

**Form to Calculate Flotation for Inboard/Sterndrive Motor boats Less Than 20 Ft (6 M);
Using ABYC, USCG and Metric Values**

See instructions: Input data fields in blue in pounds, in red in metric.

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Boat: Make, Mod, Year

Length

Breadth

		Boat Weight	

Machinery Weight

Maximum Weight Capacity = MC

Maximum persons Capacity = PC

Buoyancy of Flotation Material = B

1075	lb	487.6	Kg
1400	lb	635.0	kg
1100	lb	499.0	kg
60.4	lb/cu ³	1000.0	kg/m ³
40.0	gals	151.4	liters

Fuel Tank Capacity

Fuel Weight/gal

Weights of hull and materials in the boat.

Factors K from the Table

Boat Weights Submerged

	lb	kg	Factor K	ABYC lb Wt X K	USCG Lb Wt X K	Metric Kg Totals
Wh Fiberglass	650	294.80	0.33	214.5	214.5	97.3
Wh Aluminum	80	36.30	0.63	50.4	50.4	22.9
Wh1 Wood	150	68.40	-0.81	-121.5	-121.5	-55.4
Wh2 metal Fittings	30	13.60	0.88	26.4	26.4	12.0
wh3 Fasteners	0	0.00	0.88	0.0	0.0	0.0
wh4 Windshield	0	0.00	0.63	0.0	0.0	0.0
Wh5 Other from Worksheet	228	103.40	0.63	143.6	143.6	65.1

Boat Weights Dry:

Wd Deck Weight (If Dry K = 1)	245	111.10	0.33	80.9	80.9	36.7
Other from Work sheet	55	24.90	-0.81	-44.6	-44.6	-20.2

Boat Weights Swamped

Boat Weights Swamped K=0.75	0	0.00	0.75	0.0	0.0	0.0
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Boat Weight Wb (total from above) Total 349.7 349.7 158.4

Full Fuel Tank Weight = Ff 240.0 112.0

Wp = Swamped motor, drive unit + Battery Wt 806.3 806.3 365.7
(includes motor, drive unit, propeller, shaft, battery & transmission)

