

APPENDIX G

Tabulated Heat Loss Factors For Swimming Pools In Six Florida Cities

The tables on pages G-3 through G-8 may be used to evaluate heat losses from swimming pools which are exposed to direct sunlight approximately eight hours per day or for approximately 60% of that period (separate Tables). The column designations are as follows

Month

Pool Temp.: Pool Temperature, °F

BARE: No Windbreaks or any kind close to pool--an unusual situation (Airport wind speed has been reduced to $\frac{1}{2}$ its reported value in calculations.)

Windbreak--Privacy fences, shrub lines, adjacent buildings, etc (Airport wind speed has been reduced to $\frac{1}{4}$ of its reported value in calculations.)

A transparent cover which prevents evaporation of water from the pool's surface is kept in place sixteen hours per day

SCR: Screen Room (insolation absorbed by pool has been reduced to 60% of the value used for an unshaded pool.

C+WB Cover plus wind break

S+WB Screen room plus wind break

S+C Screen room plus cover

ALL: Screen Room, Cover, Windbreak

values given are in millions of Btu/100ft² of pool area To estimate the monthly losses (in MM Btu/month) multiply the appropriate factors by the pool area in hundreds of ft² (-) Indicates an energy gain by pool during period

EXAMPLE

What is the January heating load for a 650 Ft² pool in Miami, Florida if it is unshaded five hours a day and surrounded by a semiporous security fence? It is maintained at 78°F.

ANSWER:

$$4.23 \times 6.5 = 27.5 \text{ million Btu}$$

pool is unshaded for about 60% of an eight hour period during which it may be expected to collect energy from the sun striking its surface Therefore the fourth Table on Page G-4 is used

LOCATION - JACKSONVILLE
100% Solar Exposure

SWIMMING POOL HEAT LOSSES
IN MILLIONS OF BTU/100 FT SQ

MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	8.21	5.82	4.02	9.02	2.80	6.63	4.83	4.39
2	78.	8.04	5.40	3.53	9.09	2.21	6.45	4.57	3.92
3	78.	6.08	3.72	1.87	7.45	0.74	5.09	3.24	2.37
4	78.	3.31	1.49	-0.23	4.98	-1.03	3.16	1.44	0.40
5	78.	0.79	-0.42	-1.84	2.55	-2.31	1.34	-0.08	-1.13
10	78.	2.73	1.47	0.25	3.83	-0.31	2.57	1.35	0.64
11	78.	5.93	4.08	2.50	6.83	1.59	4.98	3.40	2.85
12	78.	7.95	5.70	3.96	8.69	2.81	6.44	4.70	4.28
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL

1	80.	9.13	6.52	4.53	9.94	3.19	7.33	5.34	4.82
2	80.	9.02	6.12	4.06	10.07	2.61	7.17	5.10	4.37
3	80.	7.06	4.44	2.40	8.43	1.14	5.81	3.77	2.82
4	80.	4.27	2.20	0.30	5.94	-0.63	3.87	1.97	0.84
5	80.	1.73	0.28	-1.33	3.49	-1.92	2.04	0.43	-0.70
10	80.	3.67	2.17	0.76	4.77	0.08	3.27	1.86	1.07
11	80.	6.84	4.77	3.00	7.74	1.98	5.66	3.89	3.28
12	80.	8.87	6.39	4.46	9.60	3.20	7.13	5.20	4.71
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL

1	82.	10.10	7.24	5.04	10.91	3.59	8.05	5.85	5.25
2	82.	10.04	6.87	4.60	11.09	3.02	7.92	5.65	4.82
3	82.	8.09	5.20	2.94	9.46	1.56	6.57	4.31	3.27
4	82.	5.28	2.94	0.83	6.95	-0.22	4.61	2.50	1.29
5	82.	2.71	1.01	-0.81	4.47	-1.52	2.77	0.95	-0.26
6	82.	0.46	-0.63	-1.96	2.15	-2.37	1.07	-0.27	-1.28
9	82.	1.08	0.12	-1.02	2.38	-1.41	1.41	0.27	-0.52
10	82.	4.64	2.90	1.28	5.75	0.48	4.00	2.38	1.51
11	82.	7.79	5.48	3.51	8.68	2.37	6.38	4.40	3.71
12	82.	9.82	7.11	4.97	10.55	3.60	7.84	5.71	5.14

LOCATION - JACKSONVILLE
60% Solar Exposure

SWIMMING POOL HEAT LOSSES
IN MILLIONS OF BTU/100 FT SQ

MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	9.02	6.63	4.83	9.50	3.61	7.12	5.32	4.87
2	78.	9.09	6.45	4.57	9.72	3.25	7.07	5.20	4.54
3	78.	7.45	5.09	3.24	8.28	2.11	5.91	4.06	3.19
4	78.	4.98	3.16	1.44	5.98	0.64	4.16	2.45	1.40
5	78.	2.55	1.34	-0.08	3.61	-0.55	2.39	0.98	-0.08
10	78.	3.83	2.57	1.35	4.49	0.79	3.23	2.01	1.30
11	78.	6.83	4.98	3.40	7.36	2.49	5.51	3.94	3.39
12	78.	8.69	6.44	4.70	9.13	3.55	6.88	5.14	4.73
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL

1	80.	9.94	7.33	5.34	10.43	4.00	7.81	5.82	5.31
2	80.	10.07	7.17	5.10	10.70	3.66	7.80	5.73	5.00
3	80.	8.43	5.81	3.77	9.26	2.51	6.64	4.59	3.64
4	80.	5.94	3.87	1.97	6.95	1.04	4.87	2.97	1.85
5	80.	3.49	2.04	0.43	4.55	-0.16	3.09	1.49	0.36
10	80.	4.77	3.27	1.86	5.43	1.18	3.93	2.52	1.73
11	80.	7.74	5.66	3.89	8.27	2.87	6.20	4.43	3.82
12	80.	9.60	7.13	5.20	10.04	3.94	7.57	5.64	5.15
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL

1	82.	10.91	8.05	5.85	11.39	4.40	8.53	6.34	5.74
2	82.	11.09	7.92	5.65	11.72	4.07	8.55	6.28	5.45
3	82.	9.46	6.57	4.31	10.28	2.93	7.39	5.13	4.09
4	82.	6.95	4.61	2.50	7.95	1.45	5.62	3.50	2.29
5	82.	4.47	2.77	0.95	5.52	0.24	3.82	2.01	0.80
6	82.	2.15	1.07	-0.27	3.17	-0.68	2.09	0.75	-0.26
9	82.	2.38	1.41	0.27	3.16	-0.12	2.19	1.05	0.42
10	82.	5.75	4.00	2.38	6.41	1.58	4.66	3.04	2.17
11	82.	8.68	6.38	4.40	9.22	3.27	6.91	4.94	4.25
12	82.	10.55	7.84	5.71	11.00	4.33	8.29	6.15	5.58

LOCATION - MIAMI 100% Solar Exposure					SWIMMING POOL HEAT LOSSES IN MILLIONS OF BTU/100 FT SQ				
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	5.13	3.28	1.67	6.08	0.83	4.23	2.62	1.68
2	78.	4.86	2.86	1.17	6.05	0.28	4.04	2.35	1.28
3	78.	3.25	1.47	-0.15	4.69	-0.89	2.91	1.30	0.11
4	78.	1.56	0.05	-1.47	3.23	-2.04	1.73	0.20	-1.07
11	78.	3.22	1.82	0.44	4.23	-0.15	2.82	1.45	0.49
12	78.	4.68	3.00	1.45	5.60	0.70	3.92	2.37	1.46
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	80.	6.11	4.01	2.20	7.06	1.24	4.96	3.15	2.14
2	80.	5.88	3.60	1.72	7.07	0.70	4.79	2.90	1.75
3	80.	4.28	2.22	0.41	5.73	-0.47	3.66	1.85	0.58
4	80.	2.61	0.81	-0.90	4.28	-1.62	2.49	0.77	-0.60
10	80.	1.48	0.41	-0.80	2.65	-1.20	1.59	0.38	-0.60
11	80.	4.21	2.54	0.97	5.21	0.26	3.55	1.98	0.94
12	80.	5.65	3.71	1.98	6.57	1.10	4.63	2.89	1.91
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	82.	7.13	4.76	2.74	8.09	1.65	5.71	3.69	2.59
2	82.	6.95	4.38	2.29	8.13	1.12	5.56	3.47	2.22
3	82.	5.36	3.00	-0.98	6.81	-0.05	4.44	2.43	1.06
4	82.	3.71	1.60	-0.32	5.38	-1.19	3.27	1.35	-0.12
5	82.	1.56	0.14	-1.39	3.22	-1.94	1.80	0.27	-0.90
10	82.	2.50	1.17	-0.25	3.68	-0.78	2.34	0.92	-0.15
11	82.	5.23	3.30	1.52	6.24	0.67	4.30	2.53	1.40
12	82.	6.65	4.46	2.51	7.57	1.51	5.37	3.43	2.35

LOCATION - MIAMI 60% Solar Exposure					SWIMMING POOL HEAT LOSSES IN MILLIONS OF BTU/100 FT SQ				
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	6.08	4.23	2.62	6.65	1.78	4.81	3.19	2.25
2	78.	6.05	4.04	2.35	6.76	1.46	4.75	3.06	1.99
3	78.	4.69	2.91	1.30	5.56	0.55	3.78	2.16	0.98
4	78.	3.23	1.73	0.20	4.23	-0.37	2.73	1.21	-0.07
11	78.	4.23	2.82	1.45	4.83	0.86	3.43	2.05	1.09
12	78.	5.60	3.92	2.37	6.15	1.62	4.47	2.92	2.01
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	80.	7.06	4.96	3.15	7.64	2.19	5.53	3.72	2.71
2	80.	7.07	4.79	2.90	7.78	1.88	5.50	3.61	2.46
3	80.	5.73	3.66	1.85	6.59	0.97	4.53	2.72	1.45
4	80.	4.28	2.49	0.77	5.29	0.06	3.49	1.77	0.41
10	80.	2.65	1.59	0.38	3.36	-0.03	2.29	1.08	0.10
11	80.	5.21	3.55	1.98	5.82	1.27	4.15	2.59	1.55
12	80.	6.57	4.63	2.89	7.12	2.02	5.18	3.44	2.46
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	82.	8.09	5.71	3.69	8.66	2.60	6.28	4.27	3.16
2	82.	8.13	5.56	3.47	8.84	2.30	6.27	4.18	2.93
3	82.	6.81	4.44	2.43	7.67	1.40	5.31	3.29	1.92
4	82.	5.38	3.27	1.35	6.38	0.49	4.28	2.35	0.89
5	82.	3.22	1.80	0.27	4.21	-0.28	2.79	1.27	0.09
10	82.	3.68	2.34	0.92	4.38	0.39	3.04	1.62	0.55
11	82.	6.24	4.30	2.53	6.84	1.68	4.91	3.13	2.00
12	82.	7.57	5.37	3.43	8.12	2.43	5.92	3.98	2.90

LOCATION - ORLANDO 100% Solar Exposure					SWIMMING POOL HEAT LOSSES IN MILLIONS OF BTU/100 FT SQ				
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	7.08	4.83	3.04	7.98	1.94	5.72	3.94	3.20
2	78.	7.02	4.53	2.61	8.14	1.43	5.65	3.73	2.76
3	78.	5.17	2.93	1.06	6.59	0.05	4.35	2.49	1.35
4	78.	3.04	1.21	-0.66	4.75	-1.41	2.91	1.05	-0.30
10	78.	1.70	0.63	-0.57	2.87	-1.00	1.80	0.60	-0.27
11	78.	4.83	3.11	1.54	5.81	0.75	4.10	2.53	1.70
12	78.	6.61	4.55	2.85	7.44	1.85	5.38	3.68	2.99
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	80.	8.04	5.54	3.56	8.94	2.34	6.44	4.46	3.64
2	80.	8.03	5.26	3.15	9.14	1.84	6.38	4.27	3.22
3	80.	6.18	3.67	1.61	7.61	0.47	5.09	3.03	1.81
4	80.	4.03	1.93	-0.12	5.74	-1.00	3.64	1.59	0.15
5	80.	1.39	-0.02	-1.68	3.18	-2.22	1.77	0.11	-1.17
10	80.	2.65	1.33	-0.06	3.82	-0.60	2.51	1.12	0.17
11	80.	5.77	3.81	2.05	6.76	1.15	4.80	3.04	2.13
12	80.	7.55	5.25	3.36	8.38	2.25	6.08	4.20	3.42
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	82.	9.04	6.28	4.09	9.94	2.75	7.18	4.99	4.09
2	82.	9.07	6.03	3.71	10.19	2.26	7.15	4.83	3.68
3	82.	7.24	4.44	2.17	8.66	0.89	5.86	3.59	2.28
4	82.	5.06	2.69	0.42	6.76	-0.58	4.39	2.13	0.61
5	82.	2.38	0.71	-1.15	4.17	-1.81	2.50	0.64	-0.73
10	82.	3.64	2.07	0.47	4.81	-0.20	3.24	1.65	0.62
11	82.	6.75	4.54	2.58	7.74	1.55	5.53	3.56	2.57
12	82.	8.53	5.98	3.89	9.36	2.65	6.81	4.72	3.86
LOCATION - ORLANDO 60% Solar Exposure					SWIMMING POOL HEAT LOSSES IN MILLIONS OF BTU/100 FT SQ				
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	7.98	5.72	3.94	8.52	2.84	6.26	4.48	3.74
2	78.	8.14	5.65	3.73	8.81	2.55	6.32	4.40	3.43
3	78.	6.59	4.35	2.49	7.45	1.48	5.21	3.34	2.20
4	78.	4.75	2.91	1.05	5.78	0.30	3.94	2.08	0.72
10	78.	2.87	1.80	0.60	3.58	0.18	2.50	1.31	0.44
11	78.	5.81	4.10	2.53	6.41	1.74	4.69	3.12	2.29
12	78.	7.44	5.38	3.68	7.94	2.69	5.88	4.18	3.49
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	80.	8.94	6.44	4.46	9.48	3.24	6.98	5.00	4.18
2	80.	9.14	6.38	4.27	9.82	2.96	7.05	4.94	3.89
3	80.	7.61	5.09	3.03	8.46	1.89	5.95	3.89	2.67
4	80.	5.74	3.64	1.59	6.76	0.71	4.66	2.61	1.18
5	80.	3.18	1.77	0.11	4.26	-0.43	2.84	1.19	-0.09
10	80.	3.82	2.51	1.12	4.53	0.57	3.21	1.82	0.88
11	80.	6.76	4.80	3.04	7.35	2.13	5.39	3.63	2.73
12	80.	8.38	6.08	4.20	8.88	3.08	6.58	4.70	3.92
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	82.	9.94	7.18	4.99	10.48	3.65	7.72	5.53	4.63
2	82.	10.19	7.15	4.83	10.86	3.38	7.82	5.50	4.35
3	82.	8.66	5.86	3.59	9.52	2.31	6.71	4.45	3.13
4	82.	6.76	4.39	2.13	7.79	1.12	5.42	3.16	1.63
5	82.	4.17	2.50	0.64	5.25	-0.02	3.58	1.71	0.35
10	82.	4.81	3.24	1.65	5.51	0.98	3.94	2.35	1.32
11	82.	7.74	5.53	3.56	8.33	2.54	6.12	4.15	3.17
12	82.	9.36	6.81	4.72	9.86	3.49	7.31	5.22	4.36

LOCATION - TALLAHASSEE 100% Solar Exposure					SWIMMING POOL HEAT LOSSES IN MILLIONS OF BTU/100 FT SQ				
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	8.35	6.05	4.20	9.14	3.01	6.84	4.99	4.64
2	78.	7.74	5.40	3.46	8.76	2.29	6.43	4.48	3.94
3	78.	6.06	3.85	1.93	7.39	0.88	5.19	3.27	2.45
4	78.	3.19	1.58	-0.26	4.83	-0.96	3.22	1.38	0.34
5	78.	0.57	-0.45	-1.95	2.31	-2.34	1.29	-0.21	-1.26
10	78.	2.82	1.63	0.22	4.00	-0.31	2.82	1.41	0.68
11	78.	5.84	4.21	2.55	6.75	1.73	5.11	3.46	3.04
12	78.	7.76	5.76	3.97	8.49	2.93	6.49	4.70	4.43
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	80.	9.24	6.72	4.68	10.03	3.39	7.51	5.47	5.06
2	80.	8.64	6.08	3.95	9.66	2.67	7.11	4.97	4.37
3	80.	6.99	4.55	2.44	8.32	1.27	5.88	3.77	2.88
4	80.	4.06	2.25	0.22	5.71	-0.58	3.89	1.86	0.76
5	80.	1.41	0.20	-1.49	3.15	-1.97	1.94	0.25	-0.85
10	80.	3.66	2.29	0.68	4.85	0.06	3.47	1.87	1.08
11	80.	6.67	4.85	3.00	7.58	2.09	5.76	3.91	3.44
12	80.	8.60	6.41	4.43	9.33	3.30	7.14	5.16	4.83
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	82.	10.16	7.43	5.18	10.95	3.78	8.21	5.97	5.48
2	82.	9.57	6.79	4.45	10.59	3.06	7.82	5.48	4.79
3	82.	7.95	5.27	2.95	9.28	1.67	6.60	4.29	3.32
4	82.	4.98	2.94	0.71	6.62	-0.19	4.58	2.36	1.18
5	82.	2.28	0.87	-1.02	4.02	-1.59	2.62	0.73	-0.45
9	82.	1.05	0.18	-1.10	2.39	-1.44	1.52	0.25	-0.58
10	82.	4.54	2.96	1.16	5.72	0.44	4.15	2.34	1.49
11	82.	7.53	5.52	3.47	8.44	2.47	6.43	4.38	3.84
12	82.	9.48	7.09	4.91	10.21	3.68	7.82	5.64	5.24

LOCATION - TALLAHASSEE 80% Solar Exposure					SWIMMING POOL HEAT LOSSES IN MILLIONS OF BTU/100 FT SQ				
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	9.14	6.84	4.99	9.61	3.80	7.31	5.46	5.11
2	78.	8.76	6.43	4.48	9.38	3.31	7.04	5.10	4.56
3	78.	7.39	5.19	3.27	8.19	2.21	5.99	4.07	3.25
4	78.	4.83	3.22	1.38	5.81	0.68	4.20	2.37	1.33
5	78.	2.31	1.29	-0.21	3.36	-0.59	2.33	0.84	-0.21
10	78.	4.00	2.82	1.41	4.71	0.88	3.53	2.12	1.39
11	78.	6.75	5.11	3.46	7.30	2.64	5.66	4.00	3.59
12	78.	8.49	6.49	4.70	8.93	3.66	6.93	5.14	4.87
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	80.	10.03	7.51	5.47	10.50	4.18	7.99	5.94	5.53
2	80.	9.66	7.11	4.97	10.27	3.69	7.72	5.59	4.98
3	80.	8.32	5.88	3.77	9.12	2.60	6.68	4.57	3.68
4	80.	5.71	3.89	1.86	6.69	1.06	4.87	2.85	1.74
5	80.	3.15	1.94	0.25	4.20	-0.23	2.98	1.30	0.19
10	80.	4.85	3.47	1.87	5.56	1.25	4.18	2.58	1.79
11	80.	7.58	5.76	3.91	8.12	3.00	6.30	4.46	3.98
12	80.	9.33	7.14	5.16	9.77	4.03	7.58	5.60	5.27
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	82.	10.95	8.21	5.97	11.43	4.57	8.69	6.44	5.95
2	82.	10.59	7.82	5.48	11.21	4.09	8.43	6.09	5.40
3	82.	9.28	6.60	4.29	10.08	3.00	7.40	5.09	4.11
4	82.	6.62	4.58	2.36	7.60	1.45	5.57	3.34	2.16
5	82.	4.02	2.62	0.73	5.07	0.15	3.66	1.77	0.59
9	82.	2.39	1.52	0.25	3.20	-0.10	2.33	1.05	0.23
10	82.	5.72	4.15	2.34	6.44	1.63	4.86	3.06	2.20
11	82.	8.44	6.43	4.38	8.99	3.38	6.98	4.92	4.38
12	82.	10.21	7.82	5.64	10.65	4.41	8.26	6.08	5.68

LOCATION - TAMPA 100% Solar Exposure					SWIMMING POOL HEAT LOSSES IN MILLIONS OF BTU/100 FT SQ				
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	6.76	4.59	2.89	7.67	1.83	5.50	3.80	3.13
2	78.	6.39	4.09	2.31	7.52	1.22	5.23	3.45	2.61
3	78.	4.66	2.58	0.85	6.10	-0.10	4.01	2.28	1.27
4	78.	2.50	0.80	-0.93	4.22	-1.62	2.52	0.79	-0.48
10	78.	1.70	0.59	-0.66	2.91	-1.09	1.80	0.55	-0.39
11	78.	4.60	2.94	1.42	5.60	0.66	3.93	2.42	1.63
12	78.	6.49	4.44	2.79	7.33	1.80	5.29	3.63	2.96
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	80.	7.71	5.30	3.41	8.62	2.22	6.21	4.32	3.57
2	80.	7.38	4.82	2.85	8.51	1.62	5.95	3.98	3.06
3	80.	5.67	3.31	1.39	7.10	0.31	4.75	2.82	1.73
4	80.	3.49	1.53	-0.39	5.21	-1.21	3.24	1.33	-0.02
5	80.	1.30	-0.12	-1.79	3.10	-2.32	1.68	0.01	-1.34
10	80.	2.66	1.30	-0.14	3.87	-0.70	2.51	1.07	0.06
11	80.	5.55	3.64	1.94	6.54	1.05	4.64	2.93	2.07
12	80.	7.44	5.15	3.31	8.28	2.20	5.99	4.15	3.40
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	82.	8.70	6.04	3.94	9.61	2.63	6.95	4.85	4.02
2	82.	8.40	5.57	3.40	9.54	2.04	6.71	4.53	3.52
3	82.	6.71	4.08	1.94	8.15	0.73	5.51	3.38	2.19
4	82.	4.53	2.28	0.16	6.25	-0.80	4.00	1.88	0.44
5	82.	2.31	0.62	-1.26	4.10	-1.91	2.42	0.54	-0.89
10	82.	3.66	2.04	0.39	4.87	-0.29	3.25	1.61	0.50
11	82.	6.53	4.37	2.46	7.52	1.46	5.37	3.46	2.51
12	82.	8.42	5.88	3.84	9.27	2.60	6.73	4.68	3.85

LOCATION - TAMPA 60% Solar Exposure					SWIMMING POOL HEAT LOSSES IN MILLIONS OF BTU/100 FT SQ				
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	7.67	5.50	3.80	8.21	2.74	6.05	4.34	3.68
2	78.	7.52	5.23	3.45	8.20	2.35	5.91	4.13	3.29
3	78.	6.10	4.01	2.28	6.96	1.33	4.87	3.14	2.13
4	78.	4.22	2.52	0.79	5.25	0.10	3.55	1.82	0.55
10	78.	2.91	1.80	0.55	3.64	0.12	2.53	1.28	0.34
11	78.	5.60	3.93	2.42	6.20	1.66	4.53	3.02	2.23
12	78.	7.33	5.29	3.63	7.84	2.64	5.79	4.14	3.47
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	80.	8.62	6.21	4.32	9.17	3.13	6.76	4.86	4.12
2	80.	8.51	5.95	3.98	9.19	2.76	6.63	4.66	3.74
3	80.	7.10	4.75	2.82	7.96	1.74	5.61	3.68	2.59
4	80.	5.21	3.24	1.33	6.24	0.51	4.28	2.36	1.01
5	80.	3.10	1.68	0.01	4.18	-0.52	2.76	1.09	-0.26
10	80.	3.87	2.51	1.07	4.60	0.52	3.24	1.80	0.78
11	80.	6.54	4.64	2.93	7.14	2.05	5.24	3.53	2.67
12	80.	8.28	5.99	4.15	8.78	3.04	6.50	4.65	3.91
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	82.	9.61	6.95	4.85	10.16	3.54	7.49	5.39	4.56
2	82.	9.54	6.71	4.53	10.22	3.17	7.39	5.21	4.20
3	82.	8.15	5.51	3.38	9.01	2.16	6.37	4.24	3.05
4	82.	6.25	4.00	1.88	7.28	0.92	5.03	2.91	1.47
5	82.	4.10	2.42	0.54	5.18	-0.11	3.50	1.62	0.19
10	82.	4.87	3.25	1.61	5.60	0.92	3.98	2.33	1.23
11	82.	7.52	5.37	3.46	8.12	2.45	5.97	4.06	3.11
12	82.	9.27	6.73	4.68	9.77	3.44	7.23	5.18	4.35

LOCATION - WEST PALM BEACH 100% Solar Exposure					SWIMMING POOL HEAT LOSSES IN MILLIONS OF BTU/100 FT SQ				
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	5.65	3.67	2.09	6.55	1.17	4.57	2.99	2.15
2	78.	5.43	3.31	1.65	6.54	0.68	4.42	2.76	1.78
3	78.	3.79	1.87	0.26	5.19	-0.57	3.27	1.66	0.53
4	78.	2.11	0.47	-1.10	3.74	-1.75	2.10	0.53	-0.75
11	78.	3.82	2.26	0.86	4.78	0.18	3.22	1.81	0.85
12	78.	5.48	3.55	1.99	6.35	1.10	4.41	2.85	1.95
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	80.	6.65	4.40	2.63	7.55	1.58	5.30	3.53	2.61
2	80.	6.46	4.06	2.20	7.57	1.09	5.17	3.31	2.25
3	80.	4.84	2.63	0.82	6.24	-0.15	4.03	2.22	1.01
4	80.	3.17	1.23	-0.53	4.81	-1.32	2.87	1.10	-0.27
5	80.	0.74	-0.47	-1.81	2.40	-2.27	1.20	-0.15	-1.24
10	80.	1.94	0.76	-0.47	3.05	-0.92	1.87	0.64	-0.36
11	80.	4.84	3.00	1.40	5.79	0.59	3.95	2.36	1.32
12	80.	6.50	4.29	2.54	7.36	1.51	5.15	3.40	2.41
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	82.	7.70	5.16	3.19	8.60	2.00	6.06	4.09	3.07
2	82.	7.53	4.83	2.77	8.64	1.52	5.94	3.88	2.72
3	82.	5.94	3.42	1.41	7.34	0.28	4.82	2.81	1.49
4	82.	4.28	2.03	0.05	5.92	-0.89	3.66	1.69	0.21
5	82.	1.78	0.29	-1.26	3.44	-1.85	1.95	0.40	-0.79
10	82.	3.01	1.54	0.10	4.11	-0.50	2.64	1.20	0.11
11	82.	5.90	3.77	1.96	6.85	1.02	4.72	2.92	1.78
12	82.	7.56	5.06	3.10	8.42	1.94	5.92	3.96	2.88
LOCATION - WEST PALM BEACH 60% Solar Exposure					SWIMMING POOL HEAT LOSSES IN MILLIONS OF BTU/100 FT SQ				
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	78.	6.55	4.57	2.99	7.09	2.07	5.11	3.53	2.69
2	78.	6.54	4.42	2.76	7.21	1.79	5.09	3.42	2.44
3	78.	5.19	3.27	1.66	6.03	0.83	4.11	2.50	1.37
4	78.	3.74	2.10	0.53	4.72	-0.11	3.08	1.51	0.23
11	78.	4.78	3.22	1.81	5.35	1.14	3.79	2.38	1.43
12	78.	6.35	4.41	2.85	6.86	1.96	4.93	3.37	2.47
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	80.	7.55	5.30	3.53	8.09	2.48	5.84	4.07	3.15
2	80.	7.57	5.17	3.31	8.24	2.20	5.83	3.98	2.91
3	80.	6.24	4.03	2.22	7.08	1.25	4.87	3.07	1.85
4	80.	4.81	2.87	1.10	5.79	0.31	3.85	2.08	0.71
5	80.	2.40	1.20	-0.15	3.40	-0.61	2.19	0.85	-0.25
10	80.	3.05	1.87	0.64	3.71	0.18	2.53	1.30	0.30
11	80.	5.79	3.95	2.36	6.37	1.55	4.53	2.93	1.89
12	80.	7.36	5.15	3.40	7.88	2.38	5.67	3.92	2.93
MO	POOL TEMP	BARE	WB	COV	SCR	C&WB	S&WB	S&C	ALL
1	82.	8.60	6.06	4.09	9.14	2.90	6.60	4.63	3.61
2	82.	8.64	5.94	3.88	9.31	2.63	6.61	4.55	3.38
3	82.	7.34	4.82	2.81	8.18	1.68	5.66	3.65	2.33
4	82.	5.92	3.66	1.69	6.90	0.75	4.64	2.67	1.19
5	82.	3.44	1.95	0.40	4.43	-0.19	2.95	1.40	0.21
10	82.	4.11	2.64	1.20	4.77	0.60	3.30	1.86	0.77
11	82.	6.85	4.72	2.92	7.42	1.97	5.30	3.49	2.35
12	82.	8.42	5.92	3.96	8.94	2.80	6.44	4.48	3.40