

Attachment B

North American Portsmouth Yardstick

“The North American Portsmouth Yardstick is an empirical handicapping system meant to provide equitable scoring of race results for different boats sailing the same course.” As quoted from the US Sailing Portsmouth Handbook.

While the theory, methodology and application of the handicapping system can be quite complicated, the only thing we at BYSC need to be concerned with for the 2020 Fall Dinghy Series is the handicap factor assigned to each class of participating boats and how the Corrected Times are calculated.

All boat classes have a pre-calculated handicap known as a DPN. Examples are:

- Lightning 87.0
- Snipe 91.9
- Y Flyer 86.7

Corrected times are calculated from:

$$(ET/DPN) \times 100 = CT$$

Where ET is elapsed time (start to finish)

DPN is the pre-calculated handicap

CT is the corrected time

A corrected time example for a Lightning that finished a race in 31 minutes is:

$$(31/87.0) \times 100 = 35.63 \text{ minutes, or } 35 \text{ minutes } 38 \text{ seconds}$$

A Snipe finishing in 32 minutes would be:

$$(32/91.9) \times 100 = 34.82 \text{ minutes or } 34 \text{ minutes } 49 \text{ seconds}$$

A Y Flyer finishing in 32 minutes would be:

$$(32/86.7) \times 100 = 36.91 \text{ minutes or } 36 \text{ minutes } 55 \text{ seconds}$$

As you can see from the above, the Snipe would finish first based on the corrected time despite having a longer elapsed time. The Lightning would finish second despite the fastest elapsed time and the Y Flyer would finish third.

Finish times will be recorded to the second.

Although the Portsmouth Yardstick allows for variable handicaps based on wind speed, wind speed will not be taken into account in the 2020 Fall Dinghy Series calculations. Your boat's DPN will be provided by the race committee or may be found at:

<https://www.ussailing.org/competition/offshore/portsmouth-yardstick-table-pre-calculated-classes/>

If you have any questions, please contact Frank Pontius (843-252-4900) or Richard Beesley (770-335-3178).