

Hertfordshire ASA
County Championships 2016
Results Analysis

Key Overall Statistics

Total number of clubs competing: 20 (-2 from 2015)

Total number of clubs with swimmers in finals: 18

Total number of swims (including finals): 3,680 (+320 from 2015)

Total number of improvements to entry times (including finals): 2,102
(-77 from 2015)

Overall % of improved times: 56%

Total number of final swims: 908

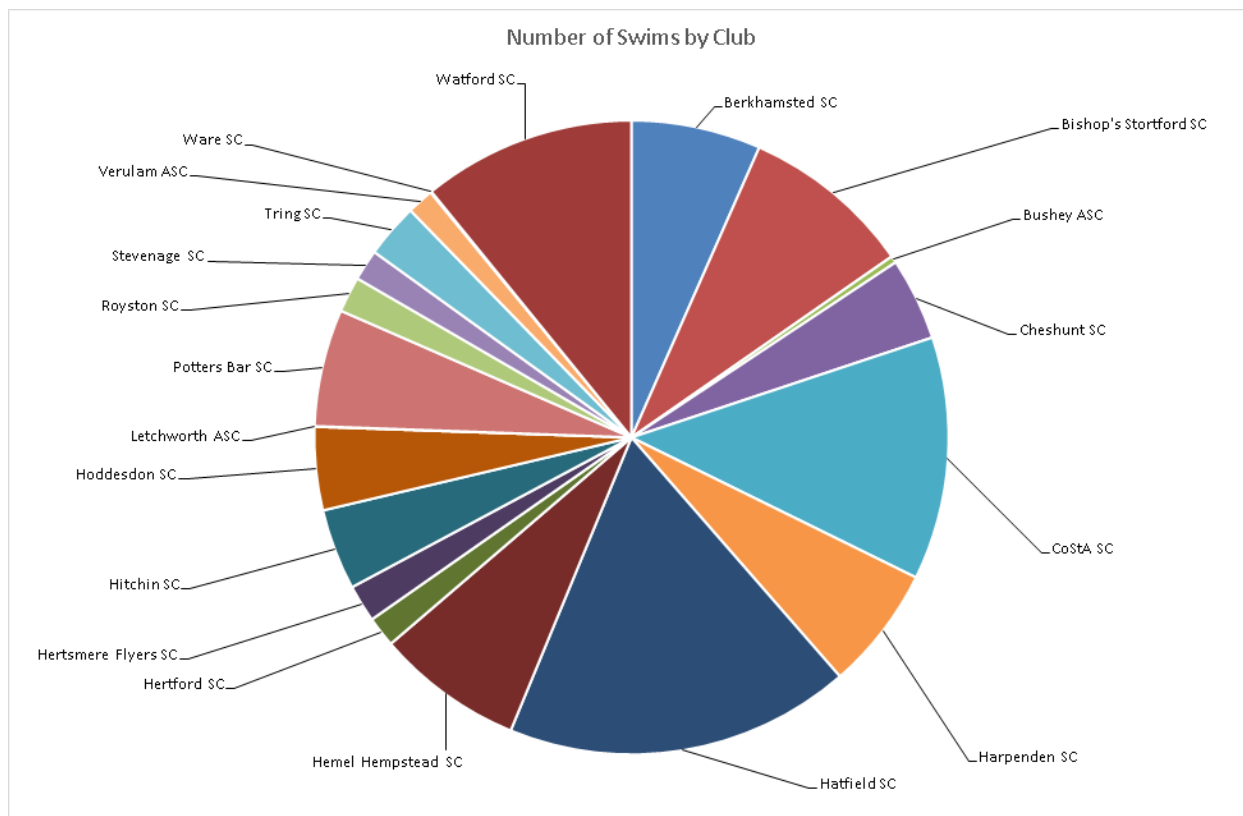
Total number of improvements to entry times in finals: 511

Overall % of improved times in finals: 56%

Total number of DQs & DNFs (including finals): 54 (<2%)

Swims by Club (inc. finals)

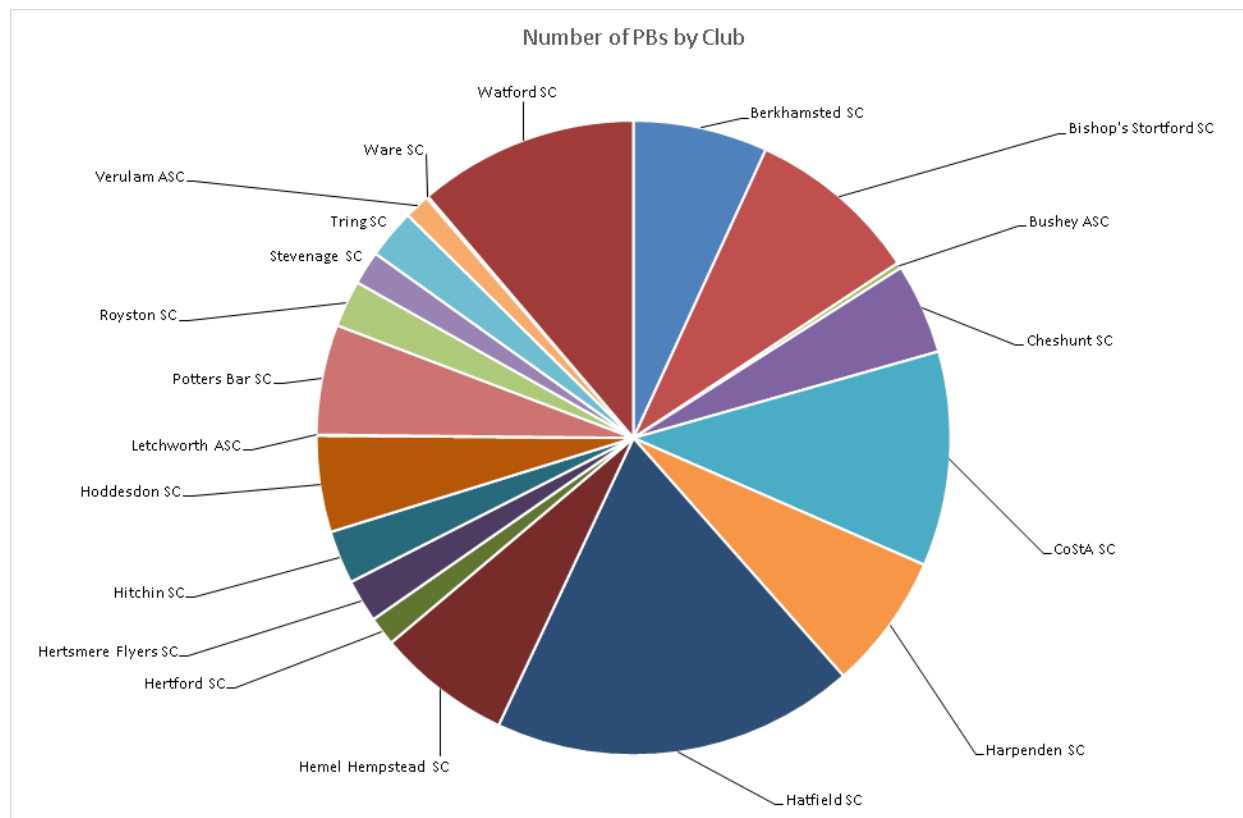
Club	# swims
Hatfield SC	649
CoStA SC	456
Watford SC	400
Bishop's Stortford SC	321
Hemel Hempstead SC	276
Berkhamsted SC	243
Harpenden SC	232
Potters Bar SC	220
Hoddesdon SC	156
Cheshunt SC	155
Hitchin SC	152
Tring SC	102
Hertsmere Flyers SC	70
Royston SC	67
Stevenage SC	58
Hertford SC	57
Verulam ASC	50
Bushey ASC	13
Ware SC	2
Letchworth ASC	1



Hatfield and CoStA had the largest number of swims in the Championships. It is noted that the top 4 clubs in the table make up half of all the swims completed, and the top 8 over three quarters.

Improvements by Club (inc. finals)

Club	# improved
Hatfield SC	389
Watford SC	236
CoStA SC	230
Bishop's Stortford SC	186
Harpenden SC	146
Berkhamsted SC	144
Hemel Hempstead SC	144
Potters Bar SC	118
Hoddesdon SC	103
Cheshunt SC	97
Hitchin SC	57
Tring SC	53
Royston SC	50
Hertsmere Flyers SC	46
Stevenage SC	36
Hertford SC	31
Verulam ASC	27
Bushey ASC	6
Ware SC	2
Letchworth ASC	1



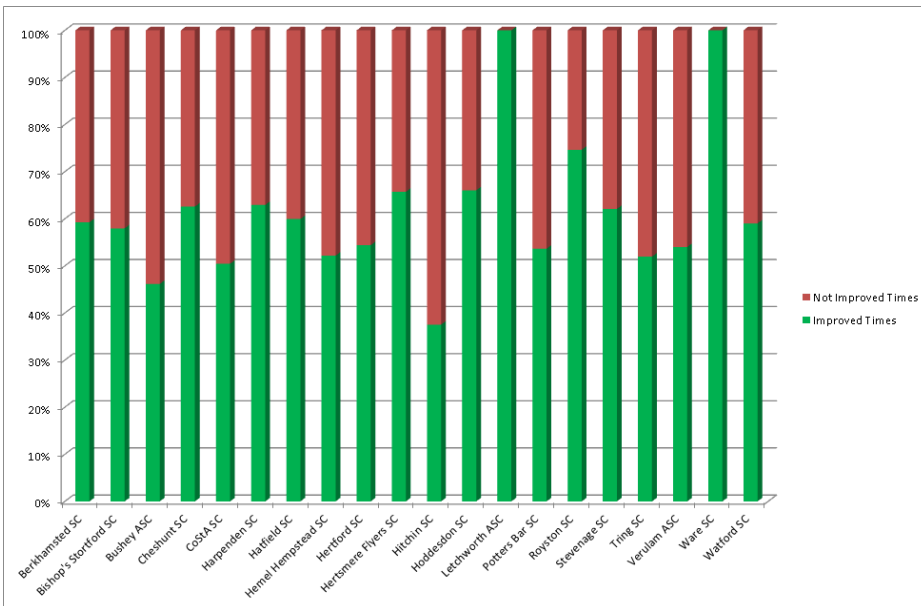
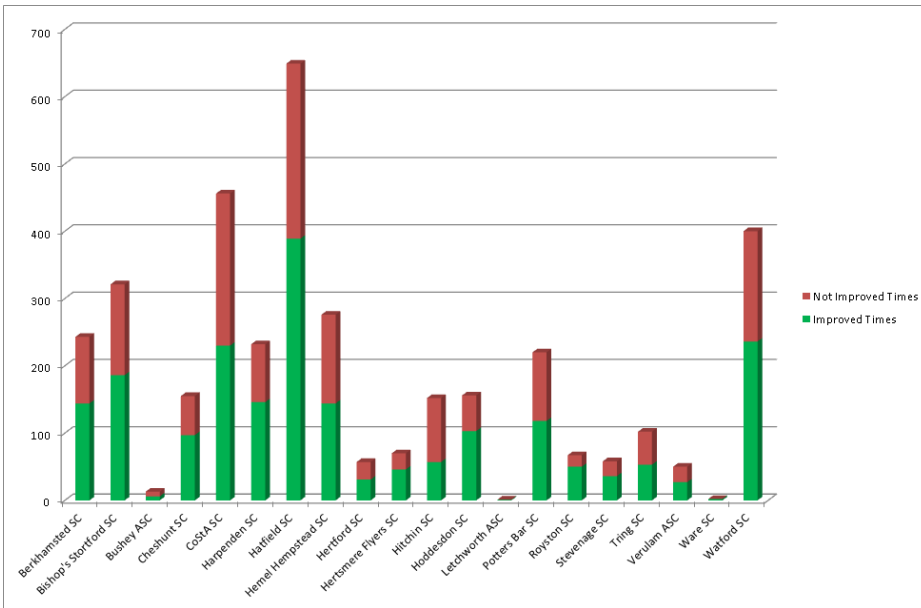
Hatfield and Watford had the largest number of improved times in the Championships. It is noted that the top 4 clubs in the table make up over half of all the improved times, and the top 8 over three quarters.

Swims vs. Improvements (inc. finals)

The graphs opposite show the number of improved swims compared to the total number of swims by club. The top graph shows this in a numeric format, whilst the lower graph shows it as a percentage.

You can see the 5 clubs with the largest number of swims in the top graph are Hatfield, CoStA, Watford, Bishop's Stortford and Hemel Hempstead. However, if you look at the lower graph, you can see that as a percentage of entries, Letchworth and Ware have the best returns (1 swim, 1 PB/2 swims, 2 PBs). They are followed by Royston, Hoddesdon and Hertsmere Flyers. None of the top 5 clubs in the first graph make the top 5 in percentage of swims terms.

The table of underlying data is shown on the following slide.



Swims vs. Improvements (inc. finals)

Club	# swims	# improved	% improved
Ware SC	2	2	100%
Letchworth ASC	1	1	100%
Royston SC	67	50	75%
Hoddesdon SC	156	103	66%
Hertsmere Flyers SC	70	46	66%
Harpenden SC	232	146	63%
Cheshunt SC	155	97	63%
Stevenage SC	58	36	62%
Hatfield SC	649	389	60%
Berkhamsted SC	243	144	59%
Watford SC	400	236	59%
Bishop's Stortford SC	321	186	58%
Hertford SC	57	31	54%
Verulam ASC	50	27	54%
Potters Bar SC	220	118	54%
Hemel Hempstead SC	276	144	52%
Tring SC	102	53	52%
CoStA SC	456	230	50%
Bushey ASC	13	6	46%
Hitchin SC	152	57	38%

The table opposite show the underlying data for the swims vs improvements graphs.

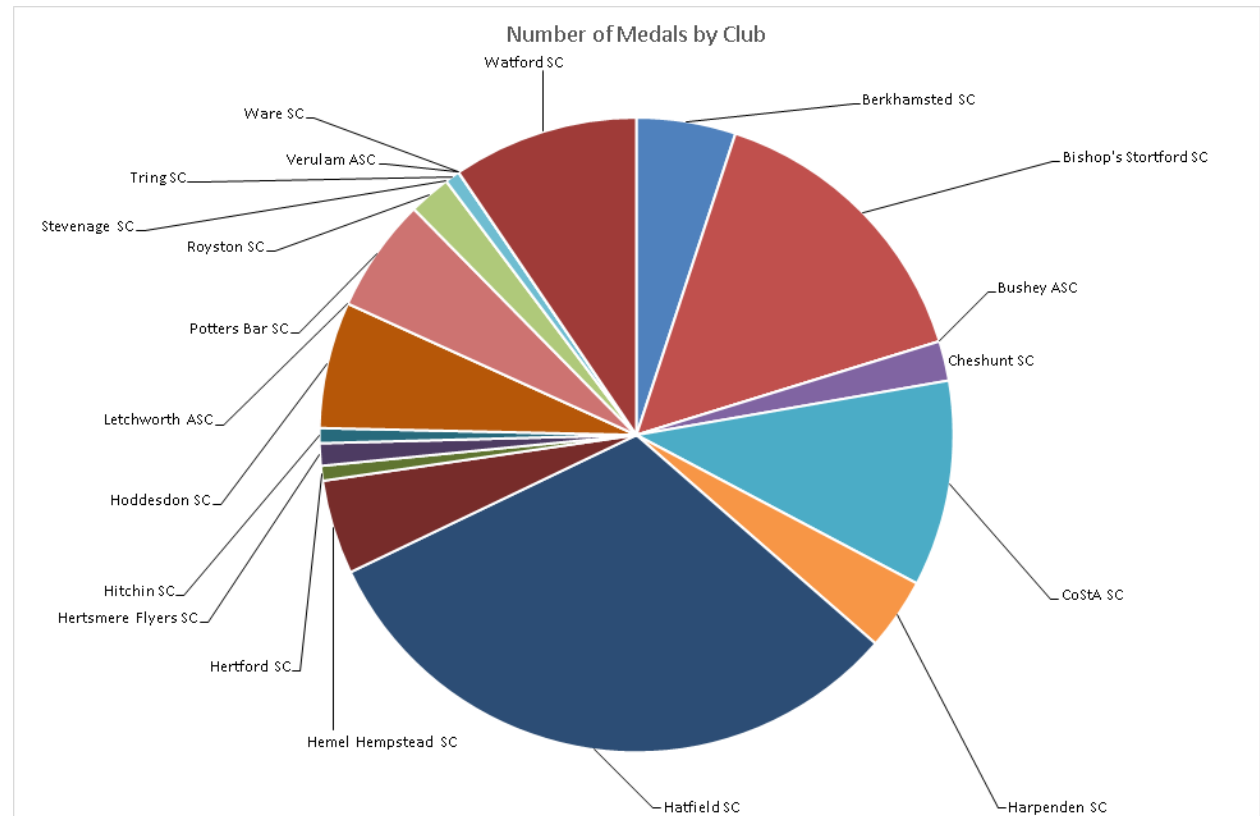
The overall % improved times for the Championships was 57%. Twelve clubs achieved this mark or higher, with eight falling below. Of the five clubs with the most entries, Hatfield, Watford and Bishop's Stortford were above 57%. The three other clubs who made up the top 8 (Berkhamsted, Harpenden and Potters Bar) all also achieved over 57% improved times.

The top 3 clubs for improvements as a percentage of swims (discounting Ware and Letchworth in this instance) were Royston, Hoddesdon and Hertsmere Flyers.

To give this a bit more context, Royston achieved a PB every 1.34 swims. Hoddesdon achieved a PB every 1.51 swims, and Hertsmere Flyers every 1.52. Bishop's Stortford, the last club to achieve the 57% mark, achieved a PB every 1.73 swims. At the lower end, Hitchin took 2.67 swims per PB, and Bushey took 2.17.

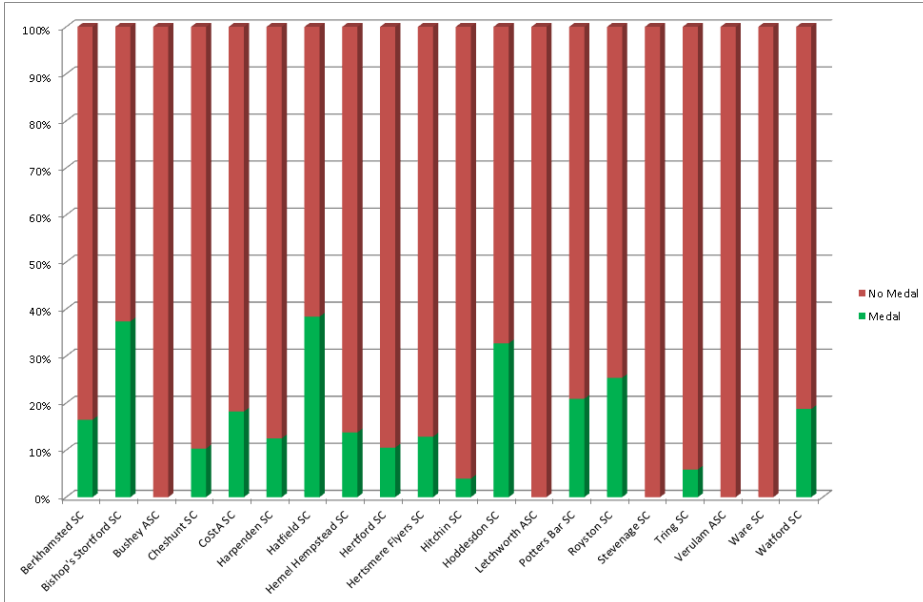
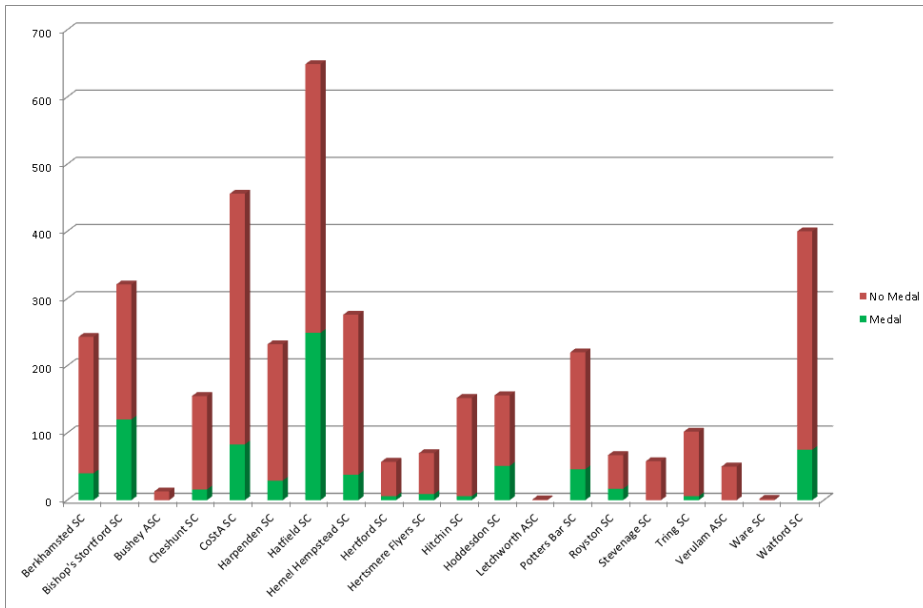
Medals by Club (inc. finals)

Club	# medals
Hatfield SC	249
Bishop's Stortford SC	120
CoStA SC	83
Watford SC	75
Hoddesdon SC	51
Potters Bar SC	46
Berkhamsted SC	40
Hemel Hempstead SC	38
Harpenden SC	29
Royston SC	17
Cheshunt SC	16
Hertsmere Flyers SC	9
Hertford SC	6
Hitchin SC	6
Tring SC	6
Bushey ASC	0
Letchworth ASC	0
Stevenage SC	0
Verulam ASC	0
Ware SC	0



Hatfield were dominant in terms of medals, taking almost a third of the medals available. The top 2 clubs in the table took almost half the medals, whilst the top five took nearly three quarters.

Swims vs. Medals (inc. finals)



The graphs opposite show the number of medals compared to the total number of swims by club. The top graph shows this in a numeric format, whilst the lower graph shows it as a percentage.

You can see the 5 clubs with the largest number of swims in the top graph are Hatfield, CoStA, Watford, Bishop's Stortford and Hemel Hempstead. You can also see that Hatfield have an overwhelmingly large amount of green in their bar, indicating the medals. If you look at the lower graph you can see that, as a percentage of entries, Hatfield have the greatest percentage, closely followed by Bishop's Stortford and with Hoddesdon third. Of the clubs with the largest number of entries, only Hatfield, Bishop's Stortford remain in the top 5 in percentage of swims terms.

The table of underlying data is shown on the following slide.

Swims vs. Medals (inc. finals)

Club	# swims	# improved	% improved
Hatfield SC	649	249	38%
Bishop's Stortford SC	321	120	37%
Hoddesdon SC	156	51	33%
Royston SC	67	17	25%
Potters Bar SC	220	46	21%
Watford SC	400	75	19%
CoStA SC	456	83	18%
Berkhamsted SC	243	40	16%
Hemel Hempstead SC	276	38	14%
Hertsmere Flyers SC	70	9	13%
Harpenden SC	232	29	13%
Hertford SC	57	6	11%
Cheshunt SC	155	16	10%
Tring SC	102	6	6%
Hitchin SC	152	6	4%
Stevenage SC	58	0	0%
Verulam ASC	50	0	0%
Bushey ASC	13	0	0%
Ware SC	2	0	0%
Letchworth ASC	1	0	0%

The table opposite show the underlying data for the swims vs medals graphs.

The highest medal return was 38% from Hatfield. As previously stated, Hatfield took a almost a third of the medals on offer at the Championships.

The top 3 clubs for medals as a percentage of swims were Hatfield, Bishop's Stortford and Hoddesdon .

It is noted that the medals data is slightly skewed as one swim could potentially earn three medals in the HDW events (age group, U16 and Open).

To give this a bit more context, Hatfield won a medal every 2.61 swims. Bishop's Stortford won a medal every 2.68 swims, and Hoddesdon every 3.06. At the lower end, Hitchin won a medal every 25.33 swims, and Tring won a medal every 17.00 swims.

Finals Analysis

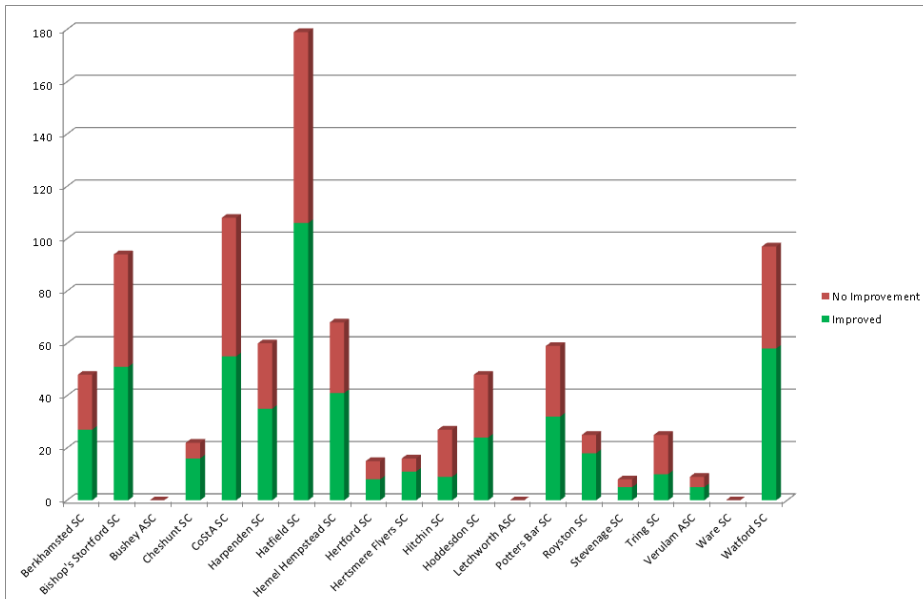
The table below contains data on the finals from the Championships. Seventeen of the twenty clubs had swimmers in a final (85%). Hatfield had the most swims in finals, followed by CoStA and Watford.

Of the 908 final swims there were 511 swims where the time improved from the heats swim to the final swim; 56% of the swims.

The heat to final improvements and medals are analysed on the following slides.

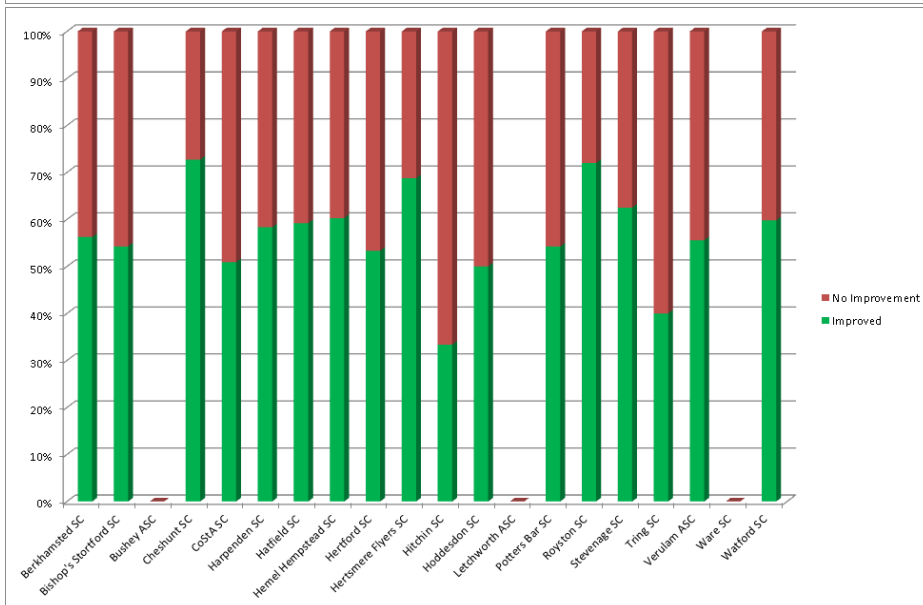
Club	# swims	H->F improved	% improved	# medals	% medals
Berkhamsted SC	48	27	56%	19	40%
Bishop's Stortford SC	94	51	54%	52	55%
Cheshunt SC	22	16	73%	6	27%
CoStA SC	108	55	51%	38	35%
Harpenden SC	60	35	58%	17	28%
Hatfield SC	179	106	59%	92	51%
Hemel Hempstead SC	68	41	60%	11	16%
Hertford SC	15	8	53%	5	33%
Hertsmere Flyers SC	16	11	69%	6	38%
Hitchin SC	27	9	33%	2	7%
Hoddesdon SC	48	24	50%	31	65%
Potters Bar SC	59	32	54%	22	37%
Royston SC	25	18	72%	10	40%
Stevenage SC	8	5	63%	0	0%
Tring SC	25	10	40%	3	12%
Verulam ASC	9	5	56%	0	0%
Watford SC	97	58	60%	36	37%

Swims vs. Improvements (heats-finals)



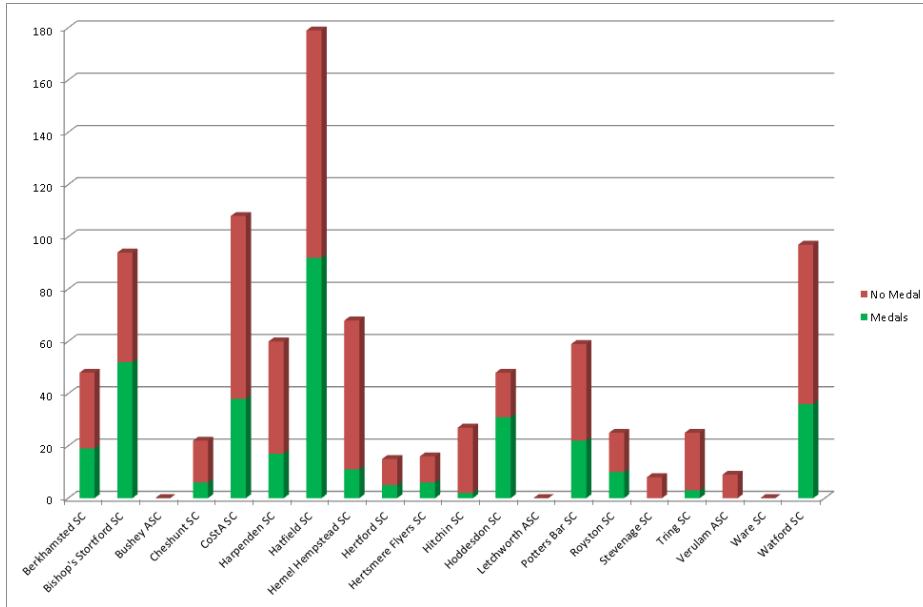
The graphs opposite show the number of improved times from the heats to the finals compared to the total number of swims in a final by club. The top graph shows this in a numeric format, whilst the lower graph shows it as a percentage.

You can see from the top graph that Hatfield had the most finalists, followed by CoStA and Watford. Relating back to the total number of entries, it is interesting to note that the top 5 clubs in terms of number of entries is the same as the top 5 for number of finalists.



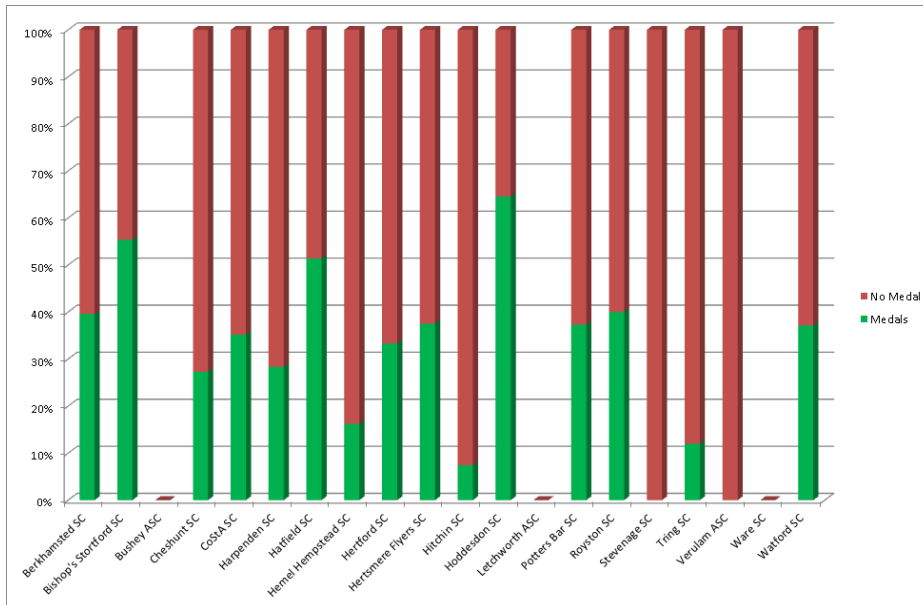
If you look at the lower graph you can see that, as a percentage of final swims, Cheshunt had the best record in getting faster from heats to finals on 73%, with Royston and Hertsmere Flyers following on. It is noted that on this basis, CoStA have one of the lowest percentage returns.

Swims vs. Medals (finals)



The graphs opposite show the number of medals compared to the total number of swims in a final by club. The top graph shows this in a numeric format, whilst the lower graph shows it as a percentage.

You can see from the top graph that Hatfield had the most finalists, followed by CoStA and Watford. Relating back to the total number of entries, it is interesting to note that the top 5 clubs in terms of number of entries is the same as the top 5 for number of finalists.



If you look at the lower graph you can see that, as a percentage of final swims, Hoddesdon collected the most medals, followed by Bishop's Stortford and Hatfield.

Event Improvements

Working on an improvement in the heats against the entry time of each swimmer, the events have been analysed in terms of percentage improvement and presented in the table below.

The event with the highest percentage improvement was the boys 400m freestyle at 88%. The 800m freestyle for girls was second on 73%, with the boys 400m IM in third with 71%. As a total of the two sexes, the 400m freestyle was the most improved event at 80%, followed by the 400m IM on 70%.

The least improvement was seen in the girls 50m & 100m freestyle And 100m butterfly, all at 43%. This was followed by the boys 1500m freestyle at 44%. As a total, the 50m freestyle was the least improved at 45%, followed by the 100m butterfly at 50%.

As strokes, the IM was the most improved at 62%, followed by backstroke (59%), freestyle & butterfly(56%) and breaststroke (55%).

Event	F	M	Total
50 BK	45%	68%	57%
50 BR	47%	63%	56%
50 FLY	45%	65%	56%
50 FR	43%	47%	45%
100 BK	51%	66%	59%
100 BR	48%	60%	54%
100 FLY	43%	56%	50%
100 FR	43%	61%	53%
100 IM	68%	65%	67%
200 BK	59%	67%	63%
200 BR	51%	61%	56%
200 FLY	70%	69%	69%
200 FR	60%	66%	63%
200 IM	49%	59%	54%
400 FR	70%	88%	80%
400 IM	70%	71%	70%
LD (800/1500 FR)	73%	44%	62%

Average	55%	63%
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