



BARGE "HFL 429"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 01-0/8	01-0/8	- 01-3/8	01-3/8	- 01-6/8	01-6/8	- 02-0/8	02-0/8
3 STBD	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 01-0/8	01-0/8	- 01-3/8	01-3/8	- 01-6/8	01-6/8	- 02-0/8	02-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"
AFT DRAFT = 4'-00"
DIFF. = 3'-00" (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 3 PORT IS 01-0/8"
FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 4'-01"

LENGTH BETWEEN DRAFT MARKS: 241'-03"

December 10, 2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



DAKGE NFL 429

1 PUKI

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	854	0	11,834	0	24,521	0	38,610	0	53,487	0	68,376	0	83,264	0	98,152	0	113,041	0	127,929
1/4	1,022	1/4	12,084	1/4	24,802	1/4	38,919	1/4	53,798	1/4	68,686	1/4	83,574	1/4	98,463	1/4	113,351	1/4	128,239
1/2	1,190	1/2	12,334	1/2	25,083	1/2	39,228	1/2	54,108	1/2	68,996	1/2	83,884	1/2	98,773	1/2	113,661	1/2	128,549
3/4	1,358	3/4	12,585	3/4	25,337	3/4	39,479	3/4	54,361	3/4	69,306	3/4	84,195	3/4	99,083	3/4	113,971	3/4	128,860
1	1,526	1	12,835	1	25,644	1	39,845	1	54,728	1	69,616	1	84,505	1	99,393	1	114,281	1	129,170
1/4	1,744	1/4	13,088	1/4	25,928	1/4	40,154	1/4	55,038	1/4	69,927	1/4	84,815	1/4	99,703	1/4	114,592	1/4	129,480
1/2	1,962	1/2	13,341	1/2	26,211	1/2	40,463	1/2	55,348	1/2	70,237	1/2	85,125	1/2	100,013	1/2	114,902	1/2	129,790
3/4	2,181	3/4	13,594	3/4	26,495	3/4	40,772	3/4	55,659	3/4	70,547	3/4	85,435	3/4	100,324	3/4	115,212	3/4	130,100
2	2,399	2	13,846	2	26,778	2	41,080	2	55,969	2	70,857	2	85,745	2	100,634	2	115,522	2	130,410
1/4	2,622	1/4	14,102	1/4	27,062	1/4	41,391	1/4	56,279	1/4	71,167	1/4	86,056	1/4	100,944	1/4	115,832	1/4	130,721
1/2	2,844	1/2	14,357	1/2	27,347	1/2	41,701	1/2	56,589	1/2	71,477	1/2	86,366	1/2	101,254	1/2	116,142	1/2	131,031
3/4	3,067	3/4	14,613	3/4	27,631	3/4	42,011	3/4	56,899	3/4	71,788	3/4	86,676	3/4	101,564	3/4	116,453	3/4	131,341
3	3,289	3	14,868	3	27,915	3	42,321	3	57,210	3	72,098	3	86,986	3	101,874	3	116,763	3	131,651
1/4	3,516	1/4	15,126	1/4	28,202	1/4	42,631	1/4	57,520	1/4	72,408	1/4	87,296	1/4	102,185	1/4	117,073	1/4	131,961
1/2	3,742	1/2	15,384	1/2	28,489	1/2	42,942	1/2	57,830	1/2	72,718	1/2	87,607	1/2	102,495	1/2	117,383	1/2	132,271
3/4	3,968	3/4	15,642	3/4	28,776	3/4	43,252	3/4	58,140	3/4	73,028	3/4	87,917	3/4	102,805	3/4	117,693	3/4	132,582
4	4,194	4	15,900	4	29,062	4	43,562	4	58,450	4	73,339	4	88,227	4	103,115	4	118,004	4	132,892
1/4	4,423	1/4	16,160	1/4	29,352	1/4	43,872	1/4	58,760	1/4	73,649	1/4	88,537	1/4	103,425	1/4	118,314	1/4	133,202
1/2	4,653	1/2	16,421	1/2	29,641	1/2	44,182	1/2	59,071	1/2	73,959	1/2	88,847	1/2	103,736	1/2	118,624	1/2	133,512
3/4	4,882	3/4	16,681	3/4	29,931	3/4	44,492	3/4	59,381	3/4	74,269	3/4	89,157	3/4	104,046	3/4	118,934	3/4	133,822
5	5,111	5	16,942	5	30,220	5	44,803	5	59,691	5	74,579	5	89,468	5	104,356	5	119,244	5	134,133
1/4	5,344	1/4	17,205	1/4	30,512	1/4	45,113	1/4	60,001	1/4	74,889	1/4	89,778	1/4	104,666	1/4	119,554	1/4	134,443
1/2	5,576	1/2	17,468	1/2	30,804	1/2	45,423	1/2	60,311	1/2	75,200	1/2	90,088	1/2	104,976	1/2	119,865	1/2	134,753
3/4	5,808	3/4	17,731	3/4	31,096	3/4	45,733	3/4	60,621	3/4	75,510	3/4	90,398	3/4	105,286	3/4	120,175	3/4	135,063
6	6,041	6	17,994	6	31,388	6	46,043	6	60,932	6	75,820	6	90,708	6	105,597	6	120,485	6	135,373
1/4	6,276	1/4	18,259	1/4	31,682	1/4	46,353	1/4	61,242	1/4	76,130	1/4	91,018	1/4	105,907	1/4	120,795	1/4	135,683
1/2	6,511	1/2	18,525	1/2	31,977	1/2	46,664	1/2	61,552	1/2	76,440	1/2	91,329	1/2	106,217	1/2	121,105	1/2	135,994
3/4	6,746	3/4	18,791	3/4	32,271	3/4	46,974	3/4	61,862	3/4	76,750	3/4	91,639	3/4	106,527	3/4	121,415	3/4	136,304
7	6,981	7	19,056	7	32,565	7	47,284	7	62,172	7	77,061	7	91,949	7	106,837	7	121,726	7	136,614
1/4	7,218	1/4	19,324	1/4	32,862	1/4	47,594	1/4	62,482	1/4	77,371	1/4	92,259	1/4	107,147	1/4	122,036	1/4	136,924
1/2	7,456	1/2	19,593	1/2	33,159	1/2	47,904	1/2	62,793	1/2	77,681	1/2	92,569	1/2	107,458	1/2	122,346	1/2	137,234
3/4	7,693	3/4	19,861	3/4	33,456	3/4	48,214	3/4	63,103	3/4	77,991	3/4	92,879	3/4	107,768	3/4	122,656	3/4	137,544
8	7,931	8	20,129	8	33,754	8	48,525	8	63,413	8	78,301	8	93,190	8	108,078	8	122,966	8	137,855
1/4	8,171	1/4	20,399	1/4	34,053	1/4	48,835	1/4	63,723	1/4	78,611	1/4	93,500	1/4	108,388	1/4	123,276	1/4	138,165
1/2	8,411	1/2	20,670	1/2	34,353	1/2	49,145	1/2	64,033	1/2	78,922	1/2	93,810	1/2	108,698	1/2	123,587	1/2	138,475
3/4	8,651	3/4	20,941	3/4	34,652	3/4	49,455	3/4	64,343	3/4	79,232	3/4	94,120	3/4	109,008	3/4	123,897	3/4	138,785
9	8,891	9	21,212	9	34,952	9	49,765	9	64,654	9	79,542	9	94,430	9	109,319	9	124,207	9	139,095
1/4	9,134	1/4	21,485	1/4	35,254	1/4	50,076	1/4	64,964	1/4	79,852	1/4	94,741	1/4	109,629	1/4	124,517	1/4	139,405
1/2	9,377	1/2	21,758	1/2	35,556	1/2	50,386	1/2	65,274	1/2	80,162	1/2	95,051	1/2	109,939	1/2	124,827	1/2	139,716
3/4	9,619	3/4	22,031	3/4	35,858	3/4	50,696	3/4	65,584	3/4	80,473	3/4	95,361	3/4	110,249	3/4	125,138	3/4	140,026
10	9,862	10	22,304	10	36,160	10	51,006	10	65,894	10	80,783	10	95,671	10	110,559	10	125,448	10	140,336
1/4	10,107	1/4	22,580	1/4	36,465	1/4	51,316	1/4	66,205	1/4	81,093	1/4	95,981	1/4	110,870	1/4	125,758	1/4	140,646
1/2	10,352	1/2	22,856	1/2	36,770	1/2	51,626	1/2	66,515	1/2	81,403	1/2	96,291	1/2	111,180	1/2	126,068	1/2	140,956
3/4	10,598	3/4	23,132	3/4	37,075	3/4	51,937	3/4	66,825	3/4	81,713	3/4	96,602	3/4	111,490	3/4	126,378	3/4	141,267
11	10,843	11	23,408	11	37,380	11	52,247	11	67,135	11	82,023	11	96,912	11	111,800	11	126,688	11	141,577
1/4	11,090	1/4	23,686	1/4	37,688	1/4	52,557	1/4	67,445	1/4	82,334	1/4	97,222	1/4	112,110	1/4	126,999	1/4	141,887
1/2	11,338	1/2	23,964	1/2	37,995	1/2	52,867	1/2	67,755	1/2	82,644	1/2	97,532	1/2	112,420	1/2	127,309	1/2	142,197
3/4	11,586	3/4	24,243	3/4	38,303	3/4	53,177	3/4	68,066	3/4	82,954	3/4	97,842	3/4	112,731	3/4	127,619	3/4	142,507

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



DAKGE NFL 423

1 PUKI
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	142,817	0	172,572	0	202,239	0	0	0	0	0
1/4	143,128	158,016	172,881	187,726	202,504	1/4	1/4	1/4	1/4	1/4
1/2	143,438	158,326	173,191	188,035	202,769	1/2	1/2	1/2	1/2	1/2
3/4	143,748	158,636	173,500	188,344	203,034	3/4	3/4	3/4	3/4	3/4
1	144,058	158,946	173,809	188,654	203,299	1	1	1	1	1
1/4	144,368	159,257	174,118	188,963	203,519	1/4	1/4	1/4	1/4	1/4
1/2	144,678	159,567	174,428	189,272	203,740	1/2	1/2	1/2	1/2	1/2
3/4	144,989	159,877	174,737	189,581	203,961	3/4	3/4	3/4	3/4	3/4
2	145,299	2	175,046	189,891	204,181	2	2	2	2	2
1/4	145,609	160,497	175,355	190,200	204,358	1/4	1/4	1/4	1/4	1/4
1/2	145,919	160,807	175,665	190,509	204,534	1/2	1/2	1/2	1/2	1/2
3/4	146,229	161,118	175,974	190,818	204,710	3/4	3/4	3/4	3/4	3/4
3	146,539	3	176,283	191,128	204,887	3	3	3	3	3
1/4	146,850	161,738	176,592	191,437	205,063	1/4	1/4	1/4	1/4	1/4
1/2	147,160	162,048	176,902	191,746	205,239	1/2	1/2	1/2	1/2	1/2
3/4	147,470	162,358	177,211	192,055	205,415	3/4	3/4	3/4	3/4	3/4
4	147,780	4	177,520	192,365	205,591	4	4	4	4	4
1/4	148,090	162,979	177,830	192,674	205,767	1/4	1/4	1/4	1/4	1/4
1/2	148,401	163,289	178,139	192,983	205,943	1/2	1/2	1/2	1/2	1/2
3/4	148,711	163,599	178,448	193,292	206,119	3/4	3/4	3/4	3/4	3/4
5	149,021	5	178,757	193,602	206,295	5	5	5	5	5
1/4	149,331	164,219	179,067	193,911	206,471	1/4	1/4	1/4	1/4	1/4
1/2	149,641	164,530	179,376	194,220	206,647	1/2	1/2	1/2	1/2	1/2
3/4	149,951	164,840	179,685	194,530	206,823	3/4	3/4	3/4	3/4	3/4
6	150,262	6	179,994	194,839	206,999	6	6	6	6	6
1/4	150,572	165,459	180,304	195,148	207,175	1/4	1/4	1/4	1/4	1/4
1/2	150,882	165,768	180,613	195,457	207,351	1/2	1/2	1/2	1/2	1/2
3/4	151,192	166,078	180,922	195,767	207,527	3/4	3/4	3/4	3/4	3/4
7	151,502	7	181,231	196,076	207,703	7	7	7	7	7
1/4	151,812	166,696	181,541	196,385	207,879	1/4	1/4	1/4	1/4	1/4
1/2	152,123	167,005	181,850	196,694	208,055	1/2	1/2	1/2	1/2	1/2
3/4	152,433	167,315	182,159	197,004	208,231	3/4	3/4	3/4	3/4	3/4
8	152,743	8	182,468	197,313	208,407	8	8	8	8	8
1/4	153,053	167,933	182,778	197,622	208,583	1/4	1/4	1/4	1/4	1/4
1/2	153,363	168,242	183,087	197,931	208,759	1/2	1/2	1/2	1/2	1/2
3/4	153,673	168,552	183,396	198,241	208,935	3/4	3/4	3/4	3/4	3/4
9	153,984	9	183,705	198,550	209,111	9	9	9	9	9
1/4	154,294	169,170	184,015	198,859	209,287	1/4	1/4	1/4	1/4	1/4
1/2	154,604	169,480	184,324	199,168	209,463	1/2	1/2	1/2	1/2	1/2
3/4	154,914	169,789	184,633	199,478	209,639	3/4	3/4	3/4	3/4	3/4
10	155,224	10	184,942	199,787	209,815	10	10	10	10	10
1/4	155,535	170,407	185,252	200,096	210,000	1/4	1/4	1/4	1/4	1/4
1/2	155,845	170,717	185,561	200,405	210,176	1/2	1/2	1/2	1/2	1/2
3/4	156,155	171,026	185,870	200,715	210,352	3/4	3/4	3/4	3/4	3/4
11	156,465	11	186,180	201,024	210,528	11	11	11	11	11
1/4	156,775	171,644	186,489	201,328	210,704	1/4	1/4	1/4	1/4	1/4
1/2	157,085	171,954	186,798	201,637	210,880	1/2	1/2	1/2	1/2	1/2
3/4	157,396	172,263	187,107	201,946	211,056	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
CALCULATED: 12/11/2014 CL
PRINTED: 12/12/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77568
<http://www.pmacorp.net>

The Flame



BAKAGE NFL 429

1 SIBU

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	854	0	11,836	0	24,525	0	38,671	0	53,561	0	68,451	0	83,341	0	98,232	0	113,122	0	128,012
1/4	1,022	1/4	12,086	1/4	24,805	1/4	38,981	1/4	53,871	1/4	68,761	1/4	83,652	1/4	98,542	1/4	113,432	1/4	128,322
1/2	1,190	1/2	12,336	1/2	25,086	1/2	39,291	1/2	54,182	1/2	69,072	1/2	83,962	1/2	98,852	1/2	113,742	1/2	128,632
3/4	1,358	3/4	12,586	3/4	25,367	3/4	39,602	3/4	54,492	3/4	69,382	3/4	84,272	3/4	99,162	3/4	114,052	3/4	128,942
1	1,526	1	12,837	1	25,648	1	39,912	1	54,802	1	69,692	1	84,582	1	99,472	1	114,363	1	129,253
1/4	1,744	1/4	13,090	1/4	25,932	1/4	40,222	1/4	55,112	1/4	70,002	1/4	84,892	1/4	99,783	1/4	114,673	1/4	129,563
1/2	1,963	1/2	13,343	1/2	26,215	1/2	40,522	1/2	55,422	1/2	70,313	1/2	85,203	1/2	100,093	1/2	114,983	1/2	129,873
3/4	2,181	3/4	13,596	3/4	26,499	3/4	40,842	3/4	55,733	3/4	70,623	3/4	85,513	3/4	100,403	3/4	115,293	3/4	130,183
2	2,399	2	13,849	2	26,782	2	41,153	2	56,043	2	70,933	2	85,823	2	100,713	2	115,603	2	130,494
1/4	2,622	1/4	14,104	1/4	27,068	1/4	41,463	1/4	56,353	1/4	71,243	1/4	86,133	1/4	101,023	1/4	115,914	1/4	130,804
1/2	2,845	1/2	14,359	1/2	27,353	1/2	41,773	1/2	56,663	1/2	71,553	1/2	86,443	1/2	101,334	1/2	116,224	1/2	131,114
3/4	3,067	3/4	14,615	3/4	27,639	3/4	42,083	3/4	56,973	3/4	71,864	3/4	86,754	3/4	101,644	3/4	116,534	3/4	131,424
3	3,290	3	14,870	3	27,925	3	42,394	3	57,284	3	72,174	3	87,064	3	101,954	3	116,844	3	131,734
1/4	3,516	1/4	15,128	1/4	28,213	1/4	42,704	1/4	57,594	1/4	72,484	1/4	87,374	1/4	102,264	1/4	117,154	1/4	132,045
1/2	3,742	1/2	15,386	1/2	28,501	1/2	43,014	1/2	57,904	1/2	72,794	1/2	87,684	1/2	102,575	1/2	117,465	1/2	132,355
3/4	3,969	3/4	15,644	3/4	28,790	3/4	43,324	3/4	58,214	3/4	73,104	3/4	87,995	3/4	102,885	3/4	117,775	3/4	132,665
4	4,195	4	15,902	4	29,078	4	43,634	4	58,525	4	73,415	4	88,305	4	103,195	4	118,085	4	132,975
1/4	4,424	1/4	16,163	1/4	29,369	1/4	43,945	1/4	58,835	1/4	73,725	1/4	88,615	1/4	103,505	1/4	118,395	1/4	133,285
1/2	4,653	1/2	16,423	1/2	29,659	1/2	44,255	1/2	59,145	1/2	74,035	1/2	88,925	1/2	103,815	1/2	118,706	1/2	133,596
3/4	4,883	3/4	16,684	3/4	29,950	3/4	44,565	3/4	59,455	3/4	74,345	3/4	89,235	3/4	104,126	3/4	119,016	3/4	133,906
5	5,112	5	16,944	5	30,241	5	44,875	5	59,765	5	74,656	5	89,546	5	104,436	5	119,326	5	134,216
1/4	5,345	1/4	17,207	1/4	30,534	1/4	45,185	1/4	60,076	1/4	74,966	1/4	89,856	1/4	104,746	1/4	119,636	1/4	134,526
1/2	5,577	1/2	17,471	1/2	30,828	1/2	45,496	1/2	60,386	1/2	75,276	1/2	90,166	1/2	105,056	1/2	119,946	1/2	134,837
3/4	5,809	3/4	17,734	3/4	31,121	3/4	45,806	3/4	60,696	3/4	75,586	3/4	90,476	3/4	105,366	3/4	120,257	3/4	135,147
6	6,042	6	17,997	6	31,414	6	46,116	6	61,006	6	75,896	6	90,787	6	105,677	6	120,567	6	135,457
1/4	6,277	1/4	18,262	1/4	31,710	1/4	46,426	1/4	61,316	1/4	76,207	1/4	91,097	1/4	105,987	1/4	120,877	1/4	135,767
1/2	6,512	1/2	18,528	1/2	32,006	1/2	46,736	1/2	61,627	1/2	76,517	1/2	91,407	1/2	106,297	1/2	121,187	1/2	136,077
3/4	6,747	3/4	18,794	3/4	32,302	3/4	47,047	3/4	61,937	3/4	76,827	3/4	91,717	3/4	106,607	3/4	121,497	3/4	136,388
7	6,982	7	19,059	7	32,598	7	47,357	7	62,247	7	77,137	7	92,027	7	106,918	7	121,808	7	136,698
1/4	7,219	1/4	19,327	1/4	32,896	1/4	47,667	1/4	62,557	1/4	77,447	1/4	92,338	1/4	107,228	1/4	122,118	1/4	137,008
1/2	7,457	1/2	19,596	1/2	33,195	1/2	47,977	1/2	62,867	1/2	77,758	1/2	92,648	1/2	107,538	1/2	122,428	1/2	137,318
3/4	7,694	3/4	19,864	3/4	33,493	3/4	48,288	3/4	63,178	3/4	78,068	3/4	92,958	3/4	107,848	3/4	122,738	3/4	137,628
8	7,932	8	20,132	8	33,792	8	48,598	8	63,488	8	78,378	8	93,268	8	108,158	8	123,049	8	137,939
1/4	8,172	1/4	20,403	1/4	34,093	1/4	48,908	1/4	63,798	1/4	78,688	1/4	93,578	1/4	108,469	1/4	123,359	1/4	138,249
1/2	8,412	1/2	20,673	1/2	34,394	1/2	49,218	1/2	64,108	1/2	78,998	1/2	93,889	1/2	108,779	1/2	123,669	1/2	138,559
3/4	8,653	3/4	20,944	3/4	34,695	3/4	49,528	3/4	64,419	3/4	79,309	3/4	94,199	3/4	109,089	3/4	123,979	3/4	138,869
9	8,893	9	21,215	9	34,996	9	49,839	9	64,729	9	79,619	9	94,509	9	109,399	9	124,289	9	139,180
1/4	9,135	1/4	21,488	1/4	35,299	1/4	50,149	1/4	65,039	1/4	79,929	1/4	94,819	1/4	109,709	1/4	124,600	1/4	139,490
1/2	9,378	1/2	21,761	1/2	35,603	1/2	50,459	1/2	65,349	1/2	80,239	1/2	95,129	1/2	110,020	1/2	124,910	1/2	139,800
3/4	9,621	3/4	22,035	3/4	35,906	3/4	50,769	3/4	65,659	3/4	80,550	3/4	95,440	3/4	110,330	3/4	125,220	3/4	140,110
10	9,863	10	22,308	10	36,210	10	51,079	10	65,970	10	80,860	10	95,750	10	110,640	10	125,530	10	140,420
1/4	10,109	1/4	22,584	1/4	36,516	1/4	51,390	1/4	66,280	1/4	81,170	1/4	96,060	1/4	110,950	1/4	125,840	1/4	140,731
1/2	10,354	1/2	22,859	1/2	36,822	1/2	51,700	1/2	66,590	1/2	81,480	1/2	96,370	1/2	111,260	1/2	126,151	1/2	141,041
3/4	10,599	3/4	23,135	3/4	37,129	3/4	52,010	3/4	66,900	3/4	81,790	3/4	96,681	3/4	111,571	3/4	126,461	3/4	141,351
11	10,844	11	23,411	11	37,435	11	52,320	11	67,210	11	82,101	11	96,991	11	111,881	11	126,771	11	141,661
1/4	11,092	1/4	23,689	1/4	37,744	1/4	52,630	1/4	67,521	1/4	82,411	1/4	97,301	1/4	112,191	1/4	127,081	1/4	141,971
1/2	11,340	1/2	23,968	1/2	38,053	1/2	52,941	1/2	67,831	1/2	82,721	1/2	97,611	1/2	112,501	1/2	127,391	1/2	142,282
3/4	11,588	3/4	24,246	3/4	38,362	3/4	53,251	3/4	68,141	3/4	83,031	3/4	97,921	3/4	112,812	3/4	127,702	3/4	142,592

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPIMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE ONLY APPLIES TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>

Signature



DAKGE NFL 429

1 51BU

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	142,902	0	157,792	0	172,660	0	187,507	0	0	0
1/4	143,212	1/4	158,102	1/4	172,970	1/4	187,816	1/4	1/4	1/4
1/2	143,522	1/2	158,413	1/2	173,279	1/2	188,125	1/2	1/2	1/2
3/4	143,833	3/4	158,723	3/4	173,588	3/4	188,435	3/4	3/4	3/4
1	144,143	1	159,033	1	173,898	1	188,744	1	1	1
1/4	144,453	1/4	159,343	1/4	174,207	1/4	189,053	1/4	1/4	1/4
1/2	144,763	1/2	159,653	1/2	174,516	1/2	189,362	1/2	1/2	1/2
3/4	145,074	3/4	159,964	3/4	174,826	3/4	189,672	3/4	3/4	3/4
2	145,384	2	160,274	2	175,135	2	189,981	2	2	2
1/4	145,694	1/4	160,584	1/4	175,444	1/4	190,290	1/4	1/4	1/4
1/2	146,004	1/2	160,894	1/2	175,753	1/2	190,600	1/2	1/2	1/2
3/4	146,314	3/4	161,205	3/4	176,063	3/4	190,909	3/4	3/4	3/4
3	146,625	3	161,515	3	176,372	3	191,218	3	3	3
1/4	146,935	1/4	161,825	1/4	176,681	1/4	191,528	1/4	1/4	1/4
1/2	147,245	1/2	162,135	1/2	176,991	1/2	191,837	1/2	1/2	1/2
3/4	147,555	3/4	162,445	3/4	177,300	3/4	192,146	3/4	3/4	3/4
4	147,865	4	162,756	4	177,609	4	192,455	4	4	4
1/4	148,176	1/4	163,066	1/4	177,918	1/4	192,765	1/4	1/4	1/4
1/2	148,486	1/2	163,376	1/2	178,228	1/2	193,074	1/2	1/2	1/2
3/4	148,796	3/4	163,686	3/4	178,537	3/4	193,383	3/4	3/4	3/4
5	149,106	5	163,996	5	178,846	5	193,693	5	5	5
1/4	149,416	1/4	164,307	1/4	179,156	1/4	194,002	1/4	1/4	1/4
1/2	149,727	1/2	164,617	1/2	179,465	1/2	194,311	1/2	1/2	1/2
3/4	150,037	3/4	164,927	3/4	179,774	3/4	194,621	3/4	3/4	3/4
6	150,347	6	165,237	6	180,084	6	194,930	6	6	6
1/4	150,657	1/4	165,547	1/4	180,393	1/4	195,239	1/4	1/4	1/4
1/2	150,968	1/2	165,856	1/2	180,702	1/2	195,548	1/2	1/2	1/2
3/4	151,278	3/4	166,165	3/4	181,011	3/4	195,858	3/4	3/4	3/4
7	151,588	7	166,474	7	181,321	7	196,167	7	7	7
1/4	151,898	1/4	166,784	1/4	181,630	1/4	196,476	1/4	1/4	1/4
1/2	152,208	1/2	167,093	1/2	181,939	1/2	196,786	1/2	1/2	1/2
3/4	152,519	3/4	167,402	3/4	182,249	3/4	197,095	3/4	3/4	3/4
8	152,829	8	167,712	8	182,558	8	197,404	8	8	8
1/4	153,139	1/4	168,021	1/4	182,867	1/4	197,714	1/4	1/4	1/4
1/2	153,449	1/2	168,330	1/2	183,177	1/2	198,023	1/2	1/2	1/2
3/4	153,759	3/4	168,640	3/4	183,486	3/4	198,332	3/4	3/4	3/4
9	154,070	9	168,949	9	183,795	9	198,641	9	9	9
1/4	154,380	1/4	169,258	1/4	184,104	1/4	198,951	1/4	1/4	1/4
1/2	154,690	1/2	169,567	1/2	184,414	1/2	199,260	1/2	1/2	1/2
3/4	155,000	3/4	169,877	3/4	184,723	3/4	199,569	3/4	3/4	3/4
10	155,311	10	170,186	10	185,032	10	199,879	10	10	10
1/4	155,621	1/4	170,495	1/4	185,342	1/4	200,188	1/4	1/4	1/4
1/2	155,931	1/2	170,805	1/2	185,651	1/2	200,497	1/2	1/2	1/2
3/4	156,241	3/4	171,114	3/4	185,960	3/4	200,807	3/4	3/4	3/4
11	156,551	11	171,423	11	186,270	11	201,116	11	11	11
1/4	156,862	1/4	171,733	1/4	186,579	1/4	201,420	1/4	1/4	1/4
1/2	157,172	1/2	172,042	1/2	186,888	1/2	201,723	1/2	1/2	1/2
3/4	157,482	3/4	172,351	3/4	187,197	3/4	202,027	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
CALCULATED: 12/11/2014 CL
PRINTED: 12/12/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>

The Flame



DAKOTA NFL 429

2 PUKI

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I
0	850	0	15,423	0	29,934	0	44,455	0	59,269	0	74,082	0	88,895	0	103,708	0	118,522	0	133,335
1/4	1,107	1/4	15,731	1/4	30,230	1/4	44,764	1/4	59,577	1/4	74,390	1/4	89,204	1/4	104,017	1/4	118,830	1/4	133,643
1/2	1,364	1/2	16,040	1/2	30,526	1/2	45,073	1/2	59,886	1/2	74,699	1/2	89,512	1/2	104,326	1/2	119,139	1/2	133,952
3/4	1,621	3/4	16,348	3/4	30,822	3/4	45,381	3/4	60,194	3/4	75,008	3/4	89,821	3/4	104,634	3/4	119,447	3/4	134,261
1	1,878	1	16,657	1	31,118	1	45,690	1	60,503	1	75,316	1	90,130	1	104,943	1	119,756	1	134,569
1/4	2,183	1/4	16,966	1/4	31,414	1/4	45,998	1/4	60,812	1/4	75,625	1/4	90,438	1/4	105,251	1/4	120,065	1/4	134,878
1/2	2,487	1/2	17,274	1/2	31,710	1/2	46,307	1/2	61,120	1/2	75,934	1/2	90,747	1/2	105,560	1/2	120,373	1/2	135,186
3/4	2,791	3/4	17,583	3/4	32,006	3/4	46,616	3/4	61,429	3/4	76,242	3/4	91,055	3/4	105,869	3/4	120,682	3/4	135,495
2	3,096	2	17,891	2	32,302	2	46,924	2	61,738	2	76,551	2	91,364	2	106,177	2	120,990	2	135,804
1/4	3,402	1/4	18,200	1/4	32,599	1/4	47,233	1/4	62,046	1/4	76,859	1/4	91,673	1/4	106,486	1/4	121,299	1/4	136,112
1/2	3,708	1/2	18,509	1/2	32,895	1/2	47,542	1/2	62,355	1/2	77,168	1/2	91,981	1/2	106,794	1/2	121,608	1/2	136,421
3/4	4,015	3/4	18,817	3/4	33,191	3/4	47,850	3/4	62,663	3/4	77,477	3/4	92,290	3/4	107,103	3/4	121,916	3/4	136,730
3	4,321	3	19,126	3	33,488	3	48,159	3	62,972	3	77,785	3	92,598	3	107,412	3	122,225	3	137,038
1/4	4,628	1/4	19,434	1/4	33,784	1/4	48,467	1/4	63,281	1/4	78,094	1/4	92,907	1/4	107,720	1/4	122,534	1/4	137,347
1/2	4,936	1/2	19,743	1/2	34,081	1/2	48,776	1/2	63,589	1/2	78,402	1/2	93,216	1/2	108,029	1/2	122,842	1/2	137,655
3/4	5,243	3/4	20,052	3/4	34,377	3/4	49,085	3/4	63,898	3/4	78,711	3/4	93,524	3/4	108,338	3/4	123,151	3/4	137,964
4	5,551	4	20,360	4	34,673	4	49,393	4	64,206	4	79,020	4	93,833	4	108,646	4	123,459	4	138,273
1/4	5,859	1/4	20,669	1/4	34,970	1/4	49,702	1/4	64,515	1/4	79,328	1/4	94,141	1/4	108,955	1/4	123,768	1/4	138,581
1/2	6,167	1/2	20,977	1/2	35,267	1/2	50,010	1/2	64,824	1/2	79,637	1/2	94,450	1/2	109,263	1/2	124,077	1/2	138,890
3/4	6,475	3/4	21,286	3/4	35,564	3/4	50,319	3/4	65,132	3/4	79,945	3/4	94,759	3/4	109,572	3/4	124,385	3/4	139,198
5	6,783	5	21,595	5	35,861	5	50,628	5	65,441	5	80,254	5	95,067	5	109,881	5	124,694	5	139,507
1/4	7,091	1/4	21,903	1/4	36,158	1/4	50,936	1/4	65,749	1/4	80,563	1/4	95,376	1/4	110,189	1/4	125,002	1/4	139,816
1/2	7,400	1/2	22,212	1/2	36,455	1/2	51,245	1/2	66,058	1/2	80,871	1/2	95,685	1/2	110,498	1/2	125,311	1/2	140,124
3/4	7,708	3/4	22,520	3/4	36,752	3/4	51,553	3/4	66,367	3/4	81,180	3/4	95,993	3/4	110,806	3/4	125,620	3/4	140,433
6	8,016	6	22,829	6	37,049	6	51,862	6	66,675	6	81,489	6	96,302	6	111,115	6	125,928	6	140,741
1/4	8,325	1/4	23,125	1/4	37,357	1/4	52,171	1/4	66,984	1/4	81,797	1/4	96,610	1/4	111,424	1/4	126,237	1/4	141,050
1/2	8,634	1/2	23,421	1/2	37,666	1/2	52,479	1/2	67,292	1/2	82,106	1/2	96,919	1/2	111,732	1/2	126,545	1/2	141,359
3/4	8,942	3/4	23,717	3/4	37,975	3/4	52,788	3/4	67,601	3/4	82,414	3/4	97,228	3/4	112,041	3/4	126,854	3/4	141,667
7	9,251	7	24,013	7	38,283	7	53,096	7	67,910	7	82,723	7	97,536	7	112,349	7	127,163	7	141,976
1/4	9,559	1/4	24,309	1/4	38,592	1/4	53,405	1/4	68,218	1/4	83,032	1/4	97,845	1/4	112,658	1/4	127,471	1/4	142,285
1/2	9,868	1/2	24,605	1/2	38,900	1/2	53,714	1/2	68,527	1/2	83,340	1/2	98,153	1/2	112,967	1/2	127,780	1/2	142,593
3/4	10,176	3/4	24,901	3/4	39,209	3/4	54,022	3/4	68,836	3/4	83,649	3/4	98,462	3/4	113,275	3/4	128,088	3/4	142,902
8	10,485	8	25,197	8	39,518	8	54,331	8	69,144	8	83,957	8	98,771	8	113,584	8	128,397	8	143,210
1/4	10,794	1/4	25,493	1/4	39,826	1/4	54,640	1/4	69,453	1/4	84,266	1/4	99,079	1/4	113,892	1/4	128,706	1/4	143,519
1/2	11,102	1/2	25,790	1/2	40,135	1/2	54,948	1/2	69,761	1/2	84,575	1/2	99,388	1/2	114,201	1/2	129,014	1/2	143,828
3/4	11,411	3/4	26,086	3/4	40,443	3/4	55,257	3/4	70,070	3/4	84,883	3/4	99,696	3/4	114,510	3/4	129,323	3/4	144,136
9	11,719	9	26,382	9	40,752	9	55,565	9	70,379	9	85,192	9	100,005	9	114,818	9	129,632	9	144,445
1/4	12,028	1/4	26,678	1/4	41,061	1/4	55,874	1/4	70,687	1/4	85,500	1/4	100,314	1/4	115,127	1/4	129,940	1/4	144,753
1/2	12,337	1/2	26,974	1/2	41,369	1/2	56,183	1/2	70,996	1/2	85,809	1/2	100,622	1/2	115,436	1/2	130,249	1/2	145,062
3/4	12,645	3/4	27,270	3/4	41,678	3/4	56,491	3/4	71,304	3/4	86,118	3/4	100,931	3/4	115,744	3/4	130,557	3/4	145,371
10	12,954	10	27,566	10	41,987	10	56,800	10	71,613	10	86,426	10	101,239	10	116,053	10	130,866	10	145,679
1/4	13,262	1/4	27,862	1/4	42,295	1/4	57,108	1/4	71,922	1/4	86,735	1/4	101,548	1/4	116,361	1/4	131,175	1/4	145,988
1/2	13,571	1/2	28,158	1/2	42,604	1/2	57,417	1/2	72,230	1/2	87,043	1/2	101,857	1/2	116,670	1/2	131,483	1/2	146,296
3/4	13,880	3/4	28,454	3/4	42,912	3/4	57,726	3/4	72,539	3/4	87,352	3/4	102,165	3/4	116,979	3/4	131,792	3/4	146,605
11	14,188	11	28,750	11	43,221	11	58,034	11	72,847	11	87,661	11	102,474	11	117,287	11	132,100	11	146,914
1/4	14,497	1/4	29,046	1/4	43,530	1/4	58,343	1/4	73,156	1/4	87,969	1/4	102,783	1/4	117,596	1/4	132,409	1/4	147,222
1/2	14,805	1/2	29,342	1/2	43,838	1/2	58,651	1/2	73,465	1/2	88,278	1/2	103,091	1/2	117,904	1/2	132,718	1/2	147,531
3/4	15,114	3/4	29,638	3/4	44,147	3/4	58,960	3/4	73,773	3/4	88,587	3/4	103,400	3/4	118,213	3/4	133,026	3/4	147,839

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77568

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Signature



DAKOTA PFL 423

Z PUKI
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	148,148	0	162,961	0	177,753	0	192,522	0	207,269	0
1/4	148,457	1/4	163,270	1/4	178,060	1/4	192,830	1/4	207,533	1/4
1/2	148,765	1/2	163,579	1/2	178,368	1/2	193,137	1/2	207,796	1/2
3/4	149,074	3/4	163,887	3/4	178,676	3/4	193,445	3/4	208,060	3/4
1	149,383	1	164,196	1	178,983	1	193,753	1	208,324	1
1/4	149,691	1/4	164,504	1/4	179,291	1/4	194,060	1/4	208,543	1/4
1/2	150,000	1/2	164,813	1/2	179,599	1/2	194,368	1/2	208,763	1/2
3/4	150,308	3/4	165,122	3/4	179,906	3/4	194,676	3/4	208,982	3/4
2	150,617	2	165,430	2	180,214	2	194,984	2	209,202	2
1/4	150,926	1/4	165,739	1/4	180,522	1/4	195,291	1/4	209,377	1/4
1/2	151,234	1/2	166,047	1/2	180,830	1/2	195,599	1/2	209,553	1/2
3/4	151,543	3/4	166,356	3/4	181,137	3/4	195,907	3/4	209,728	3/4
3	151,851	3	166,665	3	181,445	3	196,214	3	209,904	3
1/4	152,160	1/4	166,973	1/4	181,753	1/4	196,522	1/4	210,180	1/4
1/2	152,469	1/2	167,282	1/2	182,060	1/2	196,830	1/2	210,456	1/2
3/4	152,777	3/4	167,590	3/4	182,368	3/4	197,137	3/4	210,732	3/4
4	153,086	4	167,899	4	182,676	4	197,445	4	211,008	4
1/4	153,394	1/4	168,208	1/4	182,983	1/4	197,753	1/4	211,284	1/4
1/2	153,703	1/2	168,516	1/2	183,291	1/2	198,060	1/2	211,560	1/2
3/4	154,012	3/4	168,825	3/4	183,599	3/4	198,368	3/4	211,836	3/4
5	154,320	5	169,133	5	183,907	5	198,676	5	212,112	5
1/4	154,629	1/4	169,442	1/4	184,214	1/4	198,984	1/4	212,388	1/4
1/2	154,937	1/2	169,751	1/2	184,522	1/2	199,291	1/2	212,664	1/2
3/4	155,246	3/4	170,059	3/4	184,830	3/4	199,599	3/4	212,940	3/4
6	155,555	6	170,368	6	185,137	6	199,907	6	213,216	6
1/4	155,863	1/4	170,676	1/4	185,445	1/4	200,214	1/4	213,492	1/4
1/2	156,172	1/2	170,983	1/2	185,753	1/2	200,522	1/2	213,768	1/2
3/4	156,481	3/4	171,291	3/4	186,060	3/4	200,830	3/4	214,044	3/4
7	156,789	7	171,599	7	186,368	7	201,137	7	214,320	7
1/4	157,098	1/4	171,906	1/4	186,676	1/4	201,445	1/4	214,596	1/4
1/2	157,406	1/2	172,214	1/2	186,983	1/2	201,753	1/2	214,872	1/2
3/4	157,715	3/4	172,522	3/4	187,291	3/4	202,061	3/4	215,148	3/4
8	158,024	8	172,829	8	187,599	8	202,368	8	215,424	8
1/4	158,332	1/4	173,137	1/4	187,907	1/4	202,676	1/4	215,700	1/4
1/2	158,641	1/2	173,445	1/2	188,214	1/2	202,984	1/2	215,976	1/2
3/4	158,949	3/4	173,753	3/4	188,522	3/4	203,291	3/4	216,252	3/4
9	159,258	9	174,060	9	188,830	9	203,599	9	216,528	9
1/4	159,567	1/4	174,368	1/4	189,137	1/4	203,907	1/4	216,804	1/4
1/2	159,875	1/2	174,676	1/2	189,445	1/2	204,214	1/2	217,080	1/2
3/4	160,184	3/4	174,983	3/4	189,753	3/4	204,522	3/4	217,356	3/4
10	160,492	10	175,291	10	190,060	10	204,830	10	217,632	10
1/4	160,801	1/4	175,599	1/4	190,368	1/4	205,137	1/4	217,908	1/4
1/2	161,110	1/2	175,906	1/2	190,676	1/2	205,445	1/2	218,184	1/2
3/4	161,418	3/4	176,214	3/4	190,983	3/4	205,753	3/4	218,460	3/4
11	161,727	11	176,522	11	191,291	11	206,061	11	218,736	11
1/4	162,035	1/4	176,830	1/4	191,599	1/4	206,368	1/4	219,012	1/4
1/2	162,344	1/2	177,137	1/2	191,907	1/2	206,665	1/2	219,288	1/2
3/4	162,653	3/4	177,445	3/4	192,214	3/4	206,967	3/4	219,564	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
CALCULATED: 12/11/2014 CL
PRINTED: 12/12/2014 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>

The PMA



DAKUC NFL 429

ZSIDU

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	850	15,424	30,216	45,017	59,831	74,644	89,457	104,271	119,084	133,898
1/4	1,107	15,733	30,523	45,326	60,139	74,953	89,766	104,579	119,393	134,206
1/2	1,364	16,042	30,831	45,634	60,448	75,261	90,075	104,888	119,701	134,515
3/4	1,621	16,350	31,139	45,943	60,756	75,570	90,383	105,197	120,010	134,823
1	1,878	16,659	31,447	46,252	61,065	75,878	90,692	105,505	120,319	135,132
1/4	2,133	16,967	31,754	46,560	61,374	76,187	91,000	105,814	120,627	135,441
1/2	2,488	17,276	32,062	46,869	61,682	76,496	91,309	106,122	120,936	135,749
3/4	2,792	17,585	32,370	47,178	61,991	76,804	91,618	106,431	121,244	136,058
2	3,097	17,893	32,677	47,486	62,299	77,113	91,926	106,740	121,553	136,366
1/4	3,403	18,202	32,985	47,795	62,608	77,421	92,235	107,048	121,862	136,675
1/2	3,710	18,510	33,293	48,103	62,917	77,730	92,543	107,357	122,170	136,984
3/4	4,016	18,819	33,602	48,412	63,225	78,039	92,852	107,665	122,479	137,292
3	4,323	19,128	33,910	48,721	63,534	78,347	93,161	107,974	122,787	137,601
1/4	4,630	19,436	34,218	49,029	63,843	78,656	93,469	108,283	123,096	137,909
1/2	4,937	19,745	34,526	49,338	64,151	78,965	93,778	108,591	123,405	138,218
3/4	5,245	20,053	34,834	49,646	64,460	79,273	94,087	108,900	123,713	138,527
4	5,552	20,362	35,142	49,955	64,768	79,582	94,395	109,209	124,022	138,835
1/4	5,860	20,671	35,450	50,264	65,077	79,890	94,704	109,517	124,331	139,144
1/2	6,168	20,979	35,759	50,572	65,386	80,199	95,012	109,826	124,639	139,453
3/4	6,476	21,288	36,067	50,881	65,694	80,508	95,321	110,134	124,948	139,761
5	6,784	21,596	36,376	51,189	66,003	80,816	95,630	110,443	125,256	140,070
1/4	7,093	21,905	36,685	51,498	66,311	81,125	95,938	110,752	125,565	140,378
1/2	7,401	22,214	36,993	51,807	66,620	81,433	96,247	111,060	125,874	140,687
3/4	7,710	22,522	37,302	52,115	66,929	81,742	96,555	111,369	126,182	140,996
6	8,018	22,831	37,611	52,424	67,237	82,051	96,864	111,677	126,491	141,304
1/4	8,327	23,138	37,919	52,733	67,546	82,359	97,173	111,986	126,799	141,613
1/2	8,635	23,446	38,228	53,041	67,855	82,668	97,481	112,295	127,108	141,921
3/4	8,944	23,754	38,536	53,350	68,163	82,977	97,790	112,603	127,417	142,230
7	9,252	24,062	38,845	53,658	68,472	83,285	98,098	112,912	127,725	142,539
1/4	9,561	24,369	39,154	53,967	68,780	83,594	98,407	113,220	128,034	142,847
1/2	9,869	24,677	39,462	54,276	69,089	83,902	98,716	113,529	128,342	143,156
3/4	10,178	24,985	39,771	54,584	69,398	84,211	99,024	113,838	128,651	143,464
8	10,487	25,292	40,079	54,893	69,706	84,520	99,333	114,146	128,960	143,773
1/4	10,795	25,600	40,388	55,201	70,015	84,828	99,642	114,455	129,268	144,082
1/2	11,104	25,908	40,697	55,510	70,323	85,137	99,950	114,764	129,577	144,390
3/4	11,412	26,216	41,005	55,819	70,632	85,445	100,259	115,072	129,886	144,699
9	11,721	26,523	41,314	56,127	70,941	85,754	100,567	115,381	130,194	145,008
1/4	12,030	26,831	41,622	56,436	71,249	86,063	100,876	115,689	130,503	145,316
1/2	12,338	27,139	41,931	56,744	71,558	86,371	101,185	115,998	130,811	145,625
3/4	12,647	27,446	42,240	57,053	71,866	86,680	101,493	116,307	131,120	145,933
10	12,955	27,754	42,548	57,362	72,175	86,988	101,802	116,615	131,429	146,242
1/4	13,264	28,062	42,857	57,670	72,484	87,297	102,110	116,924	131,737	146,551
1/2	13,573	28,370	43,166	57,979	72,792	87,606	102,419	117,232	132,046	146,859
3/4	13,881	28,677	43,474	58,288	73,101	87,914	102,728	117,541	132,354	147,168
11	14,190	28,985	43,783	58,596	73,410	88,223	103,036	117,850	132,663	147,476
1/4	14,498	29,293	44,091	58,905	73,718	88,532	103,345	118,158	132,972	147,785
1/2	14,807	29,600	44,400	59,213	74,027	88,840	103,654	118,467	133,280	148,094
3/4	15,116	29,908	44,709	59,522	74,335	89,149	103,962	118,776	133,589	148,402

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BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

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CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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Signature



CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	148,711	0	163,524	0	178,316	0	193,085	0	0	0
1/4	149,019	1/4	163,833	1/4	178,623	1/4	193,393	1/4	1/4	1/4
1/2	149,328	1/2	164,141	1/2	178,931	1/2	193,701	1/2	1/2	1/2
3/4	149,637	3/4	164,450	3/4	179,239	3/4	194,008	3/4	3/4	3/4
1	149,945	1	164,759	1	179,547	1	194,316	1	1	1
1/4	150,254	1/4	165,067	1/4	179,854	1/4	194,624	1/4	1/4	1/4
1/2	150,563	1/2	165,376	1/2	180,162	1/2	194,931	1/2	1/2	1/2
3/4	150,871	3/4	165,685	3/4	180,470	3/4	195,239	3/4	3/4	3/4
2	151,180	2	165,993	2	180,777	2	195,547	2	2	2
1/4	151,488	1/4	166,302	1/4	181,085	1/4	195,855	1/4	1/4	1/4
1/2	151,797	1/2	166,610	1/2	181,393	1/2	196,162	1/2	1/2	1/2
3/4	152,106	3/4	166,919	3/4	181,700	3/4	196,470	3/4	3/4	3/4
3	152,414	3	167,228	3	182,008	3	196,778	3	3	3
1/4	152,723	1/4	167,536	1/4	182,316	1/4	197,085	1/4	1/4	1/4
1/2	153,031	1/2	167,845	1/2	182,623	1/2	197,393	1/2	1/2	1/2
3/4	153,340	3/4	168,153	3/4	182,931	3/4	197,701	3/4	3/4	3/4
4	153,649	4	168,462	4	183,239	4	198,008	4	4	4
1/4	153,957	1/4	168,771	1/4	183,547	1/4	198,316	1/4	1/4	1/4
1/2	154,266	1/2	169,079	1/2	183,854	1/2	198,624	1/2	1/2	1/2
3/4	154,575	3/4	169,388	3/4	184,162	3/4	198,931	3/4	3/4	3/4
5	154,883	5	169,697	5	184,470	5	199,239	5	5	5
1/4	155,192	1/4	170,005	1/4	184,777	1/4	199,547	1/4	1/4	1/4
1/2	155,500	1/2	170,314	1/2	185,085	1/2	199,855	1/2	1/2	1/2
3/4	155,809	3/4	170,622	3/4	185,393	3/4	200,162	3/4	3/4	3/4
6	156,118	6	170,931	6	185,700	6	200,470	6	6	6
1/4	156,426	1/4	171,239	1/4	186,008	1/4	200,778	1/4	1/4	1/4
1/2	156,735	1/2	171,546	1/2	186,316	1/2	201,085	1/2	1/2	1/2
3/4	157,043	3/4	171,854	3/4	186,624	3/4	201,393	3/4	3/4	3/4
7	157,352	7	172,162	7	186,931	7	201,701	7	7	7
1/4	157,661	1/4	172,469	1/4	187,239	1/4	202,008	1/4	1/4	1/4
1/2	157,969	1/2	172,777	1/2	187,547	1/2	202,316	1/2	1/2	1/2
3/4	158,278	3/4	173,085	3/4	187,854	3/4	202,624	3/4	3/4	3/4
8	158,586	8	173,393	8	188,162	8	202,932	8	8	8
1/4	158,895	1/4	173,700	1/4	188,470	1/4	203,239	1/4	1/4	1/4
1/2	159,204	1/2	174,008	1/2	188,777	1/2	203,547	1/2	1/2	1/2
3/4	159,512	3/4	174,316	3/4	189,085	3/4	203,855	3/4	3/4	3/4
9	159,821	9	174,623	9	189,393	9	204,162	9	9	9
1/4	160,130	1/4	174,931	1/4	189,701	1/4	204,470	1/4	1/4	1/4
1/2	160,438	1/2	175,239	1/2	190,008	1/2	204,778	1/2	1/2	1/2
3/4	160,747	3/4	175,546	3/4	190,316	3/4	205,085	3/4	3/4	3/4
10	161,055	10	175,854	10	190,624	10	205,393	10	10	10
1/4	161,364	1/4	176,162	1/4	190,931	1/4	205,701	1/4	1/4	1/4
1/2	161,673	1/2	176,470	1/2	191,239	1/2	206,009	1/2	1/2	1/2
3/4	161,981	3/4	176,777	3/4	191,547	3/4	206,316	3/4	3/4	3/4
11	162,290	11	177,085	11	191,854	11	206,624	11	11	11
1/4	162,598	1/4	177,393	1/4	192,162	1/4	206,926	1/4	1/4	1/4
1/2	162,907	1/2	177,700	1/2	192,470	1/2	207,228	1/2	1/2	1/2
3/4	163,216	3/4	178,008	3/4	192,778	3/4	207,531	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
CALCULATED: 12/11/2014 CL
PRINTED: 12/12/2014 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>

The J. J. Jones



BAARGE NFL 429

3 PUKI

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	972	0	17,689	0	34,428	0	51,156	0	68,006	0	84,827	0	101,785	0	118,763	0	135,725	0	152,686
1/4	1,267	1/4	18,042	1/4	34,772	1/4	51,509	1/4	68,355	1/4	85,179	1/4	102,138	1/4	119,117	1/4	136,079	1/4	153,039
1/2	1,562	1/2	18,396	1/2	35,115	1/2	51,863	1/2	68,704	1/2	85,531	1/2	102,492	1/2	119,470	1/2	136,432	1/2	153,392
3/4	1,857	3/4	18,750	3/4	35,458	3/4	52,216	3/4	69,054	3/4	85,883	3/4	102,846	3/4	119,823	3/4	136,785	3/4	153,746
1	2,152	1	19,104	1	35,802	1	52,569	1	69,403	1	86,234	1	103,200	1	120,177	1	137,139	1	154,099
1/4	2,502	1/4	19,458	1/4	36,145	1/4	52,922	1/4	69,753	1/4	86,586	1/4	103,554	1/4	120,530	1/4	137,492	1/4	154,452
1/2	2,852	1/2	19,811	1/2	36,488	1/2	53,276	1/2	70,102	1/2	86,938	1/2	103,907	1/2	120,884	1/2	137,845	1/2	154,806
3/4	3,202	3/4	20,165	3/4	36,831	3/4	53,629	3/4	70,452	3/4	87,290	3/4	104,261	3/4	121,237	3/4	138,199	3/4	155,159
2	3,551	2	20,519	2	37,175	2	53,982	2	70,801	2	87,641	2	104,615	2	121,591	2	138,552	2	155,512
1/4	3,903	1/4	20,873	1/4	37,518	1/4	54,335	1/4	71,150	1/4	87,993	1/4	104,969	1/4	121,944	1/4	138,905	1/4	155,866
1/2	4,255	1/2	21,227	1/2	37,862	1/2	54,689	1/2	71,500	1/2	88,345	1/2	105,322	1/2	122,297	1/2	139,259	1/2	156,219
3/4	4,607	3/4	21,580	3/4	38,206	3/4	55,042	3/4	71,849	3/4	88,697	3/4	105,676	3/4	122,651	3/4	139,612	3/4	156,572
3	4,959	3	21,934	3	38,549	3	55,395	3	72,199	3	89,048	3	106,030	3	123,004	3	139,965	3	156,926
1/4	5,312	1/4	22,288	1/4	38,893	1/4	55,749	1/4	72,546	1/4	89,402	1/4	106,384	1/4	123,358	1/4	140,319	1/4	157,279
1/2	5,665	1/2	22,642	1/2	39,237	1/2	56,102	1/2	72,894	1/2	89,756	1/2	106,738	1/2	123,711	1/2	140,672	1/2	157,632
3/4	6,017	3/4	22,996	3/4	39,580	3/4	56,455	3/4	73,241	3/4	90,110	3/4	107,091	3/4	124,064	3/4	141,025	3/4	157,986
4	6,370	4	23,349	4	39,924	4	56,808	4	73,589	4	90,463	4	107,445	4	124,418	4	141,379	4	158,339
1/4	6,724	1/4	23,703	1/4	40,268	1/4	57,162	1/4	73,936	1/4	90,817	1/4	107,799	1/4	124,771	1/4	141,732	1/4	158,692
1/2	7,077	1/2	24,057	1/2	40,612	1/2	57,515	1/2	74,284	1/2	91,171	1/2	108,153	1/2	125,125	1/2	142,085	1/2	159,046
3/4	7,430	3/4	24,411	3/4	40,956	3/4	57,868	3/4	74,631	3/4	91,525	3/4	108,507	3/4	125,478	3/4	142,439	3/4	159,399
5	7,783	5	24,765	5	41,301	5	58,221	5	74,979	5	91,879	5	108,860	5	125,831	5	142,792	5	159,752
1/4	8,137	1/4	25,119	1/4	41,645	1/4	58,571	1/4	75,331	1/4	92,232	1/4	109,214	1/4	126,185	1/4	143,145	1/4	160,106
1/2	8,490	1/2	25,472	1/2	41,989	1/2	58,920	1/2	75,682	1/2	92,586	1/2	109,568	1/2	126,538	1/2	143,499	1/2	160,459
3/4	8,843	3/4	25,826	3/4	42,333	3/4	59,270	3/4	76,034	3/4	92,940	3/4	109,922	3/4	126,892	3/4	143,852	3/4	160,812
6	9,197	6	26,180	6	42,678	6	59,619	6	76,386	6	93,294	6	110,275	6	127,245	6	144,205	6	161,166
1/4	9,551	1/4	26,524	1/4	43,031	1/4	59,969	1/4	76,738	1/4	93,647	1/4	110,629	1/4	127,598	1/4	144,559	1/4	161,519
1/2	9,905	1/2	26,868	1/2	43,384	1/2	60,318	1/2	77,089	1/2	94,001	1/2	110,983	1/2	127,952	1/2	144,912	1/2	161,872
3/4	10,258	3/4	27,212	3/4	43,737	3/4	60,667	3/4	77,441	3/4	94,355	3/4	111,337	3/4	128,305	3/4	145,265	3/4	162,226
7	10,612	7	27,555	7	44,091	7	61,017	7	77,793	7	94,709	7	111,691	7	128,658	7	145,619	7	162,579
1/4	10,966	1/4	27,899	1/4	44,444	1/4	61,366	1/4	78,145	1/4	95,063	1/4	112,044	1/4	129,012	1/4	145,972	1/4	162,932
1/2	11,320	1/2	28,243	1/2	44,797	1/2	61,716	1/2	78,496	1/2	95,416	1/2	112,398	1/2	129,365	1/2	146,325	1/2	163,286
3/4	11,674	3/4	28,587	3/4	45,150	3/4	62,065	3/4	78,848	3/4	95,770	3/4	112,752	3/4	129,718	3/4	146,679	3/4	163,639
8	12,028	8	28,931	8	45,504	8	62,415	8	79,200	8	96,124	8	113,106	8	130,072	8	147,032	8	163,992
1/4	12,381	1/4	29,275	1/4	45,857	1/4	62,764	1/4	79,551	1/4	96,478	1/4	113,460	1/4	130,425	1/4	147,385	1/4	164,346
1/2	12,735	1/2	29,619	1/2	46,210	1/2	63,114	1/2	79,903	1/2	96,832	1/2	113,813	1/2	130,778	1/2	147,739	1/2	164,699
3/4	13,089	3/4	29,962	3/4	46,564	3/4	63,463	3/4	80,255	3/4	97,185	3/4	114,167	3/4	131,132	3/4	148,092	3/4	165,053
9	13,443	9	30,306	9	46,917	9	63,812	9	80,607	9	97,539	9	114,521	9	131,485	9	148,445	9	165,406
1/4	13,797	1/4	30,650	1/4	47,270	1/4	64,162	1/4	80,958	1/4	97,893	1/4	114,875	1/4	131,838	1/4	148,799	1/4	165,759
1/2	14,150	1/2	30,994	1/2	47,623	1/2	64,511	1/2	81,310	1/2	98,247	1/2	115,228	1/2	132,192	1/2	149,152	1/2	166,113
3/4	14,504	3/4	31,338	3/4	47,977	3/4	64,861	3/4	81,662	3/4	98,600	3/4	115,582	3/4	132,545	3/4	149,505	3/4	166,466
10	14,858	10	31,682	10	48,330	10	65,210	10	82,014	10	98,954	10	115,936	10	132,898	10	149,859	10	166,819
1/4	15,212	1/4	32,025	1/4	48,683	1/4	65,560	1/4	82,365	1/4	99,308	1/4	116,289	1/4	133,252	1/4	150,212	1/4	167,055
1/2	15,566	1/2	32,368	1/2	49,036	1/2	65,909	1/2	82,717	1/2	99,662	1/2	116,643	1/2	133,605	1/2	150,566	1/2	167,291
3/4	15,919	3/4	32,712	3/4	49,390	3/4	66,258	3/4	83,069	3/4	100,016	3/4	116,996	3/4	133,958	3/4	150,919	3/4	167,527
11	16,273	11	33,055	11	49,743	11	66,608	11	83,421	11	100,369	11	117,350	11	134,312	11	151,272	11	167,762
1/4	16,627	1/4	33,398	1/4	50,096	1/4	66,957	1/4	83,772	1/4	100,723	1/4	117,703	1/4	134,665	1/4	151,626	1/4	167,998
1/2	16,981	1/2	33,742	1/2	50,450	1/2	67,307	1/2	84,124	1/2	101,077	1/2	118,056	1/2	135,019	1/2	151,979	1/2	168,234
3/4	17,335	3/4	34,085	3/4	50,803	3/4	67,656	3/4	84,476	3/4	101,431	3/4	118,410	3/4	135,372	3/4	152,332	3/4	168,470

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>

Paul J. Parnell



DAKGE PFL 429

3 PUKI
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	168,706	0	180,024	0	191,326	0	202,611	0	213,817	0
1/4	168,941	1/4	180,260	1/4	191,561	1/4	202,846	1/4	214,000	1/4
1/2	169,177	1/2	180,495	1/2	191,796	1/2	203,081	1/2	214,182	1/2
3/4	169,413	3/4	180,731	3/4	192,031	3/4	203,316	3/4	214,364	3/4
1	169,649	1	180,967	1	192,266	1	203,551	1	214,546	1
1/4	169,885	1/4	181,203	1/4	192,501	1/4	203,787	1/4	214,678	1/4
1/2	170,120	1/2	181,439	1/2	192,736	1/2	204,022	1/2	214,810	1/2
3/4	170,356	3/4	181,674	3/4	192,971	3/4	204,257	3/4	214,941	3/4
2	170,592	2	181,910	2	193,207	2	204,492	2	215,073	2
1/4	170,828	1/4	182,146	1/4	193,442	1/4	204,727	1/4	215,154	1/4
1/2	171,064	1/2	182,382	1/2	193,677	1/2	204,962	1/2	215,235	1/2
3/4	171,299	3/4	182,618	3/4	193,912	3/4	205,197	3/4	215,316	3/4
3	171,535	3	182,853	3	194,147	3	205,432	3	215,397	3
1/4	171,771	1/4	183,089	1/4	194,382	1/4	205,667	1/4	215,478	1/4
1/2	172,007	1/2	183,325	1/2	194,617	1/2	205,903	1/2	215,559	1/2
3/4	172,243	3/4	183,561	3/4	194,852	3/4	206,138	3/4	215,640	3/4
4	172,478	4	183,797	4	195,087	4	206,373	4	215,721	4
1/4	172,714	1/4	184,032	1/4	195,323	1/4	206,608	1/4	215,802	1/4
1/2	172,950	1/2	184,268	1/2	195,558	1/2	206,843	1/2	215,883	1/2
3/4	173,186	3/4	184,504	3/4	195,793	3/4	207,078	3/4	215,964	3/4
5	173,422	5	184,740	5	196,028	5	207,313	5	216,045	5
1/4	173,657	1/4	184,976	1/4	196,263	1/4	207,548	1/4	216,126	1/4
1/2	173,893	1/2	185,211	1/2	196,498	1/2	207,783	1/2	216,207	1/2
3/4	174,129	3/4	185,447	3/4	196,733	3/4	208,019	3/4	216,288	3/4
6	174,365	6	185,683	6	196,968	6	208,254	6	216,369	6
1/4	174,601	1/4	185,918	1/4	197,203	1/4	208,489	1/4	216,450	1/4
1/2	174,836	1/2	186,153	1/2	197,439	1/2	208,724	1/2	216,531	1/2
3/4	175,072	3/4	186,388	3/4	197,674	3/4	208,959	3/4	216,612	3/4
7	175,308	7	186,623	7	197,909	7	209,194	7	216,693	7
1/4	175,544	1/4	186,859	1/4	198,144	1/4	209,429	1/4	216,774	1/4
1/2	175,780	1/2	187,094	1/2	198,379	1/2	209,664	1/2	216,855	1/2
3/4	176,015	3/4	187,329	3/4	198,614	3/4	209,899	3/4	216,936	3/4
8	176,251	8	187,564	8	198,849	8	210,134	8	217,017	8
1/4	176,487	1/4	187,799	1/4	199,084	1/4	210,369	1/4	217,098	1/4
1/2	176,723	1/2	188,034	1/2	199,319	1/2	210,604	1/2	217,179	1/2
3/4	176,958	3/4	188,269	3/4	199,554	3/4	210,839	3/4	217,260	3/4
9	177,194	9	188,504	9	199,789	9	211,074	9	217,341	9
1/4	177,430	1/4	188,739	1/4	200,025	1/4	211,309	1/4	217,422	1/4
1/2	177,666	1/2	188,974	1/2	200,260	1/2	211,544	1/2	217,503	1/2
3/4	177,902	3/4	189,210	3/4	200,495	3/4	211,779	3/4	217,584	3/4
10	178,137	10	189,445	10	200,730	10	212,014	10	217,665	10
1/4	178,373	1/4	189,680	1/4	200,965	1/4	212,249	1/4	217,746	1/4
1/2	178,609	1/2	189,915	1/2	201,200	1/2	212,484	1/2	217,827	1/2
3/4	178,845	3/4	190,150	3/4	201,435	3/4	212,719	3/4	217,908	3/4
11	179,081	11	190,385	11	201,671	11	212,954	11	217,989	11
1/4	179,316	1/4	190,620	1/4	201,906	1/4	213,189	1/4	218,070	1/4
1/2	179,552	1/2	190,855	1/2	202,141	1/2	213,424	1/2	218,151	1/2
3/4	179,788	3/4	191,091	3/4	202,376	3/4	213,659	3/4	218,232	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
CALCULATED: 12/11/2014 CL
PRINTED: 12/12/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>

The J. J. J.



BAKAGE NFL 429

3 SIBU

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	972	0	17,701	0	34,684	0	51,677	0	68,682	0	85,685	0	102,689	0	119,689	0	136,674	0	153,659
1/4	1,267	1/4	18,055	1/4	35,037	1/4	52,031	1/4	69,036	1/4	86,040	1/4	103,043	1/4	120,043	1/4	137,028	1/4	154,013
1/2	1,562	1/2	18,409	1/2	35,391	1/2	52,385	1/2	69,390	1/2	86,394	1/2	103,397	1/2	120,397	1/2	137,382	1/2	154,367
3/4	1,857	3/4	18,764	3/4	35,744	3/4	52,740	3/4	69,745	3/4	86,748	3/4	103,752	3/4	120,751	3/4	137,736	3/4	154,721
1	2,152	1	19,118	1	36,097	1	53,094	1	70,099	1	87,102	1	104,106	1	121,105	1	138,090	1	155,075
1/4	2,502	1/4	19,472	1/4	36,451	1/4	53,448	1/4	70,453	1/4	87,457	1/4	104,460	1/4	121,458	1/4	138,443	1/4	155,429
1/2	2,851	1/2	19,826	1/2	36,804	1/2	53,802	1/2	70,807	1/2	87,811	1/2	104,814	1/2	121,812	1/2	138,797	1/2	155,782
3/4	3,201	3/4	20,181	3/4	37,157	3/4	54,157	3/4	71,162	3/4	88,165	3/4	105,168	3/4	122,166	3/4	139,151	3/4	156,136
2	3,550	2	20,535	2	37,511	2	54,511	2	71,516	2	88,519	2	105,523	2	122,521	2	139,505	2	156,490
1/4	3,902	1/4	20,889	1/4	37,864	1/4	54,865	1/4	71,870	1/4	88,874	1/4	105,877	1/4	122,874	1/4	139,859	1/4	156,844
1/2	4,253	1/2	21,243	1/2	38,218	1/2	55,220	1/2	72,224	1/2	89,228	1/2	106,231	1/2	123,228	1/2	140,213	1/2	157,198
3/4	4,605	3/4	21,598	3/4	38,572	3/4	55,574	3/4	72,579	3/4	89,582	3/4	106,585	3/4	123,582	3/4	140,567	3/4	157,552
3	4,957	3	21,952	3	38,926	3	55,928	3	72,933	3	89,936	3	106,940	3	123,935	3	140,920	3	157,905
1/4	5,310	1/4	22,306	1/4	39,279	1/4	56,282	1/4	73,287	1/4	90,291	1/4	107,294	1/4	124,289	1/4	141,274	1/4	158,259
1/2	5,662	1/2	22,660	1/2	39,633	1/2	56,637	1/2	73,641	1/2	90,645	1/2	107,648	1/2	124,643	1/2	141,628	1/2	158,613
3/4	6,015	3/4	23,015	3/4	39,987	3/4	56,991	3/4	73,996	3/4	90,999	3/4	108,002	3/4	124,997	3/4	141,982	3/4	158,967
4	6,368	4	23,369	4	40,340	4	57,345	4	74,350	4	91,353	4	108,357	4	125,351	4	142,336	4	159,321
1/4	6,722	1/4	23,723	1/4	40,694	1/4	57,699	1/4	74,704	1/4	91,707	1/4	108,711	1/4	125,705	1/4	142,690	1/4	159,675
1/2	7,075	1/2	24,078	1/2	41,049	1/2	58,054	1/2	75,058	1/2	92,062	1/2	109,065	1/2	126,059	1/2	143,044	1/2	160,029
3/4	7,429	3/4	24,432	3/4	41,403	3/4	58,408	3/4	75,413	3/4	92,416	3/4	109,419	3/4	126,412	3/4	143,397	3/4	160,382
5	7,783	5	24,786	5	41,757	5	58,762	5	75,767	5	92,770	5	109,774	5	126,766	5	143,751	5	160,736
1/4	8,137	1/4	25,140	1/4	42,112	1/4	59,117	1/4	76,121	1/4	93,124	1/4	110,128	1/4	127,120	1/4	144,105	1/4	161,090
1/2	8,491	1/2	25,495	1/2	42,466	1/2	59,471	1/2	76,475	1/2	93,479	1/2	110,482	1/2	127,474	1/2	144,459	1/2	161,444
3/4	8,845	3/4	25,849	3/4	42,820	3/4	59,825	3/4	76,829	3/4	93,833	3/4	110,836	3/4	127,828	3/4	144,813	3/4	161,798
6	9,199	6	26,203	6	43,174	6	60,179	6	77,184	6	94,187	6	111,190	6	128,182	6	145,167	6	162,152
1/4	9,553	1/4	26,556	1/4	43,529	1/4	60,534	1/4	77,538	1/4	94,541	1/4	111,545	1/4	128,536	1/4	145,521	1/4	162,506
1/2	9,907	1/2	26,910	1/2	43,883	1/2	60,888	1/2	77,892	1/2	94,896	1/2	111,899	1/2	128,889	1/2	145,874	1/2	162,859
3/4	10,261	3/4	27,263	3/4	44,237	3/4	61,242	3/4	78,246	3/4	95,250	3/4	112,253	3/4	129,243	3/4	146,228	3/4	163,213
7	10,616	7	27,617	7	44,591	7	61,596	7	78,601	7	95,604	7	112,607	7	129,597	7	146,582	7	163,567
1/4	10,970	1/4	27,970	1/4	44,946	1/4	61,951	1/4	78,955	1/4	95,958	1/4	112,962	1/4	129,951	1/4	146,936	1/4	163,921
1/2	11,324	1/2	28,323	1/2	45,300	1/2	62,305	1/2	79,309	1/2	96,313	1/2	113,316	1/2	130,305	1/2	147,290	1/2	164,275
3/4	11,678	3/4	28,677	3/4	45,654	3/4	62,659	3/4	79,663	3/4	96,667	3/4	113,670	3/4	130,659	3/4	147,644	3/4	164,629
8	12,033	8	29,030	8	46,009	8	63,013	8	80,018	8	97,021	8	114,024	8	131,013	8	147,998	8	164,983
1/4	12,387	1/4	29,383	1/4	46,363	1/4	63,368	1/4	80,372	1/4	97,375	1/4	114,379	1/4	131,366	1/4	148,351	1/4	165,336
1/2	12,741	1/2	29,737	1/2	46,717	1/2	63,722	1/2	80,726	1/2	97,729	1/2	114,733	1/2	131,720	1/2	148,705	1/2	165,690
3/4	13,095	3/4	30,090	3/4	47,071	3/4	64,076	3/4	81,080	3/4	98,084	3/4	115,087	3/4	132,074	3/4	149,059	3/4	166,044
9	13,450	9	30,443	9	47,426	9	64,431	9	81,435	9	98,438	9	115,441	9	132,428	9	149,413	9	166,398
1/4	13,804	1/4	30,797	1/4	47,780	1/4	64,785	1/4	81,789	1/4	98,792	1/4	115,796	1/4	132,782	1/4	149,767	1/4	166,752
1/2	14,158	1/2	31,150	1/2	48,134	1/2	65,139	1/2	82,143	1/2	99,146	1/2	116,150	1/2	133,136	1/2	150,121	1/2	167,106
3/4	14,512	3/4	31,504	3/4	48,488	3/4	65,493	3/4	82,497	3/4	99,501	3/4	116,504	3/4	133,489	3/4	150,475	3/4	167,460
10	14,867	10	31,857	10	48,843	10	65,848	10	82,852	10	99,855	10	116,858	10	133,843	10	150,828	10	167,813
1/4	15,221	1/4	32,210	1/4	49,197	1/4	66,202	1/4	83,206	1/4	100,209	1/4	117,212	1/4	134,197	1/4	151,182	1/4	168,049
1/2	15,575	1/2	32,564	1/2	49,551	1/2	66,556	1/2	83,560	1/2	100,563	1/2	117,566	1/2	134,551	1/2	151,536	1/2	168,285
3/4	15,930	3/4	32,917	3/4	49,906	3/4	66,910	3/4	83,914	3/4	100,918	3/4	117,920	3/4	134,905	3/4	151,890	3/4	168,521
11	16,284	11	33,270	11	50,260	11	67,265	11	84,268	11	101,272	11	118,274	11	135,259	11	152,244	11	168,756
1/4	16,638	1/4	33,624	1/4	50,614	1/4	67,619	1/4	84,623	1/4	101,626	1/4	118,628	1/4	135,613	1/4	152,598	1/4	168,992
1/2	16,992	1/2	33,977	1/2	50,968	1/2	67,973	1/2	84,977	1/2	101,980	1/2	118,981	1/2	135,966	1/2	152,952	1/2	169,228
3/4	17,347	3/4	34,330	3/4	51,323	3/4	68,328	3/4	85,331	3/4	102,335	3/4	119,335	3/4	136,320	3/4	153,305	3/4	169,464

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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Signature



CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/4"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	169,700	0	181,016	0	203,599	0	214,804	0	226,009	0
1/4	169,935	1/4	181,252	1/4	203,834	1/4	214,986	1/4	226,191	1/4
1/2	170,171	1/2	181,487	1/2	204,069	1/2	215,168	1/2	226,376	1/2
3/4	170,407	3/4	181,723	3/4	204,305	3/4	215,350	3/4	226,561	3/4
1	170,643	1	181,959	1	204,540	1	215,533	1	226,746	1
1/4	170,878	1/4	182,195	1/4	204,775	1/4	215,684	1/4	226,931	1/4
1/2	171,114	1/2	182,430	1/2	205,010	1/2	215,796	1/2	227,116	1/2
3/4	171,350	3/4	182,666	3/4	205,245	3/4	215,928	3/4	227,301	3/4
2	171,586	2	182,902	2	205,480	2	216,059	2	227,486	2
1/4	171,821	1/4	183,138	1/4	205,715	1/4	216,140	1/4	227,671	1/4
1/2	172,057	1/2	183,373	1/2	205,950	1/2	216,221	1/2	227,856	1/2
3/4	172,293	3/4	183,609	3/4	206,185	3/4	216,302	3/4	228,041	3/4
3	172,529	3	183,845	3	206,420	3	216,383	3	228,226	3
1/4	172,764	1/4	184,081	1/4	206,655	1/4	216,464	1/4	228,411	1/4
1/2	173,000	1/2	184,317	1/2	206,890	1/2	216,545	1/2	228,596	1/2
3/4	173,236	3/4	184,552	3/4	207,125	3/4	216,626	3/4	228,781	3/4
4	173,472	4	184,788	4	207,360	4	216,707	4	228,966	4
1/4	173,707	1/4	185,024	1/4	207,596	1/4	216,788	1/4	229,151	1/4
1/2	173,943	1/2	185,260	1/2	207,831	1/2	216,869	1/2	229,336	1/2
3/4	174,179	3/4	185,495	3/4	208,066	3/4	216,950	3/4	229,521	3/4
5	174,415	5	185,731	5	208,301	5	217,031	5	229,706	5
1/4	174,650	1/4	185,967	1/4	208,536	1/4	217,112	1/4	229,891	1/4
1/2	174,886	1/2	186,203	1/2	208,771	1/2	217,193	1/2	230,076	1/2
3/4	175,122	3/4	186,438	3/4	209,006	3/4	217,274	3/4	230,261	3/4
6	175,358	6	186,674	6	209,241	6	217,355	6	230,446	6
1/4	175,593	1/4	186,909	1/4	209,474	1/4	217,436	1/4	230,631	1/4
1/2	175,829	1/2	187,144	1/2	209,707	1/2	217,517	1/2	230,816	1/2
3/4	176,065	3/4	187,379	3/4	209,940	3/4	217,598	3/4	231,001	3/4
7	176,301	7	187,614	7	210,172	7	217,679	7	231,186	7
1/4	176,536	1/4	187,849	1/4	210,405	1/4	217,760	1/4	231,371	1/4
1/2	176,772	1/2	188,085	1/2	210,638	1/2	217,841	1/2	231,556	1/2
3/4	177,008	3/4	188,320	3/4	210,871	3/4	217,922	3/4	231,741	3/4
8	177,244	8	188,555	8	211,104	8	218,003	8	231,926	8
1/4	177,480	1/4	188,790	1/4	211,337	1/4	218,084	1/4	232,111	1/4
1/2	177,715	1/2	189,025	1/2	211,569	1/2	218,165	1/2	232,296	1/2
3/4	177,951	3/4	189,260	3/4	211,802	3/4	218,246	3/4	232,481	3/4
9	178,187	9	189,495	9	212,035	9	218,327	9	232,666	9
1/4	178,423	1/4	189,730	1/4	212,268	1/4	218,408	1/4	232,851	1/4
1/2	178,658	1/2	189,965	1/2	212,501	1/2	218,489	1/2	233,036	1/2
3/4	178,894	3/4	190,200	3/4	212,734	3/4	218,570	3/4	233,221	3/4
10	179,130	10	190,435	10	212,966	10	218,651	10	233,406	10
1/4	179,366	1/4	190,670	1/4	213,199	1/4	218,732	1/4	233,591	1/4
1/2	179,601	1/2	190,905	1/2	213,432	1/2	218,813	1/2	233,776	1/2
3/4	179,837	3/4	191,140	3/4	213,665	3/4	218,894	3/4	233,961	3/4
11	180,073	11	191,376	11	213,898	11	218,975	11	234,146	11
1/4	180,309	1/4	191,611	1/4	214,124	1/4	219,056	1/4	234,331	1/4
1/2	180,544	1/2	191,846	1/2	214,357	1/2	219,137	1/2	234,516	1/2
3/4	180,780	3/4	192,081	3/4	214,577	3/4	219,218	3/4	234,701	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
CALCULATED: 12/11/2014 CL
PRINTED: 12/12/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

Paul J. Hume



BARGE NFL 423

FUEL TANK
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-02 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	0	109	112	278	281	444	448	611	615	778	782	945	949	1108	1112	1275	1279	1442	1446
1/2	1	112	115	281	285	448	451	615	618	782	785	949	952	1112	1115	1279	1282	1446	1449
3/4	2	115	119	285	289	451	454	618	621	785	788	952	955	1115	1118	1282	1285	1449	1452
1	3	119	122	289	292	454	457	621	624	788	791	955	958	1118	1121	1285	1288	1452	1455
1/4	4	122	125	292	296	457	460	624	627	791	794	958	961	1121	1124	1288	1291	1455	1458
1/2	5	125	128	296	300	460	463	627	630	794	797	961	964	1124	1127	1291	1294	1458	1461
3/4	6	128	132	300	303	463	465	630	633	797	800	964	967	1127	1130	1294	1297	1461	1464
1	7	132	135	303	307	465	468	633	636	800	803	967	970	1130	1133	1297	1300	1464	1467
1/4	8	135	138	307	311	468	471	636	639	803	806	970	973	1133	1136	1300	1303	1467	1470
1/2	9	138	142	311	314	471	474	639	642	806	809	973	976	1136	1139	1303	1306	1470	1473
3/4	10	142	145	314	318	474	477	642	645	809	812	976	979	1139	1142	1306	1309	1473	1476
1	11	145	149	318	321	477	480	645	648	812	815	979	982	1142	1145	1309	1312	1476	1479
1/4	12	149	152	321	325	480	482	648	651	815	818	982	985	1145	1148	1312	1315	1479	1482
1/2	13	152	156	325	329	482	485	651	654	818	821	985	988	1148	1151	1315	1318	1482	1485
3/4	14	156	159	329	332	485	488	654	657	821	824	988	991	1151	1154	1318	1321	1485	1488
1	15	159	162	332	336	488	490	657	660	824	827	991	994	1154	1157	1321	1324	1488	1491
1/4	16	162	166	336	339	490	493	660	663	827	830	994	997	1157	1160	1324	1327	1491	1494
1/2	17	166	169	339	343	493	495	663	666	830	833	997	1000	1160	1163	1327	1330	1494	1497
3/4	18	169	173	343	347	495	498	666	669	833	836	1000	1003	1163	1166	1330	1333	1497	1500
1	19	173	176	347	350	498	501	669	672	836	839	1003	1006	1166	1169	1333	1336	1500	1503
1/4	20	176	180	350	354	501	503	672	675	839	842	1006	1009	1169	1172	1336	1339	1503	1506
1/2	21	180	183	354	357	503	505	675	678	842	845	1009	1012	1172	1175	1339	1342	1506	1509
3/4	22	183	187	357	361	505	508	678	681	845	848	1012	1015	1175	1178	1342	1345	1509	1512
1	23	187	191	361	364	508	510	681	684	848	851	1015	1018	1178	1181	1345	1348	1512	1515
1/4	24	191	194	364	368	510	512	684	687	851	854	1018	1021	1181	1184	1348	1351	1515	1518
1/2	25	194	198	368	371	512	514	687	690	854	857	1021	1024	1184	1187	1351	1354	1518	1521
3/4	26	198	201	371	375	514	516	690	693	857	860	1024	1027	1187	1190	1354	1357	1521	1524
1	27	201	205	375	378	516	519	693	696	860	863	1027	1030	1190	1193	1357	1360	1524	1527
1/4	28	205	208	378	382	519	520	696	699	863	866	1030	1033	1193	1196	1360	1363	1527	1530
1/2	29	208	212	382	385	520	522	699	702	866	869	1033	1036	1196	1199	1363	1366	1530	1533
3/4	30	212	216	385	389	522	524	702	705	869	872	1036	1039	1199	1202	1366	1369	1533	1536
1	31	216	219	389	392	524	526	705	708	872	875	1039	1042	1202	1205	1369	1372	1536	1539
1/4	32	219	223	392	396	526	528	708	711	875	878	1042	1045	1205	1208	1372	1375	1539	1542
1/2	33	223	227	396	399	528	530	711	714	878	881	1045	1048	1208	1211	1375	1378	1542	1545
3/4	34	227	230	399	402	530	531	714	717	881	884	1048	1051	1211	1214	1378	1381	1545	1548
1	35	230	234	402	406	531	533	717	720	884	887	1051	1054	1214	1217	1381	1384	1548	1551
1/4	36	234	237	406	409	533	534	720	723	887	890	1054	1057	1217	1220	1384	1387	1551	1554
1/2	37	237	241	409	412	534	535	723	726	890	893	1057	1060	1220	1223	1387	1390	1554	1557
3/4	38	241	245	412	416	535	537	726	729	893	896	1060	1063	1223	1226	1390	1393	1557	1560
1	39	245	248	416	419	537	538	729	732	896	899	1063	1066	1226	1229	1393	1396	1560	1563
1/4	40	248	252	419	422	538	539	732	735	899	902	1066	1069	1229	1232	1396	1399	1563	1566
1/2	41	252	256	422	425	539	539	735	738	902	905	1069	1072	1232	1235	1399	1402	1566	1569
3/4	42	256	259	425	429	539	540	738	741	905	908	1072	1075	1235	1238	1402	1405	1569	1572
1	43	259	263	429	432	540	541	741	744	908	911	1075	1078	1238	1241	1405	1408	1572	1575
1/4	44	263	267	432	435	541	541	744	747	911	914	1078	1081	1241	1244	1408	1411	1575	1578
1/2	45	267	270	435	438	541	541	747	750	914	917	1081	1084	1244	1247	1411	1414	1578	1581
3/4	46	270	274	438	441	541	541	750	753	917	920	1084	1087	1247	1250	1414	1417	1581	1584
1	47	274	277	441	444	541	541	753	756	920	923	1087	1090	1250	1253	1417	1420	1584	1587

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO 2" DIAMETER PIPE.

STRAPPED: 10/10/2014 SW
CALCULATED: 10/11/2014 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>

Paul J. Hume



BARGE INFL 443

PUR 3LUF
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-09 1/4"

	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	94	0	4,599	0	13,609	0	18,113	0	0	0
1/4	188	1/4	4,693	1/4	13,703	1/4	18,205	1/4	1/4	1/4
1/2	282	1/2	4,787	1/2	13,797	1/2	18,298	1/2	1/2	1/2
3/4	375	3/4	4,881	3/4	13,891	3/4	18,390	3/4	3/4	3/4
1	469	1	4,974	1	13,985	1	18,483	1	1	1
1/4	563	1/4	5,068	1/4	14,078	1/4	18,575	1/4	1/4	1/4
1/2	657	1/2	5,162	1/2	14,172	1/2	18,668	1/2	1/2	1/2
3/4	751	3/4	5,256	3/4	14,266	3/4	18,760	3/4	3/4	3/4
2	845	2	5,350	2	14,360	2	18,852	2	2	2
1/4	939	1/4	5,444	1/4	14,454	1/4	18,945	1/4	1/4	1/4
1/2	1,032	1/2	5,538	1/2	14,548	1/2	19,037	1/2	1/2	1/2
3/4	1,126	3/4	5,631	3/4	14,642	3/4	19,130	3/4	3/4	3/4
3	1,220	3	5,725	3	14,735	3	19,222	3	3	3
1/4	1,314	1/4	5,819	1/4	14,829	1/4	19,315	1/4	1/4	1/4
1/2	1,408	1/2	5,913	1/2	14,923	1/2	19,407	1/2	1/2	1/2
3/4	1,502	3/4	6,007	3/4	15,017	3/4	19,500	3/4	3/4	3/4
4	1,596	4	6,101	4	15,111	4	19,592	4	4	4
1/4	1,689	1/4	6,195	1/4	15,205	1/4	19,684	1/4	1/4	1/4
1/2	1,783	1/2	6,288	1/2	15,299	1/2	19,777	1/2	1/2	1/2
3/4	1,877	3/4	6,382	3/4	15,392	3/4	19,869	3/4	3/4	3/4
5	1,971	5	6,476	5	15,486	5	19,962	5	5	5
1/4	2,065	1/4	6,570	1/4	15,580	1/4	20,054	1/4	1/4	1/4
1/2	2,159	1/2	6,664	1/2	15,674	1/2	20,147	1/2	1/2	1/2
3/4	2,253	3/4	6,758	3/4	15,768	3/4	20,239	3/4	3/4	3/4
6	2,346	6	6,852	6	15,862	6	20,333	6	6	6
1/4	2,440	1/4	6,945	1/4	15,956	1/4	20,426	1/4	1/4	1/4
1/2	2,534	1/2	7,039	1/2	16,049	1/2	20,519	1/2	1/2	1/2
3/4	2,628	3/4	7,133	3/4	16,143	3/4	20,612	3/4	3/4	3/4
7	2,722	7	7,227	7	16,237	7	20,705	7	7	7
1/4	2,816	1/4	7,321	1/4	16,331	1/4	20,798	1/4	1/4	1/4
1/2	2,910	1/2	7,415	1/2	16,425	1/2	20,891	1/2	1/2	1/2
3/4	3,003	3/4	7,509	3/4	16,519	3/4	20,984	3/4	3/4	3/4
8	3,097	8	7,602	8	16,613	8	21,077	8	8	8
1/4	3,191	1/4	7,696	1/4	16,706	1/4	21,170	1/4	1/4	1/4
1/2	3,285	1/2	7,790	1/2	16,800	1/2	21,263	1/2	1/2	1/2
3/4	3,379	3/4	7,884	3/4	16,894	3/4	21,356	3/4	3/4	3/4
9	3,473	9	7,978	9	16,988	9	21,449	9	9	9
1/4	3,567	1/4	8,072	1/4	17,082	1/4	21,542	1/4	1/4	1/4
1/2	3,660	1/2	8,166	1/2	17,176	1/2	21,635	1/2	1/2	1/2
3/4	3,754	3/4	8,259	3/4	17,270	3/4	21,728	3/4	3/4	3/4
10	3,848	10	8,353	10	17,363	10	21,821	10	10	10
1/4	3,942	1/4	8,447	1/4	17,457	1/4	21,914	1/4	1/4	1/4
1/2	4,036	1/2	8,541	1/2	17,551	1/2	22,007	1/2	1/2	1/2
3/4	4,130	3/4	8,635	3/4	17,645	3/4	22,100	3/4	3/4	3/4
11	4,224	11	8,729	11	17,739	11	22,193	11	11	11
1/4	4,317	1/4	8,823	1/4	17,833	1/4	22,286	1/4	1/4	1/4
1/2	4,411	1/2	8,916	1/2	17,927	1/2	22,379	1/2	1/2	1/2
3/4	4,505	3/4	9,010	3/4	18,020	3/4	22,472	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE.

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PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>

Paul J. Mac



BARGE NFL 423

INNAE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-09 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	94	0	4,599	0	9,104	0	13,609	0	18,113	0		0		0		0		0	
1/4	188	1/4	4,693	1/4	9,198	1/4	13,703	1/4	18,205	1/4		1/4		1/4		1/4		1/4	
1/2	282	1/2	4,787	1/2	9,292	1/2	13,797	1/2	18,298	1/2		1/2		1/2		1/2		1/2	
3/4	375	3/4	4,881	3/4	9,386	3/4	13,891	3/4	18,390	3/4		3/4		3/4		3/4		3/4	
1	469	1	4,974	1	9,480	1	13,985	1	18,483	1		1		1		1		1	
1/4	563	1/4	5,068	1/4	9,573	1/4	14,078	1/4	18,575	1/4		1/4		1/4		1/4		1/4	
1/2	657	1/2	5,162	1/2	9,667	1/2	14,172	1/2	18,668	1/2		1/2		1/2		1/2		1/2	
3/4	751	3/4	5,256	3/4	9,761	3/4	14,266	3/4	18,760	3/4		3/4		3/4		3/4		3/4	
2	845	2	5,350	2	9,855	2	14,360	2	18,852	2		2		2		2		2	
1/4	939	1/4	5,444	1/4	9,949	1/4	14,454	1/4	18,945	1/4		1/4		1/4		1/4		1/4	
1/2	1,032	1/2	5,538	1/2	10,043	1/2	14,548	1/2	19,037	1/2		1/2		1/2		1/2		1/2	
3/4	1,126	3/4	5,631	3/4	10,137	3/4	14,642	3/4	19,130	3/4		3/4		3/4		3/4		3/4	
3	1,220	3	5,725	3	10,230	3	14,735	3	19,222	3		3		3		3		3	
1/4	1,314	1/4	5,819	1/4	10,324	1/4	14,829	1/4	19,315	1/4		1/4		1/4		1/4		1/4	
1/2	1,408	1/2	5,913	1/2	10,418	1/2	14,923	1/2	19,407	1/2		1/2		1/2		1/2		1/2	
3/4	1,502	3/4	6,007	3/4	10,512	3/4	15,017	3/4	19,500	3/4		3/4		3/4		3/4		3/4	
4	1,596	4	6,101	4	10,606	4	15,111	4	19,592	4		4		4		4		4	
1/4	1,689	1/4	6,195	1/4	10,700	1/4	15,205	1/4	19,684	1/4		1/4		1/4		1/4		1/4	
1/2	1,783	1/2	6,288	1/2	10,794	1/2	15,299	1/2	19,777	1/2		1/2		1/2		1/2		1/2	
3/4	1,877	3/4	6,382	3/4	10,887	3/4	15,392	3/4	19,869	3/4		3/4		3/4		3/4		3/4	
5	1,971	5	6,476	5	10,981	5	15,486	5	19,962	5		5		5		5		5	
1/4	2,065	1/4	6,570	1/4	11,075	1/4	15,580	1/4	20,054	1/4		1/4		1/4		1/4		1/4	
1/2	2,159	1/2	6,664	1/2	11,169	1/2	15,674	1/2	20,147	1/2		1/2		1/2		1/2		1/2	
3/4	2,253	3/4	6,758	3/4	11,263	3/4	15,768	3/4	20,239	3/4		3/4		3/4		3/4		3/4	
6	2,346	6	6,852	6	11,357	6	15,862	6	20,333	6		6		6		6		6	
1/4	2,440	1/4	6,945	1/4	11,451	1/4	15,956	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,534	1/2	7,039	1/2	11,544	1/2	16,049	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,628	3/4	7,133	3/4	11,638	3/4	16,143	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,722	7	7,227	7	11,732	7	16,237	7		7		7		7		7		7	
1/4	2,816	1/4	7,321	1/4	11,826	1/4	16,331	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,910	1/2	7,415	1/2	11,920	1/2	16,425	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,003	3/4	7,509	3/4	12,014	3/4	16,519	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,097	8	7,602	8	12,107	8	16,613	8		8		8		8		8		8	
1/4	3,191	1/4	7,696	1/4	12,201	1/4	16,706	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,285	1/2	7,790	1/2	12,295	1/2	16,800	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,379	3/4	7,884	3/4	12,389	3/4	16,894	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,473	9	7,978	9	12,483	9	16,988	9		9		9		9		9		9	
1/4	3,567	1/4	8,072	1/4	12,577	1/4	17,082	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,660	1/2	8,166	1/2	12,671	1/2	17,176	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,754	3/4	8,259	3/4	12,764	3/4	17,270	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,848	10	8,353	10	12,858	10	17,363	10		10		10		10		10		10	
1/4	3,942	1/4	8,447	1/4	12,952	1/4	17,457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,036	1/2	8,541	1/2	13,046	1/2	17,551	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,130	3/4	8,635	3/4	13,140	3/4	17,645	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,224	11	8,729	11	13,234	11	17,739	11		11		11		11		11		11	
1/4	4,317	1/4	8,823	1/4	13,328	1/4	17,833	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,411	1/2	8,916	1/2	13,421	1/2	17,927	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,505	3/4	9,010	3/4	13,515	3/4	18,020	3/4		3/4		3/4		3/4		3/4		3/4	

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Paul J. Hume