

LMYC Race Data Season 23-24

Velocity made Good

VMG

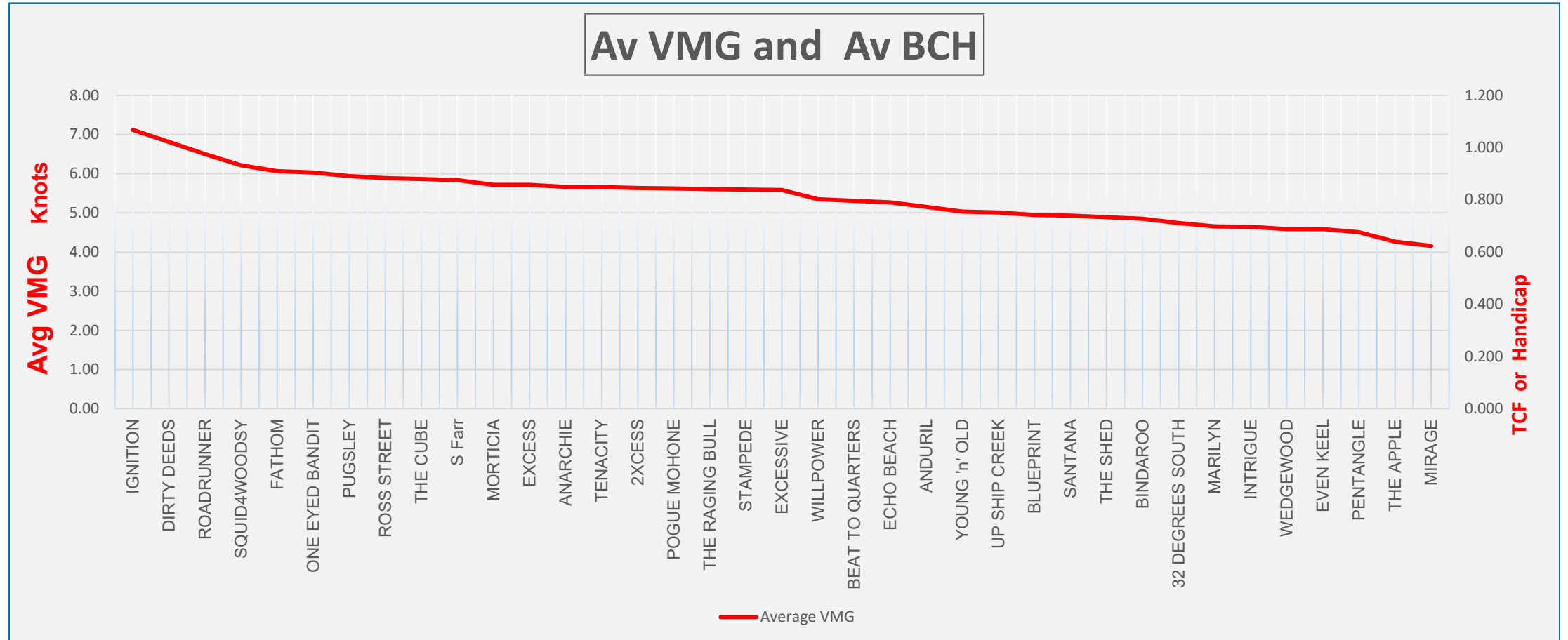
Velocity Made Good or VMG

- This Year the handicapper recorded the average boat speed around the Course for a race
- This was done by dividing the **race Length By the Elapsed time for a particular boat**

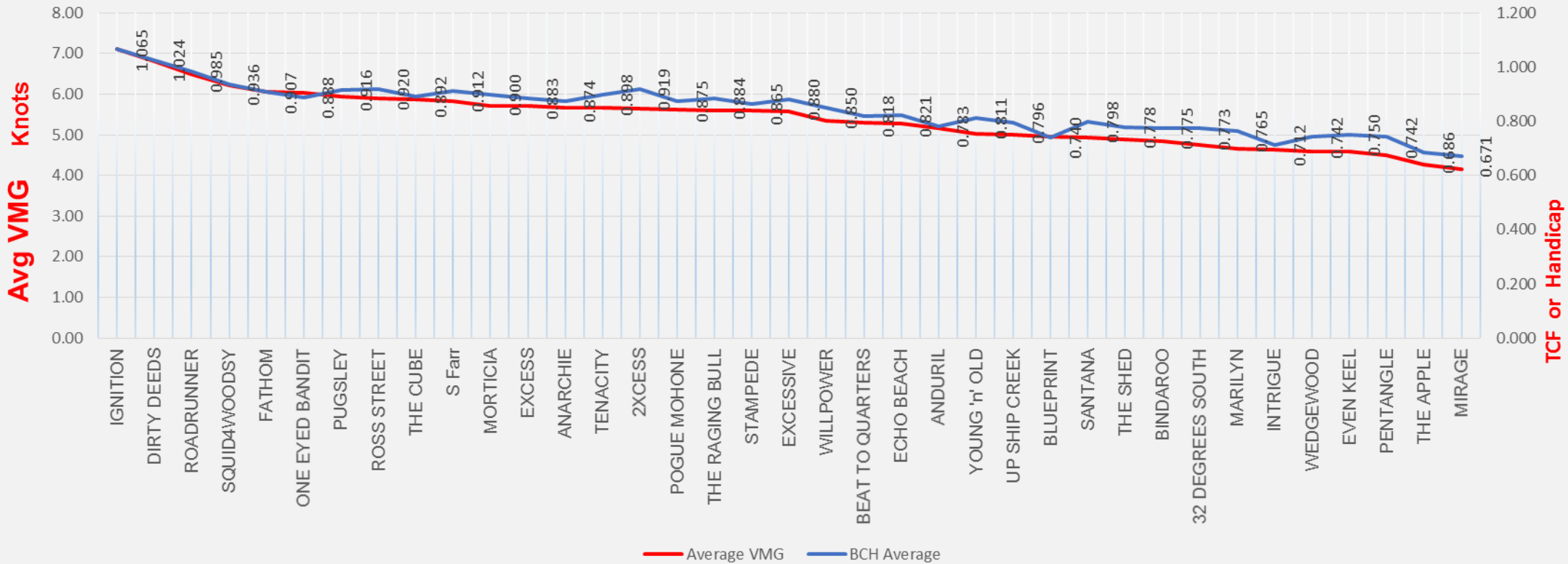
$$\text{Race length (Nautical miles) / Elapsed time (Hrs) = Knots}$$

- This was then averaged over all the races sailed that year
- Where boats sailed less than 6 races the data was not used as being too small a sample to be a useful comparison

We then obtained the following graph **VMG**



Av VMG and Av BCH



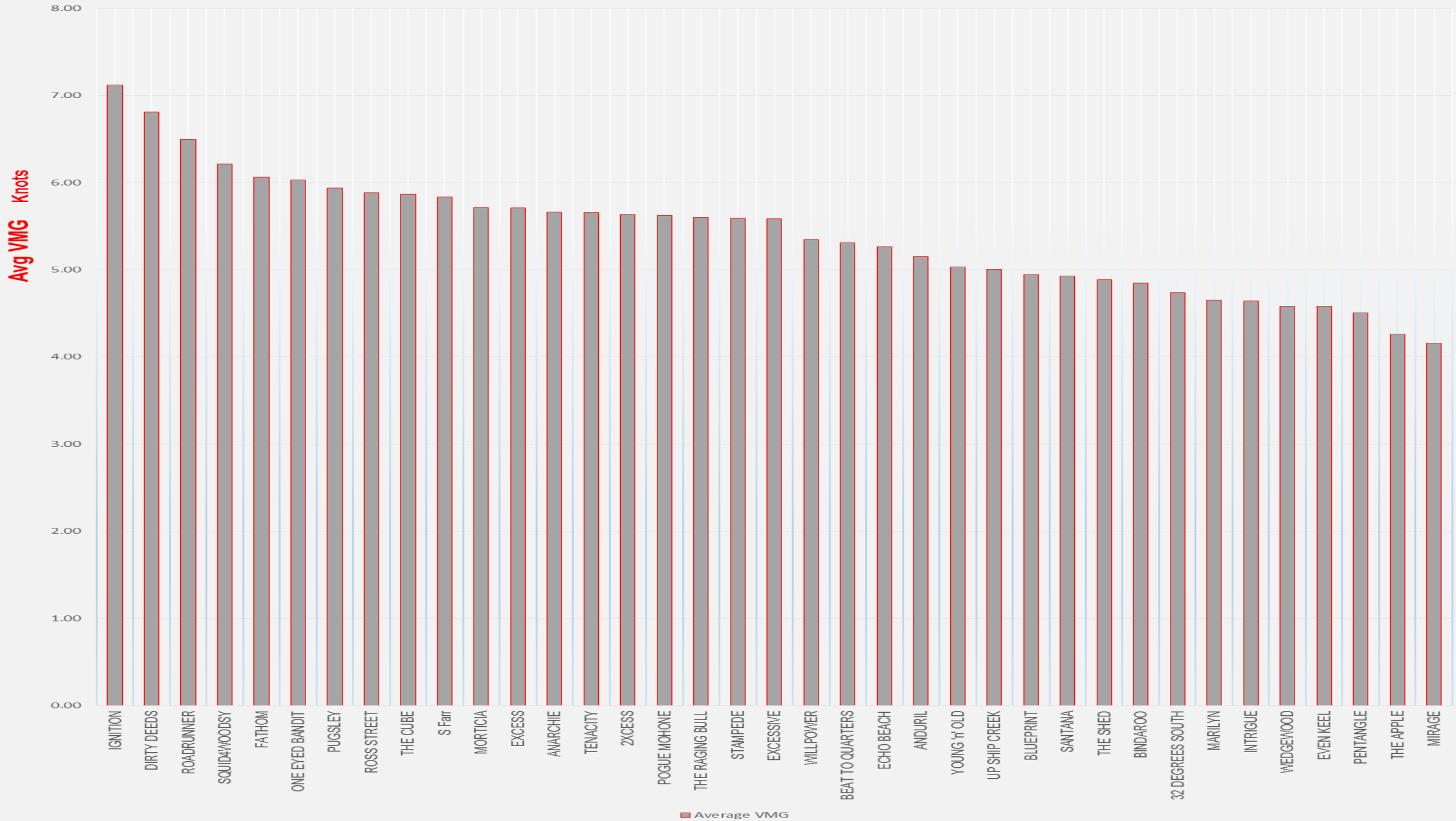
Comparing the Two

- This shows a reasonable correlation between Average VMG and the average of the BCH's for each race
- It is not perfect but looks reasonable
- However, the BCH for one division is not directly comparable to another Division
- *But it does provide **some** information*

So what do we think that means?

- *It is a reasonable to compare yachts on their average Velocity Made Good over a year*
- *VMG can be used to help determine a starting handicap for the season*
 - *If **Boat 10** is 5% faster than **boat 20** then **Boat 10's** starting (season starting) Handicap should be about 5% more than **Boat 20***
 - *Or if **boat 1** is 40 % faster than **boat 39**, then **boats 's1** Handicap should be about 40% more than **boat 39***

Av VMG and Av BCH

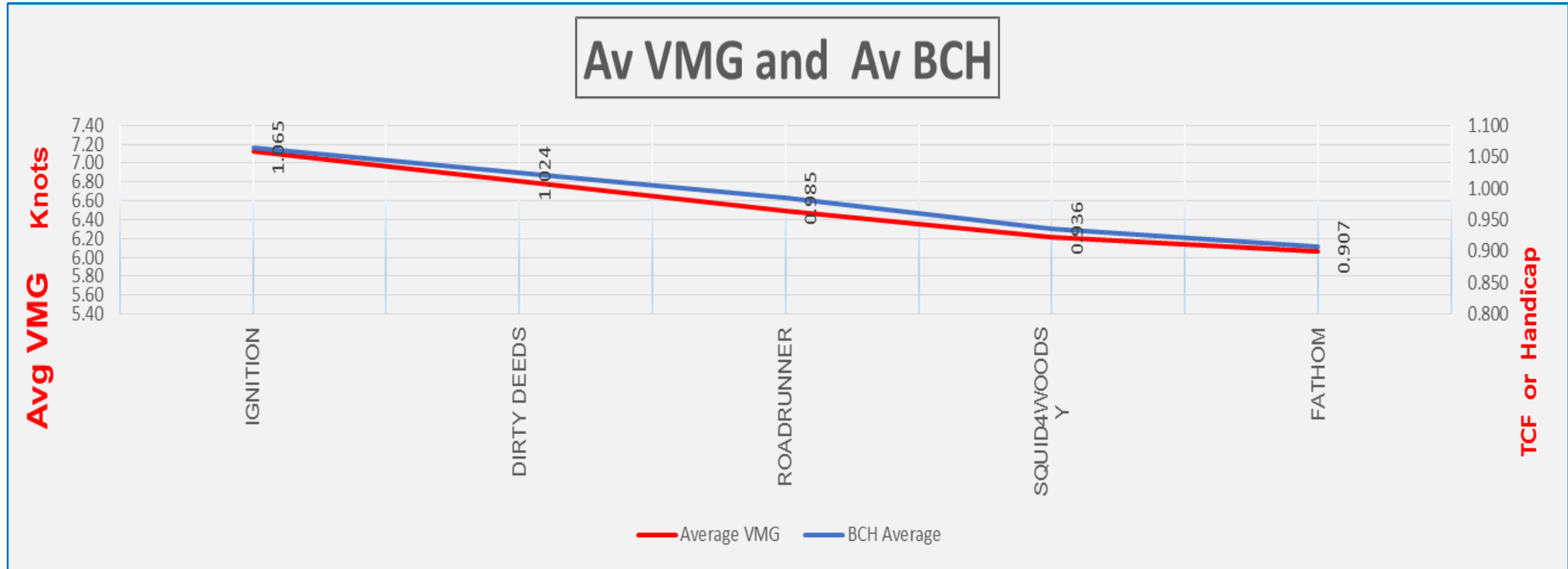


Divisional Splits

- Where should a divisional split if we go from **Four (4) Divisions** to **Three (3) divisions** ?
- Where should the Divisional split from Four (4) divisions to two (2) divisions ?
- The data helps us work through this but we are also trying to cater for a wide range of boats and we want to encourage boats to continue sailing and supporting the club

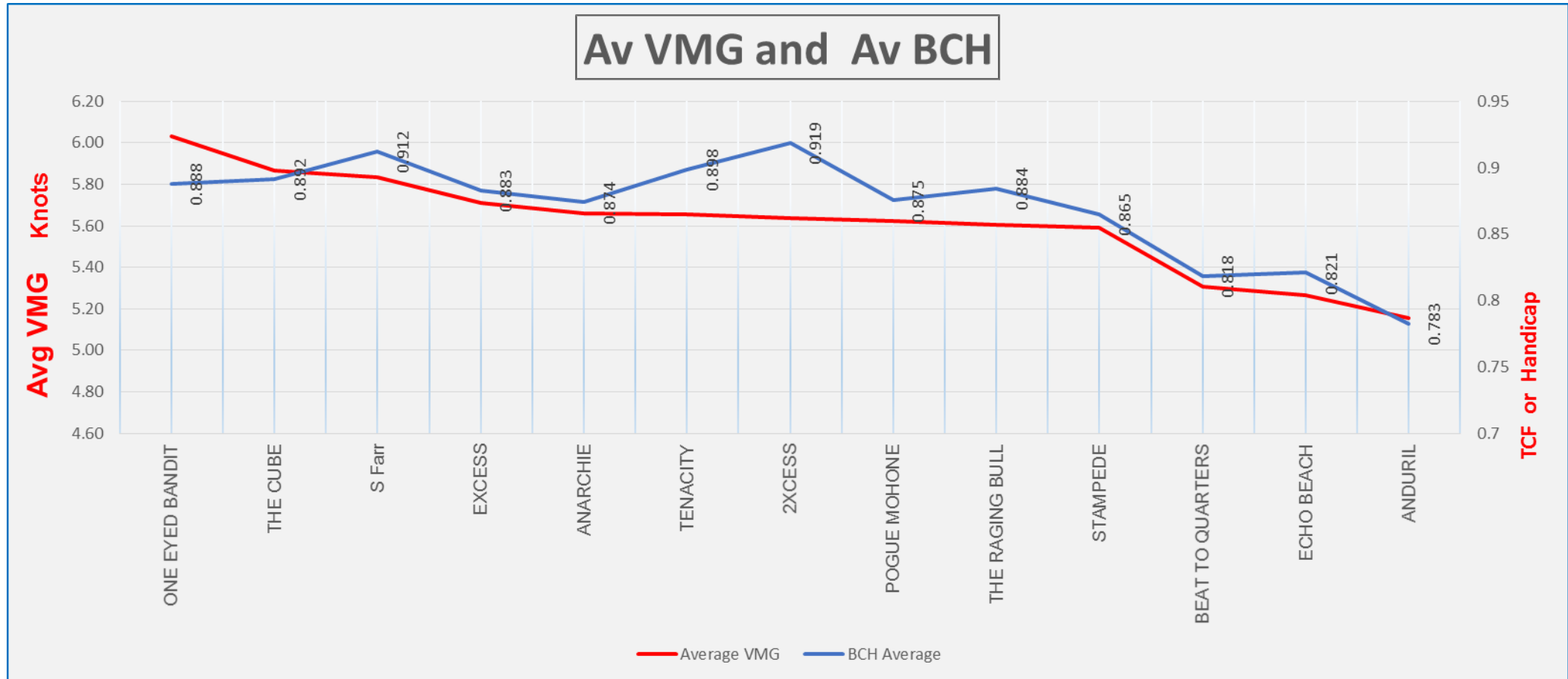
Lets just look at each Division on its own

Div 1



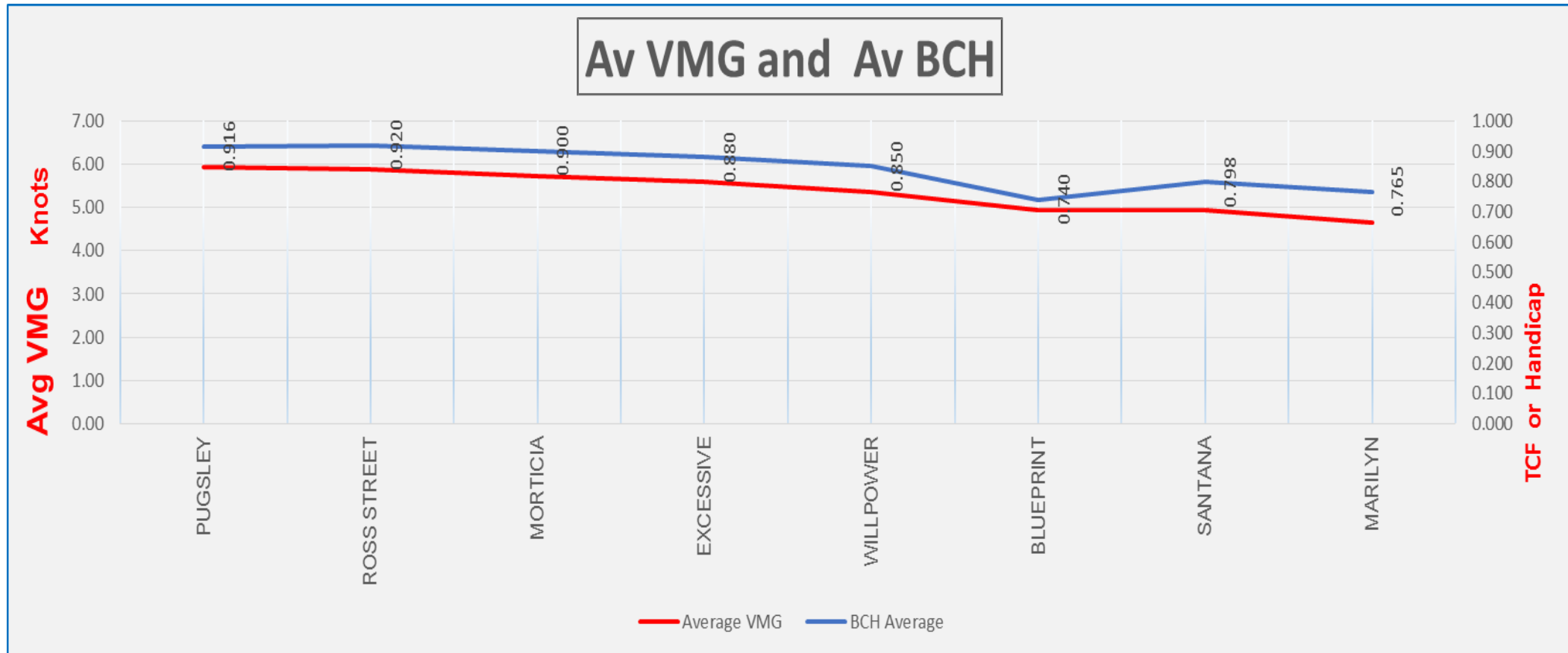
Lets just look at each Division on its own

Div 2



Lets just look at each Division on its own

Div 3



Lets just look at each Division on its own

Div 4

