



# BARGE "NGL 3022"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
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	- 00-0/8	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
3 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

(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 2 PORT IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

May 7, 2019

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "NGL 3022"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	204,231	0	189,317	0	174,335	0	159,316	0	144,298	0	129,280	0	114,262	0	99,239
1/4	1/4	1/4	1/4	1/4	203,921	1/4	189,005	1/4	174,022	1/4	159,004	1/4	143,985	1/4	128,967	1/4	113,949	1/4	98,926
1/2	1/2	1/2	1/2	1/2	203,611	1/2	188,693	1/2	173,709	1/2	158,691	1/2	143,672	1/2	128,654	1/2	113,636	1/2	98,613
3/4	3/4	3/4	3/4	3/4	203,302	3/4	188,381	3/4	173,396	3/4	158,378	3/4	143,360	3/4	128,341	3/4	113,323	3/4	98,300
1	1	1	1	1	202,992	1	188,069	1	173,083	1	158,065	1	143,047	1	128,029	1	113,010	1	97,987
1/4	1/4	1/4	1/4	1/4	202,682	1/4	187,757	1/4	172,770	1/4	157,752	1/4	142,734	1/4	127,716	1/4	112,697	1/4	97,674
1/2	1/2	1/2	1/2	1/2	202,372	1/2	187,445	1/2	172,457	1/2	157,439	1/2	142,421	1/2	127,403	1/2	112,385	1/2	97,361
3/4	3/4	3/4	3/4	3/4	202,062	3/4	187,133	3/4	172,144	3/4	157,126	3/4	142,108	3/4	127,090	3/4	112,072	3/4	97,048
2	2	2	2	2	201,753	2	186,821	2	171,832	2	156,813	2	141,795	2	126,777	2	111,759	2	96,735
1/4	1/4	1/4	1/4	1/4	201,443	1/4	186,509	1/4	171,519	1/4	156,500	1/4	141,482	1/4	126,464	1/4	111,446	1/4	96,422
1/2	1/2	1/2	1/2	1/2	201,133	1/2	186,197	1/2	171,206	1/2	156,188	1/2	141,169	1/2	126,151	1/2	111,133	1/2	96,109
3/4	3/4	3/4	3/4	3/4	200,823	3/4	185,885	3/4	170,893	3/4	155,875	3/4	140,857	3/4	125,838	3/4	110,820	3/4	95,796
3	3	3	3	3	200,514	3	185,573	3	170,580	3	155,562	3	140,544	3	125,525	3	110,507	3	95,483
1/4	1/4	1/4	1/4	1/4	200,204	1/4	185,261	1/4	170,267	1/4	155,249	1/4	140,231	1/4	125,213	1/4	110,194	1/4	95,170
1/2	1/2	1/2	1/2	1/2	199,894	1/2	184,949	1/2	169,954	1/2	154,936	1/2	139,918	1/2	124,900	1/2	109,882	1/2	94,857
3/4	3/4	3/4	3/4	3/4	199,584	3/4	184,637	3/4	169,641	3/4	154,623	3/4	139,605	3/4	124,587	3/4	109,569	3/4	94,544
4	4	4	4	4	199,274	4	184,325	4	169,329	4	154,310	4	139,292	4	124,274	4	109,256	4	94,231
1/4	1/4	1/4	1/4	1/4	198,965	1/4	184,013	1/4	169,016	1/4	153,997	1/4	138,979	1/4	123,961	1/4	108,943	1/4	93,918
1/2	1/2	1/2	1/2	1/2	198,655	1/2	183,701	1/2	168,703	1/2	153,685	1/2	138,666	1/2	123,648	1/2	108,630	1/2	93,605
3/4	3/4	3/4	3/4	3/4	198,345	3/4	183,389	3/4	168,390	3/4	153,372	3/4	138,354	3/4	123,335	3/4	108,317	3/4	93,292
5	5	5	5	5	198,035	5	183,077	5	168,077	5	153,059	5	138,041	5	123,022	5	108,004	5	92,979
1/4	1/4	1/4	1/4	1/4	197,726	1/4	182,765	1/4	167,764	1/4	152,746	1/4	137,728	1/4	122,710	1/4	107,691	1/4	92,666
1/2	1/2	1/2	1/2	1/2	197,416	1/2	182,453	1/2	167,451	1/2	152,433	1/2	137,415	1/2	122,397	1/2	107,378	1/2	92,353
3/4	3/4	3/4	3/4	3/4	197,106	3/4	182,142	3/4	167,138	3/4	152,120	3/4	137,102	3/4	122,084	3/4	107,065	3/4	92,040
6	6	6	6	6	196,796	6	181,830	6	166,825	6	151,807	6	136,789	6	121,771	6	106,752	6	91,727
1/4	1/4	210,714	1/4	196,486	1/4	181,518	1/4	166,513	1/4	151,494	1/4	136,476	1/4	121,458	1/4	106,439	1/4	91,413	
1/2	1/2	210,499	1/2	196,176	1/2	181,206	1/2	166,200	1/2	151,182	1/2	136,163	1/2	121,145	1/2	106,126	1/2	91,100	
3/4	3/4	210,284	3/4	195,865	3/4	180,894	3/4	165,887	3/4	150,869	3/4	135,850	3/4	120,832	3/4	105,813	3/4	90,787	
7	7	210,069	7	195,555	7	180,582	7	165,574	7	150,556	7	135,538	7	120,519	7	105,500	7	90,474	
1/4	1/4	209,854	1/4	195,244	1/4	180,270	1/4	165,261	1/4	150,243	1/4	135,225	1/4	120,207	1/4	105,187	1/4	90,161	
1/2	1/2	209,595	1/2	194,932	1/2	179,958	1/2	164,948	1/2	149,930	1/2	134,912	1/2	119,894	1/2	104,874	1/2	89,848	
3/4	3/4	209,335	3/4	194,620	3/4	179,646	3/4	164,635	3/4	149,617	3/4	134,599	3/4	119,581	3/4	104,561	3/4	89,535	
8	8	209,076	8	194,308	8	179,334	8	164,322	8	149,304	8	134,286	8	119,268	8	104,248	8	89,222	
1/4	1/4	208,816	1/4	193,996	1/4	179,022	1/4	164,010	1/4	148,991	1/4	133,973	1/4	118,955	1/4	103,935	1/4	88,909	
1/2	1/2	208,521	1/2	193,684	1/2	178,710	1/2	163,697	1/2	148,679	1/2	133,660	1/2	118,642	1/2	103,622	1/2	88,596	
3/4	3/4	208,225	3/4	193,372	3/4	178,398	3/4	163,384	3/4	148,366	3/4	133,347	3/4	118,329	3/4	103,309	3/4	88,283	
9	9	207,930	9	193,060	9	178,086	9	163,071	9	148,053	9	133,035	9	118,016	9	102,996	9	87,970	
1/4	1/4	207,635	1/4	192,748	1/4	177,774	1/4	162,758	1/4	147,740	1/4	132,722	1/4	117,703	1/4	102,683	1/4	87,657	
1/2	1/2	207,326	1/2	192,436	1/2	177,462	1/2	162,445	1/2	147,427	1/2	132,409	1/2	117,391	1/2	102,370	1/2	87,344	
3/4	3/4	207,017	3/4	192,124	3/4	177,149	3/4	162,132	3/4	147,114	3/4	132,096	3/4	117,078	3/4	102,057	3/4	87,031	
10	10	206,708	10	191,812	10	176,837	10	161,819	10	146,801	10	131,783	10	116,765	10	101,744	10	86,718	
1/4	1/4	206,399	1/4	191,500	1/4	176,525	1/4	161,507	1/4	146,488	1/4	131,470	1/4	116,452	1/4	101,431	1/4	86,405	
1/2	1/2	206,089	1/2	191,189	1/2	176,212	1/2	161,194	1/2	146,175	1/2	131,157	1/2	116,139	1/2	101,117	1/2	86,092	
3/4	3/4	205,780	3/4	190,877	3/4	175,899	3/4	160,881	3/4	145,863	3/4	130,844	3/4	115,826	3/4	100,804	3/4	85,779	
11	11	205,470	11	190,565	11	175,586	11	160,568	11	145,550	11	130,532	11	115,513	11	100,491	11	85,466	
1/4	1/4	205,161	1/4	190,253	1/4	175,273	1/4	160,255	1/4	145,237	1/4	130,219	1/4	115,200	1/4	100,178	1/4	85,153	
1/2	1/2	204,851	1/2	189,941	1/2	174,960	1/2	159,942	1/2	144,924	1/2	129,906	1/2	114,888	1/2	99,865	1/2	84,840	
3/4	3/4	204,541	3/4	189,629	3/4	174,647	3/4	159,629	3/4	144,611	3/4	129,593	3/4	114,575	3/4	99,552	3/4	84,527	

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 ULLAGE GAUGES TAKEN TO THREADS ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD

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# BARGE "NGL 3022"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	84,214	0	69,203	0	54,184	0	39,159	0	24,134	0	9,794	0		0		0		0	
1/4	83,901	1/4	68,890	1/4	53,871	1/4	38,846	1/4	23,821	1/4	9,515	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,588	1/2	68,578	1/2	53,558	1/2	38,533	1/2	23,508	1/2	9,240	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,275	3/4	68,265	3/4	53,245	3/4	38,220	3/4	23,195	3/4	8,965	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	82,962	1	67,953	1	52,932	1	37,907	1	22,882	1	8,691	1	1	1	1	1	1	1	1
1/4	82,649	1/4	67,640	1/4	52,619	1/4	37,594	1/4	22,569	1/4	8,416	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,336	1/2	67,328	1/2	52,306	1/2	37,281	1/2	22,257	1/2	8,144	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	82,023	3/4	67,015	3/4	51,993	3/4	36,968	3/4	21,944	3/4	7,873	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	81,710	2	66,703	2	51,680	2	36,655	2	21,631	2	7,602	2	2	2	2	2	2	2	2
1/4	81,396	1/4	66,390	1/4	51,367	1/4	36,342	1/4	21,319	1/4	7,330	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,083	1/2	66,078	1/2	51,054	1/2	36,029	1/2	21,007	1/2	7,063	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,770	3/4	65,765	3/4	50,741	3/4	35,716	3/4	20,696	3/4	6,795	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	80,457	3	65,452	3	50,428	3	35,403	3	20,385	3	6,528	3	3	3	3	3	3	3	3
1/4	80,144	1/4	65,140	1/4	50,115	1/4	35,090	1/4	20,074	1/4	6,260	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,831	1/2	64,827	1/2	49,802	1/2	34,777	1/2	19,766	1/2	5,996	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,518	3/4	64,514	3/4	49,489	3/4	34,464	3/4	19,458	3/4	5,732	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	79,205	4	64,201	4	49,176	4	34,151	4	19,150	4	5,468	4	4	4	4	4	4	4	4
1/4	78,892	1/4	63,888	1/4	48,863	1/4	33,838	1/4	18,842	1/4	5,204	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,579	1/2	63,575	1/2	48,550	1/2	33,525	1/2	18,538	1/2	4,944	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,266	3/4	63,262	3/4	48,237	3/4	33,212	3/4	18,234	3/4	4,684	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	77,953	5	62,949	5	47,924	5	32,899	5	17,929	5	4,423	5	5	5	5	5	5	5	5
1/4	77,640	1/4	62,636	1/4	47,611	1/4	32,586	1/4	17,625	1/4	4,163	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,328	1/2	62,323	1/2	47,298	1/2	32,273	1/2	17,324	1/2	3,907	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,015	3/4	62,010	3/4	46,985	3/4	31,960	3/4	17,024	3/4	3,650	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	76,702	6	61,697	6	46,672	6	31,647	6	16,723	6	3,394	6	6	6	6	6	6	6	6
1/4	76,389	1/4	61,384	1/4	46,359	1/4	31,334	1/4	16,423	1/4	3,138	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,077	1/2	61,071	1/2	46,046	1/2	31,021	1/2	16,126	1/2	2,885	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,764	3/4	60,758	3/4	45,733	3/4	30,708	3/4	15,829	3/4	2,633	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	75,452	7	60,445	7	45,420	7	30,395	7	15,532	7	2,381	7	7	7	7	7	7	7	7
1/4	75,139	1/4	60,132	1/4	45,107	1/4	30,082	1/4	15,235	1/4	2,129	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,827	1/2	59,819	1/2	44,794	1/2	29,769	1/2	14,941	1/2	1,901	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,514	3/4	59,506	3/4	44,481	3/4	29,456	3/4	14,648	3/4	1,672	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	74,202	8	59,193	8	44,168	8	29,143	8	14,355	8	1,443	8	8	8	8	8	8	8	8
1/4	73,889	1/4	58,880	1/4	43,855	1/4	28,830	1/4	14,061	1/4	1,214	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,577	1/2	58,567	1/2	43,542	1/2	28,517	1/2	13,772	1/2	1,047	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,265	3/4	58,254	3/4	43,229	3/4	28,204	3/4	13,482	3/4	879	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	72,952	9	57,941	9	42,916	9	27,891	9	13,193	9	711	9	9	9	9	9	9	9	9
1/4	72,640	1/4	57,628	1/4	42,603	1/4	27,578	1/4	12,903	1/4	544	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,327	1/2	57,315	1/2	42,290	1/2	27,265	1/2	12,617	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,015	3/4	57,002	3/4	41,977	3/4	26,952	3/4	12,331	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	71,702	10	56,689	10	41,664	10	26,639	10	12,045	10		10	10	10	10	10	10	10	10
1/4	71,390	1/4	56,376	1/4	41,351	1/4	26,325	1/4	11,759	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,077	1/2	56,063	1/2	41,038	1/2	26,012	1/2	11,477	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,765	3/4	55,750	3/4	40,725	3/4	25,699	3/4	11,194	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	70,453	11	55,437	11	40,411	11	25,386	11	10,912	11		11	11	11	11	11	11	11	11
1/4	70,140	1/4	55,124	1/4	40,098	1/4	25,073	1/4	10,630	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,828	1/2	54,811	1/2	39,785	1/2	24,760	1/2	10,351	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,515	3/4	54,498	3/4	39,472	3/4	24,447	3/4	10,073	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/06/2019 CL  
CALCULATED: 05/07/2019 CL  
PRINTED: 05/07/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2019

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



# BARGE "NGL 3022"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	203,937	0	189,038	0	174,072	0	159,069	0	144,067	0	129,065	0	114,062	0	99,055		
1/4	1/4	1/4	203,627	1/4	188,727	1/4	173,759	1/4	158,757	1/4	143,754	1/4	128,752	1/4	113,750	1/4	98,743		
1/2	1/2	1/2	203,318	1/2	188,415	1/2	173,447	1/2	158,444	1/2	143,442	1/2	128,440	1/2	113,437	1/2	98,430		
3/4	3/4	3/4	203,008	3/4	188,103	3/4	173,134	3/4	158,132	3/4	143,129	3/4	128,127	3/4	113,125	3/4	98,117		
1	1	1	202,699	1	187,792	1	172,822	1	157,819	1	142,817	1	127,814	1	112,812	1	97,805		
1/4	1/4	1/4	202,389	1/4	187,480	1/4	172,509	1/4	157,507	1/4	142,504	1/4	127,502	1/4	112,499	1/4	97,492		
1/2	1/2	1/2	202,080	1/2	187,168	1/2	172,196	1/2	157,194	1/2	142,192	1/2	127,189	1/2	112,187	1/2	97,179		
3/4	3/4	3/4	201,771	3/4	186,857	3/4	171,884	3/4	156,882	3/4	141,879	3/4	126,877	3/4	111,874	3/4	96,867		
2	2	2	201,461	2	186,545	2	171,571	2	156,569	2	141,567	2	126,564	2	111,562	2	96,554		
1/4	1/4	1/4	201,152	1/4	186,233	1/4	171,259	1/4	156,256	1/4	141,254	1/4	126,252	1/4	111,249	1/4	96,241		
1/2	1/2	1/2	200,842	1/2	185,922	1/2	170,946	1/2	155,944	1/2	140,942	1/2	125,939	1/2	110,937	1/2	95,928		
3/4	3/4	3/4	200,533	3/4	185,610	3/4	170,634	3/4	155,631	3/4	140,629	3/4	125,627	3/4	110,624	3/4	95,616		
3	3	3	200,223	3	185,299	3	170,321	3	155,319	3	140,316	3	125,314	3	110,312	3	95,303		
1/4	1/4	1/4	199,914	1/4	184,987	1/4	170,009	1/4	155,006	1/4	140,004	1/4	125,001	1/4	109,999	1/4	94,990		
1/2	1/2	1/2	199,604	1/2	184,675	1/2	169,696	1/2	154,694	1/2	139,691	1/2	124,689	1/2	109,687	1/2	94,678		
3/4	3/4	3/4	199,295	3/4	184,364	3/4	169,384	3/4	154,381	3/4	139,379	3/4	124,376	3/4	109,374	3/4	94,365		
4	4	4	198,985	4	184,052	4	169,071	4	154,069	4	139,066	4	124,064	4	109,061	4	94,052		
1/4	1/4	1/4	198,676	1/4	183,740	1/4	168,758	1/4	153,756	1/4	138,754	1/4	123,751	1/4	108,749	1/4	93,740		
1/2	1/2	1/2	198,367	1/2	183,429	1/2	168,446	1/2	153,444	1/2	138,441	1/2	123,439	1/2	108,436	1/2	93,427		
3/4	3/4	3/4	198,057	3/4	183,117	3/4	168,133	3/4	153,131	3/4	138,129	3/4	123,126	3/4	108,124	3/4	93,114		
5	5	5	197,748	5	182,805	5	167,821	5	152,818	5	137,816	5	122,814	5	107,811	5	92,801		
1/4	1/4	1/4	197,438	1/4	182,494	1/4	167,508	1/4	152,506	1/4	137,503	1/4	122,501	1/4	107,498	1/4	92,489		
1/2	1/2	1/2	197,129	1/2	182,182	1/2	167,196	1/2	152,193	1/2	137,191	1/2	122,189	1/2	107,186	1/2	92,176		
3/4	3/4	3/4	196,819	3/4	181,870	3/4	166,883	3/4	151,881	3/4	136,878	3/4	121,876	3/4	106,873	3/4	91,863		
6	6	6	196,510	6	181,559	6	166,571	6	151,568	6	136,566	6	121,563	6	106,560	6	91,551		
1/4	1/4	210,413	196,200	1/4	181,247	1/4	166,258	1/4	151,256	1/4	136,253	1/4	121,251	1/4	106,248	1/4	91,238		
1/2	1/2	210,198	195,990	1/2	180,936	1/2	165,946	1/2	150,943	1/2	135,941	1/2	120,938	1/2	105,935	1/2	90,925		
3/4	3/4	209,984	195,580	3/4	180,624	3/4	165,633	3/4	150,631	3/4	135,628	3/4	120,626	3/4	105,622	3/4	90,613		
7	7	209,769	195,270	7	180,312	7	165,320	7	150,318	7	135,316	7	120,313	7	105,310	7	90,300		
1/4	1/4	209,554	194,959	1/4	180,001	1/4	165,008	1/4	150,005	1/4	135,003	1/4	120,001	1/4	104,997	1/4	89,987		
1/2	1/2	209,295	194,648	1/2	179,689	1/2	164,695	1/2	149,693	1/2	134,691	1/2	119,688	1/2	104,684	1/2	89,674		
3/4	3/4	209,036	194,336	3/4	179,377	3/4	164,383	3/4	149,380	3/4	134,378	3/4	119,376	3/4	104,371	3/4	89,362		
8	8	208,776	194,024	8	179,066	8	164,070	8	149,068	8	134,065	8	119,063	8	104,059	8	89,049		
1/4	1/4	208,517	193,713	1/4	178,754	1/4	163,758	1/4	148,755	1/4	133,753	1/4	118,750	1/4	103,746	1/4	88,736		
1/2	1/2	208,222	193,401	1/2	178,442	1/2	163,445	1/2	148,443	1/2	133,440	1/2	118,438	1/2	103,433	1/2	88,424		
3/4	3/4	207,927	193,089	3/4	178,131	3/4	163,133	3/4	148,130	3/4	133,128	3/4	118,125	3/4	103,121	3/4	88,111		
9	9	207,632	192,778	9	177,819	9	162,820	9	147,818	9	132,815	9	117,813	9	102,808	9	87,798		
1/4	1/4	207,337	192,466	1/4	177,508	1/4	162,507	1/4	147,505	1/4	132,503	1/4	117,500	1/4	102,495	1/4	87,486		
1/2	1/2	207,028	192,155	1/2	177,196	1/2	162,195	1/2	147,193	1/2	132,190	1/2	117,188	1/2	102,183	1/2	87,173		
3/4	3/4	206,720	191,843	3/4	176,884	3/4	161,882	3/4	146,880	3/4	131,878	3/4	116,875	3/4	101,870	3/4	86,860		
10	10	206,411	191,531	10	176,572	10	161,570	10	146,567	10	131,565	10	116,563	10	101,557	10	86,547		
1/4	1/4	206,103	191,220	1/4	176,260	1/4	161,257	1/4	146,255	1/4	131,252	1/4	116,250	1/4	101,244	1/4	86,235		
1/2	1/2	205,793	190,908	1/2	175,947	1/2	160,945	1/2	145,942	1/2	130,940	1/2	115,938	1/2	100,932	1/2	85,922		
3/4	3/4	205,484	190,596	3/4	175,635	3/4	160,632	3/4	145,630	3/4	130,627	3/4	115,625	3/4	100,619	3/4	85,609		
11	11	205,175	190,285	11	175,322	11	160,320	11	145,317	11	130,315	11	115,312	11	100,306	11	85,297		
1/4	1/4	204,865	189,973	1/4	175,009	1/4	160,007	1/4	145,005	1/4	130,002	1/4	115,000	1/4	99,994	1/4	84,984		
1/2	1/2	204,556	189,661	1/2	174,697	1/2	159,695	1/2	144,692	1/2	129,690	1/2	114,687	1/2	99,681	1/2	84,671		
3/4	3/4	204,246	189,350	3/4	174,384	3/4	159,382	3/4	144,380	3/4	129,377	3/4	114,375	3/4	99,368	3/4	84,358		

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 ULLAGE GAUGES TAKEN TO THREADS ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "NGL 3022"

**1 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

**GAUGE HEIGHT 15'-09 1/4"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	84,046	0	69,100	0	54,127	0	39,118	0	24,109	0	9,784	0		0		0		0	
1/4	83,733	1/4	68,789	1/4	53,815	1/4	38,806	1/4	23,796	1/4	9,505	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,420	1/2	68,479	1/2	53,502	1/2	38,493	1/2	23,484	1/2	9,231	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,108	3/4	68,169	3/4	53,189	3/4	38,180	3/4	23,171	3/4	8,956	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	82,795	1	67,858	1	52,877	1	37,867	1	22,858	1	8,681	1	1	1	1	1	1	1	1
1/4	82,482	1/4	67,548	1/4	52,564	1/4	37,555	1/4	22,545	1/4	8,407	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,170	1/2	67,238	1/2	52,251	1/2	37,242	1/2	22,233	1/2	8,136	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,857	3/4	66,927	3/4	51,939	3/4	36,929	3/4	21,921	3/4	7,865	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	81,544	2	66,617	2	51,626	2	36,617	2	21,608	2	7,594	2	2	2	2	2	2	2	2
1/4	81,231	1/4	66,307	1/4	51,313	1/4	36,304	1/4	21,296	1/4	7,323	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,919	1/2	65,996	1/2	51,001	1/2	35,991	1/2	20,985	1/2	7,055	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,606	3/4	65,685	3/4	50,688	3/4	35,679	3/4	20,675	3/4	6,788	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	80,293	3	65,374	3	50,375	3	35,366	3	20,364	3	6,521	3	3	3	3	3	3	3	3
1/4	79,981	1/4	65,063	1/4	50,062	1/4	35,053	1/4	20,053	1/4	6,253	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,668	1/2	64,751	1/2	49,750	1/2	34,741	1/2	19,745	1/2	5,990	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,355	3/4	64,440	3/4	49,437	3/4	34,428	3/4	19,438	3/4	5,726	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	79,043	4	64,128	4	49,124	4	34,115	4	19,130	4	5,462	4	4	4	4	4	4	4	4
1/4	78,730	1/4	63,817	1/4	48,812	1/4	33,802	1/4	18,822	1/4	5,199	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,418	1/2	63,505	1/2	48,499	1/2	33,490	1/2	18,518	1/2	4,939	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,106	3/4	63,193	3/4	48,186	3/4	33,177	3/4	18,215	3/4	4,679	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	77,793	5	62,881	5	47,874	5	32,864	5	17,911	5	4,419	5	5	5	5	5	5	5	5
1/4	77,481	1/4	62,569	1/4	47,561	1/4	32,552	1/4	17,607	1/4	4,159	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,170	1/2	62,257	1/2	47,248	1/2	32,239	1/2	17,306	1/2	3,903	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,859	3/4	61,944	3/4	46,936	3/4	31,926	3/4	17,006	3/4	3,647	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	76,548	6	61,632	6	46,623	6	31,614	6	16,706	6	3,390	6	6	6	6	6	6	6	6
1/4	76,238	1/4	61,319	1/4	46,310	1/4	31,301	1/4	16,405	1/4	3,134	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,927	1/2	61,007	1/2	45,997	1/2	30,988	1/2	16,109	1/2	2,882	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,617	3/4	60,694	3/4	45,685	3/4	30,675	3/4	15,812	3/4	2,631	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	75,306	7	60,381	7	45,372	7	30,363	7	15,515	7	2,379	7	7	7	7	7	7	7	7
1/4	74,996	1/4	60,069	1/4	45,059	1/4	30,050	1/4	15,219	1/4	2,127	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,686	1/2	59,756	1/2	44,747	1/2	29,737	1/2	14,926	1/2	1,899	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,375	3/4	59,443	3/4	44,434	3/4	29,425	3/4	14,633	3/4	1,670	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	74,065	8	59,131	8	44,121	8	29,112	8	14,340	8	1,442	8	8	8	8	8	8	8	8
1/4	73,755	1/4	58,818	1/4	43,809	1/4	28,799	1/4	14,047	1/4	1,213	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,444	1/2	58,505	1/2	43,496	1/2	28,487	1/2	13,757	1/2	1,046	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,134	3/4	58,193	3/4	43,183	3/4	28,174	3/4	13,468	3/4	878	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	72,824	9	57,880	9	42,871	9	27,861	9	13,179	9	711	9	9	9	9	9	9	9	9
1/4	72,513	1/4	57,567	1/4	42,558	1/4	27,549	1/4	12,889	1/4	543	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,203	1/2	57,254	1/2	42,245	1/2	27,236	1/2	12,604	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,893	3/4	56,942	3/4	41,932	3/4	26,923	3/4	12,318	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	71,582	10	56,629	10	41,620	10	26,610	10	12,032	10		10	10	10	10	10	10	10	10
1/4	71,272	1/4	56,316	1/4	41,307	1/4	26,298	1/4	11,747	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,962	1/2	56,004	1/2	40,994	1/2	25,985	1/2	11,465	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,651	3/4	55,691	3/4	40,682	3/4	25,672	3/4	11,183	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	70,341	11	55,378	11	40,369	11	25,360	11	10,901	11		11	11	11	11	11	11	11	11
1/4	70,031	1/4	55,066	1/4	40,056	1/4	25,047	1/4	10,619	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,720	1/2	54,753	1/2	39,744	1/2	24,734	1/2	10,340	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,410	3/4	54,440	3/4	39,431	3/4	24,422	3/4	10,062	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/06/2019 CL  
CALCULATED: 05/07/2019 CL  
PRINTED: 05/07/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2019

PRECISION MEASUREMENT  
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P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "NGL 3022"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	207,400	0	192,448	0	177,428	0	162,372	0	147,316	0	132,260	0	117,204	0	102,144		
1/4		1/4	207,090	1/4	192,135	1/4	177,114	1/4	162,058	1/4	147,003	1/4	131,947	1/4	116,891	1/4	101,830		
1/2		1/2	206,779	1/2	191,823	1/2	176,801	1/2	161,745	1/2	146,689	1/2	131,633	1/2	116,577	1/2	101,516		
3/4		3/4	206,468	3/4	191,510	3/4	176,487	3/4	161,431	3/4	146,375	3/4	131,319	3/4	116,263	3/4	101,203		
1	1	1	206,158	1	191,197	1	176,173	1	161,117	1	146,062	1	131,006	1	115,950	1	100,889		
1/4		1/4	205,847	1/4	190,884	1/4	175,860	1/4	160,804	1/4	145,748	1/4	130,692	1/4	115,636	1/4	100,575		
1/2		1/2	205,537	1/2	190,572	1/2	175,546	1/2	160,490	1/2	145,434	1/2	130,378	1/2	115,322	1/2	100,261		
3/4		3/4	205,226	3/4	190,259	3/4	175,232	3/4	160,176	3/4	145,121	3/4	130,065	3/4	115,009	3/4	99,947		
2	2	2	204,916	2	189,946	2	174,919	2	159,863	2	144,807	2	129,751	2	114,695	2	99,634		
1/4		1/4	204,605	1/4	189,633	1/4	174,605	1/4	159,549	1/4	144,493	1/4	129,437	1/4	114,381	1/4	99,320		
1/2		1/2	204,294	1/2	189,320	1/2	174,291	1/2	159,236	1/2	144,180	1/2	129,124	1/2	114,068	1/2	99,006		
3/4		3/4	203,984	3/4	189,008	3/4	173,978	3/4	158,922	3/4	143,866	3/4	128,810	3/4	113,754	3/4	98,692		
3	3	3	203,673	3	188,695	3	173,664	3	158,608	3	143,552	3	128,496	3	113,440	3	98,378		
1/4		1/4	203,363	1/4	188,382	1/4	173,350	1/4	158,295	1/4	143,239	1/4	128,183	1/4	113,127	1/4	98,064		
1/2		1/2	203,052	1/2	188,069	1/2	173,037	1/2	157,981	1/2	142,925	1/2	127,869	1/2	112,813	1/2	97,751		
3/4		3/4	202,742	3/4	187,757	3/4	172,723	3/4	157,667	3/4	142,611	3/4	127,555	3/4	112,499	3/4	97,437		
4	4	4	202,431	4	187,444	4	172,409	4	157,354	4	142,298	4	127,242	4	112,186	4	97,123		
1/4		1/4	202,120	1/4	187,131	1/4	172,096	1/4	157,040	1/4	141,984	1/4	126,928	1/4	111,872	1/4	96,809		
1/2		1/2	201,810	1/2	186,818	1/2	171,782	1/2	156,726	1/2	141,670	1/2	126,614	1/2	111,558	1/2	96,495		
3/4		3/4	201,499	3/4	186,506	3/4	171,468	3/4	156,413	3/4	141,357	3/4	126,301	3/4	111,245	3/4	96,182		
5	5	5	201,189	5	186,193	5	171,155	5	156,099	5	141,043	5	125,987	5	110,931	5	95,868		
1/4		1/4	200,878	1/4	185,880	1/4	170,841	1/4	155,785	1/4	140,729	1/4	125,673	1/4	110,617	1/4	95,554		
1/2		1/2	200,568	1/2	185,567	1/2	170,527	1/2	155,472	1/2	140,416	1/2	125,360	1/2	110,303	1/2	95,240		
3/4		3/4	200,257	3/4	185,255	3/4	170,214	3/4	155,158	3/4	140,102	3/4	125,046	3/4	109,990	3/4	94,926		
6	6	6	199,946	6	184,942	6	169,900	6	154,844	6	139,788	6	124,732	6	109,676	6	94,612		
1/4		1/4	213,900	1/4	199,636	1/4	184,629	1/4	169,586	1/4	154,531	1/4	139,475	1/4	124,419	1/4	109,362	1/4	94,299
1/2		1/2	213,684	1/2	199,325	1/2	184,316	1/2	169,273	1/2	154,217	1/2	139,161	1/2	124,105	1/2	109,048	1/2	93,985
3/4		3/4	213,469	3/4	199,013	3/4	184,004	3/4	168,959	3/4	153,903	3/4	138,847	3/4	123,791	3/4	108,734	3/4	93,671
7	7	7	213,253	7	198,702	7	183,691	7	168,645	7	153,590	7	138,534	7	123,478	7	108,420	7	93,357
1/4		1/4	213,038	1/4	198,390	1/4	183,378	1/4	168,332	1/4	153,276	1/4	138,220	1/4	123,164	1/4	108,107	1/4	93,043
1/2		1/2	212,778	1/2	198,078	1/2	183,065	1/2	168,018	1/2	152,962	1/2	137,906	1/2	122,850	1/2	107,793	1/2	92,730
3/4		3/4	212,517	3/4	197,765	3/4	182,753	3/4	167,704	3/4	152,649	3/4	137,593	3/4	122,537	3/4	107,479	3/4	92,416
8	8	8	212,257	8	197,452	8	182,440	8	167,391	8	152,335	8	137,279	8	122,223	8	107,165	8	92,102
1/4		1/4	211,997	1/4	197,139	1/4	182,127	1/4	167,077	1/4	152,021	1/4	136,965	1/4	121,909	1/4	106,851	1/4	91,788
1/2		1/2	211,701	1/2	196,827	1/2	181,814	1/2	166,763	1/2	151,708	1/2	136,652	1/2	121,596	1/2	106,538	1/2	91,474
3/4		3/4	211,405	3/4	196,514	3/4	181,502	3/4	166,450	3/4	151,394	3/4	136,338	3/4	121,282	3/4	106,224	3/4	91,160
9	9	9	211,108	9	196,201	9	181,189	9	166,136	9	151,080	9	136,024	9	120,968	9	105,910	9	90,847
1/4		1/4	210,812	1/4	195,888	1/4	180,876	1/4	165,822	1/4	150,767	1/4	135,711	1/4	120,655	1/4	105,596	1/4	90,533
1/2		1/2	210,503	1/2	195,576	1/2	180,563	1/2	165,509	1/2	150,453	1/2	135,397	1/2	120,341	1/2	105,282	1/2	90,219
3/4		3/4	210,193	3/4	195,263	3/4	180,250	3/4	165,195	3/4	150,139	3/4	135,083	3/4	120,027	3/4	104,968	3/4	89,905
10	10	10	209,883	10	194,950	10	179,937	10	164,881	10	149,826	10	134,770	10	119,714	10	104,655	10	89,591
1/4		1/4	209,574	1/4	194,637	1/4	179,624	1/4	164,568	1/4	149,512	1/4	134,456	1/4	119,400	1/4	104,341	1/4	89,278
1/2		1/2	209,263	1/2	194,325	1/2	179,310	1/2	164,254	1/2	149,198	1/2	134,142	1/2	119,086	1/2	104,027	1/2	88,964
3/4		3/4	208,953	3/4	194,012	3/4	178,996	3/4	163,940	3/4	148,885	3/4	133,829	3/4	118,773	3/4	103,713	3/4	88,650
11	11	11	208,642	11	193,699	11	178,683	11	163,627	11	148,571	11	133,515	11	118,459	11	103,399	11	88,336
1/4		1/4	208,332	1/4	193,386	1/4	178,369	1/4	163,313	1/4	148,257	1/4	133,201	1/4	118,145	1/4	103,086	1/4	88,022
1/2		1/2	208,021	1/2	193,074	1/2	178,055	1/2	162,999	1/2	147,944	1/2	132,888	1/2	117,832	1/2	102,772	1/2	87,708
3/4		3/4	207,711	3/4	192,761	3/4	177,742	3/4	162,686	3/4	147,630	3/4	132,574	3/4	117,518	3/4	102,458	3/4	87,395

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 ULLAGE GAUGES TAKEN TO THREADS ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "NGL 3022"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	86,767	1/4	71,704	1/4	56,641	1/4	41,592	1/4	26,537	1/4	11,474	1/4		1/4		1/4		1/4			
1/2	86,453	1/2	71,390	1/2	56,327	1/2	41,279	1/2	26,223	1/2	11,160	1/2		1/2		1/2		1/2			
3/4	86,139	3/4	71,076	3/4	56,013	3/4	40,965	3/4	25,909	3/4	10,846	3/4		3/4		3/4		3/4			
<b>1</b>	<b>85,826</b>	<b>1</b>	<b>70,762</b>	<b>1</b>	<b>55,699</b>	<b>1</b>	<b>40,652</b>	<b>1</b>	<b>25,595</b>	<b>1</b>	<b>10,533</b>	<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>			
1/4	85,512	1/4	70,448	1/4	55,385	1/4	40,339	1/4	25,282	1/4	10,219	1/4		1/4		1/4		1/4			
1/2	85,198	1/2	70,135	1/2	55,071	1/2	40,026	1/2	24,968	1/2	9,905	1/2		1/2		1/2		1/2			
3/4	84,884	3/4	69,821	3/4	54,758	3/4	39,712	3/4	24,654	3/4	9,591	3/4		3/4		3/4		3/4			
<b>2</b>	<b>84,570</b>	<b>2</b>	<b>69,507</b>	<b>2</b>	<b>54,444</b>	<b>2</b>	<b>39,399</b>	<b>2</b>	<b>24,340</b>	<b>2</b>	<b>9,277</b>	<b>2</b>		<b>2</b>		<b>2</b>		<b>2</b>			
1/4	84,256	1/4	69,193	1/4	54,130	1/4	39,086	1/4	24,026	1/4	8,964	1/4		1/4		1/4		1/4			
1/2	83,943	1/2	68,879	1/2	53,816	1/2	38,773	1/2	23,713	1/2	8,650	1/2		1/2		1/2		1/2			
3/4	83,629	3/4	68,566	3/4	53,502	3/4	38,459	3/4	23,399	3/4	8,336	3/4		3/4		3/4		3/4			
<b>3</b>	<b>83,315</b>	<b>3</b>	<b>68,252</b>	<b>3</b>	<b>53,189</b>	<b>3</b>	<b>38,146</b>	<b>3</b>	<b>23,085</b>	<b>3</b>	<b>8,022</b>	<b>3</b>		<b>3</b>		<b>3</b>		<b>3</b>			
1/4	83,001	1/4	67,938	1/4	52,875	1/4	37,833	1/4	22,771	1/4	7,708	1/4		1/4		1/4		1/4			
1/2	82,687	1/2	67,624	1/2	52,561	1/2	37,519	1/2	22,457	1/2	7,395	1/2		1/2		1/2		1/2			
3/4	82,374	3/4	67,310	3/4	52,247	3/4	37,206	3/4	22,144	3/4	7,081	3/4		3/4		3/4		3/4			
<b>4</b>	<b>82,060</b>	<b>4</b>	<b>66,996</b>	<b>4</b>	<b>51,933</b>	<b>4</b>	<b>36,892</b>	<b>4</b>	<b>21,830</b>	<b>4</b>	<b>6,767</b>	<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>			
1/4	81,746	1/4	66,683	1/4	51,619	1/4	36,579	1/4	21,516	1/4	6,453	1/4		1/4		1/4		1/4			
1/2	81,432	1/2	66,369	1/2	51,306	1/2	36,265	1/2	21,202	1/2	6,139	1/2		1/2		1/2		1/2			
3/4	81,118	3/4	66,055	3/4	50,992	3/4	35,951	3/4	20,888	3/4	5,826	3/4		3/4		3/4		3/4			
<b>5</b>	<b>80,804</b>	<b>5</b>	<b>65,741</b>	<b>5</b>	<b>50,678</b>	<b>5</b>	<b>35,637</b>	<b>5</b>	<b>20,574</b>	<b>5</b>	<b>5,512</b>	<b>5</b>		<b>5</b>		<b>5</b>		<b>5</b>			
1/4	80,491	1/4	65,427	1/4	50,364	1/4	35,323	1/4	20,261	1/4	5,198	1/4		1/4		1/4		1/4			
1/2	80,177	1/2	65,114	1/2	50,051	1/2	35,010	1/2	19,947	1/2	4,884	1/2		1/2		1/2		1/2			
3/4	79,863	3/4	64,800	3/4	49,737	3/4	34,696	3/4	19,633	3/4	4,571	3/4		3/4		3/4		3/4			
<b>6</b>	<b>79,549</b>	<b>6</b>	<b>64,486</b>	<b>6</b>	<b>49,423</b>	<b>6</b>	<b>34,382</b>	<b>6</b>	<b>19,319</b>	<b>6</b>	<b>4,257</b>	<b>6</b>		<b>6</b>		<b>6</b>		<b>6</b>			
1/4	79,235	1/4	64,172	1/4	49,110	1/4	34,068	1/4	19,005	1/4	3,944	1/4		1/4		1/4		1/4			
1/2	78,922	1/2	63,858	1/2	48,796	1/2	33,754	1/2	18,692	1/2	3,631	1/2		1/2		1/2		1/2			
3/4	78,608	3/4	63,545	3/4	48,483	3/4	33,441	3/4	18,378	3/4	3,318	3/4		3/4		3/4		3/4			
<b>7</b>	<b>78,294</b>	<b>7</b>	<b>63,231</b>	<b>7</b>	<b>48,170</b>	<b>7</b>	<b>33,127</b>	<b>7</b>	<b>18,064</b>	<b>7</b>	<b>3,005</b>	<b>7</b>		<b>7</b>		<b>7</b>		<b>7</b>			
1/4	77,980	1/4	62,917	1/4	47,856	1/4	32,813	1/4	17,750	1/4	2,692	1/4		1/4		1/4		1/4			
1/2	77,666	1/2	62,603	1/2	47,543	1/2	32,499	1/2	17,436	1/2	2,399	1/2		1/2		1/2		1/2			
3/4	77,352	3/4	62,289	3/4	47,230	3/4	32,185	3/4	17,123	3/4	2,105	3/4		3/4		3/4		3/4			
<b>8</b>	<b>77,039</b>	<b>8</b>	<b>61,975</b>	<b>8</b>	<b>46,917</b>	<b>8</b>	<b>31,872</b>	<b>8</b>	<b>16,809</b>	<b>8</b>	<b>1,812</b>	<b>8</b>		<b>8</b>		<b>8</b>		<b>8</b>			
1/4	76,725	1/4	61,662	1/4	46,603	1/4	31,558	1/4	16,495	1/4	1,519	1/4		1/4		1/4		1/4			
1/2	76,411	1/2	61,348	1/2	46,290	1/2	31,244	1/2	16,181	1/2	1,297	1/2		1/2		1/2		1/2			
3/4	76,097	3/4	61,034	3/4	45,977	3/4	30,930	3/4	15,867	3/4	1,074	3/4		3/4		3/4		3/4			
<b>9</b>	<b>75,783</b>	<b>9</b>	<b>60,720</b>	<b>9</b>	<b>45,664</b>	<b>9</b>	<b>30,616</b>	<b>9</b>	<b>15,554</b>	<b>9</b>	<b>852</b>	<b>9</b>		<b>9</b>		<b>9</b>		<b>9</b>			
1/4	75,470	1/4	60,406	1/4	45,350	1/4	30,303	1/4	15,240	1/4	630	1/4		1/4		1/4		1/4			
1/2	75,156	1/2	60,093	1/2	45,037	1/2	29,989	1/2	14,926	1/2		1/2		1/2		1/2		1/2			
3/4	74,842	3/4	59,779	3/4	44,724	3/4	29,675	3/4	14,612	3/4		3/4		3/4		3/4		3/4			
<b>10</b>	<b>74,528</b>	<b>10</b>	<b>59,465</b>	<b>10</b>	<b>44,411</b>	<b>10</b>	<b>29,361</b>	<b>10</b>	<b>14,298</b>	<b>10</b>		<b>10</b>		<b>10</b>		<b>10</b>		<b>10</b>			
1/4	74,214	1/4	59,151	1/4	44,098	1/4	29,047	1/4	13,984	1/4		1/4		1/4		1/4		1/4			
1/2	73,900	1/2	58,837	1/2	43,784	1/2	28,733	1/2	13,671	1/2		1/2		1/2		1/2		1/2			
3/4	73,587	3/4	58,523	3/4	43,471	3/4	28,420	3/4	13,357	3/4		3/4		3/4		3/4		3/4			
<b>11</b>	<b>73,273</b>	<b>11</b>	<b>58,210</b>	<b>11</b>	<b>43,158</b>	<b>11</b>	<b>28,106</b>	<b>11</b>	<b>13,043</b>	<b>11</b>		<b>11</b>		<b>11</b>		<b>11</b>		<b>11</b>			
1/4	72,959	1/4	57,896	1/4	42,845	1/4	27,792	1/4	12,729	1/4		1/4		1/4		1/4		1/4			
1/2	72,645	1/2	57,582	1/2	42,531	1/2	27,478	1/2	12,415	1/2		1/2		1/2		1/2		1/2			
3/4	72,331	3/4	57,268	3/4	42,218	3/4	27,164	3/4	12,102	3/4		3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/06/2019 CL  
CALCULATED: 05/07/2019 CL  
PRINTED: 05/07/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2019

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





# BARGE "NGL 3022"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	207,014	0	192,049	0	177,016	0	161,946	0	146,877	0	131,808	0	116,738	0	101,665
1/4		1/4		1/4	206,703	1/4	191,736	1/4	176,702	1/4	161,632	1/4	146,563	1/4	131,494	1/4	116,424	1/4	101,351
1/2		1/2		1/2	206,393	1/2	191,423	1/2	176,388	1/2	161,318	1/2	146,249	1/2	131,180	1/2	116,110	1/2	101,036
3/4		3/4		3/4	206,082	3/4	191,110	3/4	176,074	3/4	161,004	3/4	145,935	3/4	130,866	3/4	115,797	3/4	100,722
1	1	1	1	1	205,771	1	190,797	1	175,760	1	160,691	1	145,621	1	130,552	1	115,483	1	100,408
1/4		1/4		1/4	205,460	1/4	190,484	1/4	175,446	1/4	160,377	1/4	145,307	1/4	130,238	1/4	115,169	1/4	100,094
1/2		1/2		1/2	205,149	1/2	190,171	1/2	175,132	1/2	160,063	1/2	144,993	1/2	129,924	1/2	114,855	1/2	99,780
3/4		3/4		3/4	204,838	3/4	189,858	3/4	174,818	3/4	159,749	3/4	144,679	3/4	129,610	3/4	114,541	3/4	99,466
2	2	2	2	2	204,528	2	189,545	2	174,504	2	159,435	2	144,365	2	129,296	2	114,227	2	99,152
1/4		1/4		1/4	204,217	1/4	189,232	1/4	174,190	1/4	159,121	1/4	144,051	1/4	128,982	1/4	113,913	1/4	98,838
1/2		1/2		1/2	203,906	1/2	188,919	1/2	173,876	1/2	158,807	1/2	143,738	1/2	128,668	1/2	113,599	1/2	98,524
3/4		3/4		3/4	203,595	3/4	188,606	3/4	173,562	3/4	158,493	3/4	143,424	3/4	128,354	3/4	113,285	3/4	98,210
3	3	3	3	3	203,284	3	188,293	3	173,248	3	158,179	3	143,110	3	128,040	3	112,971	3	97,896
1/4		1/4		1/4	202,973	1/4	187,979	1/4	172,934	1/4	157,865	1/4	142,796	1/4	127,726	1/4	112,657	1/4	97,581
1/2		1/2		1/2	202,662	1/2	187,666	1/2	172,620	1/2	157,551	1/2	142,482	1/2	127,412	1/2	112,343	1/2	97,267
3/4		3/4		3/4	202,352	3/4	187,353	3/4	172,306	3/4	157,237	3/4	142,168	3/4	127,098	3/4	112,029	3/4	96,953
4	4	4	4	4	202,041	4	187,040	4	171,993	4	156,923	4	141,854	4	126,785	4	111,715	4	96,639
1/4		1/4		1/4	201,730	1/4	186,727	1/4	171,679	1/4	156,609	1/4	141,540	1/4	126,471	1/4	111,401	1/4	96,325
1/2		1/2		1/2	201,419	1/2	186,414	1/2	171,365	1/2	156,295	1/2	141,226	1/2	126,157	1/2	111,087	1/2	96,011
3/4		3/4		3/4	201,108	3/4	186,101	3/4	171,051	3/4	155,981	3/4	140,912	3/4	125,843	3/4	110,773	3/4	95,697
5	5	5	5	5	200,797	5	185,788	5	170,737	5	155,667	5	140,598	5	125,529	5	110,459	5	95,383
1/4		1/4		1/4	200,487	1/4	185,475	1/4	170,423	1/4	155,353	1/4	140,284	1/4	125,215	1/4	110,145	1/4	95,069
1/2		1/2		1/2	200,176	1/2	185,162	1/2	170,109	1/2	155,040	1/2	139,970	1/2	124,901	1/2	109,831	1/2	94,755
3/4		3/4		3/4	199,865	3/4	184,849	3/4	169,795	3/4	154,726	3/4	139,656	3/4	124,587	3/4	109,517	3/4	94,440
6	6	6	6	6	199,554	6	184,536	6	169,481	6	154,412	6	139,342	6	124,273	6	109,203	6	94,126
1/4		1/4	213,520	1/4	199,243	1/4	184,223	1/4	169,167	1/4	154,098	1/4	139,028	1/4	123,959	1/4	108,889	1/4	93,812
1/2		1/2	213,304	1/2	198,932	1/2	183,910	1/2	168,853	1/2	153,784	1/2	138,714	1/2	123,645	1/2	108,575	1/2	93,498
3/4		3/4	213,088	3/4	198,620	3/4	183,597	3/4	168,539	3/4	153,470	3/4	138,400	3/4	123,331	3/4	108,261	3/4	93,184
7	7	7	7	7	212,873	7	183,308	7	168,225	7	153,156	7	138,087	7	123,017	7	107,947	7	92,870
1/4		1/4	212,657	1/4	197,997	1/4	182,971	1/4	167,911	1/4	152,842	1/4	137,773	1/4	122,703	1/4	107,633	1/4	92,556
1/2		1/2	212,396	1/2	197,683	1/2	182,658	1/2	167,597	1/2	152,528	1/2	137,459	1/2	122,389	1/2	107,318	1/2	92,242
3/4		3/4	212,136	3/4	197,370	3/4	182,345	3/4	167,283	3/4	152,214	3/4	137,145	3/4	122,075	3/4	107,004	3/4	91,928
8	8	8	8	8	211,876	8	197,057	8	182,032	8	166,969	8	151,900	8	136,831	8	121,761	8	106,690
1/4		1/4	211,615	1/4	196,744	1/4	181,719	1/4	166,655	1/4	151,586	1/4	136,517	1/4	121,448	1/4	106,376	1/4	91,299
1/2		1/2	211,319	1/2	196,431	1/2	181,406	1/2	166,342	1/2	151,272	1/2	136,203	1/2	121,134	1/2	106,062	1/2	90,985
3/4		3/4	211,022	3/4	196,118	3/4	181,093	3/4	166,028	3/4	150,958	3/4	135,889	3/4	120,820	3/4	105,748	3/4	90,671
9	9	9	9	9	210,726	9	195,805	9	180,780	9	165,714	9	150,644	9	135,575	9	120,506	9	90,357
1/4		1/4	210,430	1/4	195,492	1/4	180,467	1/4	165,400	1/4	150,330	1/4	135,261	1/4	120,192	1/4	105,120	1/4	90,043
1/2		1/2	210,120	1/2	195,179	1/2	180,153	1/2	165,086	1/2	150,016	1/2	134,947	1/2	119,878	1/2	104,806	1/2	89,729
3/4		3/4	209,810	3/4	194,866	3/4	179,840	3/4	164,772	3/4	149,702	3/4	134,633	3/4	119,564	3/4	104,492	3/4	89,415
10	10	10	10	10	209,500	10	194,553	10	179,527	10	164,458	10	149,389	10	134,319	10	119,250	10	89,101
1/4		1/4	209,190	1/4	194,240	1/4	179,213	1/4	164,144	1/4	149,075	1/4	134,005	1/4	118,936	1/4	103,863	1/4	88,787
1/2		1/2	208,879	1/2	193,927	1/2	178,899	1/2	163,830	1/2	148,761	1/2	133,691	1/2	118,622	1/2	103,549	1/2	88,473
3/4		3/4	208,568	3/4	193,614	3/4	178,585	3/4	163,516	3/4	148,447	3/4	133,377	3/4	118,308	3/4	103,235	3/4	88,159
11	11	11	11	11	208,258	11	193,301	11	178,271	11	148,133	11	133,063	11	117,994	11	102,921	11	87,844
1/4		1/4	207,947	1/4	192,988	1/4	177,957	1/4	162,888	1/4	147,819	1/4	132,749	1/4	117,680	1/4	102,607	1/4	87,530
1/2		1/2	207,636	1/2	192,675	1/2	177,643	1/2	162,574	1/2	147,505	1/2	132,436	1/2	117,366	1/2	102,293	1/2	87,216
3/4		3/4	207,325	3/4	192,362	3/4	177,330	3/4	162,260	3/4	147,191	3/4	132,122	3/4	117,052	3/4	101,979	3/4	86,902

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 ULLAGE GAUGES TAKEN TO THREADS ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD

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





# BARGE "NGL 3022"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	86,588	0	71,666	0	56,868	0	41,942	0	26,875	0	11,798	0		0		0		0	
1/4	86,274	1/4	71,357	1/4	56,560	1/4	41,629	1/4	26,560	1/4	11,484	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	85,960	1/2	71,049	1/2	56,252	1/2	41,315	1/2	26,246	1/2	11,170	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	85,646	3/4	70,741	3/4	55,943	3/4	41,002	3/4	25,932	3/4	10,856	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	85,332	1	70,432	1	55,635	1	40,688	1	25,618	1	10,542	1	1	1	1	1	1	1	1
1/4	85,018	1/4	70,124	1/4	55,327	1/4	40,375	1/4	25,304	1/4	10,228	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	84,703	1/2	69,816	1/2	55,019	1/2	40,061	1/2	24,990	1/2	9,914	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	84,389	3/4	69,508	3/4	54,710	3/4	39,748	3/4	24,676	3/4	9,600	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	84,075	2	69,199	2	54,402	2	39,434	2	24,362	2	9,286	2	2	2	2	2	2	2	2
1/4	83,761	1/4	68,891	1/4	54,094	1/4	39,121	1/4	24,048	1/4	8,972	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,447	1/2	68,583	1/2	53,785	1/2	38,807	1/2	23,734	1/2	8,657	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,133	3/4	68,275	3/4	53,477	3/4	38,494	3/4	23,420	3/4	8,343	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	82,819	3	67,966	3	53,169	3	38,180	3	23,105	3	8,029	3	3	3	3	3	3	3	3
1/4	82,505	1/4	67,658	1/4	52,861	1/4	37,866	1/4	22,791	1/4	7,715	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,191	1/2	67,350	1/2	52,552	1/2	37,553	1/2	22,477	1/2	7,401	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,877	3/4	67,041	3/4	52,244	3/4	37,239	3/4	22,163	3/4	7,087	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	81,562	4	66,733	4	51,936	4	36,925	4	21,849	4	6,773	4	4	4	4	4	4	4	4
1/4	81,248	1/4	66,425	1/4	51,627	1/4	36,611	1/4	21,535	1/4	6,459	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,935	1/2	66,117	1/2	51,319	1/2	36,297	1/2	21,221	1/2	6,145	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,622	3/4	65,808	3/4	51,011	3/4	35,983	3/4	20,907	3/4	5,831	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	80,309	5	65,500	5	50,703	5	35,669	5	20,593	5	5,517	5	5	5	5	5	5	5	5
1/4	79,996	1/4	65,192	1/4	50,394	1/4	35,355	1/4	20,279	1/4	5,203	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,686	1/2	64,883	1/2	50,084	1/2	35,041	1/2	19,965	1/2	4,889	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,376	3/4	64,575	3/4	49,774	3/4	34,727	3/4	19,650	3/4	4,575	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	79,066	6	64,267	6	49,463	6	34,413	6	19,336	6	4,261	6	6	6	6	6	6	6	6
1/4	78,756	1/4	63,959	1/4	49,153	1/4	34,099	1/4	19,022	1/4	3,947	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,448	1/2	63,650	1/2	48,840	1/2	33,784	1/2	18,708	1/2	3,634	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,139	3/4	63,342	3/4	48,526	3/4	33,470	3/4	18,394	3/4	3,321	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	77,831	7	63,034	7	48,212	7	33,156	7	18,080	7	3,007	7	7	7	7	7	7	7	7
1/4	77,523	1/4	62,726	1/4	47,899	1/4	32,842	1/4	17,766	1/4	2,694	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,215	1/2	62,417	1/2	47,585	1/2	32,528	1/2	17,452	1/2	2,401	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,906	3/4	62,109	3/4	47,272	3/4	32,214	3/4	17,138	3/4	2,107	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	76,598	8	61,801	8	46,958	8	31,900	8	16,824	8	1,814	8	8	8	8	8	8	8	8
1/4	76,290	1/4	61,492	1/4	46,645	1/4	31,586	1/4	16,510	1/4	1,520	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,981	1/2	61,184	1/2	46,331	1/2	31,272	1/2	16,196	1/2	1,298	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,673	3/4	60,876	3/4	46,018	3/4	30,958	3/4	15,881	3/4	1,075	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	75,365	9	60,568	9	45,704	9	30,644	9	15,567	9	853	9	9	9	9	9	9	9	9
1/4	75,057	1/4	60,259	1/4	45,391	1/4	30,329	1/4	15,253	1/4	630	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,748	1/2	59,951	1/2	45,077	1/2	30,015	1/2	14,939	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,440	3/4	59,643	3/4	44,764	3/4	29,701	3/4	14,625	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	74,132	10	59,334	10	44,450	10	29,387	10	14,311	10		10	10	10	10	10	10	10	10
1/4	73,824	1/4	59,026	1/4	44,137	1/4	29,073	1/4	13,997	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,515	1/2	58,718	1/2	43,823	1/2	28,759	1/2	13,683	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,207	3/4	58,410	3/4	43,510	3/4	28,445	3/4	13,369	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	72,899	11	58,101	11	43,196	11	28,131	11	13,055	11		11	11	11	11	11	11	11	11
1/4	72,590	1/4	57,793	1/4	42,883	1/4	27,817	1/4	12,741	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,282	1/2	57,485	1/2	42,569	1/2	27,503	1/2	12,426	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,974	3/4	57,177	3/4	42,256	3/4	27,189	3/4	12,112	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/06/2019 CL  
CALCULATED: 05/07/2019 CL  
PRINTED: 05/07/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2019

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



# BARGE "NGL 3022"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	189,449	0	179,188	0	168,881	0	158,550	0	145,988	0	131,056	0	116,112	0	101,157		
1/4	1/4	1/4	189,236	1/4	178,973	1/4	168,665	1/4	158,335	1/4	145,678	1/4	130,744	1/4	115,800	1/4	100,845		
1/2	1/2	1/2	189,023	1/2	178,758	1/2	168,450	1/2	158,120	1/2	145,369	1/2	130,433	1/2	115,489	1/2	100,533		
3/4	3/4	3/4	188,810	3/4	178,544	3/4	168,235	3/4	157,905	3/4	145,059	3/4	130,122	3/4	115,178	3/4	100,221		
1	1	1	188,596	1	178,329	1	168,020	1	157,689	1	144,750	1	129,810	1	114,866	1	99,910		
1/4	1/4	1/4	188,383	1/4	178,115	1/4	167,804	1/4	157,465	1/4	144,440	1/4	129,499	1/4	114,555	1/4	99,598		
1/2	1/2	1/2	188,170	1/2	177,900	1/2	167,589	1/2	157,241	1/2	144,130	1/2	129,188	1/2	114,244	1/2	99,286		
3/4	3/4	3/4	187,957	3/4	177,685	3/4	167,374	3/4	157,016	3/4	143,819	3/4	128,876	3/4	113,932	3/4	98,974		
2	2	2	187,744	2	177,471	2	167,159	2	156,792	2	143,509	2	128,565	2	113,621	2	98,663		
1/4	1/4	1/4	187,531	1/4	177,256	1/4	166,944	1/4	156,553	1/4	143,198	1/4	128,254	1/4	113,310	1/4	98,351		
1/2	1/2	1/2	187,318	1/2	177,041	1/2	166,728	1/2	156,313	1/2	142,887	1/2	127,942	1/2	112,998	1/2	98,039		
3/4	3/4	3/4	187,105	3/4	176,827	3/4	166,513	3/4	156,074	3/4	142,575	3/4	127,631	3/4	112,687	3/4	97,728		
3	3	3	186,892	3	176,612	3	166,298	3	155,835	3	142,264	3	127,320	3	112,376	3	97,416		
1/4	1/4	1/4	186,679	1/4	176,398	1/4	166,083	1/4	155,595	1/4	141,953	1/4	127,008	1/4	112,064	1/4	97,104		
1/2	1/2	1/2	186,465	1/2	176,183	1/2	165,868	1/2	155,356	1/2	141,641	1/2	126,697	1/2	111,753	1/2	96,792		
3/4	3/4	3/4	186,252	3/4	175,968	3/4	165,652	3/4	155,117	3/4	141,330	3/4	126,386	3/4	111,442	3/4	96,481		
4	4	4	186,039	4	175,754	4	165,437	4	154,877	4	141,019	4	126,074	4	111,130	4	96,169		
1/4	1/4	1/4	185,826	1/4	175,539	1/4	165,222	1/4	154,638	1/4	140,707	1/4	125,763	1/4	110,819	1/4	95,857		
1/2	1/2	1/2	185,613	1/2	175,325	1/2	165,007	1/2	154,398	1/2	140,396	1/2	125,452	1/2	110,507	1/2	95,545		
3/4	3/4	3/4	185,400	3/4	175,110	3/4	164,791	3/4	154,159	3/4	140,085	3/4	125,140	3/4	110,196	3/4	95,234		
5	5	5	185,187	5	174,895	5	164,576	5	153,920	5	139,773	5	124,829	5	109,885	5	94,922		
1/4	1/4	1/4	184,974	1/4	174,681	1/4	164,361	1/4	153,680	1/4	139,462	1/4	124,518	1/4	109,573	1/4	94,610		
1/2	1/2	1/2	184,761	1/2	174,466	1/2	164,146	1/2	153,441	1/2	139,151	1/2	124,206	1/2	109,262	1/2	94,298		
3/4	3/4	3/4	184,548	3/4	174,252	3/4	163,931	3/4	153,202	3/4	138,839	3/4	123,895	3/4	108,950	3/4	93,987		
6	6	6	193,923	6	184,334	6	174,037	6	163,715	6	152,962	6	138,528	6	123,584	6	108,638	6	93,675
1/4	1/4	1/4	193,804	1/4	184,121	1/4	173,822	1/4	163,500	1/4	152,723	1/4	138,217	1/4	123,272	1/4	108,327	1/4	93,363
1/2	1/2	1/2	193,686	1/2	183,907	1/2	173,608	1/2	163,285	1/2	152,483	1/2	137,905	1/2	122,961	1/2	108,015	1/2	93,051
3/4	3/4	3/4	193,567	3/4	183,693	3/4	173,393	3/4	163,070	3/4	152,244	3/4	137,594	3/4	122,650	3/4	107,703	3/4	92,740
7	7	7	193,449	7	183,480	7	173,178	7	162,854	7	152,005	7	137,282	7	122,338	7	107,392	7	92,428
1/4	1/4	1/4	193,286	1/4	183,265	1/4	172,964	1/4	162,639	1/4	151,739	1/4	136,971	1/4	122,027	1/4	107,080	1/4	92,116
1/2	1/2	1/2	193,123	1/2	183,051	1/2	172,749	1/2	162,424	1/2	151,473	1/2	136,660	1/2	121,716	1/2	106,768	1/2	91,804
3/4	3/4	3/4	192,959	3/4	182,836	3/4	172,535	3/4	162,209	3/4	151,207	3/4	136,348	3/4	121,404	3/4	106,456	3/4	91,493
8	8	8	192,796	8	182,621	8	172,320	8	161,994	8	150,942	8	136,037	8	121,093	8	106,145	8	91,181
1/4	1/4	1/4	192,598	1/4	182,407	1/4	172,105	1/4	161,778	1/4	150,632	1/4	135,726	1/4	120,782	1/4	105,833	1/4	90,869
1/2	1/2	1/2	192,399	1/2	182,192	1/2	171,891	1/2	161,563	1/2	150,322	1/2	135,414	1/2	120,470	1/2	105,521	1/2	90,557
3/4	3/4	3/4	192,200	3/4	181,977	3/4	171,676	3/4	161,348	3/4	150,012	3/4	135,103	3/4	120,159	3/4	105,209	3/4	90,246
9	9	9	192,002	9	181,763	9	171,462	9	161,133	9	149,703	9	134,792	9	119,848	9	104,898	9	89,934
1/4	1/4	1/4	191,790	1/4	181,548	1/4	171,247	1/4	160,918	1/4	149,393	1/4	134,480	1/4	119,536	1/4	104,586	1/4	89,622
1/2	1/2	1/2	191,577	1/2	181,334	1/2	171,032	1/2	160,702	1/2	149,083	1/2	134,169	1/2	119,225	1/2	104,274	1/2	89,310
3/4	3/4	3/4	191,365	3/4	181,119	3/4	170,817	3/4	160,487	3/4	148,773	3/4	133,858	3/4	118,914	3/4	103,962	3/4	88,999
10	10	10	191,153	10	180,904	10	170,602	10	160,272	10	148,464	10	133,546	10	118,602	10	103,651	10	88,687
1/4	1/4	1/4	190,940	1/4	180,690	1/4	170,387	1/4	160,057	1/4	148,154	1/4	133,235	1/4	118,291	1/4	103,339	1/4	88,375
1/2	1/2	1/2	190,727	1/2	180,475	1/2	170,172	1/2	159,841	1/2	147,844	1/2	132,924	1/2	117,980	1/2	103,027	1/2	88,064
3/4	3/4	3/4	190,514	3/4	180,261	3/4	169,957	3/4	159,626	3/4	147,535	3/4	132,612	3/4	117,668	3/4	102,715	3/4	87,752
11	11	11	190,301	11	180,046	11	169,741	11	159,411	11	147,225	11	132,301	11	117,357	11	102,404	11	87,440
1/4	1/4	1/4	190,088	1/4	179,831	1/4	169,526	1/4	159,196	1/4	146,916	1/4	131,990	1/4	117,046	1/4	102,092	1/4	87,128
1/2	1/2	1/2	189,875	1/2	179,617	1/2	169,311	1/2	158,981	1/2	146,606	1/2	131,678	1/2	116,734	1/2	101,780	1/2	86,817
3/4	3/4	3/4	189,662	3/4	179,402	3/4	169,096	3/4	158,765	3/4	146,297	3/4	131,367	3/4	116,423	3/4	101,468	3/4	86,505

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 ULLAGE GAUGES TAKEN TO THREADS ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD

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



# BARGE "NGL 3022"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	86,193	0	71,229	0	56,266	0	41,317	0	26,361	0	11,398	0		0		0		0	
1/4	85,881	1/4	70,918	1/4	55,954	1/4	41,006	1/4	26,050	1/4	11,087	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	85,570	1/2	70,606	1/2	55,642	1/2	40,694	1/2	25,738	1/2	10,775	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	85,258	3/4	70,294	3/4	55,331	3/4	40,383	3/4	25,426	3/4	10,463	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	84,946	1	69,983	1	55,019	1	40,072	1	25,115	1	10,151	1	1	1	1	1	1	1	1
1/4	84,634	1/4	69,671	1/4	54,707	1/4	39,761	1/4	24,803	1/4	9,840	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	84,323	1/2	69,359	1/2	54,395	1/2	39,450	1/2	24,491	1/2	9,528	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	84,011	3/4	69,047	3/4	54,084	3/4	39,139	3/4	24,179	3/4	9,216	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	83,699	2	68,736	2	53,772	2	38,828	2	23,868	2	8,904	2	2	2	2	2	2	2	2
1/4	83,387	1/4	68,424	1/4	53,460	1/4	38,516	1/4	23,556	1/4	8,593	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,076	1/2	68,112	1/2	53,148	1/2	38,205	1/2	23,244	1/2	8,281	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	82,764	3/4	67,800	3/4	52,837	3/4	37,894	3/4	22,932	3/4	7,969	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	82,452	3	67,489	3	52,525	3	37,583	3	22,621	3	7,657	3	3	3	3	3	3	3	3
1/4	82,140	1/4	67,177	1/4	52,213	1/4	37,271	1/4	22,309	1/4	7,346	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,829	1/2	66,865	1/2	51,901	1/2	36,960	1/2	21,997	1/2	7,034	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,517	3/4	66,553	3/4	51,590	3/4	36,648	3/4	21,685	3/4	6,722	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	81,205	4	66,242	4	51,278	4	36,337	4	21,374	4	6,411	4	4	4	4	4	4	4	4
1/4	80,893	1/4	65,930	1/4	50,966	1/4	36,025	1/4	21,062	1/4	6,099	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,582	1/2	65,618	1/2	50,655	1/2	35,713	1/2	20,750	1/2	5,787	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,270	3/4	65,306	3/4	50,343	3/4	35,402	3/4	20,439	3/4	5,475	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	79,958	5	64,995	5	50,031	5	35,090	5	20,127	5	5,164	5	5	5	5	5	5	5	5
1/4	79,647	1/4	64,683	1/4	49,719	1/4	34,778	1/4	19,815	1/4	4,852	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,335	1/2	64,371	1/2	49,408	1/2	34,466	1/2	19,503	1/2	4,541	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,023	3/4	64,059	3/4	49,096	3/4	34,155	3/4	19,192	3/4	4,229	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	78,711	6	63,748	6	48,785	6	33,843	6	18,880	6	3,918	6	6	6	6	6	6	6	6
1/4	78,400	1/4	63,436	1/4	48,473	1/4	33,531	1/4	18,568	1/4	3,607	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,088	1/2	63,124	1/2	48,162	1/2	33,220	1/2	18,256	1/2	3,296	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,776	3/4	62,812	3/4	47,851	3/4	32,908	3/4	17,945	3/4	2,985	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	77,464	7	62,501	7	47,540	7	32,596	7	17,633	7	2,674	7	7	7	7	7	7	7	7
1/4	77,153	1/4	62,189	1/4	47,229	1/4	32,284	1/4	17,321	1/4	2,363	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,841	1/2	61,877	1/2	46,917	1/2	31,973	1/2	17,009	1/2	2,052	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,529	3/4	61,565	3/4	46,606	3/4	31,661	3/4	16,698	3/4	1,740	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	76,217	8	61,254	8	46,295	8	31,349	8	16,386	8	1,509	8	8	8	8	8	8	8	8
1/4	75,906	1/4	60,942	1/4	45,984	1/4	31,037	1/4	16,074	1/4	1,288	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,594	1/2	60,630	1/2	45,673	1/2	30,726	1/2	15,763	1/2	1,067	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,282	3/4	60,319	3/4	45,362	3/4	30,414	3/4	15,451	3/4	847	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	74,970	9	60,007	9	45,051	9	30,102	9	15,139	9	626	9	9	9	9	9	9	9	9
1/4	74,659	1/4	59,695	1/4	44,739	1/4	29,791	1/4	14,827	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,347	1/2	59,383	1/2	44,428	1/2	29,479	1/2	14,516	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,035	3/4	59,072	3/4	44,117	3/4	29,167	3/4	14,204	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	73,723	10	58,760	10	43,806	10	28,855	10	13,892	10		10	10	10	10	10	10	10	10
1/4	73,412	1/4	58,448	1/4	43,495	1/4	28,544	1/4	13,580	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,100	1/2	58,136	1/2	43,184	1/2	28,232	1/2	13,269	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,788	3/4	57,825	3/4	42,872	3/4	27,920	3/4	12,957	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	72,476	11	57,513	11	42,561	11	27,608	11	12,645	11		11	11	11	11	11	11	11	11
1/4	72,165	1/4	57,201	1/4	42,250	1/4	27,297	1/4	12,333	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,853	1/2	56,889	1/2	41,939	1/2	26,985	1/2	12,022	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,541	3/4	56,578	3/4	41,628	3/4	26,673	3/4	11,710	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/06/2019 CL  
CALCULATED: 05/07/2019 CL  
PRINTED: 05/07/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "NGL 3022"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	
0	0	0	188,627	0	178,348	0	168,024	0	157,677	0	145,006	0	130,079	0	115,144	0	100,197			
1/4	1/4	1/4	188,414	1/4	178,133	1/4	167,809	1/4	157,462	1/4	144,697	1/4	129,767	1/4	114,833	1/4	99,886			
1/2	1/2	1/2	188,200	1/2	177,918	1/2	167,593	1/2	157,246	1/2	144,388	1/2	129,456	1/2	114,522	1/2	99,574			
3/4	3/4	3/4	187,987	3/4	177,703	3/4	167,377	3/4	157,031	3/4	144,078	3/4	129,145	3/4	114,211	3/4	99,262			
1	1	1	187,773	1	177,488	1	167,162	1	156,806	1	143,768	1	128,834	1	113,900	1	98,951			
1/4	1/4	1/4	187,560	1/4	177,273	1/4	166,946	1/4	156,582	1/4	143,458	1/4	128,523	1/4	113,589	1/4	98,639			
1/2	1/2	1/2	187,346	1/2	177,058	1/2	166,731	1/2	156,357	1/2	143,148	1/2	128,211	1/2	113,278	1/2	98,327			
3/4	3/4	3/4	187,133	3/4	176,843	3/4	166,515	3/4	156,132	3/4	142,838	3/4	127,900	3/4	112,967	3/4	98,016			
2	2	2	186,919	2	176,628	2	166,300	2	155,893	2	142,527	2	127,589	2	112,656	2	97,704			
1/4	1/4	1/4	186,706	1/4	176,413	1/4	166,084	1/4	155,653	1/4	142,216	1/4	127,278	1/4	112,345	1/4	97,392			
1/2	1/2	1/2	186,493	1/2	176,199	1/2	165,869	1/2	155,413	1/2	141,905	1/2	126,966	1/2	112,035	1/2	97,081			
3/4	3/4	3/4	186,279	3/4	175,984	3/4	165,653	3/4	155,173	3/4	141,593	3/4	126,655	3/4	111,724	3/4	96,769			
3	3	3	186,066	3	175,769	3	165,437	3	154,934	3	141,282	3	126,344	3	111,413	3	96,457			
1/4	1/4	1/4	185,852	1/4	175,554	1/4	165,222	1/4	154,694	1/4	140,971	1/4	126,033	1/4	111,102	1/4	96,146			
1/2	1/2	1/2	185,639	1/2	175,339	1/2	165,006	1/2	154,454	1/2	140,660	1/2	125,722	1/2	110,791	1/2	95,834			
3/4	3/4	3/4	185,425	3/4	175,124	3/4	164,791	3/4	154,214	3/4	140,349	3/4	125,410	3/4	110,480	3/4	95,522			
4	4	4	185,212	4	174,909	4	164,575	4	153,974	4	140,037	4	125,099	4	110,169	4	95,210			
1/4	1/4	1/4	184,999	1/4	174,694	1/4	164,360	1/4	153,735	1/4	139,726	1/4	124,788	1/4	109,858	1/4	94,899			
1/2	1/2	1/2	184,785	1/2	174,479	1/2	164,144	1/2	153,495	1/2	139,415	1/2	124,477	1/2	109,546	1/2	94,587			
3/4	3/4	3/4	184,572	3/4	174,264	3/4	163,929	3/4	153,255	3/4	139,104	3/4	124,166	3/4	109,235	3/4	94,275			
5	5	5	184,358	5	174,049	5	163,713	5	153,015	5	138,792	5	123,854	5	108,924	5	93,964			
1/4	1/4	1/4	184,145	1/4	173,834	1/4	163,497	1/4	152,776	1/4	138,481	1/4	123,543	1/4	108,612	1/4	93,652			
1/2	1/2	1/2	183,931	1/2	173,619	1/2	163,282	1/2	152,536	1/2	138,170	1/2	123,232	1/2	108,301	1/2	93,340			
3/4	3/4	193,322	183,718	3/4	173,404	3/4	163,066	3/4	152,296	3/4	137,859	3/4	122,921	3/4	107,989	3/4	93,029			
6	6	193,203	6	183,504	6	173,189	6	162,851	6	152,056	6	137,548	6	122,609	6	107,678	6	92,717		
1/4	1/4	193,084	1/4	183,290	1/4	172,974	1/4	162,635	1/4	151,817	1/4	137,236	1/4	122,298	1/4	107,366	1/4	92,405		
1/2	1/2	192,965	1/2	183,076	1/2	172,759	1/2	162,420	1/2	151,577	1/2	136,925	1/2	121,987	1/2	107,054	1/2	92,094		
3/4	3/4	192,847	3/4	182,862	3/4	172,544	3/4	162,204	3/4	151,337	3/4	136,614	3/4	121,676	3/4	106,743	3/4	91,782		
7	7	192,683	7	182,647	7	172,329	7	161,989	7	151,071	7	136,303	7	121,365	7	106,431	7	91,470		
1/4	1/4	192,520	1/4	182,432	1/4	172,115	1/4	161,773	1/4	150,805	1/4	135,992	1/4	121,053	1/4	106,119	1/4	91,159		
1/2	1/2	192,357	1/2	182,217	1/2	171,900	1/2	161,557	1/2	150,539	1/2	135,680	1/2	120,742	1/2	105,808	1/2	90,847		
3/4	3/4	192,193	3/4	182,002	3/4	171,685	3/4	161,342	3/4	150,273	3/4	135,369	3/4	120,431	3/4	105,496	3/4	90,535		
8	8	191,994	8	181,787	8	171,470	8	161,126	8	149,963	8	135,058	8	120,120	8	105,184	8	90,224		
1/4	1/4	191,795	1/4	181,572	1/4	171,255	1/4	160,911	1/4	149,652	1/4	134,747	1/4	119,809	1/4	104,873	1/4	89,912		
1/2	1/2	191,596	1/2	181,357	1/2	171,040	1/2	160,695	1/2	149,342	1/2	134,436	1/2	119,498	1/2	104,561	1/2	89,600		
3/4	3/4	191,397	3/4	181,142	3/4	170,825	3/4	160,480	3/4	149,032	3/4	134,124	3/4	119,187	3/4	104,249	3/4	89,289		
9	9	191,185	9	180,927	9	170,610	9	160,264	9	148,722	9	133,813	9	118,876	9	103,937	9	88,978		
1/4	1/4	190,972	1/4	180,712	1/4	170,394	1/4	160,049	1/4	148,412	1/4	133,502	1/4	118,565	1/4	103,626	1/4	88,667		
1/2	1/2	190,760	1/2	180,497	1/2	170,179	1/2	159,833	1/2	148,102	1/2	133,191	1/2	118,254	1/2	103,314	1/2	88,357		
3/4	3/4	190,547	3/4	180,283	3/4	169,964	3/4	159,617	3/4	147,792	3/4	132,879	3/4	117,943	3/4	103,002	3/4	88,046		
10	10	190,334	10	180,068	10	169,749	10	159,402	10	147,482	10	132,568	10	117,632	10	102,691	10	87,737		
1/4	1/4	190,121	1/4	179,853	1/4	169,533	1/4	159,186	1/4	147,172	1/4	132,257	1/4	117,321	1/4	102,379	1/4	87,429		
1/2	1/2	189,908	1/2	179,638	1/2	169,317	1/2	158,971	1/2	146,862	1/2	131,946	1/2	117,010	1/2	102,067	1/2	87,120		
3/4	3/4	189,694	3/4	179,423	3/4	169,102	3/4	158,755	3/4	146,553	3/4	131,635	3/4	116,699	3/4	101,756	3/4	86,811		
11	11	189,481	11	179,208	11	168,886	11	158,540	11	146,243	11	131,323	11	116,388	11	101,444	11	86,502		
1/4	1/4	189,267	1/4	178,993	1/4	168,671	1/4	158,324	1/4	145,934	1/4	131,012	1/4	116,077	1/4	101,132	1/4	86,194		
1/2	1/2	189,054	1/2	178,778	1/2	168,455	1/2	158,109	1/2	145,625	1/2	130,701	1/2	115,766	1/2	100,821	1/2	85,885		
3/4	3/4	188,840	3/4	178,563	3/4	168,240	3/4	157,893	3/4	145,315	3/4	130,390	3/4	115,455	3/4	100,509	3/4	85,576		

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 ULLAGE GAUGES TAKEN TO THREADS ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD

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



# BARGE "NGL 3022"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	85,267	0	70,418	0	55,733	0	41,017	0	26,060	0	11,098	0		0		0		0	
1/4	84,959	1/4	70,106	1/4	55,433	1/4	40,706	1/4	25,749	1/4	10,787	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	84,650	1/2	69,795	1/2	55,132	1/2	40,394	1/2	25,437	1/2	10,475	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	84,341	3/4	69,483	3/4	54,831	3/4	40,083	3/4	25,125	3/4	10,163	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	84,032	1	69,172	1	54,531	1	39,772	1	24,813	1	9,851	1	1	1	1	1	1	1	1
1/4	83,724	1/4	68,860	1/4	54,230	1/4	39,461	1/4	24,502	1/4	9,540	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,415	1/2	68,549	1/2	53,930	1/2	39,150	1/2	24,190	1/2	9,228	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,106	3/4	68,237	3/4	53,629	3/4	38,839	3/4	23,878	3/4	8,916	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	82,797	2	67,926	2	53,329	2	38,527	2	23,566	2	8,604	2	2	2	2	2	2	2	2
1/4	82,488	1/4	67,615	1/4	53,028	1/4	38,216	1/4	23,255	1/4	8,293	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,180	1/2	67,303	1/2	52,727	1/2	37,905	1/2	22,943	1/2	7,981	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,871	3/4	66,992	3/4	52,427	3/4	37,594	3/4	22,631	3/4	7,669	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	81,562	3	66,680	3	52,126	3	37,282	3	22,319	3	7,357	3	3	3	3	3	3	3	3
1/4	81,253	1/4	66,369	1/4	51,826	1/4	36,971	1/4	22,008	1/4	7,045	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,945	1/2	66,058	1/2	51,525	1/2	36,659	1/2	21,696	1/2	6,733	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,636	3/4	65,746	3/4	51,224	3/4	36,348	3/4	21,384	3/4	6,421	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	80,327	4	65,435	4	50,923	4	36,036	4	21,073	4	6,109	4	4	4	4	4	4	4	4
1/4	80,018	1/4	65,123	1/4	50,622	1/4	35,724	1/4	20,761	1/4	5,797	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,710	1/2	64,812	1/2	50,321	1/2	35,413	1/2	20,450	1/2	5,484	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,401	3/4	64,500	3/4	50,019	3/4	35,101	3/4	20,138	3/4	5,172	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	79,092	5	64,191	5	49,713	5	34,789	5	19,826	5	4,860	5	5	5	5	5	5	5	5
1/4	78,783	1/4	63,882	1/4	49,408	1/4	34,477	1/4	19,515	1/4	4,548	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,475	1/2	63,574	1/2	49,102	1/2	34,166	1/2	19,203	1/2	4,236	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,166	3/4	63,265	3/4	48,796	3/4	33,854	3/4	18,892	3/4	3,924	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	77,857	6	62,961	6	48,485	6	33,542	6	18,580	6	3,613	6	6	6	6	6	6	6	6
1/4	77,548	1/4	62,657	1/4	48,174	1/4	33,230	1/4	18,268	1/4	3,301	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,240	1/2	62,354	1/2	47,862	1/2	32,919	1/2	17,957	1/2	2,990	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,931	3/4	62,050	3/4	47,551	3/4	32,607	3/4	17,645	3/4	2,678	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	76,622	7	61,748	7	47,240	7	32,295	7	17,333	7	2,387	7	7	7	7	7	7	7	7
1/4	76,313	1/4	61,447	1/4	46,929	1/4	31,983	1/4	17,022	1/4	2,095	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,004	1/2	61,145	1/2	46,618	1/2	31,672	1/2	16,710	1/2	1,803	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,696	3/4	60,843	3/4	46,306	3/4	31,360	3/4	16,398	3/4	1,511	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	75,387	8	60,543	8	45,995	8	31,048	8	16,086	8	1,290	8	8	8	8	8	8	8	8
1/4	75,078	1/4	60,242	1/4	45,684	1/4	30,736	1/4	15,775	1/4	1,069	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,769	1/2	59,941	1/2	45,373	1/2	30,425	1/2	15,463	1/2	848	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,461	3/4	59,641	3/4	45,062	3/4	30,113	3/4	15,151	3/4	627	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	74,151	9	59,340	9	44,751	9	29,801	9	14,839	9		9	9	9	9	9	9	9	9
1/4	73,841	1/4	59,040	1/4	44,439	1/4	29,490	1/4	14,528	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,531	1/2	58,739	1/2	44,128	1/2	29,178	1/2	14,216	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,221	3/4	58,438	3/4	43,817	3/4	28,866	3/4	13,904	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	72,910	10	58,138	10	43,506	10	28,554	10	13,592	10		10	10	10	10	10	10	10	10
1/4	72,598	1/4	57,837	1/4	43,195	1/4	28,243	1/4	13,281	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,287	1/2	57,537	1/2	42,884	1/2	27,931	1/2	12,969	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,975	3/4	57,236	3/4	42,573	3/4	27,619	3/4	12,657	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	71,664	11	56,936	11	42,261	11	27,307	11	12,345	11		11	11	11	11	11	11	11	11
1/4	71,352	1/4	56,635	1/4	41,950	1/4	26,996	1/4	12,034	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,041	1/2	56,334	1/2	41,639	1/2	26,684	1/2	11,722	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,729	3/4	56,034	3/4	41,328	3/4	26,372	3/4	11,410	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/06/2019 CL  
CALCULATED: 05/07/2019 CL  
PRINTED: 05/07/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "NGL 3022"

## PORT SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,047	0	2,883	0	1,721	0	558	0		0		0		0	
1/4		1/4		1/4	4,023	1/4	2,859	1/4	1,697	1/4	533	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	3,998	1/2	2,835	1/2	1,673	1/2	509	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	3,974	3/4	2,810	3/4	1,649	3/4	485	3/4		3/4		3/4		3/4	
1		1		1	3,950	1	2,786	1	1,624	1	461	1		1		1		1	
1/4		1/4		1/4	3,926	1/4	2,762	1/4	1,600	1/4	436	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	3,901	1/2	2,738	1/2	1,576	1/2	412	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	3,877	3/4	2,713	3/4	1,552	3/4	388	3/4		3/4		3/4		3/4	
2		2		2	3,853	2	2,689	2	1,527	2	364	2		2		2		2	
1/4		1/4		1/4	3,829	1/4	2,665	1/4	1,503	1/4	339	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	3,804	1/2	2,641	1/2	1,479	1/2	315	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	3,780	3/4	2,616	3/4	1,455	3/4	291	3/4		3/4		3/4		3/4	
3		3		3	3,756	3	2,592	3	1,430	3	267	3		3		3		3	
1/4		1/4		1/4	3,732	1/4	2,568	1/4	1,406	1/4	242	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	3,707	1/2	2,544	1/2	1,382	1/2	218	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	3,683	3/4	2,519	3/4	1,358	3/4	194	3/4		3/4		3/4		3/4	
4		4		4	3,659	4	2,495	4	1,333	4	170	4		4		4		4	
1/4		1/4		1/4	3,635	1/4	2,471	1/4	1,309	1/4	145	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	3,611	1/2	2,447	1/2	1,285	1/2	121	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	3,586	3/4	2,423	3/4	1,261	3/4	97	3/4		3/4		3/4		3/4	
5		5		5	3,562	5	2,398	5	1,237	5	73	5		5		5		5	
1/4		1/4		1/4	3,538	1/4	2,374	1/4	1,212	1/4	48	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	3,514	1/2	2,350	1/2	1,188	1/2	24	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,647	3/4	3,489	3/4	2,326	3/4	0	3/4		3/4		3/4		3/4	
6		6		6	4,623	6	3,465	6	2,301	6	0	6		6		6		6	
1/4		1/4		1/4	4,599	1/4	3,441	1/4	2,277	1/4	0	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,575	1/2	3,417	1/2	2,253	1/2	0	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,551	3/4	3,392	3/4	2,229	3/4	0	3/4		3/4		3/4		3/4	
7		7		7	4,527	7	3,368	7	2,204	7	0	7		7		7		7	
1/4		1/4		1/4	4,503	1/4	3,344	1/4	2,180	1/4	0	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,479	1/2	3,320	1/2	2,156	1/2	0	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,455	3/4	3,295	3/4	2,132	3/4	0	3/4		3/4		3/4		3/4	
8		8		8	4,432	8	3,271	8	2,107	8	0	8		8		8		8	
1/4		1/4		1/4	4,408	1/4	3,247	1/4	2,083	1/4	0	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,384	1/2	3,223	1/2	2,059	1/2	0	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,360	3/4	3,198	3/4	2,035	3/4	0	3/4		3/4		3/4		3/4	
9		9		9	4,336	9	3,174	9	2,011	9	0	9		9		9		9	
1/4		1/4		1/4	4,312	1/4	3,150	1/4	1,986	1/4	0	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,288	1/2	3,126	1/2	1,962	1/2	0	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,264	3/4	3,101	3/4	1,938	3/4	0	3/4		3/4		3/4		3/4	
10		10		10	4,240	10	3,077	10	1,914	10	0	10		10		10		10	
1/4		1/4		1/4	4,216	1/4	3,053	1/4	1,890	1/4	0	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,192	1/2	3,029	1/2	1,866	1/2	0	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,168	3/4	3,004	3/4	1,842	3/4	0	3/4		3/4		3/4		3/4	
11		11		11	4,144	11	2,980	11	1,818	11	0	11		11		11		11	
1/4		1/4		1/4	4,120	1/4	2,956	1/4	1,794	1/4	0	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,095	1/2	2,932	1/2	1,770	1/2	0	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,071	3/4	2,907	3/4	1,746	3/4	0	3/4		3/4		3/4		3/4	

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 ULLAGE GAUGES TAKEN TO TOP OF "HERMETIC" VALVE

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2019

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



# BARGE "NGL 3022"

## STBD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	4,022	0	2,866	0	1,711	0	554	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	3,998	1/4	2,842	1/4	1,687	1/4	530	1/4	0	1/4	0	1/4	0	1/4	0	1/4	0
1/2	1/2	1/2	3,974	1/2	2,817	1/2	1,663	1/2	506	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,950	3/4	2,793	3/4	1,639	3/4	482	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	3,926	1	2,769	1	1,615	1	458	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	3,902	1/4	2,745	1/4	1,590	1/4	434	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,878	1/2	2,721	1/2	1,566	1/2	410	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,854	3/4	2,697	3/4	1,542	3/4	386	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	3,830	2	2,673	2	1,518	2	361	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	3,805	1/4	2,649	1/4	1,494	1/4	337	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,781	1/2	2,625	1/2	1,470	1/2	313	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,757	3/4	2,601	3/4	1,446	3/4	289	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3,733	3	2,576	3	1,422	3	265	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	3,709	1/4	2,552	1/4	1,398	1/4	241	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,685	1/2	2,528	1/2	1,374	1/2	217	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,661	3/4	2,504	3/4	1,349	3/4	193	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	3,637	4	2,480	4	1,325	4	169	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	3,613	1/4	2,456	1/4	1,301	1/4	145	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,589	1/2	2,432	1/2	1,277	1/2	120	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,564	3/4	2,408	3/4	1,253	3/4	96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	3,540	5	2,384	5	1,229	5	72	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	3,516	1/4	2,360	1/4	1,205	1/4	48	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,492	1/2	2,335	1/2	1,181	1/2	24	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	4,619	3,468	3/4	2,311	3/4	1,157	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	4,595	6	3,444	6	2,287	6	1,133	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	4,571	1/4	3,420	1/4	2,263	1/4	1,108	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	4,547	1/2	3,396	1/2	2,239	1/2	1,084	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	4,524	3/4	3,372	3/4	2,215	3/4	1,060	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	4,500	7	3,348	7	2,191	7	1,036	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	4,476	1/4	3,323	1/4	2,167	1/4	1,012	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	4,452	1/2	3,299	1/2	2,143	1/2	988	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	4,428	3/4	3,275	3/4	2,119	3/4	964	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	4,405	8	3,251	8	2,095	8	940	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	4,381	1/4	3,227	1/4	2,070	1/4	916	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	4,357	1/2	3,203	1/2	2,046	1/2	892	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	4,333	3/4	3,179	3/4	2,022	3/4	868	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	4,309	9	3,155	9	1,998	9	843	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	4,286	1/4	3,131	1/4	1,974	1/4	819	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	4,262	1/2	3,107	1/2	1,950	1/2	795	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	4,238	3/4	3,083	3/4	1,926	3/4	771	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	4,214	10	3,058	10	1,903	10	747	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	4,190	1/4	3,034	1/4	1,879	1/4	723	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	4,167	1/2	3,010	1/2	1,855	1/2	699	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	4,143	3/4	2,986	3/4	1,831	3/4	675	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	4,119	11	2,962	11	1,807	11	651	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	4,095	1/4	2,938	1/4	1,783	1/4	627	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	4,071	1/2	2,914	1/2	1,759	1/2	602	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	4,046	3/4	2,890	3/4	1,735	3/4	578	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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