

Lake Macquarie Yacht Club Handicapping System
2025-2026 Summer Saturday Season
Bay, Pursuit & Pulbah Pointscores
 Complying with 2025-2026 LMYC Sailing Instruction (White Book) 2.22

The Lake Macquarie Yacht Club handicapping system is based on past performance. This handicap, expressed as a decimal, adjusts automatically after each race to reflect the variation in the performance of each yacht.

The current system has limits placed on these adjustments (as indicated below) to minimize the effects of extreme results which might otherwise skew the realistic performance factor for a yacht.

Without such limits, unreasonable handicaps can result from abnormal and extreme performances caused through extreme wind shifts, conditions, or breakages of equipment.

The handicap may also be adjusted manually due to changes of equipment and/or helmsman.

Below are some definitions and explanations which may assist when reading the result sheets posted and available after each Saturday point score race.

Definitions:

TCF	<u>T</u> ime <u>C</u> orrection <u>F</u> actor a number expressed as a decimal.
AHC	<u>A</u> llocated <u>H</u> andi <u>C</u> ap = Time Correction Factor (TCF), expressed as a decimal, given to each yacht prior to each race. It is a measure of the yacht's predicted performance relative to its past history and that of the other competitors in the division.
ET	<u>E</u> lapsed <u>T</u> ime of a boat in a race
CT, (HC Cor,d T),	<u>C</u> orrected <u>T</u> ime determines the yacht's placing for the race. $CT = \text{Elapsed Time multiplied by the handicap } (CT = ET \times TCF) \text{ or } CT_1 = ET_1 \times AHC_1$
BCH	A <u>B</u> ack <u>C</u> alculated <u>H</u> andicap is calculated retrospectively, for each yacht, after each race, in relation to the base boat. Using this BCH , each yacht would have had the same corrected time for the relevant race. $BCH = \text{corrected time (of the base boat) divided by elapsed time (of the yacht) (On Result Sheet)}$
BCH Reference Time	A time selected to determine BCHs and CBCH for the whole division for that race.
CBCH	<u>C</u> lamped <u>B</u> ack <u>C</u> alculated <u>H</u> andicap limits the BCH fluctuations (Not displayed on Result Sheet)
Adjusted CBCH Performance figure used in averaging	The CBCH including any penalties for 1 st , 2 nd or 3 rd placings in the race (Not shown on Result sheet)
CHC	<u>C</u> alculated <u>H</u> andi <u>C</u> ap; The handicap (AHC) for the next race = the average of (a pre-determined No of) previous adjusted CBCH

Saturday Annual, Spring, Summer Point Scores (weighted running average):

Controls and Limits	All Divisions
BCH Reference Time	The average time of the yachts placing in the range 45-55% for each Division on corrected time
CBCH	Limited to a maximum change of 5.0% either side of the yacht's handicap for that race.
Adjusted CBCH	$= CBCH + \left. \begin{array}{l} \text{Additional penalties} \\ 1^{st} = 1.00\% \\ 2^{nd} = 0.60\% \end{array} \right\} \text{ of the yacht's handicap proportionally applied to this race and the previous 3 races.}$
CHC = AHC for next race	<p>The last 4 adjusted CBCH's are averaged.</p> <p>Resulting average = new handicap for the next race but is limited to a maximum change of 2.0 % either side of the previous handicap.</p> <p>The original handicap is used as (and progressively replaced by) the adjusted CBCH's until a yacht has established 4 adjusted CBCH's in the system.</p>

	<p>Additionally, any new handicap calculated is limited to an overall maximum drop of 12.5% from the original handicap (at the start of the series).</p> <p>(Note: Handicaps are not corrected when boats do not compete in a race)</p>
--	---

Short Series:

Bay, Pursuit, Pulbah Pointscores (Exponential):

Controls and Limits	All Divisions
BCH Reference Time	The average time of the yachts placing in the range 45-55% for each Division on corrected time
CBCH	Limited to a maximum change of 5.0% either side of the yacht's handicap for that race.
Adjusted CBCH	<p>= CBCH + Additional penalties</p> <p>1st = 0% 2nd = 0% } the yacht's handicap proportionally applied to this race.</p>
CHC = AHC for next race	<p>The original handicap is used as (and progressively replaced by) the adjusted CBCH.</p> <p>CHC + (AHC/2 + CBCH/2)</p> <p>Additionally, any new handicap calculated is not limited to an overall maximum drop from the original handicap (at the start of the series).</p> <p>(Note: Handicaps are not corrected when boats do not compete in a race)</p>

Sprint Pointscore

Controls and Limits	All Divisions
BCH Reference Time	The average time of the yachts placing in the range 45-45% for each Division on corrected time
CBCH	Limited to a maximum change of 6.0% up and 4.0% down of the yacht's handicap for that race.
Adjusted CBCH	<p>= CBCH + Additional penalties</p> <p>1st = 0% 2nd = 0% } the yacht's handicap proportionally applied to this race.</p>
CHC = AHC for next race	<p>The original handicap is used as (and progressively replaced by) the adjusted CBCH.</p> <p>CHC + (AHC/2 + CBCH/2)</p> <p>Additionally, any new handicap calculated is not limited to an overall maximum drop from the original handicap (at the start of the series).</p> <p>(Note: Handicaps are not corrected when boats do not compete in a race)</p>