, MA 42°22.0'N., 71°03.0'W.	163	49	52	40	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scituate, MA 42°11.9'N., 70°43.5'W.	143	29	29	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plymouth, MA 41°57.6'N., 70°39.8'W.	144	26	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cape Cod Canal 41°46.8'N., 70°29.0'W.	144	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Provincetown, MA 42°02.5'N., 70°10.0'W.	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nantucket Shoals 40°30.0'N., 69°25.0'W.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Each distance is by the shortest route that safe navigation permits between the two ports concerned. Vessels standing along the coast must make their own adjustments for non-direct routes. For example the table shows a distance of 214 miles by direct route from Machiasport to Provincetown; the distance via Matinicus Rock and Cape Ann is 235 miles. Distances from Eastport to Machiasport and other ports southward are via the deep Head Harbour Passage, which is 8 miles farther than via the shallower Lubec Channel.

Inside Route Distances – South Side of Long Island Sound Greenport, New York to East Rockaway Inlet, New York (nautical miles)																					
	* Manasquan Inlet, NJ	* New York (The Battery)	* Rockaway Point	East Rockaway Inlet	Long Beach	Freeport	Jones Inlet	Jones Beach	Amityville	Babylon	Fire Island Inlet	Bay Shore	Patchogue	Bellport	Moriches Inlet	Westhampton Beach	Shinnecock Inlet	Shinnecock Canal (north end)	Riverside	Sag Harbor	Greenport
Greenport 41°06.0'N., 72°21.5'W.	116	107	94	85	80	77	76	72	66	61	62	57	48	42	34	28	21	16	21	11	-
Sag Harbor 41°00.2'N., 72°17.7'W.	117	108	95	86	81	78	77	73	67	62	63	58	49	43	35	29	22	17	22	-	
Riverside 40°55.0'N., 72°39.4'W.	108	99	86	77	72	69	68	64	58	53	54	49	40	34	26	20	13	8	-		
Shinnecock Canal 40°53.9'N., 72°30.3'W.	100	91	78	69	64	61	60	56	50	45	46	41	32	26	18	12	5	-			
Shinnecock Inlet 40°50.3'N., 72°28.6'W.	97	88	75	66	61	58	58	54	47	42	44	39	29	23	15	9	-				
Westhampton Beach 40°48.2'N., 72°38.4'W.	89	80	67	58	53	49	49	45	39	34	35	30	21	15	7	-					
Moriches Inlet 40°45.8'N., 72°45.3'W.	85	76	63	54	49	46	45	42	35	30	32	27	17	11	-						
Bellport 40°45.1'N., 72°56.0'W	75	66	53	44	38	35	35	31	24	19	21	16	6	-							
Patchogue 40°45.5'N., 73°01.2'W.	72	63	50	41	36	32	32	28	22	17	18	13	-								
Bay Shore 40°42.8'N., 73°14.2'W.	60	51	38	29	24	21	21	17	10	5	9	-									
Fire Island Inlet 40°37.8'N., 73°18.6'W.	60	51	38	29	24	21	20	16	12	8	-										
Babylon 40°41.2'N., 73°18.9'W.	57	48	35	26	21	18	17	13	6	-											
Amityville 40°39.6'N., 73°24.8'W.	51	42	29	20	15	12	11	7	-												
Jones Beach 40°36.2'N., 73°30.8'W.	44	35	22	13	8	4	4	-													
Jones Inlet 40°34.4'N., 73°34.9'W.	41	32	19	10	5	4	-														
Freeport 40°37.6'N., 73°34.9'W.	42	33	20	11	6	-															
Long Beach 40°35.7'N., 73°39.4'W.	36	27	14	5	-																
East Rockaway 40°34.9'N., 73°45.4'W.	31	22	9	-																	
* Rockaway Point 40°32.4'N., 73°56.5'W.	27	13	-																		
* New York (The Battery) 40°42.0'N., 74°01.0'W.	40	-																			
* Manasquan Inlet, New Jersey 40°06.1'N., 74°01.9'W.	-																				

* Outside distances westward of East Rockaway Inlet

Coastwise Distances – New York, NY to Chesapeake Bay entrance, VA (nautical miles)																				
	Chesapeake Bay Entrance	Chincoteague, VA	Ocean City, MD	Indian River Inlet, DE	Trenton, NJ	Former U.S. Steel Basin, PA	Philadelphia, PA	Chester, PA	Marcus Hook, PA	Wilmington, DE	C & D Canal, East Entrance	Harbor of Refuge, DE	Delaware Bay Entrance	Cape May Harbor, NJ	Atlantic City, NJ	Barnegat Inlet, NJ	Manasquan Inlet, NJ	New York, NY	Montauk Point, NY	Nantucket Shoals
Nantucket Shoals 40°30.0'N., 69°25.0'W.	381	328	295	285	400	395	372	356	353	347	336	285	285	271	242	221	212	223	113	-
Montauk Point, NY 41°01.7'N., 71°47.3'W.	322	262	227	209	327	322	299	283	280	274	263	212	212	192	157	131	117	122	-	-
New York, NY 40°42.0'N., 74°01.0'W.	267	201	161	145	268	263	240	224	221	215	204	153	153	128	94	63	40	-	-	-
Manasquan Inlet, NJ 40°06.9'N., 72°30.3'W.	291	161	121	105	212	207	184	169	165	159	148	98	97	85	52	22	-	-	-	-
Barnegat Inlet, NJ 39°46.0'N., 74°06.3'W.	199	141	101	86	193	188	165	150	146	140	129	79	78	65	32	-	-	-	-	-
Atlantic City, NJ 39°22.6'N., 74°24.9'W.	171	113	73	57	164	159	136	121	117	111	100	50	49	37	-	-	-	-	-	-
Cape May Harbor, NJ 38°57.1'N., 74°52.6'W.	141	80	40	24	131	126	103	88	84	78	67	17	16	-	-	-	-	-	-	-
Delaware Bay Entrance 38°50.5'N., 75°03.3'W.	155	72	32	15	115	110	87	72	68	62	51	2	-	-	-	-	-	-	-	-
Harbor of Refuge, DE 38°49.0'N., 75°05.2'W.	155	71	31	14	116	111	88	73	69	63	52	-	-	-	-	-	-	-	-	-
C & D Canal, East Entrance 39°33.8'N., 75°32.8'W.	206	123	83	66	64	59	36	21	17	11	-	-	-	-	-	-	-	-	-	-
Wilmington, DE 39°43.2'N., 75°31.5'W.	218	134	95	77	54	49	26	11	8	-	-	-	-	-	-	-	-	-	-	-
Marcus Hook, PA 39°48.2'N., 75°25.2'W.	224	140	101	83	46	41	18	3	-	-	-	-	-	-	-	-	-	-	-	-
Chester, PA 39°50.0'N., 75°22.0'W.	227	144	104	86	43	38	15	-	-	-	-	-	-	-	-	-	-	-	-	-
Philadelphia, PA 39°56.8'N., 75°08.3'W.	242	159	119	101	28	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Former U.S. Steel Basin, PA 40°08.2'N., 74°45.3'W.	265	182	142	124	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trenton, NJ 40°37.6'N., 73°34.9'W.	270	187	147	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indian River Inlet, DE 38°36.5'N., 75°03.6'W.	118	60	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ocean City, MD 38°19.6'N., 75°05.6'W.	100	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chincoteague, VA 37°56.1'N., 75°22.8'W.	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chesapeake Bay Entrance 36°56.3'N., 75°58.6'W.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Five Fathom Bank Lighted Buoy F (38°46.8'N., 74°34.5'W.) to Philadelphia, 111 miles
 Delaware Lighted Buoy D (38°27.3'N., 74°41.8'W.) to Philadelphia, 116 miles
 Chesapeake Light (36°54.3'N., 75°42.8'W.) to Norfolk, 42 miles; to Baltimore, 165 miles

Distances by Intracoastal Waterway – Manasquan Inlet, NJ to Cape May Canal, NJ (nautical miles)																				
	C & D Canal (east entrance) Cape May Canal (west entrance) Cape May Harbor			Wildwood	Stone Harbor	Avalon	Sea Isle City	Ocean City	Mays Landing	Atlantic City	Beach Haven	Barnegat Inlet	Forked River (town)	Seaside Park	Toms River (town)	Mantoloking	Bay Head	Manasquan Inlet	Shark River Inlet*	New York, NY (The Battery)
New York, NY (The Battery) 40°42.0'N., 74°01.0'W.	190	142	138	133	128	123	119	108	124	97	79	66	63	54	58	46	44	40	34	-
Shark River Inlet* 40°11.2'N., 74°00.5'W.	156	108	103	99	94	89	85	74	90	62	45	32	29	20	23	11	9	6	-	-
Manasquan Inlet 40°06.1'N., 74°01.9'W.	150	102	98	93	88	83	79	68	84	57	39	26	23	14	18	6	4	-	-	-
Bay Head 40°03.8'N., 74°03.1'W.	146	98	94	89	85	79	76	64	80	53	35	22	19	10	14	2	-	-	-	-
Mantoloking 40°02.2'N., 74°03.4'W.	144	96	92	88	83	77	74	63	79	51	33	20	17	9	12	-	-	-	-	-
Toms River (town) 39°56.9'N., 74°11.8'W.	142	94	90	86	81	75	72	60	77	49	31	18	15	7	-	-	-	-	-	-
Seaside Park 39°55.3'N., 74°05.0'W.	137	89	85	80	75	70	66	55	71	44	26	13	10	-	-	-	-	-	-	-
Forked River (town) 39°50.1'N., 74°11.7'W.	132	84	80	75	70	65	61	50	66	39	21	8	-	-	-	-	-	-	-	-
Barnegat Inlet 39°46.0'N., 74°06.3'W.	131	83	79	74	69	64	60	49	65	38	20	-	-	-	-	-	-	-	-	-
Beach Haven 39°34.0'N., 74°14.8'W.	111	63	59	54	49	44	40	29	45	18	-	-	-	-	-	-	-	-	-	-
Atlantic City 39°22.6'N., 74°24.9'W.	95	47	43	39	34	28	25	13	30	-	-	-	-	-	-	-	-	-	-	-
Mays Landing 39°26.9'N., 74°43.4'W.	100	52	47	43	38	33	29	18	-	-	-	-	-	-	-	-	-	-	-	-
Ocean City 39°17.3'N., 74°34.4'W.	82	34	30	25	20	15	11	-	-	-	-	-	-	-	-	-	-	-	-	-
Sea Isle City 39°09.4'N., 74°42.0'W.	71	23	18	14	9	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avalon 39°06.6'N., 74°44.0'W.	67	19	15	10	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stone Harbor 39°03.4'N., 74°46.0'W.	62	14	9	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wildwood 39°00.5'N., 74°49.8'W.	57	9	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cape May Harbor 38°57.1'N., 74°52.6'W.	52	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cape May Canal (west entrance) 38°58.0'N., 74°58.0'W.	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C & D Canal (east entrance) 39°33.8'N., 75°32.8'W.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*Outside distances between New York and Manasquan Inlet

14 • Distances Between United States Ports

Coastwise Distances – Norfolk, Virginia to Key West, Florida (nautical miles)																																																												
	Straits of Florida			Port Everglades, FL			Port of Palm Beach, FL			Stuart, FL			Fort Pierce, FL			Cape Canaveral, FL			St. Augustine, FL			Jacksonville, FL			Fernandina Beach, FL			Brunswick, GA			Savannah, GA			Port Royal, SC			Charleston, SC			Georgetown, SC			Wilmington, NC			Southport, NC			Morehead City, NC			Diamond Shoals, NC			Norfolk, VA			Chesapeake Bay Entrance		
Chesapeake Bay Entrance 36°56.3'N., 75°58.6'W.	942	881	743	720	678	666	647	612	557	560	533	527	476	465	402	365	336	315	222	117	27	-																																						
Norfolk, VA 46°50.9'N., 76°17.9'W.	969	908	770	747	705	693	674	639	584	587	560	554	503	492	429	392	363	342	249	144	-																																							
Diamond Shoals, NC 35°08.0'N., 75°15.0'W.	825	764	626	603	561	549	530	495	440	443	416	410	359	348	285	248	219	198	105	-	-																																							
Morehead City, NC 34°42.8'N., 76°41.8'W.	772	711	573	550	509	497	476	438	377	379	352	346	295	284	220	184	154	133	-																																									
Southport, NC 33°54.8'N., 78°01.0'W.	707	646	508	485	443	423	407	367	296	294	265	260	206	191	130	87	21	-																																										
Wilmington, NC 34°14.0'N., 77°57.0'W.	728	667	529	506	464	444	428	388	317	315	286	281	227	212	151	108	-	-																																										
Georgetown, SC 33°21.4'N., 79°16.9'W.	671	610	472	449	407	391	368	324	246	247	216	210	154	141	79	-																																												
Charleston, SC 32°47.2'N., 79°55.2'W.	633	572	434	411	369	353	329	283	199	197	166	156	102	90	-																																													
Port Royal, SC 32°22.3'N., 80°41.6'W.	605	544	406	383	341	324	298	251	157	152	120	110	51	-	-																																													
Savannah, GA 32°05.0'N., 81°05.7'W.	604	543	405	382	340	324	298	251	152	145	115	104	-																																															
Brunswick, GA 31°08.0'N., 81°29.7'W.	549	488	350	327	285	268	242	195	90	82	50	-																																																
Fernandina Beach, FL 30°40.3'N., 81°28.0'W.	526	465	327	304	262	242	216	169	61	53	-	-																																																
Jacksonville, FL 30°19.2'N., 81°39.0'W.	523	462	324	301	256	240	214	167	56	-	-	-																																																
St. Augustine, FL 29°53.6'N., 81°18.5'W.	475	414	276	253	211	192	167	120	-																																																			
Cape Canaveral, FL 28°24.6'N., 80°36.5'W.	374	313	175	152	110	91	69	-	-																																																			
Fort Pierce, FL 27°27.5'N., 80°19.3'W.	316	255	117	94	52	32	-																																																					
Stuart, FL 27°12.2'N., 80°15.6'W.	300	239	101	78	36	-																																																						
Port of Palm Beach, FL 26°46.1'N., 80°03.0'W.	267	207	68	46	-	-																																																						
Port Everglades, FL 26°05.6'N., 80°07.0'W.	226	165	27	-	-	-																																																						
Miami, FL 25°47.0'N., 80°11.0'W.	211	151	-																																																									
Key West, FL 24°33.7'N., 81°48.5'W.	73	-	-																																																									
Straits of Florida 24°25.0'N., 83°00.0'W.	-	-	-																																																									

Inside Route Distances - Norfolk, Virginia to Fernandina Beach, Florida (nautical and statute miles)																													
	Fernandina Beach, FL	Brunswick, GA	Thunderbolt, GA	Savannah, GA	Beaufort, SC	Charleston, SC	McClellanville, SC	Georgetown, SC	Bucksport, SC	Little River, SC	Southport, NC	Wilmington, NC	Wrightsville, NC	Jacksonville, NC	Swansboro, NC	Morehead City, NC	Beaufort, NC	New Bern, NC	Oriental, NC	Ocracoke, NC	Washington, NC	Belhaven, NC	Manteo, NC	Plymouth, NC	Edenton, NC	Columbia, NC	Hertford, NC	Elizabeth City, NC	Norfolk, VA
Norfolk, VA	623	595	507	508	466	406	374	352	328	299	268	273	248	231	20	178	177	180	160	131	156	120	80	105	98	89	89	77*	•
Elizabeth City, NC	581	553	465	466	424	364	332	311	286	257	226	231	204	189	158	136	134	139	118	91	114	79	39	56	48	39	39	•	89
Hertford, NC	582	554	466	467	425	366	333	311	287	259	227	232	205	190	160	137	137	139	119	97	115	79	46	42	35	26	•	45	102
Columbia, NC	581	553	465	466	424	364	332	310	286	257	226	231	204	189	158	136	136	138	118	96	114	78	45	33	25	•	30	45	102
Edenton, NC	589	562	474	475	432	373	340	318	294	266	235	240	213	197	166	145	144	146	126	104	123	87	54	14	•	29	40	55	113
Plymouth, NC	596	570	482	483	441	381	349	327	303	274	243	248	221	206	175	152	152	155	134	113	130	95	61	•	16	38	48	64	121
Manteo, NC	555	527	439	440	397	337	306	283	260	232	201	205	178	162	132	110	110	110	91	61	105	70	•	70	62	52	53	45	92
Belhaven, NC	506	479	391	392	349	290	257	235	211	183	152	157	130	114	83	61	61	63	43	43	39	•	81	109	100	90	91	91	138
Washington, NC	519	491	403	404	362	302	270	248	224	195	164	169	142	127	96	74	74	76	56	60	•	45	121	150	142	131	132	131	180
Ocracoke, NC	504	477	389	390	347	288	255	233	209	181	150	155	128	112	81	59	59	62	41	•	69	49	70	130	120	110	112	105	151
Oriental, NC	467	440	352	353	310	251	218	196	172	144	113	118	91	75	44	22	22	23	•	47	64	49	105	154	145	136	137	136	184
New Bern, NC	484	456	368	369	327	267	235	213	188	160	129	134	107	91	60	38	38	•	26	71	87	72	127	178	168	159	160	160	207
Beaufort, NC	447	420	332	333	290	231	199	177	152	124	93	97	70	55	24	3	•	44	25	68	85	70	127	175	166	157	158	154	204
Morehead City, NC	445	418	330	331	288	229	196	174	150	122	91	96	69	53	22	•	3	44	25	68	85	70	127	175	167	157	158	157	205
Swansboro, NC	423	396	307	309	266	207	174	152	128	100	69	73	46	31	•	25	28	69	51	93	110	96	152	201	191	182	184	182	230
Jacksonville, NC	425	397	309	310	268	208	176	154	129	101	70	75	48	•	36	61	63	105	86	129	146	131	186	237	227	217	219	217	266
Wrightsville, NC	377	349	261	262	220	160	128	106	82	53	22	27	•	55	53	79	81	123	105	147	163	150	205	254	245	235	236	235	283
Wilmington, NC	376	349	260	261	219	159	127	105	81	52	21	•	31	86	84	110	112	154	136	178	194	181	236	285	276	266	267	266	314
Southport, NC	355	327	239	240	198	138	106	84	60	31	•	24	25	81	79	105	107	148	130	173	189	175	231	280	270	260	261	260	308
Little River, SC	324	296	208	209	167	107	75	53	28	•	36	60	61	116	115	140	143	184	166	208	224	211	267	315	306	296	298	296	344
Bucksport, SC	295	268	179	181	138	79	46	24	•	32	69	93	94	148	147	173	175	216	198	241	258	243	299	349	338	329	330	329	377
Georgetown, SC	273	246	157	159	116	56	24	•	28	61	97	121	122	177	175	200	203	245	226	268	285	270	326	376	366	357	358	358	405
McClellanville, SC	249	222	133	135	92	32	•	28	53	86	122	146	147	203	200	226	229	270	251	293	311	296	352	402	391	382	383	382	430
Charleston, SC	218	191	103	104	60	•	37	64	91	123	159	183	184	239	238	264	266	307	289	331	348	334	388	438	429	419	421	419	467
Beaufort, SC	157	130	41	43	•	69	106	133	159	192	228	252	253	308	306	331	334	376	357	399	417	402	457	508	497	488	489	488	536
Savannah, GA	130	102	14	•	49	120	155	183	208	241	276	300	302	357	356	381	383	425	406	449	465	451	506	556	547	536	537	536	585
Thunderbolt, GA	116	88	•	16	47	119	153	181	206	239	275	299	300	356	353	380	382	423	405	448	464	450	505	555	545	535	536	535	583
Brunswick, GA	35	•	101	117	150	220	255	283	308	341	376	402	402	457	456	481	483	525	506	549	565	551	606	656	647	636	638	636	685
Fernandina Beach, FL	•	40	133	150	181	251	287	314	339	373	409	433	434	489	487	512	514	557	537	580	597	582	639	688	678	669	670	669	717

*51 statute miles/44 nautical miles via the Dismal Swamp Canal

Inside Route Distances - Fernandina Beach, Florida to Key West, Florida (nautical and statute miles)																													
	Key West	Flamingo	Marathon	Matecumbe Harbor	Tavernier	Miami	Port Everglades	Fort Lauderdale	Port of Palm Beach	Jupiter	Fort Myers	Moore Haven	Clewiston	Port Mayaca	Stuart	Salerno	Fort Pierce	Vero Beach	Melbourne	Eau Gallie	Cocoa	Titusville	New Smyrna Beach	Daytona Beach	Marineland	St. Augustine	Jacksonville	Fernandina Beach	Norfolk, VA
Norfolk, VA	1061	1050	1045	1017	999	947	927	925	885	873	975	926	915	892	865	860	839	827	798	795	780	764	735	722	692	676	659	623	•
Fernandina Beach	458	427	422	394	378	324	304	303	262	251	353	303	292	269	242	237	216	204	175	172	157	141	113	99	69	53	36	•	717
Jacksonville	454	423	418	390	374	320	300	299	258	247	349	299	288	265	238	233	212	200	171	168	153	137	108	95	65	49	•	41	758
St. Augustine	405	374	369	341	324	271	251	249	209	197	299	250	239	216	189	184	163	151	122	119	104	88	59	46	16	•	56	60	778
Marineland	389	358	353	325	309	255	235	234	193	182	284	235	223	200	173	169	148	136	106	103	89	72	44	30	•	18	75	79	796
Daytona Beach	359	328	323	295	279	225	205	204	163	152	254	204	193	170	143	138	117	105	76	73	58	42	14	•	35	53	109	114	831
New Smyrna Beach	345	315	309	282	265	211	191	190	150	18	240	191	180	157	130	125	104	92	63	59	45	28	•	16	51	68	124	130	846
Titusville	317	286	281	253	237	183	163	162	121	110	212	163	151	128	101	97	76	64	34	31	17	•	32	48	83	101	158	162	879
Cocoa	301	270	264	237	220	166	146	145	105	93	195	146	135	112	85	80	59	47	18	14	•	20	52	67	102	120	176	181	898
Eau Gallie	286	255	250	223	206	152	132	131	90	79	181	132	120	97	70	66	45	33	3	•	16	36	68	84	119	137	193	198	915
Melbourne	283	252	247	219	203	149	129	128	87	76	178	128	117	94	67	62	41	29	•	14	21	39	72	87	122	140	197	201	918
Vero Beach	254	223	217	190	173	119	99	98	58	46	148	99	88	65	38	33	12	•	34	38	54	74	106	121	157	174	230	235	952
Fort Pierce	242	211	205	178	161	107	87	86	46	34	136	87	76	53	26	21	•	14	47	52	68	87	120	135	170	188	244	249	966
Salerno	224	193	188	161	144	90	70	69	28	17	119	70	58	35	8	•	24	38	71	76	92	112	144	159	194	212	268	273	990
Stuart	229	198	193	165	149	95	75	74	33	22	111	61	50	27	•	9	30	44	77	81	98	116	150	165	199	217	274	278	995
Port Mayaca	256	225	220	192	176	122	102	101	60	49	83	34	23	•	31	40	61	75	108	112	129	147	181	196	230	248	305	310	1026
Clewiston	279	248	243	215	199	145	125	124	83	72	61	11	•	26	58	67	87	101	135	138	155	174	207	222	257	275	331	336	1053
Moore Haven	290	259	254	227	210	156	136	135	94	83	49	•	13	40	70	81	100	114	148	152	168	188	220	235	270	288	344	349	1066
Fort Myers	339	309	303	276	259	205	185	184	144	132	•	56	70	96	128	137	157	170	205	208	224	244	276	292	327	344	402	406	1122
Jupiter	207	177	171	144	127	73	53	52	12	•	152	96	83	56	25	20	39	53	87	91	107	127	159	175	209	227	284	289	1005
Port of Palm Beach	196	165	160	132	116	62	42	41	•	14	166	108	96	69	38	32	53	67	100	104	121	139	173	188	222	241	297	302	1018
Fort Lauderdale	155	125	119	92	75	21	1	•	47	60	212	155	143	116	85	79	99	113	147	151	167	186	219	235	269	287	344	348	1064
Port Everglades	154	123	118	91	74	20	•	1	48	61	213	156	144	117	86	80	100	114	148	152	168	188	220	236	270	289	345	350	1067
Miami	134	104	98	71	54	•	23	24	71	84	236	180	167	141	109	104	123	137	171	175	191	211	243	259	293	312	368	373	1090
Tavernier	83	52	47	19	•	62	85	86	133	146	298	242	229	203	171	166	185	199	234	237	253	273	305	321	356	373	430	435	1150
Matecumbe Harbor	65	35	29	•	22	82	105	106	152	166	318	261	247	221	190	185	205	219	252	257	273	291	323	339	374	392	449	453	1170
Marathon	42	34	•	33	54	113	136	137	184	197	349	292	280	253	222	216	236	250	284	288	304	323	356	372	407	425	481	486	1203
Flamingo	73	•	39	40	60	120	142	144	190	204	356	296	285	259	228	222	243	257	290	293	311	329	362	377	412	430	486	491	1208
Key West	•	84	48	75	96	154	177	178	226	239	390	334	321	295	264	258	278	292	326	329	346	365	397	413	448	466	522	527	1244

Distances on St. Johns River, Florida (nautical and statute miles)																
	Lake Harney	Sanford	Astor-Volusia	Georgetown	Leesburg	Moss Bluff Lock	Silver Springs	Welaka	Crescent City	Palatka	Doctors Lake Inlet	Jacksonville	Broward River (mouth)	Intracoastal Waterway	Mayport	St. Johns River (mouth)
St. Johns River (mouth)	161	143	109	95	162	145	136	86	89	68	32	20	12	4	2	•
Mayport	159	141	107	93	160	143	134	84	87	66	30	18	10	2	•	2
Intracoastal Waterway	157	139	105	91	158	141	132	82	85	64	28	16	8	•	2	5
Broward River (mouth)	149	131	97	83	150	133	124	74	77	56	20	8	•	9	12	14
Jacksonville	141	123	89	75	142	125	116	66	69	48	12	•	9	18	21	23
Doctors Lake Inlet	129	111	77	62	129	112	104	54	56	36	•	14	23	32	35	37
Palatka	93	75	41	26	94	76	68	18	20	•	41	55	64	74	76	78
Crescent City	101	83	49	35	102	85	76	26	•	23	64	79	89	98	100	102
Welaka	75	57	23	8	75	58	50	•	30	21	62	76	85	94	97	99
Silver Springs	123	105	71	56	31	14	•	58	87	78	120	134	143	152	154	157
Moss Bluff Lock	131	113	79	65	17	•	16	67	98	87	129	144	153	162	165	167
Leesburg	148	131	96	82	•	20	36	86	117	108	148	163	173	182	184	186
Georgetown	66	49	14	•	94	75	64	9	40	30	71	86	96	105	107	109
Astor-Volusia	52	34	•	16	110	91	82	26	56	47	89	102	112	121	123	125
Sanford	18	•	39	56	151	130	121	66	96	86	128	142	151	160	162	165
Lake Harney	•	21	60	76	170	151	142	86	116	107	148	162	171	181	183	185

Gulf of Mexico Distances – Key West, FL to Port Brownsville, TX (nautical miles)																													
	Port Brownsville, TX	Port Isabel, TX	Corpus Christi, TX	La Quinta, TX	Point Comfort, TX	Freeport, TX	Houston, TX	Texas City, TX	Galveston, TX	Beaumont, TX	Orange, TX	Port Arthur, TX	Lake Charles, LA	Morgan City, LA	New Orleans, LA (SW Pass)*	New Orleans, LA (South Pass)*	Gulfport, MS	Pascagoula, MS	Mobile, AL	Pensacola, FL	Panama City, FL	Port St. Joe, FL	Tampa, FL	Port Tampa, FL	St. Petersburg, FL	Port Boca Grande, FL	Key West, FL	Straits of Florida	
Yucatan Channel	729	718	769	763	761	717	740	702	696	717	713	691	705	602	587	579	576	554	562	533	506	495	404	399	389	332	251	192	
Straits of Florida	793	782	807	802	797	743	746	707	702	726	722	700	715	581	540	524	792	469	471	437	381	369	232	228	219	150	73	-	
Key West, FL	866	855	880	875	870	816	819	780	775	799	795	773	789	653	613	597	564	542	544	510	454	442	305	301	292	223	-	-	
Port Boca Grande, FL	825	814	816	811	806	747	752	714	709	730	726	704	717	564	512	489	436	414	413	372	294	281	113	109	100	-	-	-	
St. Petersburg, FL	813	802	797	792	786	729	733	695	690	710	707	684	697	539	488	459	401	379	377	334	252	240	18	8	-	-	-	-	
Port Tampa, FL	822	810	805	800	795	738	742	704	699	719	715	693	706	548	496	467	409	387	386	343	261	248	18	-	-	-	-	-	-
Tampa, FL	826	815	810	804	799	742	746	708	703	723	719	697	710	552	502	472	413	392	389	347	265	252	-	-	-	-	-	-	-
Port St. Joe, FL	695	684	671	666	661	604	605	567	562	581	577	565	568	397	346	308	235	213	206	154	42	-	-	-	-	-	-	-	-
Panama City, FL	684	673	659	654	649	593	594	555	550	571	567	545	558	385	333	295	222	200	193	139	-	-	-	-	-	-	-	-	-
Pensacola, FL	643	632	618	614	609	552	553	514	509	530	526	504	517	339	288	253	117	94	89	-	-	-	-	-	-	-	-	-	-
Mobile, AL	629	618	605	600	595	538	539	501	496	517	513	491	504	324	269	236	98	75	-	-	-	-	-	-	-	-	-	-	-
Pascagoula, MS	609	598	585	580	575	518	519	481	476	497	493	471	484	304	250	216	52	-	-	-	-	-	-	-	-	-	-	-	-
Gulfport, MS	632	621	607	602	597	540	542	503	498	519	515	493	506	330	271	238	-	-	-	-	-	-	-	-	-	-	-	-	-
New Orleans, LA (South Pass)*	599	588	574	569	564	508	470	465	486	482	460	472	298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Orleans, LA (SW Pass)*	580	569	555	550	545	489	490	451	446	467	463	441	454	278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Morgan City, LA	426	415	395	390	354	273	278	240	235	216	212	190	182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lake Charles, LA	387	376	289	283	248	166	172	133	128	109	105	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Arthur, TX	347	336	249	244	208	126	132	94	89	26	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange, TX	369	358	271	266	230	148	154	116	111	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beaumont, TX	373	362	275	270	234	152	158	120	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Galveston, TX	304	293	207	201	165	84	47	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas City, TX	309	298	212	206	170	89	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Houston, TX	348	337	250	244	209	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freeport, TX	258	247	160	154	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Point Comfort, TX	215	204	117	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Quinta, TX	148	137	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corpus Christi, TX	154	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Isabel, TX	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Brownsville, TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Key West Entrance Lighted Whistle Buoy KW (24°27'41"N., 81°48'02"W.) to Key West	6.3 miles
Tampa Bay Lighted Buoy T (27°35'19"N., 83°00'43"W.) to Tampa	43 miles
Entrance Lighted Bell Buoy 2 (30°16'18"N., 87°17'24"W.) to Pensacola	11.6 miles
Mobile Entrance Lighted Horn Buoy M (30°07'31"N., 88°04'07"W.) to Mobile	35 miles
South Pass Lighted Bell Buoy 2 (28°58'42"N., 89°06'30"W.) to New Orleans	102 miles
Southwest Pass Entrance Lighted Whistle Buoy SW (28°52'39"N., 89°25'55"W.) to Lake Charles	50 miles
Calcasieu Channel Lighted Buoy 2B (29°27'18"N., 93°13'18"W.) to Lake Charles	50 miles
Sabine Pass Lighted Buoy 32 (29°36'47"N., 93°48'32"W.) to Port Arthur	16.7 miles
Galveston Bay Entrance Lighted Whistle Buoy GA (29°09'29"N., 94°25'54"W.) to Galveston/Texas City/Houston	23/28/67 miles
Aransas Pass Entrance Lighted Whistle Buoy AP (27°47'36"N., 96°57'24"W.) to Corpus Christi	25 miles
Brazos Santiago Pass Entrance Lighted Whistle Buoy BS (26°03'54"N., 97°06'36"W.) to Port Brownsville	17.5 miles

All tabular distances are via Straits of Florida (24°25'N., 82°00'W.), and through the Shipping Safety Fairways. For distances from Key West to west Florida ports via Rebecca Shoal Channel (24°24.4'N., 82°42.4'W.), subtract 24 miles from Port Boca Grande distance, 17 miles from Tampa Bay distance, 9 miles from Port St. Joe and Panama City distances, and 5 miles from Pensacola.

*Baton Rouge, LA – add 115 miles.

Coastwise and Inside Route Distances – Key West, FL to Apalachicola, FL																				
(nautical miles)																				
	Apalachicola, FL	Carrabelle, FL	St. Marks, FL	Cedar Key, FL	Tarpon Springs, FL	Clearwater, FL	Tampa, FL	St. Petersburg, FL	Bradenton, FL	Sarasota, FL	Venice, FL	Port Boca Grande, FL	Fort Myers, FL	Naples, FL	Everglades, FL	Cape Sable, FL	Flamingo, FL	Matecumbe Harbor, FL	Marathon, FL	Key West, FL
Key West, FL	406	389	367	310	250	234	232	218	210	186	172	144	134	96	88	57	70	65	42	-
Marathon, FL	408	391	389	313	253	237	235	221	213	189	174	146	136	100	80	31	37	29	-	-
Matecumbe Harbor, FL	411	394	392	316	255	240	237	224	215	191	177	149	139	103	81	32	35	-	-	-
Flamingo, FL	396	379	377	301	240	225	222	209	200	176	162	134	124	88	66	17	-	-	-	-
Cape Sable, FL	379	362	360	284	223	208	205	192	183	159	145	117	107	71	49	-	-	-	-	-
Everglades, FL	350	334	332	255	195	179	177	163	155	131	116	88	79	38	-	-	-	-	-	-
Naples, FL	316	299	297	221	160	145	143	129	120	96	82	54	44	-	-	-	-	-	-	-
Fort Myers, FL	297	280	278	202	142	126	124	110	102	78	63	35	-	-	-	-	-	-	-	-
Port Boca Grande, FL	262	245	244	167	107	91	89	75	67	43	28	-	-	-	-	-	-	-	-	-
Venice, FL	234	218	216	139	79	63	61	47	39	15	-	-	-	-	-	-	-	-	-	-
Sarasota, FL	221	204	202	125	65	49	42	33	25	-	-	-	-	-	-	-	-	-	-	-
Bradenton, FL	209	193	191	114	54	38	36	22	-	-	-	-	-	-	-	-	-	-	-	-
St. Petersburg, FL	202	186	184	107	47	31	18	-	-	-	-	-	-	-	-	-	-	-	-	-
Tampa, FL	218	202	200	123	63	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clearwater, FL	174	157	155	79	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tarpon Springs, FL	164	147	145	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cedar Key, FL	118	101	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
St. Marks, FL	69	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carrabelle, FL	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apalachicola, FL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Routes used in table:

- Hawk Channel – between Marathon and Key West
- Northwest Channel (Key West) and outside to places between Cape Sable and San Carlos Bay, thence inside to Anclote Keys, thence outside to St. George Sound.

Distances from Everglades northward are inside via Big Marco River and Gordon Pass.

Puerto Rico and Virgin Islands Distances																				
(nautical miles)																				
	Krause Lagoon, St. Croix, VI	Frederiksted, St. Croix, VI	Christiansted, St. Croix, VI	Road Town, Tortola, BVI	Cruz Bay, St. John, VI	Charlotte Amalie, St. Thomas, VI	Isabel Segunda, Vieques	Ensenada Honda, Culebra	Puerto Arecibo, PR	Bahia de Aguadilla, PR	Mayaguez, PR	Bahia de Guanica, PR	Bahia de Guayanilla, PR	Bahia de Tallaboa, PR	Ponce, PR	Bahia de Jobos, PR	Humacao, PR	Ensenada Honda, PR	Fajardo, PR	San Juan, PR
San Juan, PR	112	96	103	94	82	80	55	59	43	74	92	138*	145*	145*	152*	103	59	52	40	-
Fajardo, PR	77	61	68	66	53	46	18	25	72	103	121	99	89	88	83	65	21	14	-	-
Ensenada Honda, PR	72	60	69	65	51	44	12	25	84	115	133	90	80	79	74	56	11	-	-	-
Humacao, PR	70	58	68	71	57	50	17	31	92	123	131	82	72	71	65	48	-	-	-	-
Bahia de Jobos, PR	101	89	101	113	99	93	62	76	140	105	96	47	37	36	31	-	-	-	-	-
Ponce, PR	117	106	119	131	116	110	79	93	118	83	74	22	14	13	-	-	-	-	-	-
Bahia de Tallaboa, PR	122	111	124	136	121	116	85	98	112	76	67	16	5	-	-	-	-	-	-	-
Bahia de Guayanilla, PR	123	112	125	137	122	117	86	99	112	77	67	15	-	-	-	-	-	-	-	-
Bahia de Guanica, PR	133	122	135	147	132	126	96	109	105	70	60	-	-	-	-	-	-	-	-	-
Mayaguez, PR	182	171	184	175	164	161	136	141	58	23	-	-	-	-	-	-	-	-	-	-
Bahia de Aguadilla, PR	176	159	166	157	146	144	118	123	40	-	-	-	-	-	-	-	-	-	-	-
Puerto Arecibo, PR	144	128	135	126	115	112	87	92	-	-	-	-	-	-	-	-	-	-	-	-
Ensenada Honda, Culebra	59	42	48	47	31	24	15	-	-	-	-	-	-	-	-	-	-	-	-	-
Isabel Segunda, Vieques	62	46	54	55	40	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Charlotte Amalie, St. Thomas, VI	54	38	38	24	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cruz Bay, St. John, VI	55	39	37	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Road Town, Tortola, BVI	62	46	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Christiansted, St. Croix, VI	35	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Frederiksted, St. Croix, VI	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Krause Lagoon, St. Croix, VI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* via Mona Passage

Limetree Bay, St. Croix, VI, is 1 mile E of Krause Lagoon

Intracoastal Waterway Distances – Apalachicola, FL to Port Brownsville, TX (nautical and statute miles)																												
	Port Brownsville, TX	Port Isabel, TX	Port Mansfield, TX	Corpus Christi, TX	La Quinta, TX	Aransas Pass, TX	Rockport, TX	Port O'Connor, TX	Freeport, TX	Texas City, TX	Houston, TX	Galveston, TX	Port Arthur, TX	Beaumont, TX	Orange, TX	Lake Charles, LA	Morgan City, LA	Hourma, LA	New Orleans, LA	Gulfport, MS	Biloxi, MS	Pascagoula, MS	Mobile, AL	Pensacola, FL	Fort Walton Beach, FL	Panama City, FL	Port St. Joe, FL	Apalachicola, FL
Apalachicola, FL	900	887	856	786	780	769	762	717	651	615	653	614	556	562	537	525	388	356	302	248	236	222	214	150	112	51	27	•
Port St. Joe, FL	885	872	841	771	766	754	748	703	636	600	636	599	542	547	523	510	374	341	288	233	224	208	200	135	98	36	•	31
Panama City, FL	849	836	805	735	730	718	712	666	600	564	602	563	506	511	487	474	338	305	252	197	188	171	164	99	62	•	41	59
Fort Walton Beach, FL	788	775	743	673	666	656	650	605	539	503	541	502	444	450	425	412	276	243	190	136	126	110	102	37	•	71	113	129
Pensacola, FL	758	746	714	644	639	627	621	576	510	474	512	473	415	421	396	383	247	214	161	106	97	81	73	•	43	114	155	173
Mobile, AL	736	723	692	622	616	605	598	553	487	451	489	450	392	396	373	361	224	191	138	84	74	58	•	84	117	189	230	246
Pascagoula, MS	693	980	649	579	574	562	556	510	444	408	446	407	350	355	331	318	182	149	96	41	32	•	67	93	127	197	239	255
Biloxi, MS	680	668	636	566	561	549	543	496	431	396	433	394	337	342	318	305	169	136	83	26	•	37	85	112	145	216	258	274
Gulfport, MS	664	651	620	550	544	533	526	481	415	379	417	378	320	326	302	289	152	120	66	•	32	47	97	122	157	227	268	285
New Orleans, LA	598	585	553	483	578	466	460	415	349	313	351	312	254	260	235	222	86	53	•	76	96	110	159	185	219	290	331	348
Hourma, LA	544	532	500	430	425	413	407	362	295	260	297	258	201	206	182	169	33	•	61	138	157	171	220	246	280	351	392	410
Morgan City, LA	512	499	467	397	392	380	374	329	263	227	265	226	168	174	149	136	•	38	99	175	194	209	258	284	318	389	430	447
Lake Charles, LA	395	382	351	280	275	264	257	212	146	110	148	109	51	57	32	•	157	194	255	333	351	266	415	441	474	545	587	604
Orange, TX	364	352	320	250	245	233	227	182	115	80	117	78	21	26	•	37	171	209	270	348	366	381	429	456	489	560	602	618
Beaumont, TX	370	357	326	255	250	236	232	187	121	85	123	84	26	•	30	66	200	237	299	375	394	409	458	484	518	588	629	647
Port Arthur, TX	344	331	300	229	224	212	206	161	95	59	97	58	•	30	24	59	193	231	292	368	388	403	451	478	511	582	624	640
Galveston, TX	289	276	244	174	169	158	151	106	40	10	48	•	67	97	90	125	260	297	359	435	453	468	518	544	578	648	689	707
Houston, TX	333	320	289	219	213	202	195	150	84	48	•	55	112	142	135	170	305	342	404	480	496	513	563	589	623	693	734	751
Texas City, TX	294	281	249	179	174	162	156	111	44	•	55	12	68	98	92	127	261	299	360	436	456	470	519	545	579	649	690	708
Freeport, TX	253	240	209	139	133	122	115	70	•	51	97	46	109	139	132	168	303	339	402	478	496	511	560	587	620	690	732	749
Port O'Connor, TX	183	170	136	68	63	52	45	•	81	128	173	122	185	215	209	244	379	417	478	554	573	587	636	663	696	766	809	825
Rockport, TX	140	127	96	26	20	9	•	52	132	180	224	174	237	267	261	296	430	468	529	605	625	640	688	715	748	819	861	877
Aransas Pass, TX	131	118	87	17	12	•	10	60	140	186	232	182	244	274	268	304	437	475	536	613	632	647	696	722	755	826	868	885
La Quinta, TX	129	116	85	15	•	14	23	72	153	200	245	194	258	288	282	316	451	489	550	626	646	661	709	735	769	840	881	898
Corpus Christi, TX	133	120	89	•	17	20	30	78	160	206	252	200	264	293	288	322	457	495	556	633	651	666	716	741	774	846	887	905
Port Mansfield, TX	46	33	•	102	98	100	110	159	241	287	333	281	345	375	368	404	537	575	636	713	732	747	796	822	855	926	968	985
Port Isabel, TX	13	•	38	138	133	136	146	196	276	323	368	318	381	411	405	440	574	612	673	749	769	783	832	858	892	962	1003	1021
Port Brownsville, TX	•	15	53	153	148	151	161	211	291	338	383	333	396	426	419	455	589	626	688	764	783	797	847	872	907	977	1018	1036

Mississippi River Systems

Distances on the Mississippi River Systems

Distances in this section are the mileages (in statute miles) from the mouth of a river (or other designated point) taken from charts, maps, and publications of the U.S. Army Corps of Engineers. Distances between any two points on the same waterway may be obtained by taking the difference of the indicated mileages. Distances between places on different waterways can be determined by taking distances to and from a common reference point. (See the appendix for information relating to procurement of charts and publications.)

Mississippi River

At Head of Passes, three of the Mississippi River's important passes come together: South Pass, Southwest Pass and Pass a Loutre. This point of confluence is at Head of Passes Junction Light (29°08'53"N., 89°15'05"W.). From this point distances on the Mississippi River are measured in statute miles "above Head of Passes", abbreviated AHP, to its confluence with the Ohio River.

The reach of the Mississippi River from Head of Passes to Baton Rouge is charted by NOAA's National Ocean Service (NOS). The reach from the Head of Passes to the confluence with the Ohio River is charted by the U.S. Army Corps of Engineers in Flood Control and Navigation Maps of the Mississippi River Mileages indicated in Flood Control and Navigation Maps of the Mississippi River are in statute miles AHP and are so listed following.

The following table lists mileages on the Mississippi River from Head of Passes to its junction with the mouth of the Ohio River.

Head of Passes	0
Buras, LA	25
Port Sulphur, LA	39
Algiers Alternate Route (entrance to Algiers Lock)	88
Inner Harbor Navigation Canal (Industrial Canal)	93
New Orleans (Canal Street)	95
Harvey Canal (lock entrance)	98
Donaldson, LA	175
Plaquemine, LA	209
Baton Rouge, LA (Interstate 10 bridge) ¹	229
Red River mouth, LA (Old River)	304
Natchez, MS (US 84 bridge)	363
Vicksburg, MS	437
Greenville, MS (Warfield Point Light)	537

Helena, AR	663
Memphis, TN (Interstate 55 bridge)	734
Ohio River mouth ²	954

¹ Add 64 miles to Morgan City by Intracoastal waterway via Port Allen Lock

² Cairo, IL is two miles above the Ohio River mouth

The following table lists mileages on the Mississippi River above its junction with the mouth of the Ohio River. The Upper River is charted by the U.S. Army Corps of Engineers in Upper Mississippi River Navigation Charts. The following mileages are in statute miles AHP.

Mississippi River and Ohio River junction	954
Commerce, MO	994
Cape Girardeau, MO	1,006
Grand Tower, IL	1,034
St. Louis, MO	1,134
Lock No. 27	1,139
Dam No. 27	1,144
Missouri River mouth	1,149
Alton, IL (Lock and Dam No. 26)	1,157
Illinois River mouth (Grafton, IL)	1,172
Lock and Dam No. 25	1,195
Lock and Dam No. 24	1,227
Lock and Dam No. 22	1,255
Hannibal, MO	1,264
Quincy, IL (Lock and Dam No. 21)	1,279
La Grange, MO	1,290
Lock and Dam No. 20	1,297
Keokuk, IA (Lock and Dam No. 19)	1,318
Fort Madison, IA	1,338
Burlington, IA	1,357
Lock and Dam No. 18	1,364
Lock and Dam No. 17	1,391
Lock and Dam No. 16	1,411
Davenport, IA (Lock and Dam No. 15)	1,437
Lock and Dam No. 14	1,447
Clinton, IA	1,473
Lock and Dam No. 13	1,477
Lock and Dam No. 12	1,511
Dubuque, IA	1,534
Lock and Dam No. 11	1,537
Lock and Dam No. 10	1,569
Prairie du Chien, WI	1,589
Lock and Dam No. 9	1,602
Lock and Dam No. 8	1,633
La Crosse, WI	1,652
Lock and Dam No. 7	1,656

Lock and Dam No. 6	1,668
Winona, MN	1,680
Lock and Dam No. 5A	1,682
Lock and Dam No. 5	1,692
Lock and Dam No. 4	1,702
Lock and Dam No. 3	1,751
Lock and Dam No. 2	1,769
St. Paul, MN	1,793
Lock and Dam No. 1	1,802
Minneapolis, MN	1,807

Ohio River

The Ohio River is charted by the U.S. Army Corps of Engineers in Ohio River Navigation Charts (three volumes.) Distances are in statute miles. The following locations appear in Ohio River Navigation Charts, Louisville District

Ohio River mouth (junction with the Mississippi River)	0
Cairo, IL	2
Dam 53	18
Dam 52	42
Tennessee River mouth (Paducah, KY)	46
Cumberland River mouth	58
Smithland Lock and Dam	62
Wabash River mouth	133
Evansville, IN	187
Newburg Lock and Dam	205
Owensboro, KY	225
Cannelton Lock and Dam	260
McAlpine Lock and Dam	374
Louisville, KY (Interstate 65 bridge)	378
Madison, IN	423
Markland Lock and Dam	449
Cincinnati, OH	509
Captain Anthony Meldahl Dam	545

The following locations appear in Ohio River Navigation Charts, Huntington District.

Portsmouth, OH	626
Greenup Dam	640
Ironton, OH	655
Huntington, WV	673
Gallipolis Dam	702
Gallipolis, OH	711
Belleville Dam	777
Parkersburg, WV	797
Marietta, OH	809
Willow Island Dam	820

The following locations appear in Ohio River Navigation Charts, Pittsburgh District.

Hannibal Lock and Dam	855
Wheeling, WV	894
Pike Island Lock and Dam	897
Steubenville, OH	913
New Cumberland Lock and Dam	927
East Liverpool, OH	938
Montgomery Lock and Dam	950
Dashields Lock and Dam	968
Emsworth Lock and Dam	975
Pittsburgh, PA (Point Bridge)	981

Tennessee River

The Tennessee River is charted by the U.S. Army Corps of Engineers in Tennessee River Navigation Charts, Nashville District.

Tennessee River mouth (junction with the Ohio River)	0
Paducah, KY	0
Kentucky Lock and Dam	22
New Johnsonville, TN	100
Perryville, TN	135
Saltillo	172
Cerro Gordo	178
Savannah	190
Pickwick Landing Lock and Dam	207
Waterloo, AL	227
Sheffield, AL	254
Wilson Lock and Dam (Florence, AL)	260
General Joe Wheeler Lock and Dam	275
Decatur, AL	304
Guntersville Lock and Dam	349
Bridgeport	414
South Pittsburgh	418
Nickajack Lock and Dam	425
Chattanooga, TN	464
Chickamauga Lock and Dam	471
Watts Bar Lock and Dam	530
Clinch River mouth	568
Loudon, TN	592
Fort Loudon Lock and Dam	602
Knoxville, TN (Gay Street bridge)	648

Missouri River

The Missouri River is charted by the U.S. Army Corps of Engineers in **Missouri River Navigation Charts** (two volumes.) Distances are in statute miles. The following locations appear in Missouri River Navigation Charts, Kansas City District.

Missouri River mouth (junction with the Mississippi River)	0
St. Charles, MO	28
Washington, MO	67
Hermann, MO	98
Mouth of Gasconade River	104
Gasconade, MO	105
Mouth of Auxvass River	120
Mouth of Middle River	125
Mouth of Osage River	130
Jefferson City, MO	143
Boonville, MO	197
Mouth of Lamine River	202
Glasgow, MO	226
Mouth of Charitan River	239
Mouth of Grand River	250
Miami, MO	263
Waverly, MO	294
Lexington, MO	317
Napoleon, MO	329
Kansas City, MO	363
Mouth of Kansas River	367
Leavenworth, KS	396
St. Joseph, MO	448
Mouth of Big Nemaha River	495
Rulo, NE	498
Mouth of Tarkio River	507
Mouth of Nishnabotna River	542
Nebraska City, NE	563
Plattsmouth, NE	591
Omaha, NE	615
Council Bluffs, IA	617
Dakota City, NE	725
Sioux City, IA	732
Ponca, NE	753

Illinois Waterway

The Illinois Waterway is charted by the U.S. Army Corps of Engineers in **Charts of the Illinois Waterway from Mississippi River at Grafton, IL to Lake Michigan at Chicago**. Distances therein and following are in statute miles.

Illinois River	
Illinois River mouth (junction of the Mississippi River at Grafton, IL)	0
Hardin, IL	21
Florence, IL	55
Naples, IL	65
La Grange Lock	80
Beardstown, IL	89
Peoria Lock	158
Chillicothe, IL	180
Hennepin, IL	207
Illinois and Mississippi Canal	210
Peru, IL	222
Ottawa, IL	239
Marseille Lock	244
Dresden Island Lock	271
Des Plaines River	
Joliet, IL	288
Chicago Sanitary and Ship Canal	
Lockport, IL	293
Chicago River	
Chicago, IL (41°43.8'N., 87°31.9'W.)	333

Great Lakes and New York State Waterways Distances

Great Lakes Distances	26
Distances between points on Lake Ontario and St. Lawrence River	27
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Great Lakes Distances (statute miles)												
	Montreal, Quebec Ogdensburg, NY Kingston, Ontario	Toronto, Ontario Oswego, NY Rochester, NY	Port Colborne, Ontario Buffalo, NY Erie, PA	Conneaut, OH Ashtabula, OH Fairport, OH	Cleveland, OH Lorain, OH Toledo, OH	Detroit, MI Port Huron, MI Midland, Ontario	Collingwood, Ontario Goderich, Ontario Bay City, MI	Alpena, MI Ludington, MI Muskegon, MI	Gary, IN Chicago, IL Milwaukee, WI	Green Bay, WI Escanaba, MI Sault Ste. Marie, MI	Marquette, MI Houghton, MI Ashland, WI	Duluth, MN Two Harbors, MN Thunder Bay, Ontario
Thunder Bay, Ontario	1217 1096 1034	903 1016 965	848 864 795	768 754 729	711 964 658	604 542 539	531 506 505	410 536 587	699 686 621	560 492 273	171 116 164	195 172 -
Two Harbors, MN	1315 1194 1132	1001 1114 1063	946 963 893	866 852 828	809 792 756	702 640 638	630 604 603	508 634 685	797 785 720	659 590 371	239 157 71	26 -
Duluth, MN	1339 1218 1156	1025 1138 1087	970 986 917	890 876 851	833 816 781	726 664 661	653 628 627	532 657 709	820 808 743	682 614 394	261 179 96	-
Ashland, WI	1293 1172 1110	979 1092 1041	924 941 871	844 830 806	788 771 734	680 618 616	606 583 581	486 612 663	775 763 698	637 568 349	213 131 -	-
Houghton, MI	1165 1044 982	851 964 913	796 813 743	716 702 678	659 643 606	552 490 488	480 455 453	358 484 535	647 635 570	509 440 221	84 -	-
Marquette, MI	1104 983 921	790 903 852	735 751 682	655 641 616	598 571 545	491 429 426	418 393 391	297 422 474	585 573 508	447 378 159	-	-
Sault Ste. Marie, MI (a)	944 823 761	630 743 692	575 592 522	495 481 457	438 422 385	331 269 267	259 234 232	137 263 314	426 414 349	288 219 -	-	-
Escanaba, MI	1051 930 868	737 850 799	682 699 629	602 588 564	545 526 492	438 376 384	376 340 339	244 130 181	288 274 201	101 -	-	-
Green Bay, WI	1120 999 937	806 919 868	751 767 696	671 657 632	614 597 561	507 445 452	444 409 407	313 123 171	272 255 180	-	-	-
Milwaukee, WI	1181 1060 998	867 980 929	812 828 759	732 718 693	675 658 622	568 506 513	505 470 468	374 97 80	103 85 -	-	-	-
Chicago, IL	1246 1125 1063	932 1045 994	877 893 824	797 783 758	740 723 688	633 571 578	570 535 534	439 456 114	25 -	-	-	-
Gary, IN	1258 1137 1075	944 1057 1006	889 905 836	809 795 770	752 735 699	645 583 590	582 547 546	451 167 121	-	-	-	-
Muskegon, MI	1146 1025 963	832 945 894	777 794 724	697 683 659	640 623 587	533 471 479	471 435 434	339 56 -	-	-	-	-
Ludington, MI	1095 974 912	781 894 843	726 724 673	646 632 607	589 572 536	482 420 427	419 384 383	288 -	-	-	-	-
Alpena, MI	832 711 649	518 631 580	463 479 410	383 369 344	326 309 273	219 157 193	185 124 116	-	-	-	-	-
Bay City, MI	837 716 654	523 638 585	466 484 415	388 374 349	331 314 278	224 162 265	257 137 -	-	-	-	-	-
Goderich, Ontario	740 619 557	426 539 488	371 387 318	291 277 252	234 217 181	127 65 211	207 -	-	-	-	-	-
Collingwood, Ontario	933 821 750	619 732 681	564 580 511	484 470 446	427 410 374	320 258 55	-	-	-	-	-	-
Midland, Ontario	941 820 758	627 740 689	572 588 519	492 478 453	435 418 382	326 266 -	-	-	-	-	-	-
Port Huron, MI (b)	675 554 492	361 474 423	306 322 253	226 213 188	170 152 116	62 -	-	-	-	-	-	-
Detroit, MI (c)	613 492 430	299 412 361	244 261 191	164 150 126	108 91 54	-	-	-	-	-	-	-
Toledo, OH (river mouth)	606 485 423	292 405 354	237 254 185	157 144 119	96 72 -	-	-	-	-	-	-	-
Lorain, OH	549 428 366	235 348 297	180 197 124	95 80 53	28 -	-	-	-	-	-	-	-
Cleveland, OH (main entrance)	529 408 346	215 326 277	160 176 102	73 59 33	-	-	-	-	-	-	-	-
Fairport, OH	499 378 316	185 298 247	130 146 73	44 30 -	-	-	-	-	-	-	-	-
Ashtabula, OH	473 352 290	159 272 221	104 119 45	15 -	-	-	-	-	-	-	-	-
Conneaut, OH	461 340 278	147 260 209	92 107 33	-	-	-	-	-	-	-	-	-
Erie, PA	434 313 251	120 233 182	65 78 -	-	-	-	-	-	-	-	-	-
Buffalo, NY (north entrance)	391 270 208	77 190 139	22 -	-	-	-	-	-	-	-	-	-
Port Colborne, Ontario	369 248 186	55 168 117	-	-	-	-	-	-	-	-	-	-
Rochester, NY	271 149 89	95 59 -	-	-	-	-	-	-	-	-	-	-
Oswego, NY	232 108 55	145 -	-	-	-	-	-	-	-	-	-	-
Toronto, Ontario	342 223 161	-	-	-	-	-	-	-	-	-	-	-
Kingston, Ontario	185 63 -	-	-	-	-	-	-	-	-	-	-	-
Ogdensburg, NY	123 -	-	-	-	-	-	-	-	-	-	-	-
Montreal, Quebec (d)	-	-	-	-	-	-	-	-	-	-	-	-

Measurements are by the shortest marked or safe direct courses, starting (unless otherwise noted) from the main entrance between pierheads of breakwaters or piers, or from the principal landings of open roadsteads. Where landings are appreciably remote from protected entrances, the distance from the main entrance to the landing may be ascertained from the harbor description or from nautical charts. Points in this table are arranged in the order of their location on the Great Lakes in the following sequence (top to bottom): Lake Superior, Lake Michigan, Lake Huron, Lake Erie, and Lake Ontario-St. Lawrence River.

- (a) From abreast east end of U.S. center pier
- (b) From foot of Grand River Avenue
- (c) From Woodward Avenue
- (d) From St. Lambert Dock

Distances Between Points on Lake Ontario and St. Lawrence River (statute miles)																																						
	Quebec City, Quebec Montreal, Quebec	Cote St. Catherine Lock, Quebec	Beauharnois Lock, Quebec	Colquhoun Island, Ontario	Snell Lock, NY	Eisenhower Lock, NY	Iroquois Lock, Ontario	Ogdensburg, NY	Brockville, Ontario	Alexandria Bay, NY	Thousand Island Park, NY	Clayton, NY	Gananoque, Ontario	Kingston, Ontario	Picton, Ontario	Deseronto, Ontario	Belleville, Ontario	Trenton, Ontario	Cobourg, Ontario	Port Hope, Ontario	Toronto, Ontario	Hamilton, Ontario	Port Weller, NY	Lewiston, NY	Niagara-on-the-Lake, Ontario	Olcott, NY	Rochester, NY	Sodus Bay, NY	Little Sodus Bay, NY	Oswego, NY	Sacketts Harbor, NY	Cape Vincent, NY	Port Colborne, Ontario	Port Huron, MI	Old Mackinac Point, MI			
Old Mackinac Point, MI (a)	1084 922 914	892 848 841	837 812 799	787 766 760	755 758 739	726 713 69	688 653 648	608 610 580	598 592 608	670 698 712	721 745 740	553 247	-																									
Port Huron, MI (b)	837 675 667	645 601 594	590 565 552	540 519 513	508 511 492	479 466 45	441 406 401	361 363 333	351 356 361	423 451 465	474 498 493	306	-																									
Port Colborne, Ontario	531 369 361	339 295 288	284 259 246	234 213 207	202 205 186	173 160 14	135 100 95	55 57 27	45 37 55	117 145 159	168 192 187	-																										
Cape Vincent, NY	344 183 175	153 109 102	98 73 60	48 27 20	16 19 24	45 51 67	78 101 106	160 186 160	160 154 134	89 69 59	49 26	-																										
Sacketts Harbor, NY	370 209 201	179 135 128	124 99 86	74 53 46	42 45 36	56 61 78	88 106 112	165 191 165	164 158 138	88 54 52	41	-																										
Oswego, NY	391 232 224	202 158 151	147 122 108	97 76 69	65 68 55	66 71 88	82 91 96	145 166 141	139 133 113	59 29 15	-																											
Little Sodus Bay, NY	401 241 233	211 167 160	156 131 118	106 85 78	74 77 64	73 78 88	79 85 90	136 157 131	130 124 104	48 18	-																											
Sodus Bay, NY	411 251 243	221 177 170	166 141 128	116 99 88	84 87 72	80 86 83	74 77 81	124 145 118	118 112 92	35	-																											
Rochester, NY (Charlotte)	432 271 263	241 197 190	186 161 149	136 115 108	104 107 90	98 89 73	64 57 60	96 117 89	89 83 63	-																												
Olcott, NY	478 316 308	286 242 235	231 206 193	181 160 153	149 152 134	121 109 92	83 51 47	38 55 28	28 22	-																												
Niagara-on-the-Lake, Ontario	500 336 328	306 262 255	251 226 213	201 180 173	169 172 154	141 128 11	102 66 63	30 39 11	6	-																												
Lewiston, NY	506 345 334	312 268 261	257 232 219	207 186 179	175 178 160	147 134 11	108 72 69	36 45 17	-																													
Port Weller, NY	504 342 334	312 268 261	257 232 219	207 186 179	175 178 159	146 133 11	107 72 68	28 30	-																													
Hamilton, Ontario	530 367 359	337 293 286	282 257 244	232 211 205	200 204 185	169 156 14	131 94 88	30	-																													
Toronto, Ontario (west entrance)	506 342 334	312 268 261	257 232 219	207 186 180	175 179 160	142 129 11	103 65 60	-																														
Port Hope, Ontario	449 289 281	259 215 208	204 179 166	154 132 126	121 125 106	85 72 56	47 7	-																														
Cobourg, Ontario	444 283 275	253 209 202	196 173 160	148 127 120	116 120 101	79 67 50	41	-																														
Trenton, Ontario	417 255 247	225 181 174	170 145 132	120 101 94	90 89 71	40 28 11	-																															
Belleville, Ontario	406 244 236	214 170 163	159 134 121	109 90 84	80 78 60	29 17	-																															
Deseronto, Ontario	390 228 220	198 154 147	143 118 105	93 74 68	63 62 44	13	-																															
Picton, Ontario	383 222 214	192 148 141	137 112 99	87 68 62	57 56 37	-																																
Kingston, Ontario	346 185 177	155 111 104	100 75 62	50 32 25	21 19	-																																
Gananoque, Ontario	327 167 159	137 93 86	82 57 44	32 18 11	10	-																																
Clayton, NY	327 167 159	137 93 86	82 57 44	32 11 4	-																																	
Thousand Island Park, NY	326 164 156	134 90 83	79 54 41	29 8	-																																	
Alexandria Bay, NY	317 156 148	127 83 76	82 46 33	22	-																																	
Brockville, Ontario	295 135 127	105 61 54	50 25 12	-																																		
Ogdensburg, NY	283 123 115	93 49 42	38 13	-																																		
Iroquois Lock, Ontario	270 110 102	80 36 29	25	-																																		
Eisenhower Lock, NY	245 85 77	55 11 4	-																																			
Snell Lock, NY	241 81 73	51 7	-																																			
Colquhoun Island, Ontario	233 74 66	44	-																																			
Beauharnois Lock, Quebec	190 30 22	-																																				
Cote St. Catherine Lock, Quebec	169 8	-																																				
Montreal, St. Lambert Lock, Quebec	160	-																																				
Quebec City, Quebec	-																																					

(a) From sailing course point north of Old Mackinac Point
(b) From foot of Grand River Avenue to Toronto west entrance

Distances Between Points on Lake Erie and the St. Clair, Detroit and Niagara Rivers (statute miles)																																									
	Kingsville, Ontario	Rondeau, Ontario	Port Stanley, Ontario	Port Burwell, Ontario	Port Dover, Ontario	Port Maitland, Ontario	Niagara Falls, NY	Tonawanda, NY	Buffalo, NY	Dunkirk, NY	Erie, PA	Conneaut, OH	Ashtabula, OH	Fairport, OH	Cleveland, OH	Lorain, OH	Vermilion, OH	Huron, OH	Sandusky, OH	Put-in-Bay, OH	Port Clinton, OH	Toledo, OH	Monroe, MI	Detroit River Light, MI	Amherstburg, Ontario	Trenton, MI	Wyandotte, MI	Detroit, MI	Chatham, Ontario	Mount Clemons, MI	St. Clair Flats, MI/Ontario	Algonac, MI	Marine City, MI	St. Clair, MI	Port Huron, MI	Port Colborne, Ontario	Old Mackinac Point, MI				
Old Mackinac Point, MI (a)	358 414 459	475 527 538	588 580 569	539 500 473	460 435 417	399 391 387	380 363 369	363 348 334	326 324 320	309 322 296	286 274 266	259 247 553	-																												
Port Colborne, Ontario	201 146 109	89 52 18	41 33 22	25 65 92	104 130 160	180 190 198	204 204 213	237 227 219	227 229 234	244 292 278	267 281 287	294 306 -																													
Port Huron, MI (b)	111 167 212	228 280 291	341 333 322	292 253 226	213 188 170	152 144 140	133 116 122	116 101 87	79 77 73	62 75 49	39 27 19	12 -																													
St. Clair, MI	99 155 200	216 268 279	330 322 311	281 241 214	201 176 158	141 133 129	122 105 111	105 89 75	67 65 61	50 63 37	27 15 7	-																													
Marine City, MI	92 148 193	209 261 272	322 314 303	273 234 207	194 169 151	133 125 121	114 97 103	97 82 68	60 58 54	43 56 30	20 7 -																														
Algonac, MI	86 143 188	203 255 267	317 309 296	268 228 201	188 163 145	128 120 116	109 92 98	92 76 62	55 53 48	37 49 22	14 -																														
St. Clair Flats, MI/Ontario (c)	72 129 174	189 241 253	303 295 284	254 215 187	174 149 131	114 106 102	95 78 84	78 62 48	41 39 34	23 35 15	-																														
Mount Clemons, MI	83 140 185	200 252 264	314 306 295	265 226 199	185 161 142	125 117 113	106 89 95	89 73 59	53 50 45	35 49 -																															
Chatham, Ontario	97 154 199	214 265 278	328 320 309	279 239 212	198 174 156	139 130 127	120 102 108	102 87 73	66 63 59	48 -																															
Detroit, MI (Woodward Avenue)	49 106 151	166 217 230	280 272 261	231 191 164	150 126 108	91 82 79	72 54 60	54 39 25	18 15 11	-																															
Wyandotte, MI	39 96 141	156 208 220	270 262 251	221 182 154	141 116 98	81 73 69	62 45 51	45 29 15	8 5 -																																
Trenton, MI	34 91 136	151 203 215	265 257 246	216 177 149	136 111 93	76 68 64	57 40 46	40 24 10	13 -																																
Amherstburg, Ontario	31 88 133	148 200 212	262 254 243	213 173 146	133 108 90	73 64 61	54 36 42	36 21 7	-																																
Detroit River Light, MI	24 81 126	141 193 205	255 247 236	206 166 139	126 101 83	66 58 54	47 30 36	30 14 -																																	
Monroe, MI (piers)	33 89 134	149 200 213	263 255 244	214 174 147	133 109 89	68 60 5	48 30 35	21 -																																	
Toledo, OH (river mouth)	45 98 143	159 210 223	272 265 254	224 185 157	144 119 96	72 65 59	52 38 40	-																																	
Port Clinton, OH	37 75 120	136 187 199	249 241 230	200 160 131	118 92 67	43 36 29	22 12 -																																		
Put-in-Bay, OH	27 66 111	127 177 190	240 232 221	190 150 122	109 83 51	38 32 27	21 -																																		
Sandusky, OH (wharves)	41 69 114	130 178 190	239 232 221	189 149 120	107 79 55	29 21 14	-																																		
Huron, OH	47 68 111	124 172 184	233 226 215	183 142 113	99 72 47	20 11 -																																			
Vermilion, OH	46 62 104	117 163 175	225 217 206	174 133 104	90 63 37	11 -																																			
Lorain, OH	48 57 97	109 154 166	215 208 197	164 124 95	80 53 28	-																																			
Cleveland, OH (main entrance)	65 53 85	93 134 146	194 187 176	143 102 73	59 33 -																																				
Fairport, OH	83 48 62	66 104 116	165 157 146	114 73 44	30 -																																				
Ashtabula, OH	108 63 56	47 79 90	138 130 119	86 45 15	-																																				
Conneaut, OH	122 74 59	48 68 80	126 118 107	74 33 -																																					
Erie, PA	149 98 70	53 47 54	98 89 78	45 -																																					
Dunkirk, NY	188 134 98	78 50 28	55 48 37	-																																					
Buffalo, NY	218 163 126	106 72 38	21 13 -																																						
Tonawanda, NY	230 174 137	117 83 49	8 -																																						
Niagara Falls, NY	237 182 145	125 90 57	-																																						
Port Maitland, Ontario	187 132 95	75 37 -																																							
Port Dover, Ontario	175 120 83	62 -																																							
Port Burwell, Ontario	123 65 23	-																																							
Port Stanley, Ontario	108 49 -																																								
Rondeau, Ontario	63 -																																								
Kingsville, Ontario	-																																								

Points in this table are arranged in geographical sequence proceeding southward in St. Clair River/Lake, Detroit River, thence eastward along the south shore of Lake Erie to Niagara River, and returning westward along the north lake shore.

- (a) From sailing point north of Old Mackinac Point
- (b) From foot of Grand River Avenue
- (c) From south end of canal dike

Distances Between Points on Lake Huron and St. Marys River (statute miles)																																					
	Thessalon, Ontario	Algoma Mills, Ontario	Gore Bay, Ontario	Little Current, Ontario	French River, Ontario	Key Harbor, Ontario	Byng Inlet, Ontario	Parry Sound, Ontario	Depot Harbor, Ontario	Port McNicoll, Ontario	Midland, Ontario	Penetanguishene, Ontario	Collingwood, Ontario	Meaford, Ontario	Owen Sound, Ontario	Warton, Ontario	Southampton, Ontario	Kincardine, Ontario	Goderich, Ontario	Port Sanilac, MI	Harbor Beach, MI	Saginaw, MI	Bay City, MI	East Tawas, MI	Au Sable, MI	Alpena, MI	Rockport, MI	Stoneport, MI	Rogers City, MI	Cheboygan, MI	Mackinac Island, MI	St. Ignace, MI	Port Dolomite, MI	DeTour, MI	Sault Ste. Marie, MI	Old Mackinac Point, MI	Port Huron, MI
Port Huron, MI (a)	238	238	250	225	224	232	229	247	243	267	266	265	258	241	238	228	121	94	65	33	63	175	162	119	117	157	166	182	194	233	243	247	239	224	269	247	-
Old Mackinac Point, MI (b)	69	101	116	143	196	205	211	235	231	256	255	254	247	230	227	217	189	182	211	215	186	223	210	163	142	115	83	78	54	18	7	6	27	45	90	-	
Sault Ste. Marie, MI (c)	48	88	108	131	184	193	201	242	238	268	267	266	259	242	239	229	207	213	234	238	208	246	232	185	165	137	107	96	84	84	84	90	68	45	-	-	
DeTour, MI	24	58	76	101	154	163	171	201	198	224	222	221	214	197	194	185	162	168	189	193	164	201	187	140	120	92	61	51	40	39	39	44	23	-	-	-	
Port Dolomite, MI	92	90	108	135	197	199	198	218	215	243	241	238	233	220	219	207	176	183	203	218	190	219	206	163	143	113	76	70	47	31	26	28	-	-	-	-	
St. Ignace, MI	68	100	115	142	195	204	209	234	231	256	254	252	246	229	227	217	191	194	214	216	187	224	210	163	143	115	83	82	55	20	8	-	-	-	-	-	
Mackinac Island, MI	63	95	110	137	190	199	204	229	226	251	249	248	241	224	221	212	186	189	209	212	184	220	207	159	140	111	79	77	50	17	-	-	-	-	-	-	
Cheboygan, MI	63	92	106	133	186	195	197	221	217	242	241	240	233	216	213	204	175	178	198	202	173	210	196	149	129	101	69	66	40	-	-	-	-	-	-	-	
Rogers City, MI	63	74	87	114	157	163	164	187	183	208	206	206	199	182	177	169	139	142	161	163	134	171	157	110	90	61	31	27	-	-	-	-	-	-	-	-	
Stoneport, MI	75	73	92	118	145	147	147	166	163	190	189	186	181	164	163	151	115	120	146	158	130	154	141	97	76	48	9	-	-	-	-	-	-	-	-	-	
Rockport, MI	79	79	92	119	136	143	143	166	162	187	186	185	178	161	158	148	112	113	132	134	106	142	129	82	62	31	-	-	-	-	-	-	-	-	-	-	
Alpena, MI	107	107	120	143	145	151	152	174	171	195	193	192	185	168	165	156	109	107	124	125	97	129	116	69	49	-	-	-	-	-	-	-	-	-	-	-	
Au Sable, MI	135	135	148	158	160	163	166	183	180	204	202	201	189	177	174	165	98	85	93	86	58	83	69	21	-	-	-	-	-	-	-	-	-	-	-	-	
East Tawas, MI	155	155	168	175	176	180	182	199	196	220	218	217	210	194	190	181	110	94	95	88	60	68	54	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bay City, MI	202	202	215	222	223	228	229	245	243	267	265	264	257	240	237	226	153	136	137	130	102	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Saginaw, MI	216	216	228	235	237	242	242	258	256	280	278	278	271	254	250	241	167	149	151	144	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Harbor Beach, MI	178	178	191	171	171	176	176	194	190	214	213	212	205	188	185	175	79	56	47	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Port Sanilac, MI	207	207	219	197	196	201	201	219	215	239	238	237	230	213	210	200	97	70	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Goderich, Ontario	195	196	204	169	172	172	174	192	189	213	211	210	207	187	183	174	64	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kincardine, Ontario	173	174	174	141	142	149	144	162	158	182	181	180	176	156	153	144	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Southampton, Ontario	166	166	155	122	123	130	125	143	140	163	162	161	157	137	134	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Warton, Ontario (d)	188	158	142	110	88	79	81	74	71	76	74	73	53	36	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Owen Sound, Ontario (d)	197	167	152	119	97	97	89	79	75	71	70	69	46	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Meaford, Ontario (d)	200	169	153	121	96	96	86	71	68	55	53	52	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Collingwood, Ontario (d)	217	186	171	138	108	107	97	80	76	57	55	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Penetanguishene, Ontario	224	187	172	139	106	104	94	72	69	12	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Midland, Ontario (d)	225	186	173	140	107	105	95	73	70	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Port McNicoll, Ontario (d)	227	190	174	142	106	106	97	75	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Depot Harbor, Ontario (d)	193	155	140	107	73	71	62	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Parry Sound, Ontario (d)	197	159	143	111	77	75	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Byng Inlet, Ontario (d)	155	118	102	70	31	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Key Harbor, Ontario (d)	148	110	94	62	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
French River, Ontario (d)	139	101	86	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Little Current, Ontario	86	48	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gore Bay, Ontario	61	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Algoma Mills, Ontario	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thessalon, Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Points in this table are arranged in geographical sequence proceeding from St. Marys River southward along the west shore, and returning northward up the east shore, around Georgian Bay, and westward through North Channel.

(a) From foot of Grand River Avenue
 (b) From sailing course opint north of Old Mackinac Point
 (c) From abreast east end of U.S. center pier and (except those coloured ●) via Middle Neebish and DeTour; distances downbound through West Neebish are 1 mile less
 (d) Distances to Georgian Bay ports (except those coloured ● ● ●) are via the bay entrance from Lake Huron and St. Marys River points and via Little Current from North Channel points

- Via False Detour and North Channels
- Via Mississaqi Straight and North Channel
- Via Lake Nicolet, St. Joseph and North Channels
- Via Potagannissing Bay and North Channel

Distances Between Points on Lake Michigan (statute miles)																																					
	Beaver Island Harbor, MI	Petoskey, MI	Charlevoix, MI	Traverse City, MI	Frankfort, MI	Portage Lake, MI	Manistee, MI	Ludington, MI	Pentwater, MI	White Lake, MI	Muskegon, MI	Grand Haven, MI	Holland, MI	Saugatuck, MI	South Haven, MI	St. Joseph, MI	Michigan City, IN	Gary, IN	Indiana Harbor, IN	South Chicago, IL	Chicago, IL	Waukegan, IL	Kenosha, WI	Racine, WI	Milwaukee, WI	Port Washington, WI	Sheboygan, WI	Manitowoc, WI	Kewaunee, WI	Algoma, WI	Sturgeon Bay, WI	Green Bay, WI	Menominee, MI	Escanaba, MI	Manistique, MI	Port Inland, MI	Old Mackinac Point, MI
Old Mackinac Point, MI (a)	41	55	56	97	122	142	150	173	184	213	224	238	257	263	261	300	325	336	334	333	324	296	282	272	259	237	212	191	170	161	155	198	155	129	75	59	-
Port Inland, MI	31	66	55	88	96	116	123	146	157	186	197	211	229	235	253	271	298	314	308	304	298	270	254	245	226	204	179	161	131	124	110	149	104	78	23	-	
Manistique, MI	43	76	64	94	91	110	118	141	152	182	193	207	225	232	250	268	294	303	301	298	290	260	244	235	220	195	168	146	120	111	103	135	92	66	-	-	
Escanaba, MI	99	113	99	120	91	106	112	130	141	170	181	195	213	220	238	255	280	288	286	283	274	242	226	217	201	176	149	127	100	90	69	101	55	-	-		
Menominee, MI (b)	122*	134*	119*	138*	80	86	87	96	108	135	146	159	177	183	200	216	239	246	243	240	230	198	184	172	155	130	103	81	52	43	22	49	-	-	-		
Green Bay, WI	165*	176	160	178	105	111	112	123	134	159	171	184	202	209	225	242	264	272	268	265	255	223	209	197	180	155	128	106	78	68	47	-	-	-	-		
Sturgeon Bay, WI	123	129	113	131	58	64	65	76	87	113	124	137	155	162	178	195	217	225	222	218	208	176	162	150	133	108	81	58	30	21	-	-	-	-	-		
Algoma, WI	131	135	119	136	59	60	59	66	75	100	111	123	142	146	163	179	200	206	203	200	190	158	142	132	115	89	62	40	12	-	-	-	-	-	-		
Kewaunee, WI	138	143	126	143	62	60	58	61	70	93	104	116	135	141	156	171	192	197	194	191	181	149	133	123	105	79	53	31	-	-	-	-	-	-	-		
Manitowoc, WI	161	163	147	164	79	71	66	60	64	79	90	102	118	123	137	150	169	173	169	166	156	123	107	97	79	53	26	-	-	-	-	-	-	-	-	-	
Sheboygan, WI	180	181	165	182	95	83	76	60	63	68	78	87	102	106	118	130	146	149	146	143	132	99	83	74	55	29	-	-	-	-	-	-	-	-	-	-	
Port Washington, WI	206	205	189	206	119	104	98	80	76	72	77	84	94	97	105	112	124	125	121	118	107	74	58	48	29	-	-	-	-	-	-	-	-	-	-	-	-
Milwaukee, WI	228	227	211	228	140	125	117	97	91	78	80	83	88	89	93	96	104	103	99	96	85	51	35	26	-	-	-	-	-	-	-	-	-	-	-	-	-
Racine, WI	242	241	225	242	153	137	129	108	100	81	80	80	79	80	80	78	84	83	78	75	64	30	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kenosha, WI	252	251	234	252	163	147	138	117	108	86	87	86	82	82	79	75	76	73	67	64	54	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Waukegan, IL	266	265	249	266	177	160	152	130	122	100	96	93	86	84	78	70	64	58	52	49	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chicago, IL	294	293	276	293	204	186	179	156	146	120	114	108	95	90	77	60	38	25	19	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Chicago, IL	302	301	285	302	213	196	188	165	154	127	120	114	100	95	79	60	33	14	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indiana Harbor, IN	304	303	287	304	215	198	189	167	156	129	122	115	99	95	79	59	31	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gary, IN	309	308	292	309	216	199	191	167	157	129	121	114	99	93	77	55	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Michigan City, IN	295	294	278	295	206	189	181	157	146	117	108	99	82	75	57	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
St. Joseph, MI	269	268	251	268	179	162	154	130	119	88	78	69	50	44	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Haven, MI	251	250	233	250	161	144	136	111	101	39	58	49	29	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saugatuck, MI	232	231	215	232	143	126	118	93	83	51	40	29	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Holland, MI	227	226	210	227	137	120	112	88	77	45	34	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grand Haven, MI	206	205	189	206	117	100	92	67	57	25	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Muskegon, MI	195	194	178	195	106	89	80	56	46	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White Lake, MI	184	183	167	184	95	78	69	45	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentwater, MI	154	153	137	154	65	48	39	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ludington, MI	143	142	126	143	54	37	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manistee, MI	118	117	100	118	28	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Portage Lake, MI	110	109	93	110	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Frankfort, MI	93	92	75	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traverse City, MI	69	58	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Charlevoix, MI	33	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petoskey, MI	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beaver Island Harbor, MI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Points in this table are arranged in geographical sequence proceeding southward along the west shore and returning northward along the east shore

(a) From sailing course point north of Old Mackinac Point

(b) Distances from Menominee and Green Bay to Lake Michigan points (except those marked with *) are via Sturgeon Bay Canal

* Via Rock Island Passage

Distances Between Points on Lake Superior (statute miles)												
	Gargantua Harbor, Ontario Michipicoten, Ontario Quebec Harbor, Ontario	Peninsula Harbor, Ontario Rosspport, Ontario Thunder Bay, Ontario	Passage Island, MI Rock of Ages, MI Grand Marais, MN	Taconite, MN Silver Bay, MN Two Harbors, MN	Duluth, MN Superior, WI Port Wing, WI	Bayfield, WI Ashland, WI Ontonagon, MI	Keweenaw, MI (upper entry) Houghton, MI Dollar Bay, MI	Lake Linden, MI Chassell, MI Portage Entry, MI	Eagle Harbor, MI Copper Harbor, MI Mendota Canal, MI	L'Anse, MI Huron Bay, MI Marquette, MI	Munising, MI Grand Marais, MI Whitefish Point, MI	Sault Ste. Marie, MI Old Mackinac Point, MI Port Huron, MI
Port Huron, MI (a)	360 391 385	465 503 542	498 532 574	603 621 640	664 662 633	606 618 544	501 490 487	493 485 476	473 458 458	486 473 429	400 361 311	269 247 -
Old Mackinac Point, MI (b)	181 212 206	285 324 363	319 353 395	426 444 461	485 483 454	426 439 365	322 311 308	314 306 297	294 279 279	307 294 249	221 182 134	90 -
Sault Ste. Marie, MI (c)	91 121 116	195 234 273	229 263 305	334 352 371	394 393 364	336 349 274	232* 221 218	224 215 207	204 189 189	217 204 159	131 92 42	-
Whitefish Point, MI	54 83 74	153 192 231	187 221 263	292 310 329	352 351 322	294 307 323	190* 179 176	182 173 165	162 147 147	175 162 117	89 50 -	-
Grand Marais, MI	78 102 70	144 171 198	154 182 224	255 270 289	312* 310* 282*	252* 264* 187*	143* 133 130	135 127 119	123 108 105	129 114 68	40 -	-
Munising, MI	112 136 97	162 179 193	150 174 212*	145 260 271*	293* 291* 263*	233* 245* 168*	124* 114 111	116 108 99	113 100 93	110 93 42	-	-
Marquette, MI	135 154 112	160 164 171	128 149* 181*	228 239 239*	261* 260* 231*	201* 213* 136*	93* 84 81	84 76 68	91 76 67	78 62 -	-	-
Huron Bay, MI	165 179 132	159 152 157	113 110* 142*	156* 181* 201*	223* 222* 193*	163* 175* 98*	54* 44 41	46 38 30	74 60 44	39 -	-	-
L'Anse, MI	179 192 146	169 162 145*	108 95* 127*	151* 168* 186*	208* 206* 178*	148* 160* 83*	39* 29 26	31 23 14	70 71 51	-	-	-
Mendota Canal, MI	138 152 105	125 117 122	78 103 145	172 190 212	234 232 204	174* 186* 110*	69* 55 52	58 50 41	42 27 -	-	-	-
Copper Harbor, MI	137 145 100	112 99 100	56 77 119	142 161 185	208 206 178	150 163 88	45 56 59	71 65 60	16 -	-	-	-
Eagle Harbor, MI	151 159 114	122 102 96	53 65 105	129 146 170	194 192 163	135 147 72	31 41 45	57 50 56	-	-	-	-
Portage Entry, MI	168 181 135	157 149 130*	94 81* 113*	136 153 171*	193* 192* 163*	133* 145* 68*	25* 14 11	17 9 -	-	-	-	-
Chassell, MI	177 190 143	166 145 125	89 76 108	128 146 166	188 187 158	128 140 63	20 9 6	12 -	-	-	-	-
Lake Linden, MI	185 198 115	174 151 131	95 82 113	136 153 172	194 193 163	134 146 69	26 15 11	-	-	-	-	-
Dollar Bay, MI	180 192 146	163 139 119	83 70 102	122 140 160	182 181 152	122 134 57	14 3 -	-	-	-	-	-
Houghton, MI	182 195 146	160 136 116	80 67 99	118 135 157	179 178 149	119 131 54	11 -	-	-	-	-	-
Keweenaw, MI (upper entry)	180 187 142	149 126 105	69 56 88	108 125 147	168 167 139	109 120 44	-	-	-	-	-	-
Ontonagon, MI	221 228 183	189 165 117	103 68 76	86 95 114	136 135 106	74 82 -	-	-	-	-	-	-
Ashland, WI	295 304 258	261 227 164	165 115 85	77 62 71	93 92 63	16 -	-	-	-	-	-	-
Bayfield, WI	282 291 246	254 221 149	152 99 70	60 45 57	78 77 49	-	-	-	-	-	-	-
Port Wing, WI	312 319 275	272 233 169	175 121 83	56 35 22	34 32 -	-	-	-	-	-	-	-
Superior, WI	340 347 303	300 259 195	199 147 107	78 54 28	7 -	-	-	-	-	-	-	-
Duluth, MN	342 349 305	300 259 195	200 147 105	77 53 26	-	-	-	-	-	-	-	-
Two Harbors, MN	319 327 281	277 236 172	177 124 82	55 27 -	-	-	-	-	-	-	-	-
Silver Bay, MN	300 302 2260	250 210 145	156 100 55	25 -	-	-	-	-	-	-	-	-
Taconite, MN	280 283 240	227 190 130	136 78 31	-	-	-	-	-	-	-	-	-
Grand Marais, MN	252 256 214	199 157 92	99 47 -	-	-	-	-	-	-	-	-	-
Rock of Ages, MI	209 213 171	155 112 49	53 -	-	-	-	-	-	-	-	-	-
Passage Island, MI	164 166 127	102 63 44	-	-	-	-	-	-	-	-	-	-
Thunder Bay, Ontario (d)	208 209 171	142 102 -	-	-	-	-	-	-	-	-	-	-
Rosspport, Ontario	157 155 125	71 -	-	-	-	-	-	-	-	-	-	-
Peninsula Harbor, Ontario	114 112 86	-	-	-	-	-	-	-	-	-	-	-
Quebec Harbor, Ontario	41 49 -	-	-	-	-	-	-	-	-	-	-	-
Michipicoten, Ontario	32 -	-	-	-	-	-	-	-	-	-	-	-
Gargantua Harbor, Ontario	-	-	-	-	-	-	-	-	-	-	-	-

Points in this table are arranged in geographical sequence proceeding westward along the south shore and returning eastward around the north shore

(a) From foot of Grand River Avenue
 (b) From sailing course point north of Old Mackinac Point
 (c) From abeam of east end of United States center pier
 (d) old Port Arthur
 * Via Keweenaw Waterway

New York State Waterway Distances (statute miles)			
City and local point	From Buffalo (Erie Basin)	From Oswego (Lake Terminal)	From Troy Lock
via Erie Canal			
Buffalo (Erie Basin)	-	214.2	353.3
Tonawand (terminal)	12.9	201.3	340.3
Lockport (lower terminal)	30.9	183.3	322.3
Rochester	93.9	126.9	265.9
Newark (dock)	124.3	89.9	228.9
Syracuse (terminal)	190.1	37.2	176.2
Rome (terminal)	235.9	69.1	117.3
Utica (terminal)	249.9	83.1	104.9
Little Falls (terminal)	270.8	104	82.5
Amsterdam (terminal)	313.3	146.5	40
Schenectady	330.1	163.3	23.8
Cohoes	351.6	184.8	1.7
Troy Lock	353.3	186.5	-
via Cayuga and Seneca Canals			
Watkins Glen	201.4	116.8	255.9
Ithaca	191.4	106.7	245.8
via Oswego Canal			
Fulton (dock wall)	202.5	11.7	174.7
Oswego (lake terminal)	214.2	-	186.5
via Champlain Canal and Lake			
Mechanicville (terminal)	360.1	193.3	11.4
Fort Edward (terminal)	388.7	222	40.1
Whitehall (terminal)	411.2	244.5	62.6
Burlington (landing)	481.8	315.1	133.1
Plattsburg (terminal)	497.2	330.5	148.5
Rouses Point (terminal)	593.3	366.5	173.0

Pacific Distances

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Pacific Coast Distances (nautical miles)																										
	Midway Island	Port Allen, HI	Nawiliwili, HI	Pearl Harbor, HI	Honolulu, HI	Kahalui, HI	Kawaihae, HI	Hilo, HI	Kuluk Bay, AK	Unimak Pass, AK	Kodiak, AK	Anchorage, AK	Seward, AK	Port Valdez, AK	Cape Spencer, AK	Sitka, AK	Ketchikan, AK	Seattle, WA	Swiftsure Bank, WA	Cape Flattery, WA	Portland, OR	Astoria, OR	San Francisco, CA	Los Angeles, CA	Long Beach, CA	San Diego, CA
Panama Canal 8°53.0'N., 79°31.0'W.	5707	4777	4767	4690	4685	4609	4594	4527	5604	5228	4924	5117	4940	4984	4603	4538	4387	4044	-	3920	3888	3803	3270	2939	2939	2867
San Diego, CA 32°43.0'N., 117°10.5'W.	3097	2347	2330	2283	2278	2212	2219	2175	2806	2412	2115	2303	2124	2174	1787	1723	1575	1228	-	1104	1074	989	455	95	94	-
Long Beach, CA 33°46.2'N., 118°13.3'W.	3034	2302	2284	2241	2236	2173	2183	2143	2725	2331	2034	2223	2043	2092	1707	1643	1497	1148	-	1024	992	908	374	3	-	-
Los Angeles, CA 33°45.0'N., 118°16.2'W.	3031	2299	2281	2238	2233	2170	2180	2140	2722	2328	2031	2220	2040	2089	1703	1639	1493	1144	-	1020	989	904	371	-	-	-
San Francisco, CA 37°48.5'N., 122°24.0'W.	2792	2146	2128	2096	2091	2036	2051	2019	2403	1990	1693	1882	1702	1745	1366	1302	1156	807	-	683	652	567	-	-	-	-
Astoria, OR 46°11.7'N., 123°50.0'W.	2724	2281	2262	2251	2246	2207	2235	2214	2071	1626	1261	1435	1242	1239	883	815	660	278	-	153	85	-	-	-	-	-
Portland, OR 45°33.0'N., 122°41.7'W.	2809	2366	2347	2336	2331	2292	2320	2299	2156	1711	1346	1520	1327	1324	968	900	745	362	-	238	-	-	-	-	-	-
Cape Flattery, WA 48°26.0'N., 124°47.0'W.	2694	2308	2289	2290	2285	2245	2276	2260	-	-	-	-	-	-	-	-	-	124	10	-	-	-	-	-	-	-
Swiftsure Bank, WA 48°31.0'N., 125°00.0'W.	-	-	-	-	-	-	-	-	1973	1510	1124	1294	1100	1100	739	681	518	134	-	-	-	-	-	-	-	-
Seattle, WA 47°36.2'N., 122°20.3'W.	2818	2432	2413	2414	2409	2369	2400	2384	2107	1644	1258	1428	1234	1234	976*	815	659*	-	-	-	-	-	-	-	-	-
Ketchikan, AK 55°20.5'N., 131°38.7'W.	2570	2387	2368	2388	2383	2361	2405	2398	1656	1193	742	892	682	713	307	224	-	-	-	-	-	-	-	-	-	-
Sitka, AK 57°03.1'N., 135°20.5'W.	2481	2380	2361	2390	2385	2365	2412	2410	1490	1027	564	708	464	479	85	-	-	-	-	-	-	-	-	-	-	-
Cape Spencer, AK 58°10.0'N., 136°38.3'W.	2472	2407	2388	2416	2411	2398	2445	2447	1450	987	505	641	422	400	-	-	-	-	-	-	-	-	-	-	-	-
Port Valdez, AK 61°06.0'N., 146°24.0'W.	2386	2445	2429	2473	2468	2463	2513	2524	1224	761	280	385	144	-	-	-	-	-	-	-	-	-	-	-	-	-
Seward, AK 60°06.0'N., 149°26.0'W.	2250	2351	2332	2378	2373	2377	2432	2439	1115	652	175	274	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anchorage, AK 61°14.2'N., 149°53.3'W.	2305	2459	2440	2482	2477	2479	2535	2542	1151	688	242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kodiak, AK 57°47.1'N., 152°25.1'W.	2088	2203	2184	2235	2230	2233	2289	2296	968	505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unimak Pass, AK 54°20.0'N., 164°45.0'W.	1680	1972	1963	2024	2028	2044	2110	2126	463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kuluk Bay, AK 51°51.6'N., 176°37.6'W.	1460	1990	1989	2057	2061	2099	2164	2198	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hilo, HI 19°44.1'N., 155°03.5'W.	1338	297	287	201	196	121	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kawaihae, HI 20°02.3'N., 155°49.9'W.	1278	240	230	145	140	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kahalui, HI 20°54.0'N., 156°28.2'W.	1232	193	181	94	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Honolulu, HI 21°18.5'N., 157°52.3'W.	1150	106	96	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pearl Harbor, HI 21°20.0'N., 157°58.3'W.	1146	102	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nawiliwili, HI 21°57.4'N., 159°21.5'W.	1069	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Allen, HI 24°51.1'N., 159°35.6'W.	1042	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Midway Island 28°13.0'N., 177°22.0'W.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* via inside passage

Distances on Columbia River System (nautical and statute miles)																											
	Johnson Bar Landing, ID	Lewiston, ID	Central Ferry, WA	Ice Harbor Dam, WA	Harrisburg, OR	Corvallis, OR	Albany, OR	Salem, OR	Oregon City, OR	Portland, OR	Richland, WA	Pasco, WA	Port of Walla Walla, WA	McNary Lock & Dam	Umatilla, OR	Arlington, OR	John Day Lock & Dam	The Dalles Lock & Dam	Hood River (town), OR	Bonneville Lock & Dam	Vancouver, WA	St. Helens, OR	Longview, WA	Astoria, OR	Warrenton, OR	Ilwaco, WA	Columbia River (mouth)
Columbia River (mouth)	483	404	354	291	230	203	192	162	110	97	293	285	276	254	251	210	188	166	148	126	92	75	58	12	11	6	•
Ilwaco, WA	484	404	355	292	230	203	193	163	111	98	294	286	276	254	252	211	189	167	149	127	93	76	59	13	12	•	7
Warrenton, OR	475	396	346	283	222	195	184	154	103	89	285	277	268	246	244	202	180	159	140	118	84	67	50	4	•	14	13
Astoria, OR	470	391	342	278	217	190	180	149	98	85	281	273	263	241	239	198	175	154	136	114	80	62	45	•	5	15	14
Longview, WA	425	345	296	233	171	144	134	104	52	39	235	227	217	195	193	152	130	108	90	68	34	17	•	52	58	68	67
St. Helens, OR	411	332	282	219	158	131	121	90	39	25	222	214	204	182	180	138	117	95	76	55	20	•	20	71	77	87	86
Vancouver, WA	391	312	262	199	145	118	108	77	26	13	202	193	184	162	160	118	96	75	56	35	•	23	39	92	97	107	106
Bonneville Lock & Dam	356	277	228	164	180	153	142	112	61	47	167	159	149	127	125	84	62	40	22	•	40	63	78	131	136	146	145
Hood River (town), OR	335	256	206	143	201	174	164	134	82	69	145	137	128	106	103	62	40	18	•	5	64	87	104	157	161	171	170
The Dalles Lock & Dam	316	237	188	124	220	193	183	152	101	87	127	119	109	87	85	44	22	•	21	46	86	109	124	177	183	192	191
John Day Lock & Dam	294	215	166	102	242	215	204	174	123	109	105	97	87	65	63	22	•	25	46	71	110	135	150	203	207	217	216
Arlington, OR	273	194	144	81	263	236	226	195	144	130	83	75	66	44	42	•	25	51	71	97	136	159	175	228	232	243	242
Umatilla, OR	231	152	103	39	305	278	268	237	186	172	42	34	24	2	•	48	72	98	119	144	184	207	222	275	281	290	289
McNary Lock & Dam	229	150	101	37	307	280	270	239	188	174	40	32	22	•	2	51	75	100	122	146	186	209	224	277	283	292	292
Port of Walla Walla, WA	207	128	79	15	329	302	292	261	210	196	18	10	•	25	28	76	100	125	147	171	212	235	250	303	308	318	318
Pasco, WA	204	125	75	12	339	312	301	271	220	206	8	•	12	37	39	86	112	137	158	183	222	246	261	314	319	329	328
Richland, WA	212	133	83	20	347	320	309	279	228	214	•	9	21	46	48	96	121	146	167	192	232	255	270	323	328	338	337
Portland, OR	403	324	275	211	133	106	96	65	14	•	246	237	226	200	198	150	125	100	79	54	15	29	45	98	102	113	112
Oregon City, OR	417	338	288	225	119	92	82	51	•	16	262	253	242	216	214	166	142	116	94	70	30	45	60	113	119	128	127
Salem, OR	468	389	340	276	68	41	31	•	59	75	321	312	300	275	273	224	200	175	154	129	89	104	120	171	177	188	186
Albany, OR	499	420	370	307	37	10	•	36	94	110	356	346	336	311	308	260	235	211	189	163	124	139	154	207	212	222	221
Corvallis, OR	509	430	380	317	27	•	12	47	106	122	368	359	348	322	320	272	247	222	200	176	136	151	166	219	224	234	234
Harrisburg, OR	536	457	407	344	•	31	43	78	137	153	399	390	379	353	351	303	278	253	231	207	167	182	197	250	255	265	265
Ice Harbor Dam, WA	192	113	63	•	396	365	353	318	259	243	23	14	17	43	45	93	117	143	165	189	229	252	268	320	326	336	335
Central Ferry, WA	129	50	•	72	468	437	426	391	331	316	96	86	91	116	119	166	191	216	237	262	302	325	341	394	398	409	407
Lewiston, ID	79	•	58	130	526	495	483	448	389	373	153	144	147	173	175	223	247	273	295	319	359	382	397	450	456	465	465
Johnson Bar Landing, ID	•	91	148	221	617	586	574	539	480	464	244	235	238	264	266	314	338	364	386	410	450	473	489	541	547	557	556

Yukon River, Alaska Distances
(nautical miles)

From Apoon Pass
(63°02.6'N., 163°22.3'W.)

Hamilton	22
Azacharak	85
Pilot Station	115
Marshall	153
Russian Mission	195
Paimiut	231
Holy Cross	257
Anvik	292
Kaltag	409
Nulato	438
Koyukuk	453
Galena	481
Ruby	526
Kokrines	556
Tanana	628
Rampart	688
Stevens	762
Beaver	835
Fort Yukon	896
Circle	959
Coal Creek	1,002
Nation	1,047
Eagle	1,089
U.S.-Canada International Boundary	1,099
Fortymile, Canada	1,149
Dawson, Canada	1,197

Miscellaneous Tables

Table for Estimating Time of Transit																																																									
Distance (nautical miles)	Speed (knots)																																																								
	8			9			10			11			12			13			14			15			16			17			18			19			20			21			22			23			24			25			30		
	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours	days/ hours																		
10	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1																		
20	0/3	0/2	0/2	0/2	0/2	0/2	0/2	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1																		
30	0/4	0/3	0/3	0/3	0/3	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2																		
40	0/5	0/4	0/4	0/4	0/4	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3																		
50	0/6	0/6	0/5	0/5	0/4	0/4	0/4	0/4	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3																		
60	0/8	0/7	0/6	0/5	0/5	0/5	0/5	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4																		
70	0/9	0/8	0/7	0/6	0/6	0/5	0/5	0/5	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4																		
80	0/10	0/9	0/8	0/7	0/7	0/6	0/6	0/5	0/5	0/5	0/5	0/5	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4	0/4																		
90	0/11	0/10	0/9	0/8	0/8	0/7	0/6	0/6	0/6	0/6	0/6	0/6	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5																			
100	0/13	0/11	0/10	0/9	0/8	0/8	0/7	0/7	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6	0/6																		
200	1/1	0/22	0/20	0/18	0/17	0/15	0/14	0/13	0/13	0/12	0/11	0/11	0/10	0/10	0/9	0/9	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8																		
300	1/14	1/9	1/6	1/3	1/1	0/23	0/21	0/20	0/19	0/18	0/17	0/16	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11	0/11	0/10	0/10	0/9	0/9	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8	0/8																		
400	2/2	1/20	1/16	1/12	1/9	1/7	1/5	1/3	1/1	1/0	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11	0/11	0/11	0/10	0/10	0/10	0/10	0/10	0/10	0/10																			
500	2/15	2/8	2/2	1/21	1/18	1/14	1/12	1/9	1/7	1/5	1/4	1/2	1/1	1/0	0/23	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11	0/11	0/11	0/10	0/10																			
600	3/3	2/19	2/12	2/7	2/2	1/22	1/19	1/16	1/14	1/11	1/9	1/8	1/6	1/5	1/3	1/2	1/1	1/1	1/0	0/23	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12																			
700	3/16	3/6	2/22	2/16	2/10	2/6	2/2	1/23	1/20	1/17	1/15	1/13	1/11	1/9	1/8	1/6	1/5	1/4	0/23	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11																			
800	4/4	3/17	3/8	3/1	2/19	2/14	2/9	2/5	2/2	1/23	1/20	1/18	1/16	1/14	1/12	1/11	1/9	1/8	0/23	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11																			
900	4/17	4/4	3/18	3/10	3/3	2/21	2/16	2/12	2/8	2/5	2/2	1/23	1/21	1/19	1/17	1/15	1/14	1/12	0/23	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11																			
1000	5/5	4/15	4/4	3/19	3/11	3/5	2/23	2/19	2/15	2/11	2/8	2/5	2/2	2/0	1/21	1/19	1/18	1/16	0/23	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11																			
2000	10/10	9/6	8/8	7/14	6/23	6/10	5/23	5/13	5/5	4/22	4/15	4/9	4/4	3/23	3/19	3/15	3/11	3/8	0/23	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11																			
3000	15/15	13/21	12/12	11/9	10/10	9/15	8/22	8/8	7/20	7/8	6/23	6/14	6/6	5/23	5/16	5/10	5/5	5/0	0/23	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11																			
4000	20/20	18/21	16/16	15/4	13/21	12/20	11/22	11/3	10/10	9/19	9/6	8/19	8/8	7/22	7/14	7/6	6/23	6/16	0/23	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11																			
5000	26/1	23/4	20/20	18/23	17/9	16/1	14/21	13/21	13/1	12/6	11/14	10/23	10/10	9/22	9/11	9/1	8/16	8/8	0/23	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11																			
6000	31/6	27/19	25/0	22/17	20/20	19/6	17/21	16/16	15/15	14/17	13/21	13/4	12/12	11/22	11/9	10/21	10/10	10/0	0/23	0/22	0/21	0/20	0/19	0/18	0/18	0/17	0/17	0/16	0/16	0/15	0/15	0/14	0/14	0/13	0/13	0/12	0/12	0/11																			

Determination of Wind Speed by Sea Condition					
Miles per hour	Knots	Descriptive	Sea Conditions	Wind Force (Beaufort)	Probable Wave Height (feet)
0-1	0-1	Calm	Sea smooth and mirror like	0	-
1-3	1-3	Light Air	Scale-like ripples without foam crests	1	¼
4-7	4-6	Light Breeze	Small, short wavelets; crests have a glassy appearance and do not break.	2	½
8-12	7-10	Gentle Breeze	Large wavelets; some crests begin to break; foam has glassy appearance. Occasional white foam crests.	3	2
13-18	11-16	Moderate Breeze	Small waves, become longer; fairly frequent white foam crests.	4	4
19-24	17-21	Fresh Breeze	Moderate waves, taking a more pronounced long form; many white foam crests; there may be some spray.	5	6
25-31	22-27	Strong Breeze	Large waves begin to form; white foam crests are more extensive everywhere; there may be some spray.	6	10
32-38	28-33	Near Gale	Sea heaps up and white foam from breaking waves begin to be blown in streaks along the direction of the wind; spindrift begins.	7	14
39-46	34-40	Gale	Moderately high waves of greater length; edges of crests break into spindrift; foam is blown in well-marked streaks along the direction of the wind.	8	18
47-54	41-47	Strong Gale	High waves; dense streaks of foam along the direction of the wind; crests of waves begin to topple, tumble and roll over; spray may reduce visibility.	9	23
55-63	48-55	Storm	Very high waves with long overhanging crests. The resulting foam in great patches is blown in dense white streaks along the direction of the wind. On the whole, the surface of the sea is white in appearance. The tumbling of the sea becomes heavy and shock-like. Visibility is reduced.	10	29
64-72	56-63	Violent Storm	Exceptionally high waves that may obscure small and medium-sized ships. The sea is completely covered with long white patches of foam lying along the direction of the wind. Everywhere the edges of the wave crests are blown into froth. Visibility is reduced.	11	37
73+	64+	Hurricane	The air is filled with foam and spray. Sea completely white with driving spray; visibility is very much reduced.	12	45

Conversion Factors			
	Known Value	Multiply By	Unknown Value
Linear	inches	25.40	millimeters
		2.540	centimeters
	centimeters	0.032808	feet
	feet	30.48	centimeters
		0.3048	meters
		0.00016458	nautical miles
	yard	0.9144	meters
	meters	3.2808	feet
		1.094	yards
		0.0005399	nautical miles
statute miles	0.86897	nautical miles	
	1.6093	kilometers	
	1,609.3	meters	
nautical miles	1.151	statute miles	
Area	square feet	0.0929	square meters
		0.00002296	acres
	square meters	10.764	square feet
		0.0002471	acres
	acres	4,046.9	square meters
43,560		square feet	
0.404685		hectare	
hectare	2.471054	acres	
	10,000	square meters	
	1.07639x10 ⁶	square feet	
Depths	fathoms	1.8288	meters
	meters	0.54681	fathoms
		3.2808	feet
feet	0.3048	meters	
Rate	feet per second	0.5925	knots
		0.6818	miles per hour
		30.48	centimeters per second
	statute miles per hour	0.8689	knots
		1.467	feet per second
		0.447	meters per second
	knots	1.151	miles per hour
0.5144		meters per second	
	1.6878	feet per second	
centimeters per second	0.01944	knots	
	0.02237	miles per hour	
	0.032808	feet per second	
Mass	grams	0.035275	ounces
		0.002205	pounds
	ounces	28.349	grams
	pounds	0.45359	kilograms
	short tons	2,000	pounds
0.89286		long tons	
	0.9072	metric tons	

Mass	long tons	2,240	pounds
		1.12	short tons
		1.016	metric tons
metric tons		1,000	kilograms
		0.9842	long tons
		1.1023	short tons
Volume	barrels (petroleum)	42	gallons (US)
		158.99	liters
	barrels (liquid, US)	31.5	gallons (US)
		26.229	gallons (British)
		119.24	liters
	gallons (US)	0.02381	barrels (petroleum)
		3.7854	liters
liters	0.26417	gallons (US)	

Measurements and Equivalencies	
Unit	Equivalency
nautical mile	1,852 meters 6,076.12 feet
statute mile	5,280 feet 1,609.3 meters 1.6093 kilometers
cable	0.1 nautical mile (CN) 720 feet (US)
fathom	6 feet 1.8288 meters
foot	0.3048 meter
inch	2.54 centimeters
meter	39.37 inches 3.281 feet 1.0936 yards
kilometer	1,000 meters
knot	1.6877 feet per second 0.5144 meters per second
miles per hour (statute)	1.466 feet per second 0.44704 meters per second
acre	43,560 square feet 4,046.82 square meters
pound (avoirdupois)	453.59 gram
gram	0.0022046 pound (avoirdupois) 0.035274 ounce
short ton	2,000 pounds
long ton	2,240 pounds
metric ton	2,204.6 pounds
kilogram	2.2 pounds
liter	1.0567 quarts
barrel (petroleum)	42 gallons (US)

Appendix

Sales Information

NOAA publications, nautical charts and unclassified National Geospatial-Intelligence Agency (NGA) nautical charts are sold by authorized sales agents in many U.S. ports and in some foreign ports. Information on obtaining charting products and a listing of authorized agents can be found at <http://nauticalcharts.noaa.gov>.

Reporting corrections for NOAA Nautical Publications

Users are requested to report all significant discrepancies or additions to NOAA Coast Pilots, including depth information in privately maintained channels and basins; obstructions, wrecks, and other dangers; new, relocated, or demolished landmarks; uncharted fixed private aids to navigation; deletions or additions of small-craft facilities and any other information pertinent to safe navigation. This information may be submitted using the NOAA Office of Coast Survey website:

<http://nauticalcharts.noaa.gov/discrepancy>.

All correspondence should be addressed to:

Department of Commerce, NOAA
Nautical Data Branch
N/CS261, Station 7331
1315 East-West Highway
Silver Spring, MD 20910

New York State Canal

The National Ocean Service provides chart coverage of the New York State Canal System from the Hudson River at Troy, NY, as far west as Lyons, NY. (See National Ocean Service Sales Information, above.) Coverage of the canal system from Syracuse west to the Niagra River at Tonawanda, NY, is detailed in the New York State Canal System Cruising Guide, available on the internet at <http://www.canals.ny.gov>.

National Geospatial-Intelligence Agency (NGA), Department of Defense

The National Geospatial-Intelligence Agency provides hydrographic, navigational, topographic, and geodetic data, charts, maps, and related products and services to the Armed Forces, other Federal Agencies, the Merchant Marine and mariners in general. Publications include Sailing Directions, List of Lights, Distances Between Ports, Radio Navigational Aids, International Code of Signals, American Practical Navigator (Bowditch), and Notice to Mariners.

National Geospatial-Intelligence Agency Procurement Information

Unclassified publications produced by the National Geospatial-Intelligence Agency (NGA) are available from the U.S. Government Printing Office, Superintendent of

Documents, P.O. Box 371954, Pittsburgh, PA 15250-1954. Orders can be placed on the U.S. Government Online Bookstore (<http://bookstore.gpo.gov>), by phone (202-512-1800) or (866-512-1800), or by FAX (202-512-2250.)

Classified NGA publications and charts are available to authorized users from the National Geospatial-Intelligence Agency or from the Defense Supply Center Richmond (Attn: JNAA), 8000 Jefferson Davis Highway, Richmond, VA 23297-5336. Defense Supply Center Richmond, Customer Assistance Office may be contacted at 1-800-826-0342.

U.S. Army Corps of Engineer, Chart Coverage

Many of the inland waters tabulated in this publication are charted by the U.S. Army Corps of Engineers. The charts are sold by the U.S. Army Corps of Engineers which have cognizance of the waters. The telephone number listed is direct to chart sales. District Engineer, St. Louis, has delegated chart sales to a private organization (see District Engineer, St. Louis, below.)

U.S. Army Corps of Engineer Offices: Districts

U.S. Army Engineer District,
Vicksburg (CEMVK)
Attn: Map Sales
4155 Clay Street
Vicksburg, MS 39183-3435
Telephone 601-631-5000
<http://www.mvk.usace.army.mil>

U.S. Army Engineer District,
St. Louis (CEMVS)
Attn: River Chart Orders
714 North Second Street
St. Louis, MO 63102
Telephone 314-678-1553 or 866-716-1906
(chart sales are by Jefferson National Parks Association)
<http://www.mvs.usace.army.mil>

U.S. Army Engineer District,
Memphis (CEMVM)
Attn: Map Sales, Rm. B202
167 North Main Street
Memphis, TN 38103-1894
Telephone 901-544-3403
<http://www.mvm.usace.army.mil>

U.S. Army Engineer District,
New Orleans (CEMVN)
Attn: Map Sales / room 108
P.O. Box 60267

New Orleans, LA 70160-0267
Telephone 504-862-2264
<http://www.mvn.usace.army.mil>

U.S. Army Engineer District,
Rock Island (CEMVR)
P.O. Box 2004
Clock Tower Building
Rock Island, IL 61204-2004
Telephone 309-794-5235
<http://www.mvr.usace.army.mil>

U.S. Army Engineer District,
Louisville (CELRL)
P.O. Box 59
Louisville, KY 40201-0059
Telephone 502-315-6639
<http://www.lrl.usace.army.mil>

U.S. Army Engineer District,
Huntington (CELRH)
502 8th Street
Huntington, WV 25701-2070
Telephone 304-399-5261
<http://www.lrh.usace.army.mil>

U.S. Army Engineer District,
Pittsburgh (CELRP)
William S. Moorehead Federal Building
1000 Liberty Avenue
Pittsburgh, PA 15222-4186
Telephone 412-395-7490
<http://www.lrp.usace.army.mil>

U.S. Army Engineer District,
Nashville (CELRN)
Attn: Map Section
P.O. Box 1070
Nashville, TN 37202-1070
Telephone 615-736-7687
<http://www.lrn.usace.army.mil>

U.S. Army Engineer District,
Kansas City (CENWK)
700 Federal Building
Kansas City, MO 64106-2896
Telephone 816-389-3983
Chart Sales available from U.S. Army Corps of Engineers,
Missouri River Information Center,
P.O. Box 710,
Yankton, SD 57078
Telephone 866-285-3219
<http://www.nwk.usace.army.mil>

U.S. Army Engineer District,
Omaha (CENWO)
215 North 17th Street Rm. 1604
Omaha, NE 68128

Telephone 402-995-2910
(Chart Sales available from U.S. Army Corps of Engineers,
Missouri River Information Center,
P.O. Box 710
Yankton, SD 57078
Telephone 866-285-3219
<http://www.nwo.usace.army.mil>

U.S. Army Corps of Engineers Chart Sales Information

**Mississippi River Flood Control and Navigation Maps of the
Mississippi River Cairo, IL, to Gulf of Mexico**
(a available from District Engineers, New Orleans, Vicksburg,
and Memphis; and from JNEHA, see District Engineer, St.
Louis, preceding.)
<http://www.mvd.usace.army.mil/gis/navbook/main.html>

Upper Mississippi River Navigation Charts
Mississippi Valley Division
(available from District Engineers, St. Paul and Rock
Island.)

**Charts of Illinois Waterway, from Mississippi River at
Grafton, IL, to Lake Michigan at Chicago**
(available from District Engineer, Rock Island.)

Navigation Charts Ohio River
Louisville District
Cairo, IL, to Foster, KY
(available from District Engineers, Louisville, Huntington
and Pittsburgh.)

Navigation Charts Ohio River
Huntington District
Foster, KY, to New Martinsville, WV
(available from District Engineers, Louisville, Huntington
and Pittsburgh.)

Navigation Charts Ohio River
Pittsburgh District
New Martinsville, WV to Pittsburgh, PA
(available from District Engineers, Louisville, Huntington
and Pittsburgh.)

Tennessee River Navigation Charts
Nashville District
Paducah, KY to Knoxville, TN
(available from District Engineer, Nashville.)

Missouri River Navigation Charts
Kansas City District
Kansas City, MO to the mouth of Missouri River
[http://www.nwk.usace.army.mil/Missions/CivilWorks/
Navigation.aspx](http://www.nwk.usace.army.mil/Missions/CivilWorks/Navigation.aspx)

Missouri River Navigation Charts
Omaha District
Sioux City, IA to Kansas City, MO
(available from U.S. Army Corps of Engineers, Missouri
River Information Center, P.O. Box 710, Yankton, SD 57078,
Telephone 866-285-3219.)

State Abbreviations

Alabama	AL
Alaska	AK
American Samoa	AS
Arizona	AZ
Arkansas	AR
California	CA
Canada	CN
Colorado	CO
Connecticut	CT
Delaware	DE
District of Columbia	DC
Florida	FL
Georgia	GA
Guam	GU
Hawaii	HI
Idaho	ID
Illinois	IL
Indiana	IN
Iowa	IA
Kansas	KS
Kentucky	KY
Louisiana	LA
Maine	ME
Maryland	MD
Marshall Islands	MH
Massachusetts	MA
Mexico	MX
Michigan	MI
Minnesota	MN
Mississippi	MS

Missouri	MO
Montana	MT
Nebraska	NE
Nevada	NV
New Hampshire	NH
New Jersey	NJ
New Mexico	NM
New York	NY
North Carolina	NC
North Dakota	ND
Northern Mariana Islands	MP
Ohio	OH
Oklahoma	OK
Oregon	OR
Pennsylvania	PA
Puerto Rico	PR
Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
United States	US
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