TABLE A - 1

Thermodynamic Properties of Saturated Water and Dry Saturated Steam (Pressure Basis)

(Datum for Enthalpy and Entropy O°C)

p bar	t _s °C	Vf m³/kg	wg m³/kg	h _f kJ/kg	hfg kJ/kg	h _g kJ/kg	sf kJ kg K	sfg kJ kg K	sg kJ kg K
0.00602	2 0	0.001002	206.2987	-0.0	2501.6	2501.6	-0.0	9.1578	9.1578
0.00611		0.0010002	206.1629	+0.0	2501.6	2501.6	0	9.1575	9.1575
0.010	6.98	0.001001	129.2107	29.3	2485.0	2514.4	0.1060	8.8706	8.9767
0.020	17.51	0.0010012	67.0116	73.5	2460.2	2533.6	0.2606	8.4640	8.7246
0.030	,24.10	0.0010027	45.6700	101.0	2444.6	2545.6	0.3543	8.2342	8.5785
0.040	28.98	0.0010040	34.8033	121.4	2433.1	2554.5	0.4225	8.0530	8.4755
0.050	32.90	0.0010052	28.1945	137.8	2423.8	2561.6	0.4763	7.9197	8.3960
0.060	36.18	0.0010064	23.7406	151.5	2418.0	2567.5	0.5209	7.8103	8.3312
0.070	39.03	0.0010074	20.5304	163.4	2409.2	2572.6	0.5591	7.7176	8.2767
0.080	41.54	0.0010084	18.1038	173.9	2403.2	2577.1	0.5926	7.6370	8.2295
0.090	43.79	0.0010094	16.2034	183.3	2397.9	2581.1	0.6224	7.5657	8.1881
0.10	45.83	0.0010102	14.6737	191.8	2392.9	2584.8	0.6493	7.5018	8.1511
0.15	54.00	0.0010140	10.0221	226.0	2373.2	2599.2	0.7549	7.2544	8.0093
0.20	60.09	0.0010172	7.6492	251.5	2358.4	2609.9	0.8321	7.0773	7.9094
0.25	64.99	0.0010199	6.2040	272.0	2346.4	2618.3	0.8933	6.9390	7.8423
0.30	69.13	0.0010223	5.2290	289.3	2336.1	2625.4	0.9441	6.8254	7.7695
0.35	72.71	0.0010245	4.5255	304.3	2327.2	2631.5	0.9878	6.7288	7.7166
0.40		0.0010265	3.9932	317.7	2319.2	2636.9	1.0261	6.6448	7.6709
0.45	78.74	0.0010284	3.5761	329.6	2312.0	2641.7	1.0603	6.5703	7.6306
0.50		0.0010301	3.2401	340.6	2305.4	2646.0	1.0912	6.5035	7.5947
0.60		0.0010333	2.7317	359.9	2293.6	2653.6	1.1455	6.3872	7.5327
0.70		0.0010361		376.8	2283.3	2660.1			7.4804
0.80	93.51	0.0010387	2.0869	391.7	2274.0	2665.8		6.2022	7.4352
0.90	96.71	0.0010412	1.8691					6.1258	7.3954
1.00	99.63	0.0010434	1.6937	417.5	2257.9	2675.4	1 3027	6.0571	
1.01325	100.00	0.0010437	1.6730	419.1	2256.9	2676.0	13060	6.0485	7.3598
1.20		0.0010476		439.4	22411	2683.4	13600	5.9375	7.3554
1.40	109.32	0.0010513	1.2363	458.4	2231.0	2690.3	1.4100	5.8356	7.2984
1.60	113.32	0.0010547		475.4	2220.0	2696.2	1.4109	5.7467	7.2465
		0.0010579		490.7	2210.8	2701.5	1.4944	5.6677	7.2017 7.1622

TABLE A - 1 (Contd.)

	p bar	t _s °C	m³/l		vg n³/kg	h _i kJ/		hfg J/kg	hg kJ/kg	9	sf kJ kg K	sfg kJ kg K	*g kJ kg K
	2.00	120.2	3 0.0010	608 0	.885	10 50	4.7 2	201.6	2706	.3 1	.5301	5.5967	
2	250	127.4	3 0.0010	676 0	.7184	0 535	5.4 2	281.0	2716	4 1	.6072		111506
3	.00	135.5	4 0.0010	735 0	6055	3 561	.4 2	163.2	2724	.7 1	.6717		1750
3	.50	138.88	0.0010	789 0.	5239	7 584	.3 21	47.3	2731	6 1	7273	5.2118	2.030
4.	00	143.63	0.00108	339 0.	4622	0 604	.7 21	32.9	2737.		7764		26000
4.	50	147.92	0.00108	885 0.	4137	3 623	.2 21	19.7	2742.	9 1.	8204		2,0343
5.0	00	151.85	0.00109	28 0	37466	640	1 21	07.4	2747	E 1	0504		-,034/
6.0		158.84			31546			85.0	2747.		8604		6.8192
7.0		164.96	0.00110		27268			54.9	2755.	9 1.	930H	4.8267	6,7575
8.0		170.41	0.00111		4026				2762.0			4.7134	6.7052
9.0		75.36	0.00112		1482			16.5	2767.5	-	0457	4.6139	6.6596
					1402	742.0	202	29.5	2772.1	2.0	0941	4.5251	6.6192
10.00	100		0.001127	THE STREET	9430	762.6	5 201	3.6	2776.2	2.1	382	4.4447	
11.00			0.001133		7739	781.1	199	8.6	2779.7		786	4.3712	6.5828
12.00	-33		0.001138		5321	798.4	198		2782.7		160	4.3034	6.5498
13.00			0.001143		5114	814.7	197	2014	2785.4	100000	509		6,5194
14.00	19	95.04 (0.001148	9 0.14	1073	830.1	195		2787.8	100000	836	4.2404	6.4913
15.00	19	8.28 0	.0011538	3 013	167	0446					036	4.1815	6.4651
16.00			.0011586			844.6	194		2789.9	2.3	144	4.1262	6.4406
17.00	20		.0011633	0.000		858,5	1933		2791.7	2.3	436	4.0740	6.4176
18.00		and the second	0011678			871.8	1921		2793.4	2.3	-	4.0246	
19.00			0011723			884.5	1910	3 2	794.8	2.39	PIMETON	3.9776	6.3958
20.00		15000000000		Control of		896.8	1899	3 2	796.1	2.42		3.9327	6.3751
25.00	212	37 0.0	0011766	0.0995	49	908.6	1990				-	3.9327	6.3555
	223.	94 0.0	0011972	0.0700	110	222	1000	.1 2	797.2	2.44	168	3.8909	6.3377
0.00	233.	84 0.0	012163	DOSEC	22		1000	0 2	800.9	2.55	42	3.6994	6.2537
		2.4 U.U	012343	0.0570	20 44		Milde and	VE	002.3	264	55 :	E202	
	A 10	- 0.0	01232	10407	400 44		1752.	2 28	302.0	272	50 5	2070	6.1838
5.00	257.4	1 0.00	012691	0.0440	49 10			3 20	300.3	270	EE ?	2700	6.1229
				.0440.	20 11	22.1	1675.	6 27	7977	286	10		6.0685
					-					2.00	12 3	3.1579	6.0191

2:

TABLE A - 1 (Contd.)

p	,C	m³/kg		hy kJ/kg	hra kJ/kg	h _Q kJ/kg	N/ No.3	19	*3
							ky K	kg K	kg K
		0.0012858		1154.5	1639.7	2794.2	2.9207	3.0528	5.9736
		0.0013023		1184.9	1605.0	2789.9	2.9758	2.9551	5.9309
		0.0013187		1213.7	1571.3	2785.0	3.0274	2.8633	5.8907
		0.0013350		1241.2	1538.3	2779.5	3.0760	2.7766	5.8526
70.00	285.80	0.0013514	0.027368	1267.5	1506.0	2773.4	3.1220	2.6941	5.8161
75.00	290.51	0.0013678	0.025323	1292.7	1474.1	2766.9	3.1658	2.6152	5.7810
80.00	294.98	0.0013843	0.023521	1317.2	1442.7	2759.9	3.2077	2.5393	5.7470
85.00	299.24	0.0014010	0.021923	1340.8	1411.6	2752.4	3.2480	2.4661	5.7141
90.00	303.31	0.0014179	0.020493	1363.8	1380.8	2744.6	3.2867	2.3952	5.6820
95.00	307.22	0.0014351	0.019206	1386.2	1350.2	2736.3	3,3242	2.3264	5.6506
100.00	310.96	0.0014526	0.018041	1408.1	1319.7	2727.7	3.3606	2.2592	5.6198
		0.0014887		1450.6	1258.8	2709.3	3.4304	2.1292	5.5596
120.00	324.64	0.0015267	0.014285	1491.7	1197.5	2689.2	3.4971	2.0032	5,500
130.00	330.81	0.0015671	0.012800	1531.1	1135.1	2667.0	3.5614	1.8795	5,440
140.00	336.63	0.0016105	0.011498	1571.5	1070.9	2642.4	3.6241	1.7564	5.380
		0.0016578		1610.9	1004.2	2615.1	3.6857	1.6323	5.318
		0.0017102			934.5	2584.9	3.7470	1.5063	5,253
70.00 3	52.26	0.0017695	0.0083721	1691.6	860.0	2551.6	3.8106	1.3749	5.185
		0.0018399			779.0	2513.9	3.8766	1.2362	5.112
90.00 3	61.44	0.0019262	0.0066759	1778.7	691.8	2470.5	3.9430	1.0900	2000000
00,00 3	65.71	0.0020374	0.0058745	1826.6	591.6	2418.2	4.0151	0.9259	4.941
10.00 3	69.79	0.0022018	0.0050225	1886.3				0.7172	
		0.0026675			50000000			0.2881	
21.20 3	74.15	2.0031700	0.0051700	2107.4	0	2107.4	4.4429	0	4.442

TABLE A - 2 Thermodynamic Properties of Saturated Water and Dry Saturated Steam (Temperature Basis) (Datum for Enthalpy and Entropy O°C)

			(Dacum 10						
. t _s			/f V _g /kg m³/	kg kJ/l		4 24	sf kJ kg K	sfg kJ kg K	sg kJ kg K
0 0.0 2 4 6	0.006 0.0070 0.0081 0.0093	0.00 055 0.001 029 0.001	0000 157.	163 +0 923 8 272 16	0.0 2501 0.0 2501 3.4 2496 5.8 2492 5.2 2487	.6 2501. .8 2505. .1 2508.9	6 0 2 0.0306 9 0.0611	9.1575	9.1575 9.1047 9.0526
8	0.0107	20 0.001	0001 120.9	MES MES					THE PARTY OF THE P
10 12 14 15 16 18	0.0122 0.0140 0.01597 0.01703 0.01816 0.02062	0.0010 0.0010 0.0010 0.0010	0004 93.8 0007 82.9 008 77.9 010 73.3	35 50. 00 58. 78 62. 84 67.	4 2473. 8 2468. 9 2466. 1 2463.	2 2523.6 5 2527.2 1 2529.1 8 2530.9	0.1805 0.2098 0.2248 0.2388	8.7510 8.6731 8.5963 8.5382 8.5205	8.9020 8.8536 8.8060 8.7826 8.7593
20 25 30 35	0.023366 0.031660 0.042415 0.056216	6 0.00100 0 0.00100 5 0.00100	017 57.83 029 43.40 043 32.92 060 25.24	88 83.9	9 2454.3 3 2442.5 2430.7	2538.2 2547.3 2556.4	0.2963 0.3670 0.4365 0.5049	8.4458 8.3721 8.1922 8.0181	8.7135 8.6684 8.5592 8.4546
45 50	0.073750 0.095820 0.12335	0.00100	99 15.27	6 167.5 6 188.4 5 209.3	2406.9	2574.4 2583.3	0.5721 0.6383	7.8495 7.6861 7.5277	8.3543 8.2583 8.1661
	0.15741 0.19920 0.25009 0.31162	0.001014 0.001017 0.001019	9.5789 71 7.6785 9 6.2023	230.2 251.1 272.0	2370,8 2358.6 2346.3	2601.0 2609.7	0.7677	7.3741 7.2248 7.0798	8.0776 7.9925 7.9108
75 80 (85 (0.38549 0.47360 0.57803	0.001022 0.001025 0.001029 0.0010326	9 4.1341 2 3.4091 5 2.8288	313.9 334.9	2321.5 2308.8	2626.9 2635.4 2643.8	0.9548 1.0154 1.0753	6.8017	7.8321 7.7565 7.6835 7.6133
	.70109 .84526	0.0010361 0.0010399	2.3613	376.9	22832	2652.0 2660.1 2668.1	1.1925	6.4111 5.2873 6.1665	7.5454 7.4798 7.4166

TABLE A - 2 (Contd.)

15 C	p bar	vf m³/kg	wg m³/kg	h _f kJ/kg	hfg kJ/kg	hg kJ/kg	sr kJ	sfg kJ	sg kJ
							kg K	kg K	kg K
0	1.01325	0.001043	7 1.6730	419.1	2256.9	2676.0	1.3069	6.0485	7.3554
5	1.2030		7 1.4198	440.2	2243.6	2683.7	1,3630	5.9331	7.2962
1	1.4327	0.0010519	1.2099	461.3	2230.0	2691.3	1.4185	5.8203	7.2388
	1.6906	0.0010562	1.0363	482.5	2216.2	2698.7	1.4733	5.7099	7.1832
)	1.9854	0.0010606	0.89152	503.7	2202.2	2706.0	1.5276	5.6017	7.1293
,	2.3210	0.0010652	2 0.77023	525.0	2188.0	2713.0	1.5813	5.4957	7.0769
)	2.7013	0.0010700	0.66814	548.3	2173.6	2719.9	1.6344	5.3917	7.0261
,	3.1308	0.0010750	0.58181	567.7	2158.9	2726.6	1.6869	5.2897	6.9766
	3.6138	0.0010801	0.50849	589.1	2144.0	2733.1	1.7390	5.1894	6.9284
	4.1552	0.0010853	0.44597	610.6	2128.7	2739.3	1.7906	5.0910	6.8815
	4.7600	0.0010908	0.39245	632.1	2113.2	2745.4	1.8416	4.9941	6.8358
	5.4333	0.0010964	0.34644	653.8	2097.4	2751.2	1.8923	4.8989	6.7911
Ÿ	6.1806	0.0011022	0.30676	675.5	2081.3	2756.7	1.9425	4.8050	6.7475
	7.0077	0.0011082	0.27240	697.3	2064.8	2762.0	1.9923	4.7125	6.7048
	7.9202	0.0011145	0.24255	719.1	2047.9	2767.1	2.0416	4.6214	6.6630
	8.9244	0.0011209	0.21654	741.1	2030.7	2771.8	2.0906	4.5314	6.6221
	10.027	0.0011275	0.19380	763.1	2013.2	2776.3	2.1393	4.4426	6.5819
	11.233	0.0011344	0.17386	785.3	1995.2	2780.4	2.1876	4.3548	6.5424
	12.551	0.0011415	0.15632	807.5	1976.7	2784.3	2.2356	4.2680	6.5036
	13.987	0.0011489	0.14084	829.9	1957.9	2787.8	2.2833	4.1821	6.4654
	15.549	0.0011565	0.12716	852.4	1938.6	2790.9	2.3307	4.0971	6.4278
	17.213	0.0011644	0.11503	875.0	1918.8	2793.8	2.3778	4.0128	6.3906
	19.077	0.0011726	0.10424	897.7	1898.5	2796.2	2.4247	3.9293	6.3539
	21.060	0.0011811	0.094625	920.6	1877.6	2798.3	2.4713	3.8463	6.3176
	23.198	0.0011900						3.7639	
	25.501	0.0011992							
200	27.976	0.0012087							
- 19	30.632	0.0012187							
- 2	33.478	0.0012291							
	36.523	0.0012399							

TABLE A - 2 (Contd.)

t _s		p bar	wf m³/k	yg g m³/k		hfg kJ/kg	hg kJ/kg	sf kJ	sfg kJ	Z as
								kg K	kg K	1
250	39.	776	0.00125	513 0.0500	37 1085.9	1714.7	2800.4	2.7935	3.2773	6.02
255				32 0.0458		1688.5	2130.1	6.0.32	3 1 U E D	-
260				56 0.0421		1661.5	21300	2.004	3 1 1 6 1	100 m
265	50.8	77	0.00128	87 0.0387	10 1159.9	1633.5	41300	2.3300	311453	100 mm
270	55.0	58	0.00130	25 0.03558	38 1185.2	1604.6	2103.3	2.3103	2.4541	E
275	59.4	96	0.00131	70 0.03273	36 1210.9	1574.7	2103.3	3.0222	28725	E
280	64.2	02 (0.00133	24 0.03012	26 1236.8	1543.6	2/00.4	2.0003	2 7903	E
285	69.1	86 (0.00134	87 0.02773	3 1263.2	1511.3	2114.0	3.1140	2 7074	E 0-
290				59 0.02553		1477.6	2101.0	2.1011	2.6237	570
295	80.03	37 0	.001384	44 0.02351	3 1317.3	1442.6	2759.8	3.2079	2.5389	5.74
300	85.92	7 0	.001404	1 0.02164	9 1345.1	1406.0	2751.0	3.2552	2.4529	570
305				2 0.01992		1367.7	2741.1	3.3029	23656	5.66
10				0 0.018334		1327.6	2730.0	3.3512	2.2766	5.60
15				6 0.016856		1285.5	2717.6	3.4002	2.1856	5.50
20				5 0.015480		1241.1	2703.7	3.4500	2 0923	5.54
25				9 0.014195		1194.0	2688.0	3.5006	1 9961	5.40
30				5 0.012989		1143.6	2670.2	3.5528	1.8062	J.49
35	137.12	0.0	0015978	0.011854	1560.3	1089.5	2649.7			
10	146.05	0.0	0016387	0.010780	1595.5	1030.7	2626.2		1.7916	5.39
15	155.45	0.0	016858	0.009763	1 1632.5	966.4	2598.9	3.7193	1.5636	5.26 5.26
0	165.35	0.0	017411	0.008799	1 1671 0	90E 7				
5	175.77	0.0	018085	0.0078592	17166	095.7	2567.7	3.7800	1.4376	5.217
0	186.75	0.0	018959	0.0069398	17542	813.8	2530.4	3.8489	1.2953	5.144
5	198.33	0.00	020160	0.0060116	104.2	7213	2485.4	3.9210	1.1390	5.060
)	210.54	0.00	22136	0.0049728	1010.0	610.0	2428.0	4.0021	0.9558	4.957
	220.81	0.00	28427	0.0034659	1890.2	452.6	2342.8	4.1108	0.7036	4.814
				0.0034039	2046.7		2156.2			
15	221.20	0.	00317	0.00317	2107.4		2107.4			

Properties of Superheated Steam

(Specific Volume, v, m³/kg; Enthalpy, h, kJ/kg; Entropy, s, kJ/kg V)

Ab	s. Press.				- voidine,	-, / kg:								
1501	bar Tomas ac						1	emperati	ire - de	grees Cel	sius			
(Sat.	Temp. °C	.)	50	100	150	200	250	300	350	400	500	600	700	900
0.02 (17.5)	v h s	,	74.524 2594.4 8.9266	2688.5 9.1934	5 2783.7 4 9.4327	109.171 2880.0 9.6479	120.711 2977.7 9.8441	132.251 3076.8 10.0251	2111.1	155.329 3279.7 10.3512	178.405 3489.2	201,482	224.558	ALER-
0.04 (29.0)	h		37.240 2593.9 8.6016	43.027 2688.3 8.8730	3 2783.5 9.1125	54.580 2879.9 9.3279	60.351 2977.6 9.5241	66.122 3076.8 9.7051	71.892 3177.4 9.8735	77.662 3279.7	89.201 3489.2	100.740 3705.6	112.078	123.816
0.06 (36.2)	h s		24.812 2593.5 8.4135	28.676 2688.0 8.6854	2783.4 8.9251	37.383 2879.8 9.1406	40.232 2977.6 9.3369	44.079 3076.7 9.5179	47.927 3177.4 9.6863	51.773 3279.6 9.8441	59.467 3489.2	67.159 3705.6	74.852 3928.8 10.6394	82.544
0.08 (41.5)	h s		18.598 2593.1 8.2797	21.501 2687.8 8.5521	3 2783.2 8.7921	27.284 2879.7 9.0077	30.172 2977.5 9.2041	33.058 3076.7 9.3851	35.944 3177.3 9.5535	38.829 3279.6 9.7113	44.599 3489.1 10.0014	50.369 3705.5	56.138 3928.8 10.5066	61.908
0.10 45.8)	h s		14.869 2592.7 8.1754	17.195 2687.5 8.4486	2783.1	21.825 2879.6 8.9045	24.136 2977.4 9.1010	26.445 3076.6 9.2820	28.754 3177.3 9.4504	31.062 3279.6 9.6083	35.679 3489.1 9.8984	40.295 3705.5	44.910 3928.8 10.4036	49.526 4158.7
).50 81.3)	h s		=	3.4181 2682.6 7.6953	3.8893 2780.1 7.9406	4.3560 2877.7 8.1587	4.8205 2976.1 8.3564	5.2839 3075.7 8.5380	5.7467 3176.6 8.7068	6.2091 3279.0 8.8649	7.1335 3488.7 9.1552	8.0574 3785.2 9.4185	8.9810 3928.8 9.6606	9.9044 4158.5 9.8855
.00	h s		=	1.6955 2676.2 7.3618	1.9363 2776.3 7.6137	2.1723 2875.4 7.8349	2.4061 2974.5 8.0342	2.6387 3074.5 8.2166	2.8708 3175.6 8.3858	3.1025 3278.2 8.5442	3.5653 3488.1 8.8348	4.0277 3704.8 9.0982	4.4898 3928.2 9.3405	4.9517 4158.3 9.5654
	v h s		=	-	0.95954 2768.5 7.2794	1.0804 2870.5 7.5072	1.1989 2971.2 7.7096	1.3162 3072.1 7.8937	1.4328 3173.8 8.0688	1.5492 3276.7 8.2226	1.7812 3487.0 8.5139	2.0129 3704.0 8.7776		

Abs. Press.				100	Temp	perature	- degree	s Caleina				
(Sat. Temp. °C)	50	100	150	200	250	300	350	400	500			
200 V		100	0.63374	-	- C L				500	600	700	800
3.00 h	_	1	2760 4	0.71635	0.79644	0.87529	0.95352	1.0314	11000			-
(133.5)s	_	100.00	7.0771	2000.	296/4	30607	21710		1.1865	1.3412	1.4957	1.6499
v			7.0771	7.3119	7.5176	7.7034	7.8744	7.0338	2486.0			4157.3
4.00 h		-	0.47066	0.53426	0.59519	0 65 40-				8.5898	8.8325	9.0577
(143.6) s	-	-	2752.0	2860.4	2964.5	0.65485	0.71385	0.7725	0.88919	1.0054	1.1214	1 2270
(1-15.0) \$	-	-	6.9285		7.3800	The state of the s	3170.0	32736	34940	3702.3		1.2372
V	24					1.2012	1.1395	7.8994	81919	Q AECS	0.00-	4156.9
5.00 h		1 120	-	0.47496	0.47443 2961.1	0.52258	0.57005	061716	07.000	0.1505	0.0992	8.9246
(151.8) s	1	100	27	2855.1	2961.1	3064.8	3168.1	0.01716	0.71078	0.80395	0.89685	0.98956
		-	-	7.0592	7.2721	7.4614						
v	6200	1000	0.200					111340	O UM /U	2 3636	O FORM	
6.00 h	122	1		30407	0.39391 2951.6	0.43439	0.47419	0.51361	0.59184	0.66063	07471	
(158.8) s	-	1503111		2849.7	2951.6	3062.3	3166.2	3270.6	3482.7	3700.7	0.74714	0.82447
17 7 10 20			-	6.9662	7.1829	7.3740	7.5479	7.7090	8 0027	9 2670		4155.9
7.00 h	-	-	- (0.29992	033637	037120	0		0.0027	0.2078	8.5111	8.7368
A POST CONTRACTOR OF THE PROPERTY OF THE PROPE	- 0	-	2014	28442	0.33637 2954.0	0.37139	0.40571	0.43964	0.50689	0.57368	0.64021	0.7065
(165.0) s	-	_		6.8859	2954.0	3059.8	3164.3	3269.0	3481.6	36999	3924	4155.5
,				0.0055	7.1000	1.2991	7.4745	7.6362	7.9305	81959	8 430	0 000
8.00 h		-	- (0.26079	0.29321	0.32414	035434	030445		0.1.555	0.459	8.665
Control of the contro	700	-	-	2838.6	0.29321 2950.4	30573	3162.4	0.38416	0.44317	0.50172	0.5600	0.6181
(170.4) s	-	_	_		7.0397	Control of the Contro	0102,7	25013	2480.5	36991	3923.9	4155.
v								7.5729	7.8678	8.1336	8 377	8 603
9.00 h		-	- 0	.23032	0.25963	0.28739	0.31440	034101	0.30361			0.000
The state of the s	-	-	-	2832.7	2946.8	3054.7	3160.5	33660	0.39361	0.44576	0.49763	0.54933
(175.4) s	-	-		6.7508	6.9800	7.1771	2100.3	2200.0	34/9.4	3698.2	3923.3	4154.5
· ·	-	-							7.8124	8.0785	8.2734	8.4997
10.00 h	100	-	_ 0	2826.8	0.23275 (2943.0	205798 (0.28243	0.30649	0.35396	0.40098	0.44778	0.49430
(179.9) s	-				2943.0 6.9259		2150.5	2204.4	3478.3	3697.4		4154.1

Abs. Press.	-					E N - 3						
bar					ler	nperature	 degrees 	Celsius				
(Sat. Temp. °C)	50	100	150	200	250	300	350	400	500	600	700	800
v	22			0.12220			- The state of the					100000
15.00 h			-	0.13238			Committee of the Commit	0.20292	0.23503	0.26666	0.29803	0.32921
(198.3) s	200		-	2794.7	2923.5			3256.6	3472.8	3693.8		4151.7
(1303)3	-	770		6.4508	6.7099	6.9207	7.1044	7.2709	7.5703		The Control of the Co	8.3108
20.00 V	-	-	_	_	0.11145	0.12550	0.13866	0.15113	0.17555	0.19950	0.22317	034666
20.00 h	-	-	-	-	2902.4	3025.0		A STATE OF THE PARTY OF THE PAR	3467.3		3916.5	0.24666
(212.4) s	-	-	-	-	6.5454		The second secon	The second second				4149.4 8.1763
v	_	-	2-	-	0.086985	0.098925	0.10975	0.12004	0.13987	0.15921	0.17826	
25.00 h	-	-	-	-	2879.5	3010.4	3128.2		3461.7	3685.1		0.19714
(223.9) s	_	-	-	-	6.4077	6.6470	6.8442				3913.4 7.8431	4147.0 8.0716
v	_	-	_	_	0.070551	0.081159	0.090526	0.099310	0.11608	0.13234	0.14832	0.16412
30.00 h	-	-	_	_	2854.8	2995.1	3117.5		The second second second	Company of the party of the par	3910.3	
(233.8) s	-	-	-	-	6.2857	6.5422		6.9246			7.7564	4144.7 7.9857
ĮV		_	_	_	0.058693	0.068424	0.076776	0.084494	0.099088	0.11315	0.12694	0.14054
35.00 h	-	_	_	_	2828.1	2979.0					3907.2	4142.4
(242.5) s	_	-	-	-	6.1732	6.4491	6.6626	A STATE OF THE PARTY OF THE PAR			7.6828	7.9128
v		-		-	_	0.058833	0.066446	0.073376	0.086341	0.098763	0.11090	0.12285
40.00 h			_	-	122	2962.0		3215.7	3445.0			4140.0
(250.3) s	_	-	_	1	122	6.3642			7.0909			7.8495
(200.0)		300				0.5042	0.5670	0.1755	7.0909	7,5000	7.0107	7.0433
٧ .	-	-	-	-	-	0.051336	0.058696	0.064721	0.076427	0.087570	0.098425	0.10910
45.00 h	-	-	-	-	-	2944.2	3083.3	3207.1	3439.3	3668.6	3901.0	4137.7
257.4) s	-	-	_	-	-	6.2852	6.5182	6.7093	7.0311	7.3100	7.5619	7.7934

TABLE A - 3 (Contd.)

Abs. Pres	S.			_		BLE A - 3	(Contd.)					
bar (Sat. Temp.						Tempera	ture - de	grees Celsi	ius		40.2	
tout remp.	C) 50	100	150	200	250	300	350	400	500	600	700	200
v	-	1980								WHEN S		800
50.00 h	_	1921	No.	-	_	0.045301	0.057941	0.057791	0.068494	0.070		
(263.9) s	_	-		-	_	2925.5	3071.2	3198.3	3433.7	0.078616	0.088446	0.098093
v		100		-	-	6.2105	6.4545	6.6508	6.9770	3664.5 7.2578	3897.9 7.5108	4135.3 7.7431
60.00 h	-			-	-	0.036145	0.042222	0.047379	0.056592	0.000+0.	-	1.1431
(275.6) s			-	-	-	2885.0	3045.8	3180.1	34333	0.065184	0.073478	
V-	_		-	-	-	6.0692	6.3386	6.5462		3656.2 7.1664	3891.7 7.4217	4130.7 7.6554
70.00 h			_	-	-	0.029457	0.035233	0.039922	0.048086	0.055500		1.000
(285.8) s	10000		-	1000	-	2839.4	3018.7	3161.2	3410.6	0.055590	0.062787	0.069798
)		-	_	1	-	5.9327	6.2333	6.4536	- , , , , ,	3647.9	3885.4	4126.0
	-	-	-	1000						7.0880	7.3456	7.5808
80.00 h	_	-	100000	A CONTRACTOR OF THE PARTY OF TH	0.00	0.024264 2786.8	0.029948	0.034310	0.041704	0.048394	0.054770	0.000000
(295.0) s	7-4	1000	10000	100	-		2989.9	3141.6	3398.8	3639.5	3879.2	4121.
				- 50	-	5.7942	6.1349	6.3694			7.2790	
00 00 V	-	-	-	_	_	_ '	0.025792	0.00000				
90.00 h		-	_	_	_	1	2959.0		0.036737	0.042798	0.048534	0.05408
(303.3) s	-	-	-	1_	Topale.	1000		3121.2	3386.8	3631.1	3873.0	
v						*****	6.0408	6.2915	6.6600	6.9574	7.2196	
100.00 h	-	-	1776	-	-	_	0.022421	0.026408	0.032760	0.030330	0.040=	
	-			-3	-	1 0000	2925.8	3099.9	33746	0.038320	0.043546	
(311.0) s	Total Control	-	-	-	130-13	_	5.9489	6.2182	110	Late Control of the		
v	_											
125.00 h		State of the last		-	-	-	0.016122	0.0220010	0.025590	0.030259	0.034510	0.03950
(327.8) s	1000	1000	-	-	-		2828.0	3042.9	3343.3	3601.4	3851.1	
(327.0) \$	1000	-	-	-	-	-	5.7155	6.0481	6.4654	6.7796	A STATE OF THE PARTY OF THE PAR	
V ,	-		-	1		The same of	0.011460				7.0504	
150.00 h	The state of the s	-	-	-	_	100	2694.8	0.015661	0.020795	0.024884	0.028587	0.032086
(342.1) s	-	200	-	_	-	-	5.4467	2979.1 5.8876	3310.6 6.3487	3579.8 6.6764	3835.4 6.9536	4088.6

INDLE A - 3 (Contd	E A - 3 (Contd	1
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Abs. Press. bar							ture - d	egrees Celsius				
(Sat. Temp. °C	50	100	150	200	250	300	350	400	500	600	700	800
v	9_9	_	_	-								
175.00 h	_	_	_				_	0.012460	0.017359	0.021043	0.024314	0.027376
(354.6) s	-	_	1000			-	-	2906.3	3276.5	3557.6	3819.7	4077.0
			-			-	-	5.7274	6.2432	6.5858	6.8698	7.1215
v	_	-	_	_	_			0.0000470		The state of the s		
200.00 h	_	_	_					0.0099470	0.014771	0.018161	0.021111	0.023845
(365.7) s	_	_	_				-	2820.5	3241.1	3535.5	3803.8	4065.3
							_	5.5585	6.1456	6.5043	6.7953	7.0511
300.00 h	-	-	-	-	_	_	_	0.0028306	0.0086808	0.011436	0.013647	0.015510
	-	-	-	-	-	-	-21	2161.8	3085.0	3443.0		0.015619
5	-	-	-	-	-	-	-	4.4896	5.7972	6.2340	3739.7 6.5560	4018.5 6.8288
v	_	_		_	_		146	0.0019091	0.0056156	0.0000004		
400.00 h	_	_	_	_	_			1934.1	0.0056156 2906.8	0.0080884		0.011521
S	_		_	_						3346.4	3674.8	3971.7
								4.1190	5.4762	6.0135	6.3701	6.6606
v	-	-	_	-	-	-	_	0.0017291	0.0038822	0.0061113	0.0077197	0.0090759
500.00 h	-	-	-	=	-	-	-	1877.7	2723.0	3248.3	3610.2	3925.3
S	-	-	-	-	-	-	-	4.0083	5.1782	5.8207	6.2138	6.5222
v	_	_	_	_	_	-	_	0.0016324	0.0029515	0.0048350	0.0062600	0.0074603
600.00 h	_	_	_					1847.3	2570.6	3151.6	3547.0	
S								3.9383	4.9374			3879.6
				-		-	-	5.9363	4.9314	5.6477	6.0775	6.4031
v	_	-	-	-	-	_	3	0.0015671	0.0024668	0.0039719	0.0052566	0.0063208
700.00 h	_	-	_	-	-	-	-	1827.8	2467.1	3060.4	3486.3	3835.3
s	-	-	-	-	-	-	_	3.8855	4.7688	5.4931	5.9562	6.2979

TABLE B - 3 Thermodynamic Properties of Saturated Freon - 12 (Dichlorodifluoromethane)

(Datum: $h_f = 0.0$ and $s_f = 0.0$ at -40° C)

Temp.	Abs. Press. b	ar Sat. Liquid		Specific Volume m³/kg		Enthalpy kJ/kg			Entropy kJ/kg K		
1	P 2	V _f	Evap. V _{fg}	Sat. Vapor	Sat. Liquid	Evap.	Sat. Vapor	Sat. Liquid	Evap.	Sat Vapor	
-90		3	4	5	6	7	hg .	s _f	sfg .	sg	
-85	0.028	0.000 608	4.414 937	4.415 545	-43.243		8	9	10	11	
-80	0.062	0.000 612	3.036 704	3.037 316	-38.968	189.618	146.375	-0.2084	1.0352	0.8268	
-75	0.088	0.000 617	CONTRACTOR OF THE PARTY OF THE	2.138 345	-34.688	187.608	148.640	-0.1854	0.9970	0.8116	
-70	0.123	0.000 622	1.537 030	1.537 651	-30.401	185.612 183.625	150.924	-0.1630	0.9609	0.7979	
-65	0.168	0.000 627	1.126 654	1.127 280	-26.103	181.640	153.224	-0.1411	0.9266	0.7855	
-60	0.226	0.000 632	0.840 534	0.841 166	-21.793	179.651	155.536 157.857	-0.1197	0.8940	0.7744	
-55	0.300	0.000 637	0.637 274	0.637 910	-17.469	177.653	160.184	-0.0987	0.8630	0.7643	
-50	0.391	0.000 642	0.490 358	0.491 000	-13.129	175.641	162.512	-0.0782	0.8334	0.7552	
-45	0.504		0.382 457	0.383 105	- 8.772	173.611	164.840	-0.0581	0.8051	0.7470	
-40	0.642			0.302 682	- 4.396	171.558	167.163	-0.0384	0.7779	0.7396	
-35	0.807			0.241 910	- 0.000	169.479	169.479	-0.0190	0.7519	0.7329	
-30	1.004	The second secon		0.195 398	- 4.416	167.368	171.784	-0.0000	0.7269	7 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
-25	1.237		AND DESCRIPTION OF THE PERSON	0.159 375	8.854	165.222	174.076	0.0187	0.7027		
-20			0.130 487	0.131 166	13.315	163.037	176.352	0.0371	0.6795	9.110	
-15	1.509	The second secon		0.108 847	17.800	160.810	178.610	0.0552	0.6570	0.112	
10	1.826			0.091 018	22.312	158.534			0.6352	0.708	
	2.191		0.075 946 (0.076 646	26.851	156.207	180.946	0.0906	0.6141	0.704	
5				0.064 963	31.420	153.823	183.058	0.1079	0.5936	0.7014	
0	121121202000000000000000000000000000000		The state of the s	.055 389	36.022	151.376	185.243	0.1250	0.5736	0.6986	
5		0.000 724 0.		.047 485	40.659	148.859	187.397	0.1418	0.5542	0.6960	
10	4.233			.040 914	45.337	146.265	189.518	0.1585	0.5351	0.6937	
15	4.914			.035 413	50.058	143.586	191.602 193.644	0.1750	0.5165	0.6916	
50		A STATE OF THE STA		.030 780	54.828	140.812	195.641	0.1914	0.4983	0.6879	

TABLE	B	- 3	(Continued)
Control and Constitution	_		(COULINGED)

1	2	3	4	5	6	7		-		
25		and the second second					8	9	10	11
25	6.516	0.000 763	0.026 091	0.026 854	59.653	137.933	197.586	0.2237	0.4626	0.6063
30	7.449	0.000 774	0.022 734	0.023 508	64.539	134.936	199.475	0.2397	0.4451	0.6863
35	8.477	0.000 786	0.019 855	0.020 641	69.494	131.805	201.299	0.2557		0.6848
40	9.607	0.000 798	0.017 373	0.018 171	74.527	128.525	203.051		0.4277	0.6834
45	10.843	0.000 811	0.015 220	0.016 032	79.647	125.074	204.722	0.2716	0.4104	0.6820
50	12.193	0.000 826	0.013 344	0.014 170	84.868			0.2875	0.3931	0.6806
55	13.663	0.000 841	0.013 344	0.012 542		121.430	206.298	0.3034	0.3758	0.6792
60	15.259	0.000 858			90.201	117.565	207.766	0.3194	0.3582	0.6777
65	16.988		0.010 253	0.011 111	95.665	113.443	209.109	0.3355	0.3405	0.6760
		0.000 877	0.008 971	0.009 847	101.279	109.024	210.303	0.3518	0.3224	0.6742
70	18.858	0.000 897	0.007 828	0.008 725	107.067	104.255	211.321	0.3683	0.3038	0.6721
75	20.874	0.000 920	0.006 802	0.007 723	113.058	99.068	212.126	0.3851	0.2845	0.6697
80	23.046	0.000 946	0.005 875	0.006 821	119.291	93.373	212.665	0.4023	0.2644	0.6667
85	25.380	0.000 976	0.005 029	0.006 005	125.818	87.047	212.865	0.4201	0.2430	0.6631
90	27.885	0.001 012	0.004 246	0.005 258	132.708	79.907	212.614	0.4385	0.2200	0.6585
95	30.569	0.001 056	0.003 508	0.004 563	140.068	71.658	211.726	0.4579	0.1946	0.6526
100	33.440	0.001 113	0.002 790	0.003 903	148.076	61.768	209.843	0.4788	0.1655	0.6444
105	36.509	0.001 197	0.002 045	0.003 242	157.085	49.014	206.099	0.5023	0.1296	0.6319
110	39.784	0.001 364	0.001 098	0.002 462	168.059	28.425	196.484	0.5322	0.0742	0.6064
112	41.155	0.001 792	0.000 005	0.001 797	174.920	0.151	175.071	0.5651	0.0004	0.5655

TABLE B - 4
Thermodynamic Properties of Saturated Freon-11

(Datum: $h_f = s_f = 0.0 \text{ at } - 40^{\circ}\text{C}$)

		Specific	Volume m ³ /kg	Enth	alpy kJ/kg	Entropy kJ/kg k		
Temp °C	Abs. Press bar P	Sat. liquid v _f ×10		Sat. liquid	Sat. d vapo hg	Sat.	Sat. vapo	
-60	0.01279	0.6006	5 10.070	-16.56	194.16	-0.0743		
-50	0.02647	0.6084	5.094	- 8.33	199.07		0.91	
-40	0.050933	0.6164	2.763	0.00	204.06		0.89	
-30	0.09206	0.6247	1.591	8.45		0.0355	0.87	
-28	0.1029	0.6264	1.434	10.15		0.0424	0.86	
-26	0.1149	0.6281	1.295	11.85		0.0494	0.85	
-24	0.1279	0.6298	1.172	13.56	100000000000000000000000000000000000000	0.0562	0.85	
-22	0.1421	0.6316		15.28	213.25		0.8	
-20	0.1576	0.6333		16.99	213.64	0.0631	0.85	
-18	0.1745	0.6351	0.8778	18.71		0.0699	0.84	
-16	0.1928	0.6369		20.44	215.31	0.0767	0.84	
-14	0.2126	0.6387	0.7305	22.16	216.25	0.0834	0.84	
-12	0.2341	0.6405	0.6681	23.68	217.39	0.0901	0.84	
-10	0.2573	0.6423	0.6120		218.43	0.0967	0.84	
- 8	0.2824	0.6441	0.5614	25.63	219.47	0.1033	0.83	
- 6	0.3093	0.6460	0.5159	27.37	220.51	0.1099	0.83	
4	0.3384	0.6480	0.4747	29.11	221.55	0.1164	0.836	
2	0.3695	0.6498	0.4374	30.85	222.60	0.1229	0.83	
0	0.4030	0.6517	0.4037	32.60	223.64	0.1344	0.833	
2	0.4388	0.6536	0.3730	34.35	224.69	0.1358	0.83	
4	0.4771	0.6556	0.4351	36.10	225.73	0.1472	0.83	
6	0.5181	0.6576	0.3197	37.85	226.78	0.1485	0.830	
8	0.5687	0.6596	0.2966	39.61	227.82	0.1548	0.829	
0	0.6083	0.6616	0.2755	41.57	228.87	0.1611	0.828	
2	0.6579	0.6637	0.2661	43.12	229.97	0.1673		
4	0.7106	0.6657	0.2384	44.89	230.95	0.1735	0.827	
6	0.7666	0.6678	0.2222	46.65	232.02	0.1796	0.826	
8	0.8261	0.6700		48.42	234.12	0.1857	0.825	
0	0.8891	0.6721	0.2073	50.19	239.12	0.1918	0.824	
0	1.263	0.6832	0.1936	51.96	235.12	0.1929	0.823	
)	1.748	0.6949	0.1397	60.87		0.1929	0.822	
	2.366	0.7073	0.1030	69.85		0.2276	0.819	
	2120	47444	0.07752	78.99		0.2566	0.817	
	1	0.7205		00	2	0.2810	0.8160	
		The same			200.95	0.3128	0.815	

TABLE B - 5
Thermodynamic Properties of Saturated Freon-21

(Datum: $h_f = s_f = 0.0 \text{ at } - 40^{\circ}\text{C}$)

	S	specific Vol	lume m ³ /kg	Enthalp	y kJ/kg	Entropy kJ/kg K		
Temp. °C	Abs. Press. bar P	Sat. liquid v _f ×10 ³	Sat. vapor ^V g	Sat. liquid h _f	Sat. vapor hg	Sat. liquid ^s f	Sat. vapor	
-40	0.0954	0.6609	1.9607	0.00	261.59	0.000	1.1224	
-30	0.1691	0.6702	1.1496	9.1	266.75	0.0382	1.0978	
-28	0.1884	0.6721	1.0394	10.95	267.76	0.0452	1.0933	
-26	0.2095	0.6741	0.9415	12.95	268.77	0.0533	1.089	
-24	0.2324	0.6760	0.8544	14.67	269.77	0.0609	1.0847	
-22	0.2575	0.6780	0.7768	16.57	270.79	0.0684	1.0806	
-20	0.2847	0.6800	0.7074	18.46	271.8	0.0759	1.0766	
-18	0.3142	0.6820	0.6458	20.37	272.8	0.0834	1.0728	
-16	0.3451	0.6841	0.5896	22.29	273.81	0.0909	1.069	
-14	0.3806	0.6861	0.5396	24.22	274.82	0.0983	1.0653	
-12	0.4179	0.6882	0.4945	26.16	275.82	0.1058	1.0618	
-10	0.4581	0.6903	0.4540	28.1	276.81	0.1132	1.0583	
- 8	0.5014	0.6924	0.4173	30.07	277.81	0.1207	1.055	
- 6	0.5479	0.6946	0.3842	32.05	278.81	0.1272	1.0517	
- 4	0.5978	0.6967	0.3542	34.03	279.8	0.1355	1.0486	
- 2	0.6513	0.6989	0.3269	36.03	280.79	0.1428	1.0425	
0	0.7085	0.7012	0.3022	38.04	281.78	0.1502	1.0425	
2	0.7697	0.7034	0.2797	40.06	282.76	0.1575	1.039	
4	0.8351	0.7057	0.2592	42.09	283.74	0.1644	1.036	
6	0.9047	0.7080	0.2405	44.13	284.71	0.1722	1.034	
8	0.9789	0.7103	0.2234	46.18	285.69	0.1795	1.031	
10	1.0578	0.7127	0.2077	48.24	286.65	0.1868	1.028	
12	1.1417	0.7151	0.1934	50.31	287.61	0.1941	1.026	
14	1.2306	0.7175	0.1803	52.39	288.54	0.2013	1.023	
16	1.3250	0.7199	0.1682	54.49	289.53	0.2085	1.021	
18	1.4248	0.7224	0.1571	56.58	290.47	0.2157	1.019	
20	1.5305	0.7249	0.1469	58.71	291.41	0.2229	1.016	
22	1.6422	0.7274	0.1375	60.81	292.35	0.2301	1.014	
24	1.7601	0.7300	0.1288	62.94	293.29	0.2373	1.012	
26	1.8844	0.7326	0.1207	65.08	294.21	0.2444	1.010	
28	2.0154	0.7352	0.1133	67.22		0.2515	1.008	
30	2.1534	0.7379	0.1066	69.37	296.04	0.2585	1.004	
40	2.9550	0.7518	0.0788	80.25	300.51	0.2947	1.997	
50	3.9655	0.7667	0.0595	91.3	304.8	0.3282	0.988	

- Incimogynamic Properties of Saturated Carbon Dioxide

(Datum: $h_f = 0.0$ and $s_f = 0.0$ at -40° C)

Temp°C	Abs. Press. bar	Specific Volu		En	thalpy kJ/kg		Entropy kJ/kg K			
1	P 2	vf×103	Sat. Vapor Vg	Sat. Liquid h _f	Evap. hfg	Sat. Vapor	Sat. Liquid	Evap.	Sat. Vapor	
-100		3	4	5	6		sf	Sfg	sg	
- 98	.143	.6271	2.462		7-27-20-0	7	8	9	10	
- 96	.178	.6278	2.034	-286.83	585.14	298.31	-1.3349	3.3776	2.0427	
- 94	.212	.6285	1.606	-284.74	584.06	299.32	-1.3278	3.3345	2.0067	
- 92	.263	.6295	1.345	-282.65	582.97	300.32	-1.3207	3.2915	1.9707	
- 90	.318	.6306	1.131	-280.52 -278.17	581.88	301.46	-1.3092	3.2496	1.9403	
65000	373	.6317			580.79	302.63	-1.2964	3.2080	1.9115	
- 88	.469	.6331	.917	-275.91	579.71	303.80	-1.2836			
2000	.566	.6344	.794	-273.65	578.62	304.97	-1.2713	3.1664	1.882	
- 84	.669	.6358	.672 .560	-271.39	577.53	306.14	-1.2589	3.1266	1.855	
- 82	.796	.6371		-269.09	576.37	307.28	-1.2466	3.0869	1.827	
- 80	.923	.6385	.485	-266.66	574.94	308.28	-1.2342	3.0474	1.800	
- 78.6	1.013		.410	-264.24	573.52	309.28	-1.2219	3.0090	1000000	
- 78	1.068	.6399	.358	-262.42	572.5			2.9706	1.748	
- 76		.6400	.346	-261.70	571.99	310.07	-1.2125	2.9421	1.729	
74	1.239	.6418	.295	-259.03	570.31	310.29	-1.2091	2.9323		
72	1.447	.6436	.253	-256.52	568.64	311.28	-1.1958	2.8940	277	
	1.702	.6451	.217	-253.79		312.12	-1.1823	2.8561	1.030	
70	2.001	.6466			566.74	312.96	-1.1683	2.8181		
68	2.353	.6484	.186	-250.90	564.64	313.75	-1.1541		1.649	
66	2.732		.159	-247.88	562.30	314.42	100000000000000000000000000000000000000	2.7800	1.625	
64	2	.6498	.139	-244.57	559.51	314.94	-1.1396	2.7414	1.6018	
62	2	.6516	.121	-241.06	556.41	315.36	-1.1238 -1.1072	2.7015 2.6613	1.5777	
The second second	3.572	6538	.104	-237.38	553.05	315.67	-1.0900	2.6208	2,5307	

310	IABLE B - 6 (Continued)											
1	11.2	3	4	5	6	7	8	9	10			
-60	4.068	.6561	.091	-233.70	549.53	315.84	-1.0722	2.5789	1.5066			
-59	4.362	.6573	.085	-231.89	547.81	315.92	-1.0635	2.5583	1.4948			
-58	4.713	.6587	.079	-230.13	546.14	316.01	-1.0549	2.5381	1.4832			
-57	5.064	.6600	.074	-228.38	544.47	316.09	-1.0463	2.5179	1.4716			
-56.6	5.181	.6611	.0722	-227.33	543.45	316.12	-1.0430	2.5099	1.4669			
-56.0	5.181	.8490	.0722	- 31.84	347.96	316.12	1393	1.6062	1.4669			
-55	5.551	.8527	.068	- 28.71	345.41	316.70	1259	1.5832	1.4572			
-54	5.792	.8556	.065	- 26.73	343.64	316.91	1173	1.5687	1.4514			
-53	6.041	.8581	.062	- 24.78	341.97	317.19	1084	1.5540	1.4456			
-52	6.298	.8610	.060	- 23.01	340.57	317.56	0998	1.5395	1.4397			
-51	6.563	.8643	.058	- 20.94	338.71	317.77	0915	1.5255	1.4340			
-50	6.836	.8671	.055	- 19.06	337.04	317.98	0828	1.5108	1.4280			
-49	7.118	.8694	.053	- 17.18	335.57	318.40	0748	1.4965	1.4223			
-48	7.409	.8721	.051	- 15.29	333.92	318.63	0658	1.4825	1.4167			
-47	7.708	.8749	.050	- 13.41	332.25	318.84	0575	1.4686	1.4110			
-46	8.016	.8781	.048	- 11.53	330.58	319.05	0492	1.4549	1.4056			
10000	8.333	.8812	.046	- 9.53	328.90	319.37	0410	1.4411	1.4001			
-45	8.659	.8840	.044	- 7.53	327.23	319.70	0327	1.4274	1.3946			
-44	8.994	.8870	.043	- 5.65	325.56	319.91	0250	1.4144	1.3894			
-43	9.339	.8902	.041	- 3.77	323.88	320.12	0178	1.4019	1.3841			
-42		.8931	.040	- 1.88	322.21	320.33	0079	1.3868	1.3789			
-41	9.693	.8971	.038	0.00	320.53	320.53	0.0000	1.3744	1.3744			
-40	10.057	.9027	.036	3.97	316.98	320.95	.0161	1.3480	1.3642 1.3544			
-38	10.819	.9088	.033	7.95	313.42	321.37	.0320	1.3224	13443			
-36	11.622		.031	11.76	309.87	321.63	.0475	1.2967	1.3347			
-34	12.432	.9163	.029	15.53	306.45	321.98	.0632	1.2714	1.3252			
-32	13.364	.9238	.023	19.29	302.99	322.28	.0790	1.2462	1.3158			
-30	14.293	.9311	.027	23.24	299.24	322.49	.0948	1,2209				
-28	15.275	.9384	.025									

1	2			TABLE B - 6	(Continued)				
-26	16.305	3	4	5	6	7	8	9	10
-24 -22	17.385	13439	.024	27.22	295.41	322.63	.1105	1.1957	1.3063
-20	18.515	.53339	.022	30.96	291.71	322.67	.1261	1.1705	1.2966
-18	19.698	.9707	.021	35.31	287.55	322.86	.1418	1.1453	1.2872
-16	20.943	.9797	.019	39.28	283.58	322.86	.1573	1.1204	1.2777
-14	22.242	.9887	.018	43.26	279.60	322.86	.1735	1.0952	1.2687
-12	23.599	.9986	.017	47.42	275.44	322.86	.1897	1.0700	1.2597
-10	25.016	1.0087	.015	51.76	270.93	322.70	.2053	1.0453	1.2506
- 8	26.493	1.0191	.015	56.16	266.33	322.49	.2215	1.0201	1.2416
- 6	28.031	1.0301	.014	60.78	261.50	322.28	.2380	.9943	1.2324
_ 4	29.632	1.0417	.013	65.59	256.47	322.07	.2548	.9683	1.2231
	31.301	1.0541	.013	70.34	251.45	321.79	.2621	.9419	1.2141
- 2	33.040	1.0671	.012	75.08	246.25	321.33	.2900	.9150	1.2050
0	34.839	1.0806	.010	80.31	240.39	320.70	.3074	.8886	1.1960
2	36.726	1.0952	.010	85.54	234.53	320.07	.3255	.8614	
4	38.678	1.1113	.009	90.77	228.47	319.23	.3424	.8322	1.1870
6	40.712	1.1825	.009	94.51	223.70	318.21	.3607	.8029	1.175
8	42.824	1.1474	.009	100.83	216.17	317.00	.3794		1.163
10	45.013	1.1671		106.97	208.64	315.61	.3983	.7727	1.152
12	47.285	1.1877	.008	112.73	201.18	313.91	.4179	.7426	1.140
14	49.645	1.2106	.007	118.68	193.06	311.75		.7108	1.128
16	52.093		.007	124.75	184.49	309.24	.4383	.6773	1.115
18	54.631	1.2363	.006	130.91	175.68		.4589	.6428	1.1017
20	57.268	1.2658	.006	137.42	165.96	306.59	.4799	.6067	1.0867
22	THE RESERVE OF THE PARTY OF THE	1.2979	.005	144.11	155.50	303.38	.5011	.5692	1.0703
24	60.017	1.3355	.005	151.64		299.62	.5230	.5296	1.0526
26		1.3867	.004	159.92	142.95	294.59	.5478	.4818	1.0297
		1.4552	.004	168.94	127.42 110.39	287.34	.5753	.4286	1.0040
31.0	70	2.1557	.0022	225.70	0.00	279.32 225.70	.6047	3698	.9745

