

PORTSMOUTH NUMBERS

Portsmouth Numbers are defined as the length of time boats take to sail a common but unspecified distance, which includes beating, reaching and running. It assumes that each boat is sailed to its true potential, by a perfect crew using flawless strategy, and that all boats and sails conform to class specifications and rules. Courses may be combinations of triangular, modified Gold Cup, Olympic, and windward-leeward. The derivation of the handicap numbers is based on the Thistle as the primary yardstick for one design centerboard boats, keelboats, multihulls, and offshore boats. Refer to the US SAILING website for Portsmouth Numbers.

Finish position of boats is determined by the lowest corrected time according to the formula **CT = (ET X 100) / HC**.

CT is corrected time, ET is elapsed time, and HC is either the recommended Wind Handicap Number or the basic D-PN.

Record start and finish time of every boat. Determine elapsed time for every boat. Calculation of race results requires the Wind Handicap Number of each boat from the tables. Use of either the recommended Wind Handicap Number (HC), or the Basic Portsmouth number (D-PN) for calculations, and determination of average wind velocity is the responsibility of the Race Committee Chairman, whose decision is final. When the Wind Handicap Number is used for calculation, record wind velocities at the start, middle and finish of the race, then average the wind velocity to determine which Beaufort Number 0 though 6 to use.

Beaufort Scale of Wind Velocity

Beaufort Numbers below characterize weather conditions. Great South Bay is too shallow to support the higher wave heights listed. Use other means to determine wind velocities over Force 5. Annotated subjectively.

| Beaufort Number | Wind Velocity (Knots) | Wind Velocity (MPH) | Seamans Term | Wave Height | Sea Conditions |
|-----------------|-----------------------|---------------------|-----------------|-------------|--|
| 0 | 0-1 | 0-1.7 | Calm | Smooth | Glassy, mirrorlike |
| 1 | 2-3 | 1.8-4.0 | Light air | Ripples | Scale-like ripples |
| 2 | 4-6 | 4.1-7.4 | Light breeze | 1/3 ft. | Small wavelets |
| 3 | 7-10 | 7.5-12.0 | Gentle breeze | 1-2 ft. | Large wavelets, crest begin to break |
| 4 | 11-16 | 12.1-18.9 | Moderate breeze | 2-3 ft. | Small waves, some whitecaps |
| 5 | 17-21 | 19.0-24.7 | Fresh breeze | 3-4 ft. | Longer waves, many whitecaps |
| 6 | 22-27 | 24.8-31.6 | Strong breeze | 4-5 ft. | Large waves, many whitecaps, foam & spray everywhere |
| 7 | 28-33 | 31.7-38.5 | Moderate gale | 5-6 ft. | Sea heaps up streaks of foam |
| 8 | 34-40 | 38.6-46.6 | Fresh gale | 6-7 ft. | High long waves, spindrift |
| 9 | 41-47 | 46.7-53.3 | Strong gale | 7-9 ft. | Rolling seas |

PORTSMOUTH NUMBERS

Centerboard and Keelboat

Direct Portsmouth number inquiries to GSBYRA Handicap Chairman Bob Grover at least 7 days in advance of the race.

Refer to ussailing.org/portsmouth/lists for current Portsmouth Numbers that are not printed in this book.

| CLASS | D-PN | WIND HANDICAP FOR BEAUFORT RANGE | | | |
|---------------------|-------|----------------------------------|--------|-------|--------|
| | | BN 0-1 | BN 2-3 | BN 4 | BN 5-9 |
| 14 International | 85.4 | 86.9 | 85.6 | 84.2 | 84.1 |
| 420 Inter. & Club | 97.7 | 103.2 | 100.0 | 94.9 | 90.8 |
| 470 International | 86.3 | 91.4 | 88.4 | 85.0 | 82.1 |
| Blue Jay | 108.6 | 110.1 | 109.5 | 107.2 | 106.7 |
| Byte | 97.4 | 97.6 | 97.4 | 96.2 | 95.3 |
| Cape Cod Mercury C | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 |
| Contender | 90.1 | 95.9 | 91.0 | 82.0 | |
| Day Sailer O'Day-17 | 98.6 | 101.3 | 98.7 | 96.9 | 96.3 |
| El Toro | 126.6 | 127.5 | 127.6 | 128.0 | |
| Fireball | 85.6 | 87.8 | 87.0 | 85.4 | 82.4 |
| Finn | 90.1 | 93.2 | 91.8 | 89.1 | 87.1 |
| Flying Junior | 98.0 | 100.9 | 99.4 | 98.2 | 95.8 |
| Flying Scot | 89.7 | 92.2 | 90.5 | 89.1 | 87.5 |
| Force 5 | 95.4 | 98.1 | 96.5 | 95.3 | 93.4 |
| Hereschoff 12 1/2 | 110.9 | 114.7 | 112.2 | 109.7 | 109.7 |
| Highlander | 84.4 | 87.7 | 86.4 | 82.7 | 80.5 |
| Hobie Magic | 72.3 | 73.0 | 72.0 | 71.0 | 71.0 |
| Holder14 | 111.0 | 113.0 | 111.7 | 108.4 | |
| Jet 14 | 97.3 | 97.5 | 98.2 | 96.6 | 94.6 |
| JV 15 | 91.9 | 92.5 | 92.4 | 91.9 | |
| Laser | 91.1 | 93.8 | 92.2 | 91.0 | 88.2 |
| Laser 4.7 | 95.5 | 96.2 | 95.6 | 95.0 | |
| Laser Radial | 96.7 | 99.4 | 97.3 | 93.6 | |
| Laser II | 92.9 | 95.7 | 94.6 | 93.7 | 89.1 |
| Lightning | 87.1 | 92.7 | 87.7 | 85.4 | 84.0 |
| Mariner 19 | 102.5 | 103.0 | 103.0 | 103.0 | 100.0 |
| Mobjack | 91.4 | 96.4 | 92.4 | 88.0 | 86.5 |
| Narrasketuck | 89.7 | 89.0 | 89.0 | 89.0 | 85.0 |
| Optimist | 123.6 | 123.6 | 124.0 | 124.0 | |
| Rhodes 19 | 95.8 | 100.0 | 97.0 | 92.2 | 90.7 |
| Star | 83.1 | 83.9 | 83.3 | 82.4 | 81.5 |
| Sunfish | 99.6 | 102.9 | 100.3 | 97.7 | 95.6 |
| Thistle | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| Vanguard 15 | 90.8 | 93.5 | 95.3 | 86.0 | |
| Windmill | 89.5 | 92.9 | 91.4 | 88.3 | 86.2 |
| Wood-Pussy | 103.0 | | 104.9 | 99.3 | |

PORTSMOUTH NUMBERS

Multihull

Direct Portsmouth number inquiries to GSBYRA Handicap Chairman Bob Grover at least 7 days in advance of the race.

Check ussailing.org/portsmouth/lists for any handicaps that are not printed in this book.

| CLASS | D-PN | WIND HANDICAP FOR BEAUFORT RANGE | | | |
|-----------------------|------|----------------------------------|--------|------|--------|
| | | BN 0-1 | BN 2-3 | BN 4 | BN 5-9 |
| Dragonfly 800 | 71.8 | 75.2 | 72.0 | 71.5 | 70.6 |
| Dragonfly 920 | 68.2 | 68.2 | 68.2 | 68.2 | 68.2 |
| F-24 Tri Mk I | 76.1 | 79.9 | 76.9 | 76.6 | 74.5 |
| F-27 Tri | 70.5 | 72.4 | 72.9 | 71.2 | 65.7 |
| Hobie 14 | 86.4 | 95.0 | 90.1 | 85.6 | 80.9 |
| Hobie 14 Turbo | 83.1 | 86.3 | 85.1 | 81.1 | 79.4 |
| Hobie 16 | 76.0 | 81.5 | 78.7 | 74.1 | 71.4 |
| Hobie 17 | 74.0 | 78.3 | 76.2 | 73.7 | 69.6 |
| Hobie 18/18 Magnum | 71.4 | 76.8 | 73.5 | 69.5 | 66.8 |
| Hobie 20 Miracle | 65.0 | 69.2 | 66.4 | 64.4 | 61.3 |
| Hobie 21 no spinnaker | 64.0 | 71.9 | 69.2 | 66.3 | 61.7 |
| Inter 20 w/sp | 59.3 | 62.0 | 60.2 | 58.5 | 57.5 |
| NACRA 5.0 2 up | 76.2 | 80.5 | 78.5 | 76.2 | 73.0 |
| NACRA 5.2 sloop- 2 | 72.1 | 78.0 | 74.8 | 71.5 | 67.4 |
| NACRA 5.5 sloop | 67.0 | 73.6 | 69.4 | 65.6 | 61.2 |
| NACRA 5.5 uni 8.5 | 69.7 | 74.5 | 71.9 | 69.1 | 64.5 |
| NACRA 5.7 2 up | 72.5 | 75.5 | 74.8 | 72.2 | 68.6 |
| NACRA 5.8 2 up | 66.6 | 72.1 | 69.2 | 65.6 | 62.2 |
| NACRA 5.8 N.A. | 66.4 | 70.5 | 68.5 | 65.4 | 62.0 |
| NACRA 6.0 orig | 64.2 | 68.5 | 66.0 | 63.4 | 60.6 |
| NACRA 6.0 N.A. | 62.6 | 65.5 | 64.2 | 61.8 | 59.5 |
| Pacific Cat | 73.7 | 80.6 | 76.0 | 75.0 | 69.5 |
| Prindle 16 | 77.5 | 84.1 | 80.6 | 76.3 | 71.3 |
| Prindle 18 | 74.8 | 81.0 | 77.8 | 74.7 | 70.5 |
| Prindle 18-2 | 69.0 | 72.5 | 71.6 | 68.6 | 65.1 |
| Prindle 19 | 66.4 | 71.7 | 68.9 | 64.5 | 62.3 |
| Stiletto 27 | 75.0 | 79.0 | 76.6 | 75.4 | 69.5 |
| Supercat 20 | 65.0 | 70.4 | 67.3 | 65.2 | 60.8 |
| Tornado 1 trp | 63.8 | 67.0 | 65.6 | 63.1 | 60.6 |
| Tornado International | 59.0 | 62.4 | 60.5 | 57.8 | 55.5 |

PHRF & Offshore

GSBYRA authorizes South Bay Cruising Club, a recognized PHRF handicapping authority of US SAILING, to manage all PHRF ratings. Upon request, SBCC will assign a PHRF rating to any qualified boat from any GSBYRA member club. To obtain a handicap form, log on to the South Bay Cruising Club website sbccsail.org, click on racing, then click handicap form to download a PDF file form, or contact SBCC Handicap Chairman, Bill Grauer.

For GSBYRA sponsored events, a PHRF class boat is defined as a yacht with length overall of twenty feet or greater, and designed with sleeping accommodations. Yachts which meet these specifications shall race in the PHRF class. Yachts which

do not meet these specifications shall race in the monohull handicap class.

Handicap forms must be obtained in advance, signed and submitted to the SBCC Handicap Chairperson at least 7 days prior to the yacht's first race, in order to be scored for that race. Each PHRF racing skipper is obligated to contact the SBCC Handicap/Measurement Chairperson in advance of his or her first race.

Race Committee Chairpersons should contact either:

SBCC Handicap Chairman

Bill Grauer, 631-277-6212

wbgrauer@optonline.net

or GSBYRA Handicap Chairman

Bob Grover 631-669-4365

rgrover@gpinet.com.

Relationship of D-PN to PHRF

US SAILING determined a difference of 1 D-PN equals a difference of 6 seconds PHRF. Use the formula **D-PN = PHRF / 6 + 55**.

LONG ISLAND MARITIME MUSEUM



VINTAGE BOAT SHOW & OLD TIMERS' REGATTA

SATURDAY - SUNDAY, 14 - 15 JULY 2007
10:00AM - 4:00PM DAILY



OLD TIMERS' REGATTA

SATURDAY, 14 JULY
11:00AM



ROWING REGATTA

SUNDAY, 15 JULY
11:00AM

FOR FURTHER INFORMATION, INCLUDING REGISTRATION
FORMS & RACE INSTRUCTIONS, GO TO: WWW.LIMARITIME.ORG