

Sean C O'Keefe Hydrostatic Data

Barge Data:

Length:	180
Beam:	54
Depth:	14

Rake Length @ Stern:	0
Rake Height @ Stern:	0

Rake Length @ Bow:	23.6
Rake Height @ Bow:	11

Bottom Length:	156.4
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Density of Water (lbs/cu.ft.) :	64
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Draft (Ft)	Volume (Cu Ft)	W.L.L. (Ft)	LCF (Ft from Stern)	Displacement (S. Tons)	LCB (Ft from Stern)	KB (Ft)	I (T) (Ft^4)	BM (Ft)	KM (Ft)	TPI (S.Tons)	I (Long) (Ft^4)	M.T.1" (Ft-S.Tons)
1.00	8,504	158.55	79.27	272.11	78.74	0.50	2,080,433	244.66	245.16	22.83	17,933,865	266.52
1.25	10,648	159.08	79.54	340.72	78.87	0.63	2,087,472	196.05	196.68	22.91	18,116,494	269.23
1.50	12,799	159.62	79.81	409.56	79.01	0.75	2,094,510	163.65	164.40	22.99	18,300,358	271.96
1.75	14,957	160.15	80.08	478.63	79.14	0.88	2,101,548	140.50	141.38	23.06	18,485,463	274.71
2.00	17,123	160.69	80.35	547.93	79.28	1.00	2,108,586	123.14	124.15	23.14	18,671,811	277.48
2.25	19,296	161.23	80.61	617.47	79.41	1.13	2,115,624	109.64	110.77	23.22	18,859,407	280.27
2.50	21,476	161.76	80.88	687.23	79.55	1.26	2,122,662	98.84	100.10	23.29	19,048,256	283.08
2.75	23,663	162.30	81.15	757.23	79.68	1.38	2,129,701	90.00	91.38	23.37	19,238,361	285.90
3.00	25,858	162.84	81.42	827.46	79.82	1.51	2,136,739	82.63	84.14	23.45	19,429,727	288.75
3.25	28,060	163.37	81.69	897.92	79.96	1.64	2,143,777	76.40	78.04	23.53	19,622,358	291.61
3.50	30,269	163.91	81.95	968.61	80.09	1.76	2,150,815	71.06	72.82	23.60	19,816,258	294.49
3.75	32,486	164.45	82.22	1,039.54	80.23	1.89	2,157,853	66.42	68.32	23.68	20,011,430	297.39
3.96	34,353	164.90	82.45	1,099.29	80.34	2.00	2,163,765	62.99	64.98	23.75	20,176,363	299.84
4.00	34,709	164.98	82.49	1,110.70	80.36	2.02	2,164,891	62.37	64.39	23.76	20,207,881	300.31
4.25	36,940	165.52	82.76	1,182.08	80.50	2.15	2,171,930	58.80	60.94	23.83	20,405,612	303.25
4.50	39,178	166.05	83.03	1,253.70	80.64	2.27	2,178,968	55.62	57.89	23.91	20,604,630	306.21
4.75	41,424	166.59	83.30	1,325.55	80.77	2.40	2,186,006	52.77	55.17	23.99	20,804,937	309.18
5.00	43,676	167.13	83.56	1,397.64	80.91	2.53	2,193,044	50.21	52.74	24.07	21,006,538	312.18
5.25	45,936	167.66	83.83	1,469.95	81.05	2.66	2,200,082	47.89	50.55	24.14	21,209,438	315.20
5.50	48,203	168.20	84.10	1,542.50	81.19	2.78	2,207,120	45.79	48.57	24.22	21,413,640	318.23
5.75	50,477	168.74	84.37	1,615.28	81.32	2.91	2,214,159	43.86	46.78	24.30	21,619,148	321.28
6.00	52,759	169.27	84.64	1,688.29	81.46	3.04	2,221,197	42.10	45.14	24.38	21,825,967	324.36
6.25	55,048	169.81	84.90	1,761.53	81.60	3.17	2,228,235	40.48	43.65	24.45	22,034,100	327.45
6.50	57,344	170.35	85.17	1,835.00	81.74	3.30	2,235,273	38.98	42.28	24.53	22,243,553	330.56
6.75	59,647	170.88	85.44	1,908.71	81.87	3.42	2,242,311	37.59	41.02	24.61	22,454,329	333.70
7.00	61,958	171.42	85.71	1,982.64	82.01	3.55	2,249,349	36.30	39.86	24.68	22,666,432	336.85
7.25	64,275	171.95	85.98	2,056.81	82.15	3.68	2,256,388	35.10	38.79	24.76	22,879,867	340.02
7.50	66,600	172.49	86.25	2,131.21	82.29	3.81	2,263,426	33.99	37.80	24.84	23,094,637	343.21
7.75	68,933	173.03	86.51	2,205.85	82.43	3.94	2,270,464	32.94	36.88	24.92	23,310,748	346.42
8.00	71,272	173.56	86.78	2,280.71	82.57	4.07	2,277,502	31.96	36.02	24.99	23,528,202	349.66
8.25	73,619	174.10	87.05	2,355.80	82.70	4.20	2,284,540	31.03	35.23	25.07	23,747,004	352.91
8.50	75,973	174.64	87.32	2,431.13	82.84	4.33	2,291,578	30.16	34.49	25.15	23,967,159	356.18
8.75	78,334	175.17	87.59	2,506.69	82.98	4.46	2,298,617	29.34	33.80	25.22	24,188,670	359.47
9.00	80,703	175.71	87.85	2,582.48	83.12	4.59	2,305,655	28.57	33.16	25.30	24,411,542	362.78
9.25	83,078	176.25	88.12	2,658.50	83.26	4.72	2,312,693	27.84	32.55	25.38	24,635,778	366.12

Sean C O'Keefe Hydrostatic Data

9.50	85,461	176.78	88.39	2,734.76	83.40	4.85	2,319,731	27.14	31.99	25.46	24,861,384	369.47
9.75	87,851	177.32	88.66	2,811.24	83.54	4.98	2,326,769	26.49	31.46	25.53	25,088,363	372.84
10.00	90,249	177.85	88.93	2,887.96	83.68	5.11	2,333,807	25.86	30.97	25.61	25,316,719	376.23
10.25	92,653	178.39	89.20	2,964.91	83.82	5.24	2,340,846	25.26	30.50	25.69	25,546,457	379.65
10.50	95,065	178.93	89.46	3,042.09	83.96	5.37	2,347,884	24.70	30.07	25.77	25,777,580	383.08
10.75	97,484	179.46	89.73	3,119.50	84.10	5.50	2,354,922	24.16	29.66	25.84	26,010,093	386.54
11.00	99,911	180.00	90.00	3,197.15	84.24	5.63	2,361,960	23.64	29.27	25.92	26,244,000	390.02
11.25	102,341	180.00	90.00	3,274.91	84.37	5.76	2,361,960	23.08	28.84	25.92	26,244,000	390.02
11.50	104,771	180.00	90.00	3,352.67	84.50	5.89	2,361,960	22.54	28.43	25.92	26,244,000	390.02
11.75	107,201	180.00	90.00	3,430.43	84.63	6.02	2,361,960	22.03	28.05	25.92	26,244,000	390.02
12.00	109,631	180.00	90.00	3,508.19	84.75	6.15	2,361,960	21.54	27.69	25.92	26,244,000	390.02
12.25	112,061	180.00	90.00	3,585.95	84.86	6.28	2,361,960	21.08	27.36	25.92	26,244,000	390.02
12.50	114,491	180.00	90.00	3,663.71	84.97	6.41	2,361,960	20.63	27.04	25.92	26,244,000	390.02
12.75	116,921	180.00	90.00	3,741.47	85.08	6.54	2,361,960	20.20	26.74	25.92	26,244,000	390.02
13.00	119,351	180.00	90.00	3,819.23	85.18	6.67	2,361,960	19.79	26.46	25.92	26,244,000	390.02