

PHRF Handicaps for the 2016 Arkansas Cup Series and 2016 Dave Durst Memorial Regatta

Locally assigned PHRFs for the 2016 BLSC Spring Series have been adjusted to produce the following table of PHRFs which will be in effect for the 2016 Arkansas Cup Series and the 2016 Dave Durst Memorial Regatta. Without going into detail, the adjusted PHRFs reflect 80% weighting of the 2016 Spring Series handicap and 20% weighting of the elapsed times of the last 44 races sailed by the combined fleets and last 37 races sailed by the Cruising Fleet, respectively.

Locally assigned PHRFs at the end of the 2015 racing season, and adjusted PHRFs for the 2016 BLSC Spring Racing Series

Boat	Type	Owner	Local PHRF ¹ (sec/mi)	USSA ² (sec/mi)	PHRF for 2016 Spring Series		PHRF after 2016 Spring Series	
					Perf. Fleet ³ (sec/mi)	Cruising Fleet ³ (sec/m)	Perf. Fleet ⁶ (sec/mi)	Cruising Fleet ⁶ (sec/mi)
Catalina 22				269.7	274.7 ⁴	267.3 ⁴	286.5 ⁴	266.5 ⁴
Catalina 25				228.5	233.3 ⁴	226.3 ⁴	244.5 ⁴	225.6 ⁴
Casita	Hunter 28	Walker	186	186.7	194.5	186.0 ⁵	208.1	186.0 ⁵
Calaloo	Hunter 290	Flynn	210	191.3	215.2	208.4	226.8	208.3
Cha Changes	Hunter 35.5	Havens	138	138.3	143.0	135.5	153.8	134.3
Hydrophilic	Ericson 29	Hines	199	199.2	204.3	197.6	216.9	198.5
Island Spirit	Hunter 380	Harrell	135	116.5	140.2	131.8	152.9	131.2
Legasea	Laser 28	M. Mayer	135	135.7	140.5	132.0	151.5	130.0
Orion	Hunter 34	Justiss	148	140.3	153.1	147.0	163.2	146.3
Southern Wind	Hunter 386	Willis	135	138.8	143.8	136.0	160.1	139.4
Valkyrie	O'Day 32-2	Madsen	176	169.0	180.3	171.3	190.9	168.6
Bela Luna	Hunter 34	Murray	151	140.3	157.9	151.3	171.0	152.9
Dreamer	Merit 25	Unger	177	170.6	179.1	170.7	185.4	163.4
Never Enough	Hunter 35.5	White		149.0	149.0	148.7	161.5	150.1
Moonseeker	Hunter 35.5	Carron		149.0	149.0	148.7	159.0	148.0
First Light	Tanzer 26	M. Havens		215.4	215.4	215.1	222.6	208.4
Wine Mixer	Catalina 380 (WK)	Flynn		124.9	124.9	124.4	139.5	128.3
Anahi	Merit 25	Bennett	171	170.6	175.6		184.8	
Rhumboogie	Merit 25	Carron	171	170.6	174.6		184.4	
Air Hawg	C & C 27	Lane	201	204.5	204.7		214.5	
Arabella	Islander 28	Hatch	201	200.8	206.5		218.9	
Danger Zone	S2 7.9	Hopkins	168	168.0	165.7		169.1	
Jaded	J 24	White	171	170.0	173.4		181.3	
Rapid Transit	Hobie 33	Asfahl	93	93.5	97.3		107.4	
Dave & Mary	Colgate 26	Zamierowski	177	162.2	183.3		195.8	
Volare	Capri 25	D. Mayer	176	173.5	178.5		187.1	
Banjo	J 29	Stivers	114	114.0	114.0 ⁵		108.0 ⁵	

¹ Local PHRF at the end of 2015 racing season.

² LS-PHRF estimated from United States Sailing Association (USSA) tables.

³ PHRF based on 80% weighting of 2015 Local PHRF and 20% weighting of all 2014 and 2015 race elapsed times.

⁴ No data at BLSC for 2014 or 2015.

⁵ Banjo and Casita are designated reference boats for the Performance and Cruising Fleets respectively. Note that Banjo's PHRF now has been reduced to 108 from 114, consistent with her former rating at Lake Travis, Texas, where use of asymmetric spinnakers is allowed on J-29s.

⁶ 2014 Spring Series elapsed times have been removed and 2016 Spring Series elapsed times have been added to the data set analyzed.

Requirements and Details

Fleets. Before the first race of a series –of-races event, (for example the 8-race Spring Series) or a single-race event, a boat must declare her intention to race in either one of two fleets with PHRF handicaps assigned as shown above:

Cruising Fleet. No boat may fly a spinnaker during that particular racing event.

Performance Fleet. A boat may optionally fly a spinnaker or not, consistent with the fastest way for her to complete the course.

A boat may switch fleets from event to event but not within a particular event.

Wind velocity adjustments. Time-on-time PHRF handicapping, e.g. for the Spring Series, will incorporate the following wind velocity adjustments:

$$\text{Corrected time} = \text{TCF} \times \text{Elapsed Time.}$$

The time correction factor (TCF) is computed as $\text{TCF} = 650 / (\text{B} + \text{PHRF})$, where PHRF is from the above table and

B = 600 if the average wind velocity is less than 6 mph (water surface appears streaky and patchy),

B = 550 if the average wind velocity is between 6 and 18 mph (ideal racing conditions),

B = 480 if the average wind velocity exceeds 18 mph (consider shortening sail).

Fleet-wide PHRF adjustments. All PHRFs will be reviewed automatically and potentially adjusted twice a year, once at the end of the Spring Series and before the start of the Arkansas Cup Series, and a second time after Arkansas Cup Race #3 on Labor Day and before the start of the Fall Series.

Individual PHRF adjustments. Any boat may ask for an adjustment to its assigned PHRF by filing a written appeal with any member of the BLSC Handicap Committee consisting of Mike Mayer, Ted Willis and Tom Unger, or the Vice Commodore (James Dunn).