

DITEC	PROPRIETA' TERMODINAMICHE DELL'ACQUA (liquido e vapore) ALLA SATURAZIONE										TAB. 2A
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t °C	p bar	volume specifico		m ³ /kg v _v	Entalpia			Entropia			t °C
		v _l	(v _v -v _l)		h _l	r	h _v	s _l	r/T	kJ/kg K s _v	
0	0.006 017	0.001 000 2	206.298	206.299	-0.0	2501.6	2501.6	-0.0	9.1578	9.1578	0
0.01	0.006 112	0.001 000 2	206.162	206.163	+0.0	2501.6	2501.6	0	9.1575	9.1575	0.01
2	0.007 055	0.001 000 1	179.922	179.923	8.4	2496.8	2505.2	0.0306	9.0741	9.1047	2
4	0.008 129	0.001 000 0	157.271	157.272	16.8	2492.1	2508.9	0.0611	8.9915	9.0526	4
6	0.009 345	0.001 000 0	137.779	137.780	25.2	2487.4	2512.6	0.0913	8.9102	9.0015	6
8	0.010 720	0.001 000 1	120.965	120.966	33.6	2482.6	2516.2	0.1213	8.8300	8.9513	8
10	0.012 270	0.001 000 3	106.429	106.430	42.0	2477.9	2519.9	0.1510	8.7510	8.9020	10
12	0.014 014	0.001 000 4	93.834	93.835	50.4	2473.2	2523.6	0.1805	8.6731	8.8536	12
14	0.015 973	0.001 000 7	82.899	82.900	58.8	2468.5	2527.2	0.2098	8.5963	8.8060	14
15	0.017 139	0.001 000 8	77.977	77.978	62.9	2466.1	2529.1	0.2243	8.5582	8.7826	15
16	0.018 168	0.001 001 0	73.383	73.384	67.1	2463.8	2530.9	0.2388	8.5205	8.7593	16
18	0.020 624	0.001 001 3	65.086	65.087	75.5	2459.0	2534.5	0.2677	8.4458	8.7135	18
20	0.023 366	0.001 001 7	57.837	57.838	83.9	2454.3	2538.2	0.2963	8.3721	8.6684	20
25	0.031 660	0.001 002 9	43.401	43.402	104.8	2442.5	2547.3	0.3670	8.1922	8.5592	25
30	0.042 415	0.001 004 3	32.928	32.929	125.7	2430.7	2556.4	0.4365	8.0181	8.4546	30
35	0.056 216	0.001 006 0	25.244	25.245	146.6	2418.8	2565.4	0.5049	7.8495	8.3543	35
40	0.073 750	0.001 007 8	19.545	19.546	167.5	2406.9	2574.4	0.5721	7.6861	8.2583	40
45	0.095 820	0.001 009 9	15.275	15.276	188.4	2394.9	2583.3	0.6383	7.5277	8.1661	45
50	0.123 35	0.001 012 0	12.045	12.046	209.3	2382.9	2592.2	0.7035	7.3741	8.0776	50
55	0.157 41	0.001 014 5	9.577 9	9.578 9	230.2	2370.8	2601.0	0.7677	7.2248	7.9925	55
60	0.199 20	0.001 017 1	7.677 5	7.678 5	251.1	2358.6	2609.7	0.8310	7.0798	7.9108	60
65	0.250 09	0.001 019 9	6.201 3	6.202 3	272.0	2346.3	2618.4	0.8933	6.9388	7.8321	65
70	0.311 62	0.001 022 8	5.045 3	5.046 3	293.0	2334.0	2626.9	0.9548	6.8017	7.7565	70
75	0.385 49	0.001 025 9	4.133 1	4.134 1	313.9	2321.5	2635.4	1.0154	6.6681	7.6835	75
80	0.473 60	0.001 029 2	3.408 1	3.409 1	344.9	2308.8	2643.8	1.0753	6.5380	7.6133	80
85	0.578 03	0.001 032 6	2.827 8	2.828 8	355.9	2296.1	2652.0	1.1343	6.4111	7.5454	85
90	0.701 09	0.001 036 1	2.360 3	2.361 3	376.9	2283.2	2660.1	1.1925	6.2873	7.4798	90
95	0.845 26	0.001 039 9	1.981 2	1.982 2	398.0	2270.2	2668.1	1.2501	6.1665	7.4166	95
100	1.013 25	0.001 043 7	1.672 0	1.673 0	419.1	2256.9	2676.0	1.3069	6.0485	7.3554	100
105	1.208 0	0.001 047 7	1.418 3	1.419 3	440.2	2243.6	2683.7	1.3630	5.9331	7.2962	105
110	1.432 7	0.001 051 9	1.208 9	1.209 9	461.3	2230.0	2691.3	1.4185	5.8203	7.2388	110
115	1.690 6	0.001 056 2	1.035 3	1.036 3	482.5	2216.2	2698.7	1.4733	5.7099	7.1832	115
120	1.985 4	0.001 060 6	0.890 46	0.891 52	503.7	2202.2	2706.0	1.5276	5.6017	7.1293	120
125	2.321 0	0.001 065 2	0.769 17	0.770 23	525.0	2188.0	2713.0	1.5813	5.4957	7.0769	125
130	2.701 3	0.001 070 0	0.667 07	0.668 14	546.3	2173.6	2719.9	1.6344	5.3917	7.0261	130
135	3.130 8	0.001 075 0	0.580 74	0.581 81	567.7	2158.9	2726.6	1.6869	5.2897	6.9766	135
140	3.613 8	0.001 080 1	0.507 41	0.508 49	589.1	2144.0	2733.1	1.7390	5.1894	6.9284	140
145	4.155 2	0.001 085 3	0.444 89	0.445 97	610.6	2128.7	2739.3	1.7906	5.0910	6.8815	145
150	4.760 0	0.001 090 8	0.391 36	0.392 45	632.1	2113.2	2745.4	1.8416	4.9941	6.8358	150
155	5.433 3	0.001 096 4	0.345 55	0.346 64	653.8	2097.4	2751.2	1.8923	4.8989	6.7911	155
160	6.180 6	0.001 102 2	0.305 66	0.306 76	675.5	2081.3	2756.7	1.9425	4.8050	6.7473	160
165	7.007 7	0.001 108 2	0.271 29	0.272 40	697.3	2064.8	2762.0	1.9923	4.7126	6.7048	165
170	7.920 2	0.001 114 5	0.241 44	0.242 55	719.1	2047.9	2767.1	2.0416	4.6214	6.6630	170
175	8.924 4	0.001 120 9	0.215 42	0.216 54	741.1	2030.7	2771.8	2.0906	4.5314	6.6221	175
180	10.027	0.001 127 5	0.192 67	0.193 80	763.1	2013.2	2776.3	2.1393	4.4426	6.5819	180
185	11.233	0.001 134 4	0.172 63	0.173 86	785.3	1995.2	2780.4	2.1876	4.3548	6.5424	185
190	12.551	0.001 141 5	0.155 18	0.156 32	807.5	1976.7	2784.3	2.2356	4.2680	6.5036	190
195	13.987	0.001 148 9	0.139 69	0.140 84	829.9	1957.9	2787.8	2.2833	4.1821	6.4654	195
200	15.549	0.001 156 5	0.126 01	0.127 16	852.4	1938.6	2790.9	2.3307	4.0971	6.4278	200
205	17.243	0.001 164 4	0.113 87	0.115 03	875.0	1918.8	2793.8	2.3778	4.0128	6.3906	205
210	19.077	0.001 172 6	0.103 07	0.104 24	897.7	1898.5	2796.2	2.4247	3.9293	6.3539	210
215	21.060	0.001 181 1	0.093 45	0.094 625	920.6	1877.6	2798.3	2.4713	3.8463	6.3176	215
220	23.198	0.001 190 0	0.084 85	0.086 038	943.7	1856.2	2799.9	2.5178	3.7639	6.2817	220
225	25.501	0.001 199 2	0.071 15	0.072 349	966.9	1834.3	2801.2	2.5641	3.6820	6.2461	225
230	27.976	0.001 208 7	0.070 24	0.071 450	990.3	1811.7	2802.0	2.6102	3.6006	6.2107	230
235	30.632	0.001 218 7	0.064 03	0.064 245	1013.8	1788.5	2802.3	2.6561	3.5194	6.1756	235
240	33.478	0.001 229 1	0.058 42	0.059 645	1037.6	1764.6	2802.2	2.7020	3.4386	6.1406	240
245	36.523	0.001 239 9	0.051 37	0.054 606	1061.6	1740.0	2801.6	2.7478	3.3579	6.1057	245
250	39.776	0.001 251 3	0.048 79	0.050 037	1085.8	1714.7	2800.4	2.7935	3.2773	6.0708	250
255	43.246	0.001 263 2	0.048 79	0.048 896	1110.2	1688.5	2798.7	2.8392	3.1968	6.0359	255
260	46.943	0.001 275 6	0.040 86	0.042 130	1134.9	1661.5	2796.4	2.8848	3.1161	6.0010	260
265	50.877	0.001 288 7	0.037 43	0.038 710	1159.9	1633.5	2793.5	2.9306	3.0353	5.9658	265
270	55.058	0.001 302 5	0.034 29	0.035 588	1185.2	1604.6	2789.9	2.9763	2.9541	5.9304	270
275	59.496	0.001 317 0	0.031 42	0.032 736	1210.9	1574.7	2785.5	3.0222	2.8725	5.8947	275
280	64.202	0.001 332 4	0.028 80	0.030 126	1236.8	1543.6	2780.4	3.0683	2.7903	5.8586	280
285	69.186	0.001 348 7	0.026 38	0.027 733	1263.2	1511.3	2774.5	3.1146	2.7074	5.8220	285
290	74.461	0.001 365 9	0.024 17	0.025 535	1290.0	1477.6	2767.6	3.1611	2.6237	5.7848	290
295	80.037	0.001 384 4	0.022 13	0.023 513	1317.3	1442.6	2759.8	3.2079	2.5389	5.7469	295
300	85.927	0.001 404 1	0.020 25	0.021 649	1345.1	1406.0	2751.0	3.2552	2.4529	5.7081	300
305	92.144	0.001 425 2	0.018 41	0.019 927	1373.4	1367.7	2741.1	3.3029	2.3656	5.6685	305
310	98.700	0.001 443 0	0.016 88	0.018 334	1402.4	1327.6	2730.0	3.3512	2.2766	5.6278	310
315	105.61	0.001 472 6	0.015 09	0.016 856	1432.1	1285.5	2717.6	3.4002	2.1856	5.5858	315
320	112.89	0.001 499 5	0.013 98	0.015 480	1462.6	1241.1	2703.7	3.4500	2.0923	5.5423	320
325	120.56	0.001 528 9	0.012 67	0.014 195	1494.0	1194.0	2688.0	3.5008	1.9961	5.4969	325
330	128.63	0.001 561 5	0.011 43	0.012 989	1526.5	1143.6	2670.2	3.5528	1.8962	5.4490	330
335	137.12	0.001 597 8	0.010 26	0.011 854	1560.3	1089.5	2649.7	3.6063	1.7916	5.3979	335
340	146.05	0.001 638 7	0.009 14	0.010 780	1595.5	1030.7	2626.2	3.6616	1.6811	5.3427	340
345	155.45	0.001 685 8	0.008 07	0.009 763	1632.5	966.4	2598.9	3.7193	1.5636	5.2828	345
350	165.35	0.001 741 1	0.007 06	0.008 799	1671.9	895.7	2567.7	3.7800	1.4376	5.2177	350
355	175.77	0.001 808 5	0.006 05	0.007 859	1716.6	813.8	2530.4	3.8489	1.2953	5.1442	355
360	186.75	0.001 895 9	0.005 04	0.006 939	1764.2	721.3	2485.4	3.9210	1.1390	5.0600	360
365	198.33	0.002 016 0	0.003 99	0.006 011	1818.0	610.0	2428.0	4.0021	0.9558	4.9579	365
370	210.54	0.002 213 6	0.002 76	0.004 972	1890.2	452.6	2342.8	4.1108	0.7036	4.8144	370
374	220.81	0.002 842 7	0.000 63	0.003 465	2046.7	109.5	2156.2	4.3493	0.1692	4.5185	374
374.15	221.20	0.003 17	0	0.003 17	2107.4	0	2107.4	4.4429	0	4.4429	374.15

p	t	Volume specifico m ³ /kg		Entalpia kJ/kg			Energia interna kJ/kg		Entropia kJ/kg K			p
		bar	°C	v _l	v _v	h _l	r	h _v	u _l	u _v	s _l	
0.006 02	0	0.001 000 2	206.298 7	-0.0	2501.6	2501.6	-0.0	2375.6	-0.0	9.1578	9.1578	0.006 02
0.006 11	0.01	0.001 000 2	206.162 9	+0.0	2501.6	2501.6	0	2375.6	0	9.1575	9.1575	0.006 11
0.010	6.98	0.001 000 1	129.210 7	29.3	2485.0	2514.4	29.3	2385.2	0.1060	8.8706	8.9767	0.010
0.020	17.51	0.001 001 2	67.011 6	73.5	2460.2	2533.6	73.5	2399.6	0.2606	8.4640	8.7246	0.020
0.030	24.10	0.001 002 7	45.670 0	101.0	2444.6	2545.6	101.0	2408.6	0.3543	8.2242	8.5785	0.030
0.040	28.98	0.001 004 0	34.803 3	121.4	2433.1	2554.5	121.4	2415.3	0.4225	8.0530	8.4755	0.040
0.050	32.90	0.001 005 2	28.194 5	137.8	2423.8	2561.6	137.8	2420.6	0.4763	7.9197	8.3960	0.050
0.060	36.18	0.001 006 4	23.740 6	151.5	2416.0	2567.5	151.5	2425.1	0.5209	7.8103	8.3312	0.060
0.070	39.03	0.001 007 4	20.530 4	163.4	2409.2	2572.6	163.4	2428.9	0.5591	7.7176	8.2767	0.070
0.080	41.54	0.001 008 4	18.103 8	173.9	2403.2	2577.1	173.9	2432.3	0.5926	7.6370	8.2295	0.080
0.090	43.79	0.001 009 4	16.203 4	183.3	2397.9	2581.1	183.3	2435.3	0.6224	7.5657	8.1881	0.090
0.10	45.83	0.001 010 2	14.673 7	191.8	2392.9	2584.8	191.8	2438.1	0.6493	7.5018	8.1511	0.10
0.15	54.00	0.001 014 0	10.022 1	226.0	2373.2	2599.2	226.0	2448.9	0.7549	7.2544	8.0093	0.15
0.20	60.09	0.001 017 2	7.649 2	251.5	2358.4	2609.9	251.5	2456.9	0.8321	7.0773	7.9094	0.20
0.25	64.99	0.001 019 9	6.204 0	272.0	2346.4	2618.3	272.0	2463.2	0.8933	6.9390	7.8323	0.25
0.30	69.13	0.001 022 3	5.229 0	289.3	2336.1	2625.4	289.6	2468.2	0.9441	6.8254	7.7695	0.30
0.35	72.71	0.001 024 5	4.525 5	304.3	2327.2	2631.5	304.3	2473.1	0.9878	6.7288	7.7166	0.35
0.40	75.89	0.001 026 5	3.993 2	317.7	2319.2	2636.9	317.7	2477.2	1.0261	6.6448	7.6709	0.40
0.45	78.74	0.001 028 4	3.576 1	329.6	2312.0	2641.7	329.6	2480.8	1.0603	6.5703	7.6306	0.45
0.50	81.35	0.001 030 1	3.240 1	340.6	2305.4	2646.0	340.5	2484.0	1.0912	6.5035	7.5947	0.50
0.60	85.95	0.001 033 3	2.731 7	359.9	2293.6	2653.6	359.8	2489.7	1.1455	6.3872	7.5327	0.60
0.70	89.96	0.001 036 1	2.364 7	376.8	2283.3	2660.1	376.3	2494.6	1.1921	6.2883	7.4804	0.70
0.80	93.51	0.001 038 7	2.086 9	391.7	2274.0	2665.8	391.6	2498.8	1.2330	6.2022	7.4352	0.80
0.90	96.71	0.001 041 2	1.869 1	405.2	2265.6	2670.9	405.1	2502.7	1.2696	6.1258	7.3954	0.90
1.00	99.63	0.001 043 4	1.693 7	417.5	2257.9	2675.4	417.4	2506.0	1.3027	6.0571	7.3598	1.00
1.013 25	100.00	0.001 043 7	1.673 0	419.1	2256.9	2676.0	419.0	2506.5	1.3069	6.0485	7.3554	1.013 25
1.20	104.81	0.001 047 6	1.428 1	439.4	2244.1	2683.4	439.3	2512.0	1.3609	5.9375	7.2984	1.20
1.40	109.32	0.001 051 3	1.236 3	458.4	2231.9	2690.3	458.3	2517.2	1.4109	5.8356	7.2465	1.40
1.60	113.32	0.001 054 7	1.091 1	475.4	2220.9	2696.2	475.2	2521.6	1.4550	5.7467	7.2017	1.60
1.80	116.93	0.001 057 9	0.977 18	490.7	2210.8	2701.5	490.5	2525.6	1.4944	5.6677	7.1622	1.80
2.00	120.23	0.001 060 8	0.885 40	504.7	2201.6	2706.3	504.5	2529.2	1.5301	5.5967	7.1268	2.00
2.50	127.43	0.001 067 6	0.718 40	535.4	2181.0	2716.4	535.1	2536.8	1.6072	5.4448	7.0520	2.50
3.00	133.54	0.001 073 5	0.605 53	561.4	2163.2	2724.7	561.1	2543.0	1.6717	5.3192	6.9909	3.00
3.50	138.88	0.001 078 9	0.523 97	584.3	2147.3	2731.6	583.9	2548.2	1.7273	5.2118	6.9392	3.50
4.00	143.63	0.001 083 9	0.462 20	604.7	2132.9	2737.6	604.3	2552.7	1.7764	5.1179	6.8943	4.00
4.50	147.92	0.001 088 5	0.413 73	623.2	2119.7	2742.9	622.7	2556.7	1.8204	5.0342	6.8547	4.50
5.00	151.85	0.001 092 8	0.374 66	640.1	2107.4	2747.5	639.6	2560.2	1.8604	4.9588	6.8192	5.00
6.00	158.84	0.001 100 9	0.315 46	670.4	2085.0	2755.5	669.7	2566.2	1.9308	4.8267	6.7575	6.00
7.00	164.96	0.001 108 2	0.272 68	697.1	2064.9	2762.0	696.3	2571.1	1.9918	4.7134	6.7052	7.00
8.00	170.41	0.001 115 0	0.240 26	720.9	2046.5	2767.5	720.0	2575.3	2.0457	4.6139	6.6596	8.00
9.00	175.36	0.001 121 3	0.214 82	742.6	2029.5	2772.1	741.6	2578.8	2.0941	4.5251	6.6192	9.00
10.00	179.88	0.001 127 4	0.194 30	762.6	2013.6	2776.2	761.5	2581.9	2.1382	4.4447	6.5828	10.00
11.00	184.06	0.001 133 1	0.177 39	781.1	1991.6	2779.7	779.9	2584.6	2.1786	4.3712	6.5498	11.00
12.00	187.96	0.001 138 6	0.163 21	798.4	1984.3	2782.7	797.0	2586.8	2.2160	4.3034	6.5194	12.00
13.00	191.60	0.001 143 8	0.151 14	814.7	1970.7	2785.4	813.2	2588.9	2.2509	4.2404	6.4913	13.00
14.00	195.04	0.001 148 9	0.140 73	830.1	1957.7	2787.8	828.5	2590.8	2.2836	4.1815	6.4651	14.00
15.00	198.28	0.001 153 8	0.131 67	844.6	1945.3	2789.9	842.7	2592.4	2.3144	4.1262	6.4406	15.00
16.00	201.37	0.001 158 6	0.123 70	858.5	1933.2	2791.7	856.6	2593.8	2.3436	4.0740	6.4176	16.00
17.00	204.30	0.001 163 3	0.116 64	871.8	1921.6	2793.4	869.8	2595.1	2.3712	4.0246	6.3958	17.00
18.00	207.11	0.001 167 8	0.110 33	884.5	1910.3	2794.8	882.4	2596.2	2.3976	3.9776	6.3751	18.00
19.00	209.79	0.001 172 3	0.104 67	896.8	1899.3	2796.1	894.6	2597.2	2.4227	3.9327	6.3555	19.00
20.00	212.37	0.001 176 6	0.099 549	908.6	1888.7	2797.2	906.2	2598.1	2.4468	3.8899	6.3367	20.00
25.00	223.94	0.001 197 2	0.079 915	961.9	1839.0	2800.9	958.9	2601.1	2.5542	3.6994	6.2537	25.00
30.00	233.84	0.001 216 3	0.066 632	1008.3	1794.0	2802.3	1004.7	2602.4	2.6455	3.5383	6.1838	30.00
35.00	242.54	0.001 234 5	0.057 028	1049.7	1752.2	2802.0	1045.4	2602.4	2.7252	3.3976	6.1229	35.00
40.00	250.33	0.001 252 1	0.049 749	1087.4	1712.9	2800.3	1082.4	2601.3	2.7965	3.2720	6.0685	40.00
45.00	257.41	0.001 269 1	0.044 035	1122.1	1675.6	2797.7	1116.4	2599.5	2.8612	3.1579	6.0191	45.00
50.00	263.92	0.001 285 8	0.039 425	1154.5	1639.7	2794.2	1148.1	2597.1	2.9207	3.0528	5.9735	50.00
55.00	269.94	0.001 302 3	0.035 624	1184.9	1605.0	2789.9	1177.7	2594.0	2.9758	2.9551	5.9309	55.00
60.00	275.56	0.001 318 7	0.032 433	1213.7	1571.3	2785.0	1205.8	2590.4	3.0274	2.8633	5.8907	60.00
65.00	280.83	0.001 335 0	0.029 714	1241.2	1538.3	2779.5	1232.5	2586.4	3.0760	2.7766	5.8526	65.00
70.00	285.80	0.001 351 4	0.027 368	1267.5	1506.0	2773.4	1258.0	2581.8	3.1220	2.6941	5.8161	70.00
75.00	290.51	0.001 367 8	0.025 323	1292.7	1474.1	2766.9	1282.4	2577.0	3.1658	2.6152	5.7810	75.00
80.00	294.98	0.001 384 3	0.023 521	1317.2	1442.7	2759.9	1306.1	2571.7	3.2077	2.5393	5.7470	80.00
85.00	299.24	0.001 401 0	0.021 923	1340.8	1411.6	2752.4	1328.9	2566.1	3.2480	2.4661	5.7141	85.00
90.00	303.31	0.001 417 9	0.020 493	1363.8	1380.8	2744.6	1351.0	2560.2	3.2867	2.3952	5.6820	90.00
95.00	307.22	0.001 435 1	0.019 206	1386.2	1350.2	2736.3	1372.6	2553.8	3.3242	2.3264	5.6506	95.00
100.00	310.96	0.001 452 6	0.018 041	1408.1	1319.7	2727.7	1393.6	2547.3	3.3606	2.2592	5.6198	100.00
110.00	318.04	0.001 488 7	0.016 007	1450.6	1258.8	2709.3	1434.2	2533.2	3.4304	2.1292	5.5596	110.00
120.00	324.64	0.001 526 7	0.014 285	1491.7	1197.5	2689.2	1473.4	2517.8	3.4971	2.0032	5.5003	120.00
130.00	330.81	0.001 567 1	0.012 800	1531.9	1135.1	2667.0	1511.5	2500.6	3.5614	1.8795	5.4409	130.00
140.00	336.63	0.001 610 5	0.011 498	1571.5	1070.9	2642.4	1549.0	2481.4	3.6241	1.7564	5.3804	140.00
150.00	342.12	0.001 657 8	0.010 343	1610.9	1004.2	2615.1	1586.0	2460.0	3.6857	1.6323	5.3180	150.00
160.00	347.32	0.001 710 2	0.009 309 9	1650.4	934.5	2584.9	1623.0	2435.9	3.7470	1.5063	5.2533	160.00
170.00	352.26	0.001 769 5	0.008 372 1	1691.6	860.0	2551.6	1661.5	2409.3	3.8106	1.3749	5.1856	170.00
180.00	356.96	0.001 839 9	0.007 497 3	1734.8	779.0	2513.9	1701.7	2378.9	3.8766	1.2362	5.1127	180.00
190.00	361.44	0.001 926 2	0.006 675 9	1778.7	691.8	2470.5	1742.1	2343.7	3.9430	1.0900	5.0330	190.00
200.00	365.71	0.002 037 4	0.005 874 5	1826.6	591.6	2418.2	1785.9	2300.7	4.0151	0.9259	4.9410	200.00
210.00	369.79	0.002 201 8	0.005 022 5	1886.3	461.2	2347.5	1840.1	2242.0	4.1040	0.7172	4.8222	210.00