

CRF 2023 Rating Factors					
2/21/23	NOTE: CRF formulae, factors and ratings are subject to change each calendar year				
			Type #	2023	
Rig Factors					
	Jib Headed:	Sloop =	1	1.00	
		Yawl =	2	0.89	
		Ketch =	3	0.88	
	Square Head:	Sloop =	4	1.05	
	Schooner:	Staysail =	5	0.83	
		Gaff Fore, Marconi Main =	6	0.65	
		Gaff Fore, Gaff Main =	7	0.50	
	Gaff Headed:	Sloop =	8	0.80	
		Yawl =	9	0.71	
		Ketch =	10	0.70	
Shroud Type Factors					
		1 x 19 Wire	1	0.99	
		SS Rod	2	1.00	
		Composite (carbon, dyneema, etc)	3	1.02	
Prop Factors					
				Propeller Type Descriptions	
		None	1	1.05	
		Exposed shaft or strut drive	2	1.00	Feathering or folding propeller
		2 blade solid prop in aperture	3	0.98	2 blade solid propeller
		3 blade solid prop in aperture	4	0.94	3 blade solid propeller
		Exposed offcenter shaft, or in aperture w/folding or feathering prop	5	0.99	Feathering or folding propeller
		Exposed shaft, 2 blade solid prop	6	0.97	Solid propeller
		Exposed shaft, 3 blade solid prop	7	0.95	Solid propeller
		Twin Screw	8	0.90	Solid propeller
Keel Factors					
				Keel Type Guidelines	
		Short chd fin w/Bulb & Spade Rudder	1	1.075	Chord length @ 1/2 draft <10% LWL
		Fin w/Bulb & Spade Rudder	2	1.000	Chord length @ 1/2 draft = 10-20% LWL
		Fin w/o Bulb, w/Spade Rudder	3	0.990	Chord length @ 1/2 draft = 20-30% LWL
		Fin w/Skeg Rudder	4	0.980	Chord length @ 1/2 draft = 30-40% LWL
		Racing 'Full Keel' w/Attached Rudder	5	0.970	Chord length @ 1/2 draft = 50-65% LWL (e.g. Cutaway Universal & International Rule keels)
		Cruising 'Full Keel' w/Attached Rudder	6	0.960	Chord length @ 1/2 draft > 65% LWL (e.g. Full length classic and vintage cruising keels, e.g. Concordia's)
Spar Material Factors					
		Carbon	1	1.000	
		Aluminum	2	0.985	
		Wood, Sloop	3	0.950	
		Wood, Split Rigs	4	0.930	Yawls, ketches & schooners
Moveable Appendage Factor					
			1	1.000	Single rudder only
		Trim Tab	2	1.075	Single rudder plus trim tab on keel trailing edge