

Table I.—DISTANCES BETWEEN POINTS ON GREAT LAKES

| | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | | |
|-----------------------------------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|---|---|--|--|
| 1 Thunder Bay (Port Arthur)..... | 1222 | 1096 | 1034 | 903 | 1016 | 965 | 848 | 864 | 795 | 768 | 754 | 720 | 711 | 694 | 658 | 604 | 542 | 530 | 531 | 506 | 505 | 410 | 530 | 587 | 699 | 896 | 621 | 500 | 492 | 273 | | | | | | | |
| 2 Two Harbors..... | 1320 | 1194 | 1132 | 1001 | 1114 | 1063 | 946 | 963 | 893 | 866 | 852 | 828 | 809 | 792 | 757 | 702 | 640 | 630 | 630 | 604 | 603 | 508 | 633 | 695 | 791 | 785 | 720 | 639 | 590 | 371 | | | | | | | |
| 3 Ashland..... | 1344 | 1218 | 1156 | 1025 | 1138 | 1087 | 973 | 986 | 917 | 890 | 876 | 851 | 833 | 816 | 781 | 726 | 664 | 661 | 653 | 628 | 627 | 532 | 657 | 709 | 820 | 808 | 743 | 693 | 614 | 394 | | | | | | | |
| 4 Duluth..... | 1298 | 1172 | 1110 | 979 | 1092 | 1041 | 974 | 941 | 871 | 844 | 830 | 806 | 788 | 771 | 734 | 680 | 618 | 616 | 608 | 583 | 581 | 486 | 612 | 663 | 775 | 763 | 698 | 637 | 508 | 349 | | | | | | | |
| 5 Houghton..... | 1170 | 1044 | 982 | 851 | 964 | 913 | 798 | 813 | 743 | 716 | 702 | 678 | 659 | 643 | 606 | 552 | 490 | 488 | 480 | 455 | 453 | 358 | 484 | 535 | 597 | 585 | 510 | 467 | 330 | | | | | | | | |
| 6 Marquette..... | 1109 | 983 | 921 | 790 | 903 | 852 | 735 | 751 | 682 | 659 | 641 | 616 | 596 | 581 | 545 | 491 | 429 | 426 | 418 | 393 | 391 | 297 | 424 | 474 | 536 | 523 | 456 | 317 | | | | | | | | | |
| 7 South Ste. Marie..... | 949 | 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 | | | | | | | | |
| 8 Escanaba..... | 1056 | 930 | 868 | 737 | 850 | 799 | 682 | 699 | 629 | 602 | 588 | 564 | 545 | 528 | 492 | 438 | 376 | 384 | 376 | 340 | 339 | 244 | 330 | 381 | 488 | 474 | 401 | 288 | 214 | 201 | | | | | | | |
| 9 Green Bay..... | 1125 | 999 | 937 | 806 | 919 | 868 | 751 | 767 | 696 | 671 | 657 | 632 | 614 | 597 | 561 | 507 | 445 | 432 | 424 | 409 | 407 | 313 | 423 | 471 | 572 | 555 | 480 | 353 | 101 | | | | | | | | |
| 10 Milwaukee..... | 1186 | 1060 | 998 | 867 | 980 | 929 | 812 | 828 | 759 | 759 | 745 | 719 | 702 | 685 | 649 | 595 | 533 | 531 | 525 | 513 | 503 | 407 | 521 | 573 | 683 | 668 | 591 | 464 | 103 | 85 | | | | | | | |
| 11 Chicago..... | 1238 | 1117 | 1055 | 924 | 1037 | 986 | 870 | 886 | 816 | 797 | 783 | 757 | 740 | 723 | 687 | 633 | 571 | 569 | 563 | 553 | 543 | 439 | 554 | 606 | 717 | 702 | 625 | 497 | 101 | | | | | | | | |
| 12 Gary..... | 1263 | 1142 | 1080 | 949 | 1062 | 1010 | 894 | 910 | 840 | 821 | 807 | 781 | 764 | 747 | 711 | 657 | 595 | 593 | 587 | 577 | 567 | 461 | 574 | 626 | 737 | 722 | 645 | 518 | | | | | | | | | |
| 13 Muskegon..... | 1151 | 1025 | 963 | 832 | 945 | 894 | 777 | 794 | 724 | 697 | 683 | 659 | 640 | 623 | 587 | 533 | 471 | 470 | 471 | 454 | 453 | 339 | 454 | 506 | 617 | 602 | 525 | 396 | 56 | | | | | | | | |
| 14 Ludington..... | 1100 | 974 | 912 | 781 | 894 | 843 | 726 | 742 | 673 | 649 | 632 | 607 | 589 | 572 | 536 | 482 | 420 | 427 | 419 | 404 | 393 | 288 | | | | | | | | | | | | | | | |
| 15 Alpena..... | 837 | 711 | 649 | 518 | 631 | 580 | 463 | 479 | 410 | 383 | 369 | 344 | 328 | 309 | 273 | 219 | 157 | 163 | 185 | 124 | 116 | | | | | | | | | | | | | | | | |
| 16 Bay City..... | 842 | 716 | 654 | 523 | 636 | 585 | 468 | 484 | 415 | 388 | 374 | 349 | 331 | 314 | 278 | 224 | 162 | 265 | 257 | 237 | 207 | | | | | | | | | | | | | | | | |
| 17 Collingwood..... | 745 | 619 | 557 | 426 | 539 | 488 | 371 | 387 | 318 | 291 | 277 | 252 | 234 | 217 | 181 | 127 | 65 | 211 | 207 | | | | | | | | | | | | | | | | | | |
| 18 Midland..... | 946 | 820 | 758 | 627 | 740 | 689 | 572 | 588 | 519 | 495 | 478 | 453 | 436 | 418 | 382 | 328 | 266 | | | | | | | | | | | | | | | | | | | | |
| 19 Port Huron..... | 660 | 554 | 492 | 361 | 474 | 423 | 306 | 322 | 253 | 228 | 213 | 188 | 170 | 162 | 116 | 62 | | | | | | | | | | | | | | | | | | | | | |
| 20 Detroit (Woodward Ave.)..... | 618 | 492 | 430 | 299 | 412 | 361 | 244 | 261 | 191 | 164 | 150 | 126 | 108 | 91 | 54 | | | | | | | | | | | | | | | | | | | | | | |
| 21 Toledo (river mouth)..... | 611 | 485 | 423 | 292 | 405 | 354 | 237 | 254 | 185 | 157 | 144 | 119 | 96 | 72 | | | | | | | | | | | | | | | | | | | | | | | |
| 22 Lorain..... | 554 | 428 | 366 | 235 | 348 | 297 | 180 | 197 | 124 | 95 | 80 | 53 | 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 Cleveland (main entrance)..... | 554 | 428 | 346 | 215 | 328 | 277 | 160 | 176 | 102 | 73 | 59 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 Fairport..... | 504 | 378 | 316 | 185 | 298 | 247 | 130 | 146 | 73 | 44 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 Sandusky..... | 478 | 352 | 290 | 159 | 272 | 221 | 104 | 119 | 44 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 Conneaut..... | 466 | 340 | 278 | 147 | 260 | 209 | 92 | 107 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 Buffalo..... | 439 | 313 | 251 | 120 | 233 | 182 | 65 | 78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 Port Colborne..... | 396 | 270 | 208 | 77 | 190 | 139 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 Rochester..... | 374 | 248 | 186 | 55 | 168 | 117 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 Kingston..... | 275 | 149 | 89 | 95 | 99 | 59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 Ogdensburg..... | 234 | 108 | 55 | 145 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 Montreal..... | 349 | 223 | 161 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33..... | 189 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34..... | 126 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

EXPLANATION

Distances in these tables are expressed to the nearest even statute mile; fractions of 1/2 mile or more being taken as a full mile and those under the half dropped. The results are, therefore, at times inconsistent by 1 mile in their comparative differences. Thus, measured distances to two given points may differ uniformly by 0.8 mile; if the respective distances to the two points from a certain port measure 116.0 and 115.2, they appear in the table as 116 and 115, a difference of 1 mile; whereas from the next port listed, the distances to the same two points may measure 106.4 and 104.6, and both will appear in the table as 106.

Measurements are by the shortest marked or safe direct courses, starting (unless otherwise noted) from the main entrances between pierheads of breakwaters or piers, or from the principal landings of open roadsteads. Where landings are appreciably remote from protected entrances, the appropriate further distances, if desired, may be ascertained from the harbor descriptions or from charts.

Points in this table are arranged in the order of their location on the several lakes in the following sequence: Lake Ontario, Lake Erie, Lake Huron, Lake Michigan, and Lake Superior. The distance between any two points appears in the line extending horizontally from the point first in order in the list and in the column headed by the other point.

* From abreast, east end of U. S. center pier.
 * From foot of Grand River Ave.
 * From intersection Seaway-Ship Channel, Montreal Harbour.
 * Revised 1908.