

Barges "ANCHORAGE PROVIDER, FAIRBANKS PROVIDER, WHITTIER PROVIDER"
 DISPLACEMENT / DEADWEIGHT TABLES INCL CONTAINER RACKS FR 15-47 PLUS CONCRETE WEAR DECK

JOB NO.: 0523
 Updated: 04/19/06

Draft Ft - Inches	Freeboard Inches	Vessel in Sea Water			Vessel in Fresh Water			Max. Cargo Height Ft abv. Dk. Note 1	Max. Cargo VCG Ft abv. dk Note 1	
		Vessel	Cargo	Tons/inch	Vessel	Cargo	Tons/inch			
		Displacement Short Tons	Deadweight Short Tons	Short Tons	Displacement Short Tons	Deadweight Short Tons	Short Tons			
18	5	67.69	19,918.07	14,881.95	106.44	19,432.26	14,396.14	103.84	NA	NA
18	4	68.69	19,811.63	14,775.51	106.38	19,328.42	14,292.29	103.79	NA	NA
18	3	69.69	19,705.28	14,669.16	106.31	19,224.66	14,188.54	103.72	NA	NA
18	2	70.69	19,598.99	14,562.87	106.24	19,120.97	14,084.84	103.65	NA	NA
18	1.06	71.63	19,499.14	14,463.02	106.17	19,023.55	13,987.43	103.58	75.37	15.59
18	1	71.69	19,492.77	14,456.65	106.17	19,017.34	13,981.21	103.58	75.40	15.65
18	0	72.69	19,386.63	14,350.51	106.10	18,913.79	13,877.66	103.51	75.92	16.71
17	11	73.69	19,280.56	14,244.44	106.02	18,810.30	13,774.18	103.43	76.44	17.76
17	10	74.69	19,174.57	14,138.45	105.94	18,706.90	13,670.77	103.36	76.96	18.82
17	9	75.69	19,068.68	14,032.56	105.83	18,603.59	13,567.47	103.25	77.47	19.87
17	8	76.69	18,962.90	13,926.78	105.72	18,500.39	13,464.27	103.14	77.99	20.92
17	7	77.69	18,857.22	13,821.10	105.61	18,397.29	13,361.16	103.03	78.51	21.97
17	6	78.69	18,751.67	13,715.55	105.50	18,294.31	13,258.19	102.93	79.02	23.02
17	5	79.69	18,646.21	13,610.09	105.40	18,191.42	13,155.30	102.83	79.54	24.07
17	4	80.69	18,540.87	13,504.75	105.29	18,088.65	13,052.53	102.72	80.06	25.12
17	3	81.69	18,435.54	13,399.52	105.18	17,985.99	12,949.87	102.61	80.57	26.17
17	2	82.69	18,330.51	13,294.39	105.06	17,883.42	12,847.30	102.50	81.08	27.21
17	1	83.69	18,225.52	13,189.40	104.94	17,781.00	12,744.87	102.38	81.60	28.26
17	0	84.69	18,120.63	13,084.51	104.82	17,678.66	12,642.54	102.26	82.11	29.30
16	11	85.69	18,015.87	12,979.75	104.71	17,576.46	12,540.33	102.16	82.73	30.27
16	10	86.69	17,911.21	12,875.09	104.59	17,474.35	12,438.23	102.04	83.34	31.23
16	9	87.69	17,806.68	12,770.56	104.48	17,372.37	12,336.25	101.93	83.96	32.19
16	8	88.69	17,702.26	12,666.14	104.37	17,270.50	12,234.37	101.82	84.58	33.16
16	7	89.69	17,597.93	12,561.81	104.31	17,168.71	12,132.59	101.77	85.19	34.12
16	6	90.69	17,493.68	12,457.56	104.19	17,067.00	12,030.88	101.65	85.81	35.08
16	5	91.69	17,389.54	12,353.42	104.08	16,965.40	11,929.28	101.54	86.42	36.04
16	4	92.69	17,285.52	12,249.40	103.97	16,863.92	11,827.80	101.43	87.03	37.00
16	3	93.69	17,181.59	12,145.47	103.86	16,762.53	11,726.40	101.33	87.65	37.95
16	2	94.69	17,077.78	12,041.66	103.76	16,661.25	11,625.12	101.23	88.26	38.91
16	1	95.69	16,974.07	11,937.95	103.66	16,560.07	11,523.94	101.13	88.87	39.87
16	0	96.69	16,870.46	11,834.34	103.56	16,458.99	11,422.86	101.03	89.48	40.82
15	11	97.69	16,766.95	11,730.83	103.46	16,358.00	11,321.88	100.94	90.23	41.52
15	10	98.69	16,663.54	11,627.42	103.37	16,257.11	11,220.99	100.85	90.97	42.22
15	9	99.69	16,559.71	11,523.59	104.11	16,155.81	11,119.69	101.57	91.72	42.92
15	8	100.69	16,455.97	11,419.85	104.00	16,054.60	11,018.48	101.46	92.47	43.63
15	7	101.69	16,352.35	11,316.23	103.88	15,953.51	10,917.39	101.35	93.22	44.33
15	6	102.69	16,248.84	11,212.72	103.76	15,852.53	10,816.40	101.23	93.97	45.03

Notes: 1. Cargo heights and VCGs shown are the "non-rack" (deck, rail) cargo heights and VCGs, when any amount of cargo is being carried in the racks. If racks are empty, see Stability Booklet for allowable values

HOCKEMA & WHALEN ASSOCIATES



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Draft Ft - Inches	Freeboard Inches	Vessel in Sea Water			Vessel in Fresh Water			Max. Cargo Height Ft abv. Dk. Note 1	Max. Cargo VCG Ft abv. dk Note 1	
		Vessel	Cargo	Tons/inch	Vessel	Cargo	Tons/inch			
		Displacement Short Tons	Deadweight Short Tons	Short Tons	Displacement Short Tons	Deadweight Short Tons	Short Tons			
15	5	103.69	16,145.33	11,109.21	103.65	15,751.54	10,715.42	101.12	94.71	45.73
15	4	104.69	16,042.04	11,005.92	103.52	15,650.77	10,614.65	101.00	95.46	46.43
15	3	105.69	15,938.88	10,902.76	103.38	15,550.13	10,514.00	100.86	96.20	47.13
15	2	106.69	15,835.86	10,799.74	103.25	15,449.62	10,413.49	100.73	96.94	47.83
15	1	107.69	15,732.96	10,696.84	103.05	15,349.23	10,313.10	100.54	97.69	48.52
15	0	108.69	15,630.02	10,593.90	102.98	15,248.80	10,212.68	100.47	98.43	49.22
14	11	109.69	15,527.23	10,491.11	102.78	15,148.52	10,112.39	100.27	99.14	49.58
14	10	110.69	15,424.61	10,388.49	102.59	15,048.40	10,012.28	100.09	99.85	49.93
14	9	111.69	15,322.15	10,286.03	102.40	14,948.44	9,912.31	99.90	100.56	50.28
14	8	112.69	15,219.85	10,183.73	102.22	14,848.63	9,812.51	99.73	101.27	50.64
14	7	113.69	15,117.71	10,081.59	102.05	14,748.99	9,712.86	99.56	101.97	50.99
14	6	114.69	15,015.73	9,979.61	101.88	14,649.49	9,613.37	99.40	102.68	51.34
14	5	115.69	14,913.89	9,877.77	101.72	14,550.14	9,514.01	99.24	103.38	51.70
14	4	116.69	14,812.20	9,776.08	101.57	14,450.93	9,414.80	99.09	104.09	52.05
14	3	117.69	14,710.65	9,674.53	101.42	14,351.85	9,315.73	98.95	104.79	52.40
14	2	118.69	14,609.25	9,573.13	101.27	14,252.93	9,216.80	98.80	105.49	52.75
14	1	119.69	14,507.97	9,471.85	101.13	14,154.12	9,117.99	98.66	106.19	53.10
14	0	120.69	14,406.84	9,370.72	101.00	14,055.45	9,019.33	98.54	106.89	53.45
13	11	121.69	14,305.83	9,269.71	100.87	13,956.91	8,920.78	98.41	107.95	53.98
13	10	122.69	14,204.95	9,168.83	100.74	13,858.49	8,822.36	98.28	109.01	54.51
13	9	123.69	14,104.19	9,068.07	100.62	13,760.19	8,724.06	98.17	110.07	55.04
13	8	124.69	14,003.56	8,967.44	100.50	13,662.01	8,625.88	98.05	111.13	55.56
13	7	125.69	13,903.05	8,866.93	100.38	13,563.95	8,527.83	97.93	112.18	56.09
13	6	126.69	13,802.66	8,766.54	100.27	13,466.01	8,429.88	97.82	113.24	56.62
13	5	127.69	13,702.38	8,666.26	100.16	13,368.18	8,332.05	97.72	114.29	57.14
13	4	128.69	13,602.21	8,566.09	100.06	13,270.45	8,234.32	97.62	115.34	57.67
13	3	129.69	13,502.15	8,466.03	99.95	13,172.83	8,136.70	97.51	116.39	58.19
13	2	130.69	13,402.19	8,366.07	99.85	13,075.31	8,039.18	97.41	117.44	58.72
13	1	131.69	13,301.93	8,265.81	100.58	12,977.49	7,941.37	98.13	118.50	59.24
13	0	132.69	13,201.67	8,165.55	100.46	12,879.68	7,843.55	98.01	119.55	59.77
12	11	133.69	13,101.52	8,065.40	100.34	12,781.97	7,745.85	97.89	120.51	60.25
12	10	134.69	13,001.51	7,965.39	100.22	12,684.40	7,648.28	97.78	121.47	60.73
12	9	135.69	12,901.61	7,865.49	100.08	12,586.94	7,550.81	97.64	122.42	61.21
12	8	136.69	12,801.84	7,765.72	99.95	12,489.60	7,453.48	97.51	123.38	61.69
12	7	137.69	12,702.20	7,666.08	99.82	12,392.39	7,356.27	97.39	124.33	62.17
12	6	138.69	12,602.68	7,566.56	99.69	12,295.30	7,259.17	97.26	125.28	62.64



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Draft Ft - Inches	Freeboard Inches	Vessel in Sea Water			Vessel in Fresh Water			Max. Cargo Height Ft abv. Dk. Note 1	Max. Cargo VCG Ft abv. dk Note 1	
		Vessel Displacement Short Tons	Cargo Deadweight Short Tons	Tons/inch Short Tons	Vessel Displacement Short Tons	Cargo Deadweight Short Tons	Tons/inch Short Tons			
12	5	139.69	12,503.20	7,467.08	99.50	12,198.24	7,162.12	97.07	126.24	63.12
12	4	140.69	12,403.98	7,367.86	99.29	12,101.44	7,065.32	96.87	127.19	63.60
12	3	141.69	12,304.95	7,268.83	99.10	12,004.83	6,968.70	96.68	128.13	64.07
12	2	142.69	12,206.07	7,169.95	98.90	11,908.36	6,872.24	96.49	129.08	64.54
12	1	143.69	12,107.35	7,071.23	98.72	11,812.05	6,775.92	96.31	130.03	65.02
12	0	144.69	12,008.80	6,972.68	98.54	11,715.90	6,679.78	96.14	130.97	65.49
11	11	145.69	11,910.40	6,874.28	98.37	11,619.90	6,583.78	95.97	132.21	66.11
11	10	146.69	11,812.16	6,776.04	98.20	11,524.06	6,487.93	95.80	133.44	66.73
11	9	147.69	11,714.07	6,677.95	98.04	11,428.36	6,392.24	95.65	134.67	67.34
11	8	148.69	11,616.12	6,580.00	97.89	11,332.80	6,296.68	95.50	135.90	67.96
11	7	149.69	11,518.31	6,482.19	97.74	11,237.38	6,201.25	95.36	137.13	68.57
11	6	150.69	11,420.64	6,384.52	97.59	11,142.09	6,105.96	95.21	138.36	69.19
11	5	151.69	11,323.11	6,286.99	97.45	11,046.94	6,010.81	95.07	139.59	69.80
11	4	152.69	11,225.72	6,189.60	97.31	10,951.92	5,915.80	94.94	140.81	70.41
11	3	153.69	11,128.46	6,092.34	97.18	10,857.03	5,820.91	94.81	142.03	71.02
11	2	154.69	11,031.33	5,995.21	97.05	10,762.27	5,726.15	94.68	143.25	71.63
11	1	155.69	10,934.33	5,898.21	96.92	10,667.64	5,631.51	94.56	144.47	72.24
11	0	156.69	10,837.46	5,801.34	96.80	10,573.13	5,537.01	94.44	145.69	72.85
10	11	157.69	10,740.70	5,704.58	96.68	10,478.73	5,442.61	94.32	147.35	73.68
10	10	158.69	10,644.06	5,607.94	96.57	10,384.45	5,348.32	94.21	149.02	74.51
10	9	159.69	10,547.54	5,511.42	96.46	10,290.28	5,254.16	94.11	150.68	75.34
10	8	160.69	10,451.13	5,415.01	96.35	10,196.22	5,160.10	94.00	152.33	76.17
10	7	161.69	10,354.83	5,318.71	96.24	10,102.27	5,066.15	93.89	153.99	77.00
10	6	162.69	10,258.63	5,222.51	96.14	10,008.42	4,972.29	93.80	155.65	77.83
10	5	163.69	10,162.22	5,126.10	96.86	9,914.36	4,878.24	94.50	157.30	78.65
10	4	164.69	10,065.72	5,029.60	96.74	9,820.21	4,784.09	94.38	158.96	79.48
10	3	165.69	9,969.34	4,933.22	96.61	9,726.19	4,690.06	94.25	160.62	80.31
10	2	166.69	9,873.10	4,836.98	96.48	9,632.29	4,596.17	94.13	162.28	81.14
10	1	167.69	9,776.97	4,740.85	96.34	9,538.51	4,502.38	93.99	163.93	81.96
10	0	168.69	9,680.98	4,644.86	96.21	9,444.86	4,408.73	93.86	165.58	82.79
9	11	169.69	9,585.11	4,548.99	96.08	9,351.33	4,315.20	93.74	167.24	83.62
9	10	170.69	9,489.37	4,453.25	95.95	9,257.92	4,221.80	93.61	168.90	84.45
9	9	171.69	9,393.76	4,357.64	95.77	9,164.64	4,128.52	93.43	170.56	85.28
9	8	172.69	9,298.32	4,262.20	95.57	9,071.53	4,035.41	93.24	172.21	86.10
9	7	173.69	9,203.04	4,166.92	95.37	8,978.58	3,942.45	93.04	173.86	86.93
9	6	174.69	9,107.93	4,071.81	95.17	8,885.79	3,849.66	92.85	175.51	87.75



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		Vessel	Cargo	Tons/inch	Vessel	Cargo	Tons/inch			
		Displacement Short Tons	Deadweight Short Tons	Short Tons	Displacement Short Tons	Deadweight Short Tons	Short Tons			
9	5	175.69	9,012.88	3,976.76	94.99	8,793.05	3,756.93	92.67	177.16	88.58
9	4	176.69	8,918.08	3,881.96	94.81	8,700.57	3,664.44	92.50	178.80	89.40
9	3	177.69	8,823.45	3,787.33	94.63	8,608.24	3,572.12	92.32	180.44	90.22
9	2	178.69	8,728.97	3,692.85	94.46	8,516.07	3,479.94	92.16	182.08	91.04
9	1	179.69	8,634.60	3,598.48	94.33	8,424.00	3,387.88	92.03	183.72	91.85
9	0	180.69	8,540.34	3,504.22	94.17	8,332.04	3,295.91	91.87	185.35	92.67
8	11	181.69	8,446.22	3,410.10	93.98	8,240.21	3,204.09	91.69	187.52	93.76
8	10	182.69	8,352.26	3,316.14	93.83	8,148.55	3,112.42	91.54	189.70	94.84
8	9	183.69	8,258.44	3,222.32	93.69	8,057.01	3,020.89	91.40	191.86	95.93
8	8	184.69	8,164.77	3,128.65	93.54	7,965.63	2,929.50	91.26	194.03	97.01
8	7	185.69	8,071.23	3,035.11	93.41	7,874.37	2,838.25	91.13	196.19	98.09
8	6	186.69	7,977.83	2,941.71	93.27	7,783.25	2,747.12	91.00	198.35	99.17
8	5	187.69	7,884.57	2,848.45	93.14	7,692.26	2,656.14	90.87	200.50	100.25
8	4	188.69	7,791.44	2,755.32	93.02	7,601.40	2,565.28	90.75	202.65	101.32
8	3	189.69	7,698.43	2,662.31	92.90	7,510.66	2,474.54	90.63	204.80	102.40
8	2	190.69	7,605.55	2,569.43	92.78	7,420.05	2,383.92	90.52	206.95	103.47
8	1	191.69	7,512.79	2,476.67	92.66	7,329.55	2,293.43	90.40	209.09	104.54
8	0	192.69	7,420.15	2,384.03	92.55	7,239.17	2,203.05	90.29	211.23	105.61
7	11	193.69	7,327.62	2,291.50	92.44	7,148.90	2,112.77	90.19	213.94	106.96
7	10	194.69	7,235.21	2,199.09	92.33	7,058.74	2,022.62	90.08	216.64	108.32
7	9	195.69	7,142.70	2,106.58	93.02	6,968.49	1,932.36	90.75	219.35	109.67
7	8	196.69	7,050.01	2,013.89	92.88	6,878.06	1,841.93	90.61	222.06	111.02
7	7	197.69	6,957.47	1,921.35	92.74	6,787.78	1,751.65	90.48	224.77	112.38
7	6	198.69	6,865.06	1,828.94	92.60	6,697.62	1,661.49	90.34	227.47	113.73
7	5	199.69	6,772.78	1,736.66	92.46	6,607.59	1,571.47	90.20	230.17	115.08
7	4	200.69	6,680.64	1,644.52	92.32	6,517.70	1,481.57	90.07	232.87	116.43
7	3	201.69	6,588.63	1,552.51	92.19	6,427.93	1,391.81	89.94	235.56	117.77
7	2	202.69	6,496.75	1,460.63	92.05	6,338.29	1,302.17	89.80	238.25	119.12
7	1	203.69	6,405.01	1,368.89	91.89	6,248.79	1,212.67	89.65	240.93	120.46
7	0	204.69	6,313.44	1,277.32	91.68	6,159.45	1,123.33	89.44	243.61	121.80
6	11	205.69	6,222.05	1,185.93	91.47	6,070.29	1,034.17	89.24	246.58	123.28
6	10	206.69	6,130.83	1,094.71	91.27	5,981.30	945.17	89.04	249.54	124.77
6	9	207.69	6,039.79	1,003.67	91.07	5,892.48	856.35	88.85	252.50	126.24
6	8	208.69	5,948.92	912.80	90.88	5,803.82	767.70	88.66	255.45	127.72
6	7	209.69	5,858.21	822.09	90.69	5,715.33	679.20	88.48	258.39	129.19
6	6	210.69	5,767.68	731.56	90.51	5,627.00	590.88	88.30	261.33	130.66



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 04/19/06

Draft Ft - Inches	Freeboard Inches	Vessel in Sea Water			Vessel in Fresh Water			Max. Cargo Height Ft abv. Dk. Note 1	Max. Cargo VCG Ft abv. dk Note 1	
		Vessel	Cargo	Tons/inch Short Tons	Vessel	Cargo	Tons/inch Short Tons			
		Displacement Short Tons	Deadweight Short Tons		Displacement Short Tons	Deadweight Short Tons				
6	5	211.69	5,677.20	641.08	90.34	5,538.73	502.61	88.14	264.27	132.13
6	4	212.69	5,586.98	550.86	90.16	5,450.71	414.59	87.96	267.20	133.60
6	3	213.69	5,496.93	460.81	90.00	5,362.86	326.73	87.80	270.13	135.06
6	2	214.69	5,407.04	370.92	89.83	5,275.16	239.04	87.64	273.04	136.52
6	1	215.69	5,317.28	281.16	89.69	5,187.59	151.47	87.50	275.96	137.97
6	0	216.69	5,227.66	191.54	89.53	5,100.16	64.03	87.35	278.87	139.43
5	11	217.69	5,138.20	102.08	89.38	5,012.88	-23.25	87.20	278.87	139.43
5	10	218.69	5,048.89	12.77	89.23	4,925.75	-110.38	87.05	278.87	139.43
5	9	219.69	4,959.72	-76.40	89.09	4,838.75	-197.37	86.92	278.87	139.43
5	8	220.69	4,870.70	-165.42	88.95	4,751.90	-284.22	86.78	278.87	139.43
5	7	221.69	4,781.81	-254.31	88.81	4,665.18	-370.94	86.64	278.87	139.43
5	6	222.69	4,693.07	-343.05	88.68	4,578.60	-457.52	86.52	278.87	139.43
5	5	223.69	4,604.45	-431.67	88.55	4,492.15	-543.98	86.39	278.87	139.43
5	4	224.69	4,515.97	-520.15	88.42	4,405.82	-630.30	86.26	278.87	139.43
5	3	225.69	4,427.62	-608.50	88.28	4,319.63	-716.50	86.13	278.87	139.43
5	2	226.69	4,339.41	-696.71	88.14	4,233.57	-802.55	85.99	278.87	139.43
5	1	227.69	4,251.06	-785.06	88.77	4,147.38	-888.75	86.60	278.87	139.43
5	0	228.69	4,162.66	-873.46	88.61	4,061.13	-974.99	86.45	278.87	139.43
4	11	229.69	4,074.41	-961.71	88.45	3,975.03	-1,061.09	86.29	278.87	139.43
4	10	230.69	3,986.32	-1,049.80	88.28	3,889.09	-1,147.03	86.13	278.87	139.43
4	9	231.69	3,898.38	-1,137.74	88.11	3,803.30	-1,232.83	85.96	278.87	139.43

