

CLUB PERFORMANCE HANDICAPPING POLICY

South of Perth Yacht Club (SoPYC) uses handicapping to encourage boats of differing size, design and performance qualities to compete at the club within an assigned division.

The principles of handicapping endorsed by SoPYC and amended from time to time are:

- The methodology used shall be open and transparent and will use a Performance Handicap System.
- Rewards sailors for competing and finishing races.
- To allow any boat who has established a fair and reasonable handicap the opportunity to win a race.
- Skippers have the right to query their respective handicaps.
- Divisions will be appropriately represented by a designated handicapper.
- Carry forward known handicaps to a similar but new series (Summer Saturday to Summer Saturday, Frostbite to Frostbite etc).
- Maintained by SoPYC with assistance from the Division handicappers.
- Use a Western Australian-based computer software package.

BACKGROUND

Prior to the Summer of 2021, the Club utilised a computer software package called "TopYacht". The software used a performance-based handicap system for the Club. As of the Summer of 2021-22, the Club reverted back to its original software programme "Finishing Line" which had been used very successfully for many years prior to TopYacht being introduced. The Club Management endorsed the reverting back to the "Finishing Line" for results, however continues to use TopYacht for fleet management.

HOW ARE RACE RESULTS CALCULATED?

Simply.....

Elapsed Time x Race Handicap = Corrected Time, with the boat with the lowest Corrected time being declared the winner.

METHODOLOGY FOR CALCULATING YOUR HANDICAP

Handicaps are adjusted based on a yardstick calculation. The yardstick is the corrected time of the boat in the 45% position in the fleet on corrected time. The BCY is limited to between 96% and 104% of the yardstick. The new handicap for each boat is 2/3 old handicap and 1/3 of the BCY.

Step One - Work out the Corrected Time

Select the Corrected Time of the boat positioned 45% of the way down the fleet from the winning boat on Corrected Time. This then becomes the "Fleet Yardstick" for that particular race.

Step Two - Working out the Back Calculated Yardstick

In order to calculate the Back Calculated Yardstick, you divide the Fleet Yardstick Time by the boat's Elapsed Time.

Step Three - Apply Limits if Required

If the BCY of a boat competing is less than 96% of the Race Handicap then the adjusted handicap shall be 96% of the Race Handicap. If the BCY is above 104% of the Race Handicap then the adjusted handicap shall be 104% of the Race Handicap. All other BCY values to be recorded as calculated without applications of limits. (Limits generally come in to play on very light or very heavy weather days).

Step Four - Calculated Handicap

From the Race Handicap and the Back Calculated Yardstick (BCY) for the last race, the new Calculated Handicap shall be:- $2/3$ Race Handicap + $1/3$ BCY = New Handicap

This new handicap is the Adjusted Handicap for the next race.

FINISHING LINE HANDICAP RECALCULATION EXAMPLE

Handicap Recalculation

Yardstick = 1:06:39 Hcap type = TCF-BCY-1 Update Hcaps = YES

Boat No	Boat Name	Race Hcap	Elapsed Time	Corrected Time	Pos.on Hcap	Fin.Code	BCY	Adj.Hcap	New Hcap	LatestBCY	BCY-2	BCY-3	BCY-4	BCY-5
SP	Boat A	0.6282	1:42:45	1:04:33	1	FIN	0.6487	0.635	0.635	0.6448	0.5967	0.6047	0.6231	0.6334
SP	Boat B	0.74	1:28:28	1:05:28	2	FIN	0.7534	0.7444	0.7444	0.7211	0.7691	0.7451	0.7397	0.7499
SP	Boat C	0.6847	1:37:01	1:06:26	3	FIN	0.687	0.6855	0.6855	0.6847	0.6661	0.6908	0.6771	0.7045
SP	Boat D	0.6736	1:38:57	1:06:39	4	FIN	0.6736	0.6736	0.6736	0.6553	0.6709	0.6772	0.6939	0.7046
SP	Boat E	0.715	1:36:49	1:09:13	5	FIN	0.6884	0.7062	0.7062	0.7046	0.7256	0.7141	0.7209	0.7308
SP	Boat F	0.6621	1:45:25	1:09:48	6	FIN	0.6356	0.6534	0.6534	0.6642	0.6579	0.6803	0.6434	0.6659
SP	Boat G	0.7296	1:35:56	1:10:00	7	FIN	0.700	0.720	0.72	0.7296	0.7459	0.7169	0.7237	0.7237
SP	Boat H	0.7098	1:41:13	1:11:51	8	FIN	0.6814	0.7004	0.7004	0.6905	0.6997	-	-	-
SP	Boat I	1	1:39:44	1:39:44	9	FIN	1.000	1.000	-	-	-	-	-	-

FIRST
Select the corrected time of the boat positioned 45% of the way down from the winning boat on corrected time
Fleet Yardstick is therefore 1:06:39

SECOND (Example Used is Boat E)
BCY for the race for Boat E (Yardstick divided by the elapsed time)
which was created by using the Yardstick divided by the elapsed time which in the case of Boat E in the results was
Elapsed time x by the race handicap
Giving a corrected time of

LASTLY
New Handicap comes from two thirds of the Handicap for this race
Plus one third of the BCY calculated for this race
New Handicap equals

0.4767
0.2295
0.7062

WHAT IS THE ROLE OF THE HANDICAPPER?

The role of the handicapper is to ensure that the allocated handicaps are fair and reasonable based on known information for the next race. As outlined above, the system is simply calculating a future handicap based on your past performance. The system does have clamps or limitations placed on the variance that you handicap may move.

There are several instances in which the handicapper may intervene, these are but not limited to:

- An unknown (new) boat and unknown (new) skipper entering a division at any point.
- An unknown boat and known skipper entering a division.
- The handicapper is not convinced that the allocated handicap is fair and reasonable and needs adjustment.
- Ensuring the boats previous handicap from a comparable series is carried forward to the new series.

Handicappers may when issuing a new handicap to a boat, it may:

- Allocate a 1 or equivalent maximum division handicap.
- Allocate a handicap equivalent to the highest known handicap in the division.
- Allocate a handicap equivalent to a boat of the same design within the division and to that of the highest known handicap of that design.

- Allocate a handicap that is similar to a similar type of yacht with the division.
- Allocate a different handicap (handicappers will need to justify).

Recalculating Handicaps

If for some reason, evidence is produced which will affect results for the last race, then the handicaps and race results shall be recalculated.

The type of scenarios may be but not limited to:

- Incorrect entering of start time or finish time.
- The results of a protest.
- A boat retires after the race.

SoPYC KEELBOAT HANDICAPPERS

SATURDAY SERIES

Division 1	Richard Evans
Division 2	Matt Selby
Division 3	Chris Lewis-Driver
SS27	Brian Easterbrook
SS22	Peter Lewis
H28	Rita Nesdale
Red Witch	Kelvin Uren

TWILIGHT SERIES

Division 1	Richard Evans
Division 2	Matt Selby
Division 3	Mark Popham

MIDWEEK SERIES

Division 1	Richard Evans
Division 2	Matt Selby
Division 3	Mark Popham
H28 Class	Andy Lane

FROSTBITE SERIES

Division 1	Richard Evans
Division 2	Matt Selby
Division 3	John Pierzak