EQUATIONS **NOTE: METRIC UNITS ARE USED IN ALL EQUATIONS!!**

Conversion Factors: 1m = 39.37 inches = 3.33 ft

1 tonne/cm (tpc) = tonne/0.3937 inch = 2.54 tpi

Tankers		Feet	R-squared	Standard Error
(m) Draft =	0.445265*DWT^0.304761	*39.37/12	0.94	0.09253
(m) Beam =	1.004917*DWT^0.321321	*39.37/12	0.97	0.06220
(m) LOA =	8.49089*DWT^0.291101	*39.37/12	0.97	0.06020
Horsepower =	6808.521943+0.088546*DWT		0.89	2594.52
Service Speed =	10.468702*DWT^0.030071		0.20	0.05458
Fuel Consumption =	0.007035*HP^0.903943		0.88	0.16511
Immersion Rate (tpc) =	0.055218*DWT^0.639204	*2.54 for tpi	0.98	0.07394

Bulkers		Feet	R-squared	Standard Error
(m) Draft =	0.398082*DWT^0.315559	*39.37/12	0.93	0.11011
(m) Beam =	1.291376*DWT^0.291742	*39.37/12	0.97	0.06508
(m) LOA =	7.945414*DWT^0.300942	*39.37/12	0.95	0.08869
Horsepower =	7617.479147+0.081132*DWT		0.60	2738.93
Service Speed =	14		na	
Fuel Consumption =	0.00466*HP^0.954379		0.78	0.17016
Immersion Rate (tpc) =	0.063512*DWT^0.623346	*2.54 for tpi	0.91	0.12336

Containerships 1/		Feet	R-squared	Standard Error
(m) Draft =	0.390122*DWT^0.320449	*39.37/12	0.92	0.83500
(m) Beam =	1.529934*DWT^0.285778	*39.37/12	0.92	0.07294
(m) LOA =	4.089324*DWT^0.380157	*39.37/12	0.95	0.08208
Horsepower =	0.863133*DWT-1905.119291		0.90	5993.96
Service Speed =	3.117881*DWT^0.182018		0.81	0.06951
Fuel Consumption =	0.005775*HP^0.932771		0.96	0.14063
Immersion Rate (tpc) =	0.036395*DWT^0.696855	*2.54 for tpi	0.98	0.07894
DWT=	18.164764*TEU^0.966481		0.96	0.18181

General Cargo ships		Feet	R-squared	Standard Error
(m) Draft =	0.302447*DWT^0.35294	*39.37/12	0.86	0.13556
(m) Beam =	1.459624*DWT^0.2802	*39.37/12	0.90	0.09045
(m) LOA =	6.839439*DWT^0.320306	*39.37/12	0.90	0.10501
Horsepower =	748.110621+0.551910*DWT		0.74	2090.97
Service Speed =	3.718947*DWT^0.150243		0.60	0.11798
Fuel Consumption =	0.008882*HP^0.880101		0.90	0.21177
Immersion Rate (tpc) =	no data	*2.54 for tpi		

1/ Note some of equations have been manually overwritten in the table for the 3,500-6,000 teu sizes and LASH.