







## Gauge the Contents of a Railcar

<p><b>STEP 1.</b> Check for leaks around the plug on the thermometer well and then slowly remove the plug with a wrench.</p>	
<p><b>STEP 2.</b> Check the fluid level in the thermometer well. If necessary, refill the well with antifreeze (do not use water), then carefully lower a glass-tube thermometer in the well for at least ten minutes, then withdraw it just far enough to read the scale.</p>	
<p><b>STEP 3.</b> Record the reading and repeat the process to check the accuracy of the first reading. Record the final result on the bill of lading or the company unloading form.</p> <p><b>STEP 4.</b> Replace and retighten the thermometer well plug.</p>	
<p><b>STEP 6:</b> Determine type of gauging device installed on the rail car. It should be a newer magnetic style gauge.</p> <p><b>STEP 7:</b> Open the head cap on the gauging device.</p>	



**STEP 6 :** Grasp the rod and raise it until magnets are engaged. Verify the coupling with light up and down pressure on the rod.

**STEP 7:** Record the level as required by your company policy.

**STEP 8:** Repeat the measurement at least twice to be sure it is correct. Record the final reading on the bill of lading or the company unloading form.



**Caution:** Be sure to verify the gauging range since it may not indicate up to the full level of the tank due to the upper travel limit of the float. If the level indicated does not change despite a change in fluid level, the level is either outside of the range of the gauging device, or the float and/or gauging rod are stuck in place. Apply a light up and down force on the gauging rod to feel for the float bobbing up and down in the liquid. If this does not occur, the float may be damaged and should be inspected once the tank is off loaded.



**STEP 10:** Convert the gauging device reading to gallons, using the outage table for the tank car. Subtract the outage in gallons from the water capacity of the tank car and record the result on the company unloading form.

Correct the tank car liquid volume for temperature and specific gravity by multiplying it by the appropriate volume correction factor. The correction factor can be obtained from the Volumetric Reduction Tables below.

Check with the tank car manufacturer for your appropriate tank car outage table.

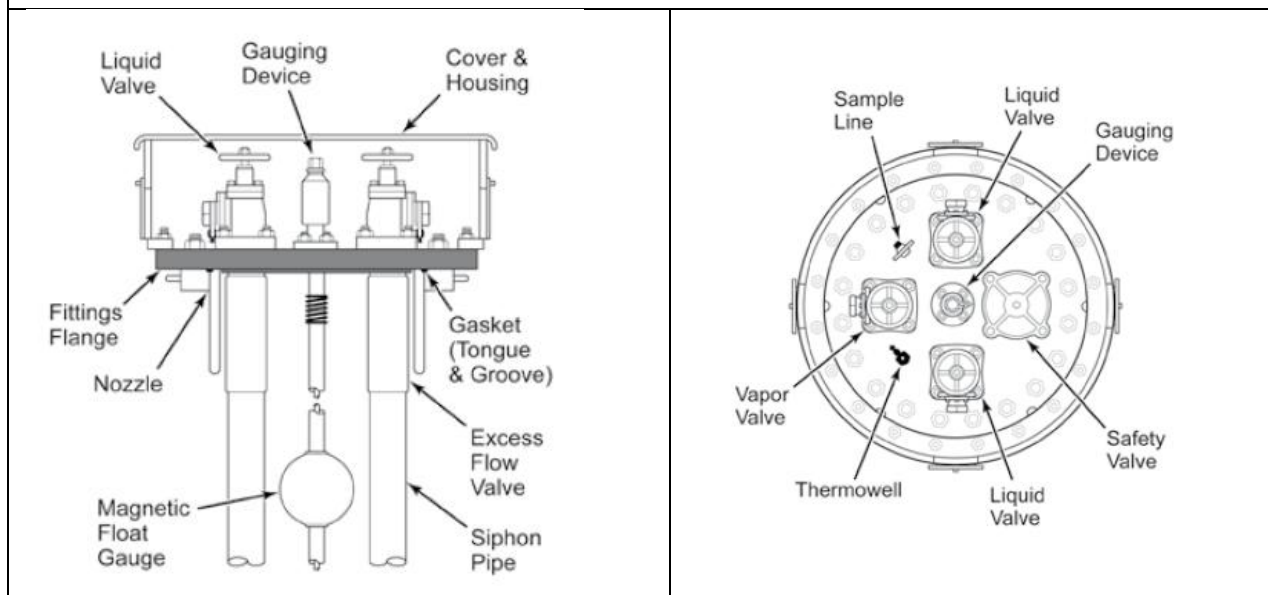
OUTAGE GAUGE TABLE : 03736-00									
INCH	GALS	INCH	GALS	INCH	GALS	INCH	GALS	INCH	GALS
0.00	00,000	12.75	01,700	25.50	04,285	38.25	07,342	51.00	10,632
0.25	00,018	13.00	01,744	25.75	04,341	38.50	07,405	51.25	10,697
0.50	00,038	13.25	01,788	26.00	04,398	38.75	07,468	51.50	10,763
0.75	00,058	13.50	01,833	26.25	04,454	39.00	07,531	51.75	10,828
1.00	00,079	13.75	01,878	26.50	04,511	39.25	07,594	52.00	10,894
1.25	00,101	14.00	01,923	26.75	04,568	39.50	07,657	52.25	10,959
1.50	00,124	14.25	01,969	27.00	04,625	39.75	07,721	52.50	11,025
1.75	00,148	14.50	02,015	27.25	04,683	40.00	07,784	52.75	11,090
2.00	00,172	14.75	02,061	27.50	04,740	40.25	07,848	53.00	11,156
2.25	00,197	15.00	02,108	27.75	04,798	40.50	07,911	53.25	11,221
2.50	00,223	15.25	02,155	28.00	04,856	40.75	07,975	53.50	11,287
2.75	00,249	15.50	02,202	28.25	04,914	41.00	08,039	53.75	11,353
3.00	00,276	15.75	02,249	28.50	04,972	41.25	08,102	54.00	11,418
3.25	00,303	16.00	02,297	28.75	05,030	41.50	08,166	54.25	11,484
3.50	00,331	16.25	02,345	29.00	05,088	41.75	08,230	54.50	11,549
3.75	00,360	16.50	02,393	29.25	05,147	42.00	08,294	54.75	11,615
4.00	00,389	16.75	02,441	29.50	05,206	42.25	08,358	55.00	11,680
4.25	00,419	17.00	02,490	29.75	05,265	42.50	08,423	55.25	11,746
4.50	00,450	17.25	02,539	30.00	05,324	42.75	08,487	55.50	11,811
4.75	00,481	17.50	02,588	30.25	05,383	43.00	08,551	55.75	11,877
5.00	00,512	17.75	02,638	30.50	05,442	43.25	08,615	56.00	11,942
5.25	00,544	18.00	02,688	30.75	05,502	43.50	08,680	56.25	12,008
5.50	00,576	18.25	02,738	31.00	05,561	43.75	08,744	56.50	12,073
5.75	00,609	18.50	02,788	31.25	05,621	44.00	08,809	56.75	12,139
6.00	00,643	18.75	02,839	31.50	05,681	44.25	08,873	57.00	12,204
6.25	00,676	19.00	02,889	31.75	05,741	44.50	08,938	57.25	12,270
6.50	00,711	19.25	02,940	32.00	05,801	44.75	09,003	57.50	12,335

**STEP 12:** Compare the result to the liquid volume recorded on the bill of lading. Follow company procedures for verifying and reporting discrepancies. In the case of a product shortage, your supervisor and the supplier must be notified BEFORE unloading the railcar.



**STEP 13:** Lower the rod and replace the gauging device head cap.

Once these tests and inspections are complete and you are assured there are no leaks or tank car damage that would cause the car to be rejected, follow your company procedure to continue the preparation to unload the tank car.



## Volume Correction Factors

The accurate measurement of liquefied petroleum gas by volume can be accomplished by correcting the volume of gas as measured at an observed temperature to the volume that would exist at the standard base temperature of 60°F. In order to make these volume corrections, it is necessary to know the specific gravity of the LP-gas at 60 °F.

The Liquid Density (lb/gal) @ 60 °F and specific gravity are typically indicated on the Bill of Lading.

To convert a measured volume at any existing temperature to a corrected volume at 60°F:

Determine the gravity at 60°F by weighing a known volume, by hydrometer, or by reference to shipping papers. Refer to the column in Table 1 corresponding to this gravity and read the volume conversion factor opposite the observed temperature. Multiply the measured volume by this factor to obtain the volume at 60°F.

## Calculation

TC OUTAGE:	" @	°F =	GLS	Record the Outage in Inches, Temperature, and Outage in Gallons from appropriate Tank Car Outage Table		
WATER CAP: <i>(Actual W.C. should be stenciled on car.)</i>	-	GLS = <i>Outage in Gallons recorded above.</i>	GROSS *	VOL. COR. = <i>Factor from table below for S.G. and temperature</i>	NET	





**Table 1. REDUCTION OF VOLUME TO 60°F—AGAINST SPECIFIC GRAVITY 60/60°F—FOR LP-GASES**  
(Abridgement of A.S.T.M. Table 24-LPG)

Observed Temper- ature, °F.	SPECIFIC GRAVITY 60/60°F.															
	0.495 TO 0.504	0.505 TO 0.514	0.515 TO 0.524	0.525 TO 0.534	0.535 TO 0.544	0.545 TO 0.554	0.555 TO 0.564	0.565 TO 0.574	0.575 TO 0.584	0.585 TO 0.594	0.595 TO 0.604	0.605 TO 0.614	0.615 TO 0.624	0.625 TO 0.634	0.635 TO 0.644	0.645 TO 0.654
	FACTOR FOR REDUCING VOLUME TO 60°F.															
-20	1.120	1.114	1.100	1.104	1.099	1.093	1.090	1.086	1.082	1.079	1.076	—	—	—	—	—
-19	1.118	1.113	1.108	1.103	1.098	1.094	1.089	1.085	1.081	1.078	1.075	—	—	—	—	—
-18	1.117	1.111	1.106	1.101	1.097	1.093	1.088	1.084	1.080	1.077	1.074	—	—	—	—	—
-17	1.115	1.110	1.105	1.100	1.095	1.091	1.086	1.082	1.079	1.076	1.073	—	—	—	—	—
-16	1.114	1.108	1.103	1.098	1.094	1.090	1.085	1.081	1.078	1.075	1.072	—	—	—	—	—
-15	1.112	1.107	1.102	1.097	1.093	1.089	1.084	1.080	1.077	1.074	1.071	—	—	—	—	—
-14	1.111	1.106	1.101	1.096	1.092	1.088	1.083	1.079	1.076	1.073	1.070	—	—	—	—	—
-13	1.109	1.104	1.099	1.095	1.091	1.087	1.082	1.078	1.075	1.072	1.069	—	—	—	—	—
-12	1.108	1.103	1.098	1.093	1.089	1.085	1.081	1.077	1.074	1.071	1.068	—	—	—	—	—
-11	1.106	1.101	1.096	1.092	1.088	1.084	1.080	1.076	1.073	1.070	1.067	—	—	—	—	—
-10	1.103	1.100	1.095	1.091	1.087	1.083	1.079	1.075	1.072	1.069	1.066	—	—	—	—	—
-9	1.104	1.099	1.094	1.090	1.086	1.082	1.078	1.074	1.071	1.068	1.065	—	—	—	—	—
-8	1.102	1.098	1.093	1.089	1.085	1.081	1.077	1.073	1.070	1.067	1.064	—	—	—	—	—
-7	1.101	1.096	1.091	1.087	1.083	1.080	1.076	1.072	1.069	1.067	1.063	—	—	—	—	—
-6	1.099	1.095	1.090	1.086	1.082	1.079	1.075	1.071	1.068	1.066	1.062	—	—	—	—	—
-5	1.098	1.094	1.089	1.085	1.081	1.078	1.074	1.070	1.067	1.065	1.061	—	—	—	—	—
-4	1.097	1.093	1.088	1.084	1.080	1.077	1.073	1.069	1.066	1.064	1.060	—	—	—	—	—
-3	1.096	1.092	1.087	1.083	1.079	1.075	1.072	1.068	1.065	1.063	1.059	—	—	—	—	—
-2	1.094	1.090	1.086	1.082	1.078	1.075	1.071	1.068	1.065	1.063	1.059	—	—	—	—	—
-1	1.093	1.089	1.085	1.081	1.077	1.074	1.070	1.067	1.064	1.062	1.058	—	—	—	—	—
0	1.092	1.088	1.084	1.080	1.076	1.073	1.069	1.066	1.063	1.061	1.057	1.055	1.053	1.051	1.049	1.048
1	1.090	1.086	1.083	1.079	1.075	1.072	1.068	1.065	1.062	1.060	1.056	1.054	1.052	1.050	1.049	1.047
2	1.089	1.085	1.081	1.077	1.074	1.070	1.067	1.064	1.061	1.059	1.055	1.053	1.051	1.050	1.048	1.046
3	1.088	1.084	1.080	1.076	1.073	1.069	1.066	1.063	1.060	1.058	1.054	1.052	1.050	1.049	1.047	1.045
4	1.086	1.082	1.079	1.075	1.071	1.068	1.065	1.062	1.059	1.057	1.054	1.052	1.050	1.048	1.046	1.045
5	1.085	1.081	1.077	1.074	1.070	1.067	1.063	1.061	1.058	1.055	1.053	1.051	1.049	1.047	1.045	1.044
6	1.084	1.080	1.076	1.072	1.069	1.065	1.062	1.059	1.057	1.054	1.052	1.050	1.048	1.046	1.045	1.043
7	1.082	1.078	1.075	1.071	1.068	1.064	1.061	1.058	1.056	1.053	1.051	1.049	1.047	1.045	1.044	1.042
8	1.081	1.077	1.074	1.070	1.066	1.063	1.060	1.057	1.055	1.052	1.050	1.048	1.046	1.044	1.043	1.042
9	1.079	1.076	1.072	1.069	1.065	1.062	1.059	1.056	1.054	1.051	1.049	1.047	1.045	1.044	1.042	1.041
10	1.078	1.074	1.071	1.067	1.064	1.061	1.058	1.055	1.053	1.050	1.048	1.046	1.044	1.043	1.041	1.040
11	1.077	1.073	1.070	1.066	1.063	1.060	1.057	1.054	1.052	1.049	1.047	1.045	1.043	1.042	1.040	1.039
12	1.075	1.071	1.068	1.064	1.061	1.059	1.056	1.053	1.051	1.048	1.046	1.044	1.043	1.041	1.040	1.038
13	1.074	1.070	1.067	1.063	1.060	1.057	1.054	1.052	1.050	1.047	1.045	1.043	1.042	1.040	1.039	1.038
14	1.072	1.069	1.066	1.062	1.059	1.056	1.053	1.051	1.049	1.046	1.044	1.042	1.041	1.039	1.038	1.037
15	1.071	1.068	1.064	1.061	1.058	1.055	1.052	1.050	1.047	1.045	1.043	1.042	1.040	1.039	1.037	1.036
16	1.070	1.066	1.063	1.060	1.056	1.053	1.051	1.048	1.046	1.044	1.042	1.041	1.039	1.038	1.036	1.035
17	1.069	1.065	1.062	1.058	1.055	1.052	1.050	1.047	1.045	1.043	1.041	1.040	1.038	1.037	1.036	1.034
18	1.067	1.064	1.061	1.057	1.054	1.051	1.049	1.046	1.044	1.042	1.040	1.039	1.037	1.036	1.035	1.034
19	1.066	1.062	1.059	1.056	1.053	1.050	1.047	1.045	1.043	1.041	1.039	1.038	1.036	1.035	1.034	1.033
20	1.064	1.061	1.058	1.054	1.051	1.049	1.046	1.044	1.042	1.040	1.038	1.037	1.035	1.034	1.033	1.032
21	1.063	1.060	1.056	1.053	1.050	1.048	1.045	1.043	1.041	1.039	1.037	1.036	1.034	1.033	1.032	1.031
22	1.061	1.058	1.055	1.052	1.049	1.046	1.044	1.042	1.040	1.038	1.037	1.035	1.034	1.033	1.031	1.030
23	1.060	1.057	1.053	1.051	1.048	1.045	1.043	1.041	1.039	1.037	1.036	1.034	1.033	1.032	1.031	1.030
24	1.058	1.055	1.052	1.049	1.046	1.044	1.042	1.040	1.038	1.036	1.035	1.033	1.032	1.031	1.030	1.029
25	1.057	1.054	1.050	1.048	1.045	1.043	1.041	1.039	1.037	1.035	1.034	1.032	1.031	1.030	1.029	1.028
26	1.055	1.052	1.049	1.047	1.044	1.042	1.039	1.037	1.036	1.034	1.033	1.031	1.030	1.029	1.028	1.027
27	1.054	1.051	1.048	1.045	1.043	1.041	1.038	1.036	1.035	1.033	1.032	1.031	1.029	1.028	1.027	1.027
28	1.052	1.049	1.047	1.044	1.041	1.039	1.037	1.035	1.034	1.032	1.031	1.030	1.029	1.027	1.027	1.026
29	1.051	1.048	1.045	1.043	1.040	1.038	1.036	1.034	1.033	1.031	1.030	1.029	1.028	1.027	1.026	1.025
30	1.049	1.046	1.044	1.041	1.039	1.037	1.035	1.033	1.032	1.030	1.029	1.028	1.027	1.026	1.025	1.024
31	1.047	1.045	1.042	1.040	1.038	1.036	1.034	1.032	1.030	1.029	1.028	1.027	1.026	1.025	1.024	1.023
32	1.046	1.043	1.041	1.038	1.036	1.035	1.033	1.031	1.029	1.028	1.026	1.025	1.024	1.023	1.023	1.023
33	1.044	1.042	1.040	1.037	1.035	1.034	1.032	1.030	1.029	1.027	1.026	1.025	1.024	1.023	1.022	1.022
34	1.043	1.040	1.038	1.036	1.034	1.032	1.031	1.029	1.028	1.026	1.025	1.024	1.023	1.022	1.022	1.021
35	1.041	1.039	1.037	1.035	1.033	1.031	1.029	1.028	1.027	1.025	1.024	1.023	1.022	1.022	1.021	1.020
36	1.039	1.037	1.035	1.033	1.031	1.030	1.028	1.027	1.026	1.024	1.023	1.022	1.021	1.021	1.020	1.019
37	1.038	1.036	1.033	1.032	1.030	1.029	1.027	1.026	1.024	1.023	1.022	1.021	1.021	1.020	1.019	1.019
38	1.036	1.034	1.032	1.031	1.029	1.027	1.026	1.025	1.023	1.022	1.021	1.020	1.020	1.019	1.018	1.018
39	1.035	1.033	1.031	1.030	1.029	1.028	1.026	1.025	1.024	1.022	1.021	1.020	1.020	1.019	1.018	1.017
40	1.033	1.031	1.029	1.028	1.026	1.025	1.024	1.023	1.021	1.020	1.019	1.019	1.018	1.017	1.017	1.016
41	1.031	1.030	1.028	1.027	1.025	1.024	1.023	1.022	1.020	1.019	1.018	1.018	1.017	1.016	1.016	1.015
42	1.028	1.028	1.024	1.023	1.024	1.023	1.022	1.021	1.020	1.019	1.018	1.017	1.016	1.016	1.015	1.015
43	1.028	1.027	1.025	1.024	1.022	1.021	1.020	1.019	1.018	1.017	1.016	1.016	1.015	1.015	1.014	1.014
44	1.027	1.025	1.023	1.022	1.021	1.020	1.019	1.018	1.017	1.016	1.015	1.015	1.014	1.014	1.013	1.013
45	1.025	1.024	1.022	1.021	1.020	1.019	1.018	1.017	1.016	1.015	1.014	1.014	1.013	1.013	1.013	1.012
46	1.023	1.022	1.021	1.020	1.018	1.018	1.017	1.016	1.015	1.014	1.014	1.013	1.013	1.012	1.012	1.011
47	1.022	1.021	1.019	1.018	1.017	1.016	1.015	1.015	1.014	1.013	1.013	1.012				



# Diversified CPC International, Incorporated

24338 West Durkee Road | Channahon, IL 60410 | 815-424-2000

Table 1 (Continued)

Observed Temper- ature, °F.	SPECIFIC GRAVITY 60/60F.															
	0.495 TO 0.504	0.505 TO 0.514	0.515 TO 0.524	0.525 TO 0.534	0.535 TO 0.544	0.545 TO 0.554	0.555 TO 0.564	0.565 TO 0.574	0.575 TO 0.584	0.585 TO 0.594	0.595 TO 0.604	0.605 TO 0.614	0.615 TO 0.624	0.625 TO 0.634	0.635 TO 0.644	0.645 TO 0.654
	FACTOR FOR REDUCING VOLUME TO 60F.															
50	1.017	1.016	1.015	1.014	1.013	1.013	1.012	1.011	1.011	1.010	1.010	1.009	1.009	1.008	1.008	1.008
51	1.015	1.014	1.013	1.013	1.012	1.011	1.011	1.010	1.010	1.009	1.009	1.008	1.008	1.007	1.007	1.007
52	1.014	1.012	1.012	1.012	1.011	1.010	1.010	1.009	1.009	1.008	1.008	1.007	1.007	1.006	1.006	1.006
53	1.012	1.011	1.011	1.010	1.009	1.009	1.008	1.008	1.008	1.007	1.007	1.007	1.006	1.006	1.006	1.006
54	1.010	1.009	1.009	1.008	1.008	1.008	1.007	1.007	1.007	1.006	1.006	1.006	1.005	1.005	1.005	1.005
55	1.009	1.008	1.008	1.007	1.007	1.006	1.006	1.006	1.006	1.005	1.005	1.005	1.005	1.004	1.004	1.004
56	1.007	1.006	1.006	1.005	1.005	1.005	1.005	1.005	1.004	1.004	1.004	1.004	1.004	1.003	1.003	1.003
57	1.005	1.005	1.005	1.004	1.004	1.004	1.004	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.002	1.002
58	1.003	1.003	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002
59	1.002	1.002	1.002	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
60	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
61	0.998	0.998	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999
62	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997
63	0.995	0.995	0.995	0.995	0.996	0.996	0.996	0.996	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997
64	0.993	0.994	0.994	0.994	0.994	0.995	0.995	0.995	0.995	0.996	0.996	0.996	0.996	0.997	0.997	0.997
65	0.991	0.992	0.992	0.993	0.993	0.993	0.994	0.994	0.994	0.995	0.995	0.995	0.996	0.996	0.996	0.996
66	0.990	0.990	0.990	0.991	0.992	0.992	0.993	0.993	0.993	0.993	0.994	0.994	0.995	0.995	0.995	0.995
67	0.988	0.989	0.989	0.990	0.990	0.990	0.991	0.991	0.992	0.992	0.993	0.994	0.994	0.994	0.994	0.994
68	0.986	0.987	0.987	0.988	0.988	0.989	0.990	0.990	0.991	0.991	0.992	0.993	0.993	0.993	0.993	0.993
69	0.985	0.985	0.986	0.987	0.987	0.988	0.989	0.989	0.990	0.990	0.991	0.992	0.992	0.992	0.993	0.993
70	0.983	0.984	0.984	0.985	0.986	0.987	0.988	0.988	0.989	0.989	0.990	0.991	0.991	0.991	0.992	0.992
71	0.981	0.982	0.983	0.984	0.984	0.985	0.986	0.987	0.988	0.988	0.989	0.990	0.990	0.990	0.990	0.990
72	0.979	0.981	0.981	0.982	0.983	0.984	0.985	0.986	0.987	0.987	0.988	0.989	0.989	0.990	0.990	0.990
73	0.978	0.979	0.980	0.981	0.982	0.983	0.984	0.985	0.986	0.986	0.987	0.988	0.988	0.989	0.989	0.989
74	0.976	0.977	0.978	0.980	0.980	0.982	0.983	0.984	0.985	0.985	0.986	0.987	0.987	0.988	0.988	0.988
75	0.974	0.976	0.977	0.978	0.979	0.980	0.981	0.983	0.983	0.984	0.985	0.986	0.987	0.988	0.988	0.988
76	0.972	0.974	0.975	0.977	0.978	0.979	0.980	0.981	0.982	0.983	0.984	0.985	0.986	0.986	0.987	0.987
77	0.970	0.972	0.973	0.975	0.976	0.978	0.979	0.980	0.981	0.982	0.983	0.984	0.985	0.985	0.986	0.986
78	0.969	0.970	0.972	0.974	0.975	0.977	0.978	0.979	0.980	0.981	0.982	0.983	0.984	0.984	0.985	0.985
79	0.967	0.969	0.970	0.972	0.974	0.975	0.977	0.978	0.979	0.980	0.981	0.982	0.983	0.984	0.984	0.985
80	0.965	0.967	0.969	0.971	0.972	0.974	0.975	0.977	0.978	0.979	0.981	0.981	0.982	0.983	0.983	0.984
81	0.963	0.965	0.967	0.969	0.971	0.973	0.974	0.975	0.977	0.978	0.980	0.980	0.981	0.982	0.982	0.983
82	0.961	0.963	0.966	0.968	0.969	0.971	0.972	0.974	0.976	0.977	0.979	0.980	0.981	0.982	0.982	0.983
83	0.959	0.962	0.964	0.966	0.968	0.970	0.971	0.973	0.975	0.976	0.978	0.979	0.980	0.981	0.981	0.981
84	0.957	0.960	0.962	0.965	0.966	0.968	0.970	0.972	0.974	0.975	0.977	0.978	0.978	0.979	0.980	0.981
85	0.956	0.958	0.960	0.963	0.965	0.967	0.969	0.971	0.972	0.974	0.976	0.977	0.978	0.978	0.979	0.980
86	0.954	0.956	0.959	0.961	0.964	0.966	0.968	0.970	0.972	0.973	0.975	0.976	0.977	0.977	0.978	0.979
87	0.952	0.955	0.957	0.960	0.962	0.964	0.966	0.968	0.970	0.972	0.974	0.975	0.976	0.977	0.977	0.978
88	0.950	0.953	0.955	0.958	0.961	0.963	0.965	0.967	0.969	0.971	0.973	0.974	0.975	0.976	0.977	0.977
89	0.948	0.951	0.954	0.957	0.959	0.962	0.964	0.966	0.968	0.970	0.972	0.973	0.974	0.975	0.976	0.977
90	0.946	0.949	0.952	0.955	0.958	0.960	0.962	0.964	0.967	0.968	0.971	0.972	0.973	0.974	0.975	0.976
91	0.944	0.947	0.951	0.954	0.956	0.959	0.961	0.963	0.965	0.967	0.970	0.971	0.972	0.973	0.974	0.975
92	0.942	0.946	0.949	0.952	0.955	0.957	0.959	0.962	0.964	0.966	0.969	0.970	0.971	0.972	0.973	0.974
93	0.940	0.944	0.947	0.950	0.953	0.956	0.958	0.961	0.963	0.965	0.968	0.969	0.970	0.971	0.972	0.973
94	0.938	0.942	0.946	0.949	0.952	0.954	0.957	0.959	0.962	0.964	0.967	0.968	0.969	0.970	0.972	0.972
95	0.937	0.940	0.944	0.947	0.950	0.953	0.956	0.958	0.961	0.963	0.966	0.967	0.968	0.970	0.971	0.972
96	0.935	0.939	0.942	0.946	0.949	0.952	0.954	0.957	0.959	0.962	0.965	0.966	0.967	0.968	0.970	0.971
97	0.933	0.937	0.941	0.944	0.947	0.950	0.953	0.956	0.958	0.961	0.964	0.965	0.966	0.967	0.968	0.969
98	0.931	0.935	0.939	0.943	0.946	0.949	0.952	0.954	0.957	0.960	0.963	0.964	0.966	0.967	0.968	0.969
99	0.929	0.933	0.937	0.941	0.945	0.948	0.950	0.953	0.956	0.959	0.962	0.963	0.965	0.966	0.967	0.968
100	0.927	0.932	0.936	0.940	0.943	0.946	0.949	0.952	0.954	0.958	0.961	0.962	0.964	0.965	0.966	0.967
101	0.925	0.930	0.934	0.938	0.941	0.945	0.948	0.951	0.953	0.957	0.960	0.962	0.963	0.964	0.965	0.966
102	0.923	0.928	0.932	0.936	0.940	0.943	0.947	0.950	0.952	0.956	0.959	0.961	0.962	0.963	0.964	0.965
103	0.921	0.927	0.931	0.935	0.938	0.942	0.945	0.948	0.951	0.954	0.958	0.960	0.961	0.963	0.964	0.965
104	0.919	0.925	0.929	0.933	0.937	0.940	0.944	0.947	0.950	0.953	0.957	0.959	0.960	0.962	0.963	0.964
105	0.917	0.923	0.927	0.931	0.935	0.939	0.943	0.946	0.949	0.952	0.956	0.958	0.959	0.961	0.962	0.963
106	0.915	0.921	0.925	0.929	0.933	0.937	0.941	0.944	0.948	0.951	0.955	0.957	0.958	0.960	0.961	0.963
107	0.913	0.919	0.923	0.928	0.932	0.936	0.940	0.943	0.947	0.950	0.954	0.958	0.958	0.960	0.961	0.963
108	0.911	0.917	0.922	0.926	0.930	0.935	0.939	0.942	0.945	0.949	0.953	0.958	0.958	0.960	0.961	0.963
109	0.909	0.915	0.920	0.925	0.929	0.933	0.937	0.940	0.944	0.948	0.952	0.954	0.956	0.957	0.959	0.960
110	0.907	0.913	0.918	0.923	0.927	0.932	0.936	0.939	0.943	0.947	0.951	0.953	0.955	0.956	0.958	0.959
111	0.905	0.911	0.916	0.921	0.926	0.931	0.935	0.938	0.942	0.946	0.950	0.952	0.954	0.955	0.956	0.958
112	0.903	0.909	0.914	0.920	0.924	0.929	0.934	0.937	0.941	0.945	0.949	0.951	0.953	0.955	0.956	0.958
113	0.901	0.908	0.913	0.918	0.923	0.928	0.933	0.936	0.940	0.944	0.948	0.950	0.952	0.954	0.955	0.957
114	0.899	0.906	0.911	0.917	0.921	0.926	0.931	0.934	0.938	0						