

Club Resources
INTERNATIONAL

Utilities Benchmarking

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Utilities Benchmarking

Background. For general information on benchmarking, you are encouraged to read Basics of Benchmarking prior to establishing a system of benchmarks for your operation.

Purpose. Utilities benchmarking allows the club to determine its “normal” usage and the pattern of usage for electricity, gas, and water throughout the year. This information serves as a baseline to compare usage in future periods. This is particularly helpful as the club experiences the expected significant increases in energy and water costs in the coming years. Such information is useful in determining the cost/benefit of any new energy- and water-saving technologies. It is also useful in measuring progress and providing feedback to employees during any energy conservation programs.

Sources of Information: Electric Bill. The electric bill provides the following information:

1. The number of days in the billing cycle, in other words the number of days between meter readings.
2. Electricity Use or Consumption in Kilowatt Hours or Kwh – this is the amount of electricity used during the billing cycle.
3. The Peak Demand for Electricity in Kilowatts or Kw – this is the maximum amount of electricity your club was drawing during any given period – usually measured in quarter or half hour increments. A consumer’s peak demand will be multiplied by the total monthly usage to determine the demand charge.
4. The Use or Consumption charge in dollars and the demand charge in dollars.

The demand charge is important in that it is usually a significant surcharge on the maximum amount of electricity drawn by a customer in any given billing cycle. Electric utilities do this because they have a maximum limit on their ability to deliver electricity. When customers draw more electricity than the utility can produce or buy from the grid (i.e., electricity produced by other utilities), the system becomes overloaded and it must shed load by shutting down customers (usually manufacturing plants and other high volume users) who have voluntarily agreed to such cutbacks as a way of reducing their rates. The high capital cost of adding new electricity generating plants and the fact that there are certain daily peak usage times have caused utility companies to add the demand charge as a way of providing incentives (actually disincentives) to consumers to cut their consumption and peak demand.

Sources of Information: Gas Bill. The gas bill provides the following information:

1. The number of days in the billing cycle, in other words the number of days between meter readings.
2. Gas Use or Consumption in cubic feet – this is the amount of gas used during the billing cycle.
3. The Use or Consumption charge in dollars.

Sources of Information: Water Bill. The water bill provides the following information:

1. The number of days in the billing cycle, in other words the number of days between meter readings.
2. Water Use or Consumption in gallons – this is the amount of water used during the billing cycle.
3. The Use or Consumption charge in dollars.

Most water bills also include a wastewater or sewer charge which is directly dependent upon the amount of water used. So if water usage can be reduced, the sewer charge is also reduced.

Data Collected

These bills list the consumption and total cost of the club's utility use. The data collected and the data source are summarized in the following table along with the proposed time periods to summarize the information.

Data Collected	Data Source	Collection Frequency	Wk	Summarize by		
				Mo	YTD	Yr
Water Consumption	Water bill	Monthly		X	X	X
Electricity Consumption	Electric bill	Monthly		X	X	X
Gas Consumption	Gas bill	Monthly		X	X	X
Degree Days	Weather Service	Monthly		X	X	X
Water Charges	Water bill	Monthly		X	X	X
Electricity Consumption Charges	Electric bill	Monthly		X	X	X
Electricity Demand Charge	Electric bill	Monthly		X	X	X
Gas Charges	Gas bill	Monthly		X	X	X
Days in Billing Cycle by Type Water Electricity Gas	Utility bills	Monthly		X	X	X

Benchmarks

Benchmark	Underlying	Data	Calculation	Purpose
Water Consumption per Day	Water Consumption	Days in Billing Cycle for Water	Water Consumption divided by Days in Billing Cycle	Shows amount of water used per day.
Water Cost per Day	Water Charge	Days in Billing Cycle for Water	Water Charge divided by Days in Billing Cycle	Shows water cost per day.
Electricity Consumption per Day	Electricity Consumption	Days in Billing Cycle for Electricity	Electricity Consumption divided by Days in Billing Cycle	Shows amount of electricity used per day.
Electricity Cost per Day	Electricity Charge	Days in Billing Cycle for Electricity	Electricity Charge divided by Days in Billing Cycle	Shows electricity cost per day.
Electricity Consumption per Degree Day	Electricity Consumption	Degree Days	Electricity Consumption divided by Degree Days	Shows electricity consumption with temperature variable removed.

Electricity Demand %	Electricity Demand Charge	Total Electricity Charge	Electricity Demand Charge divided by Total Electricity Charge times 100	Shows relative cost of peak demand.
Gas Consumption per Day	Gas Consumption	Days in Billing Cycle for Gas	Gas Consumption divided by Days in Billing Cycle	Shows amount of gas used per day.
Gas Cost per Day	Gas Charge	Days in Billing Cycle for Gas	Gas Charge divided by Days in Billing Cycle	Shows gas cost per day.
Gas Consumption per Degree Day	Gas Consumption	Degree Days	Gas Consumption divided by Degree Days	Shows gas consumption with temperature variable removed.

Spreadsheets

Club Resources International has designed MS Excel® spreadsheets to track benchmarks for each utility.

Each spreadsheet is designed with two tabs at the bottom of the window. Each tab allows you to enter data only in the data entry cells; all other cells are protected to avoid inadvertent erasure or modification of the formulas.

1. The Year-to-Date tab provides a location to enter your monthly totals month by month throughout the year for each facility that has a separate electricity, gas, or water meter.
2. The Year-to-Year tab provides a location to enter your annual totals at the end of the year. Once the Year-to-Date information has been transferred to this tab at the end of the year, the Year-to-Year file should be “Saved” for that year. Then the file should be “Saved As” for the next year and the Year-to-Date tab cleared of the previous year’s data. It’s now ready for you to start entering the data for the new year.

Saving and Printing Copies

It is recommended that Department Heads save each year’s spreadsheet as a separate Excel® file allowing you to keep an electronic copy of each year’s month to month detail. This permits you to go back and electronically copy data from previous years for any sort of comparative analysis that you might wish to do in the future.

Department Heads may also want to keep a handy paper copy reference. Each tab has been formatted to print on one or more numbered pages. Simply double-check the PRINT PREVIEW option under the FILE menu to ensure the material fits onto the page(s) properly. Adjust as necessary and then print.

Spreadsheet Instructions

Individual spreadsheets have been designed for fifteen areas of club operations. Each area has a designated Manager or Department Head with the assigned responsibility to ensure that the necessary data is collected and recorded consistently and accurately. [Benchmarking Responsibilities], A-5502, spells out benchmarking responsibilities.

The following **Electricity data** is to be collected and recorded for a particular month in the Year-to-Date tab:

1. Number of degree days. Degree days – is a concept that allows the computation of energy necessary to heat or air condition buildings. It is used to take the variability of weather out of benchmarking utility usage. Degree days for each local area may be obtained from the National Weather Service, from various weather-related web sites, or calculated from daily high and low temperatures using the spreadsheet on page 9.
2. Electricity consumption in kilowatt hours (Kwh).
3. Electricity demand in kilowatts (Kw).
4. Days in billing cycle.
5. Consumption charge in dollars.
6. Demand charge in dollars.

The following **Water data** is to be collected and recorded:

1. Water consumption in gallons.
2. Days in billing cycle.
3. Charge in dollars.

The following **Gas data** is to be collected and recorded:

1. Gas consumption in cubic feet.
2. Days in billing cycle.
3. Charge in dollars.

Benchmarks are automatically calculated from the data collected and entered in the spreadsheet.

Sample Spreadsheets. Sample Spreadsheets are found on the following pages.

Page 5: Year-to-Date Electricity

Page 6: Year-to-Year Electricity

Page 7: Year-to-Date Water and Gas

Page 8: Year-to-Year Water and Gas

Page 9: Degree Day Calculation

Electricity Benchmarks – Year-to-Date Spreadsheet

Year-to-Date Utility Report - Electricity												Club: Oak Hill Club												Year: 2006		
Degree Days												Electricity Data - Cart Barn												YTD		
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2006		
815	622	348	212	147	275	397	438	206	138	301	709	7,200	6,320	6,720	8,240	8,160	8,560	10,080	9,280	8,960	8,080	6,560	7,040	4,608		
Electricity Data - Cart Barn												95,200														
Consumption, Kwh												543														
Demand, KW												370														
Days in Billing Cycle												7,241														
Consumption Charge (\$)												10,468														
Demand Charge (\$)												257.3														
Electricity Benchmarks - Cart Barn												19.57														
Consumption/Day (kwh)												20.7														
Consumpt Charge/Day (\$)												59.1														
Consumption/Degree Day																										
Demand Charge %																										
Electricity Data - Clubhouse																										
Consumption, Kwh												692,100														
Demand, KW												2,172														
Days in Billing Cycle												370														
Consumption Charge (\$)												44,458														
Demand Charge (\$)												15,883														
Electricity Benchmarks - Clubhouse																										
Consumption/Day (kwh)												1,870.5														
Consumpt Charge/Day (\$)												120.16														
Consumption/Degree Day												150.2														
Demand Charge %												26.3														
Electricity Data - Total																										
Consumption, Kwh												787,300														
Demand, KW												2,715														
Avg Days in Billing Cycle												370														
Consumption Charge (\$)												51,699														
Demand Charge (\$)												26,351														
Electricity Benchmarks - Total																										
Consumption/Day (kwh)												2,127.8														
Consumpt Charge/Day (\$)												139.73														
Consumption/Degree Day												170.9														
Demand Charge %												33.8														
Total Utility Charges												78,050														
Avg Utility Cost/Day (\$)												211.55														

Electricity Benchmarks – Year-to-Year Spreadsheet

Year-to-Year Utility Report - Electricity												
											Club:	
											Oak Hill Club	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Degree Days	2,978	3,215	2,621	4,608								AVG 3,356
Electricity Data - Cart Barn												
Consumption, Kwh	76,720	82,560	100,080	95,200								88,640
Demand, KW	450	530	556	543								520
Days in Billing Cycle	364	361	367	370								366
Consumption/Charge (\$)	5,483	6,486	7,308	7,241								6,630
Demand Charge (\$)	7,215	8,546	9,436	10,468								8,916
Electricity Benchmarks - Cart Barn												
Consumption/Day (kwh)	210.8	228.7	272.7	257.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	242.5
Consumpt Charge/Day (\$)	15.06	17.97	19.91	19.57	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	18.14
Consumption/Degree Day	25.76	25.68	38.18	20.66	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	26.42
Demand Charge %	56.8	56.9	56.4	59.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	57.4
Electricity Data - Clubhouse												
Consumption, Kwh	502,200	615,900	678,600	692,100								622,200
Demand, KW	1,548	2,313	2,466	2,172								2,125
Days in Billing Cycle	273	361	367	370								343
Consumption Charge (\$)	30,052	39,558	42,517	44,458								39,146
Demand Charge (\$)	10,469	12,795	13,785	15,883								13,233
Electricity Benchmarks - Clubhouse												
Consumption/Day (kwh)	1,839.6	1,706.1	1,849.0	1,870.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1,815.3
Consumpt Charge/Day (\$)	110.08	109.58	115.85	120.16	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	114.21
Consumption/Degree Day	168.64	191.57	258.91	150.20	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	208.93
Demand Charge %	25.8	24.4	24.5	26.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	25.3
Electricity Data - Total												
Consumption, Kwh	578,920	698,460	778,680	787,300	0	0	0	0	0	0	0	710,840
Demand, KW	1,998	2,843	3,022	2,715	0	0	0	0	0	0	0	2,645
Avg Days in Billing Cycle	319	361	367	370	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	354
Consumption Charge (\$)	35,535	46,044	49,825	51,699	0	0	0	0	0	0	0	45,776
Demand Charge (\$)	17,684	21,341	23,221	26,351	0	0	0	0	0	0	0	22,149
Electricity Benchmarks - Total												
Consumption/Day (kwh)	1,817.6	1,934.8	2,121.7	2,127.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2,007.3
Consumpt Charge/Day (\$)	111.57	127.55	135.76	139.73	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	129.26
Consumption/Degree Day	194.40	217.25	297.09	170.86	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	211.84
Demand Charge %	33.2	31.7	31.8	33.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	32.6
Total Utility Charges	53,219	67,385	73,046	78,050	0	0	0	0	0	0	0	
Avg Utility Cost/Day	167.09	186.66	199.04	210.95	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

Water and Gas Benchmarks – Year-to-Date Spreadsheet

Year-to-Date Utility Report - Water & Gas													
Club: Oak Hill Club												Year: 2006	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Degree Days	815	622	348	212	147	275	397	438	206	138	301	709	4,608
Water Data - Clubhouse													
Consumption, Gals	87,000	89,000	81,900	98,400	219,500	403,300	363,400	536,100	264,900	151,700	118,700	93,300	2,507,200
Days in Billing Cycle	30	33	28	28	30	30	28	36	28	32	29	30	362
Charge (\$)	769	775	753	803	1,170	1,727	1,606	2,129	1,329	965	867	788	13,681
Water Benchmarks - Clubhouse													
Consumption/Day (gals)	2,900.0	2,697.0	2,925.0	3,514.3	7,316.7	13,443.3	12,978.6	14,891.7	9,460.7	4,740.6	4,093.1	3,110.0	6,926.0
Charge/Day (\$)	25.63	23.48	26.89	28.68	39.00	57.57	57.36	59.14	47.46	30.16	29.90	26.27	37.79
Water Data - Turn House													
Consumption, Gals	2,940	2,220	2,310	2,370	3,760	4,200	4,240	14,240	4,000	4,310	3,000	2,040	49,630
Days in Billing Cycle	30	33	28	28	30	30	28	36	28	32	29	30	362
Charge (\$)	19	17	17	17	21	23	23	53	23	23	19	16	271
Water Benchmarks - Turn House													
Consumption/Day (gals)	98.0	67.3	82.5	84.6	125.3	140.0	151.4	395.6	142.9	134.7	103.4	68.0	137.1
Charge/Day (\$)	0.63	0.52	0.61	0.61	0.70	0.77	0.82	1.47	0.82	0.72	0.66	0.53	0.75
Water Data - Total													
Consumption, Gals	89,940	91,220	84,210	100,770	223,260	407,500	367,640	550,340	268,900	156,010	121,700	95,340	2,556,830
Days in Billing Cycle	30	33	28	28	30	30	28	36	28	32	29	30	362
Charge (\$)	788	792	770	820	1,191	1,750	1,629	2,182	1,352	988	886	804	13,952
Water Benchmarks - Total													
Consumption/Day (gals)	2,998.0	2,764.2	3,007.5	3,598.9	7,442.0	13,583.3	13,130.0	15,287.2	9,603.6	4,875.3	4,196.6	3,178.0	7,063.1
Charge/Day (\$)	26.27	24.00	27.50	29.29	39.70	58.33	58.18	60.61	48.29	30.88	30.55	26.80	38.54
Gas Data - Clubhouse													
Consumption, cu ft	3,519	3,020	2,743	2,058	1,862	1,534	1,329	1,532	1,580	2,425	3,620	3,959	29,181
Days in Billing Cycle	31	30	28	30	33	30	28	30	29	32	30	33	364
Charge (\$)	2,415	1,999	1,532	1,208	1,062	882	955	1,098	1,131	1,701	2,663	3,341	19,987
Gas Data - Cart Barn													
Consumption, cu ft	704	516	442	194	4	14	0	0	5	234	778	1,202	4,093
Days in Billing Cycle	31	30	28	30	33	30	28	30	29	32	30	33	364
Charge (\$)	501	363	272	131	14	20	12	12	15	193	596	1,040	3,169
Gas Benchmarks - Clubhouse													
Consumption/Day (cu ft)	113.5	100.7	98.0	68.6	56.4	51.1	47.5	51.1	54.5	75.8	120.7	120.0	80.2
Charge/Day (\$)	77.90	66.63	54.71	40.27	32.18	29.40	34.11	36.60	39.00	53.16	88.77	101.24	54.91
Consumption/Degree Day	4.32	4.86	7.88	9.71	12.67	5.58	3.35	3.50	7.67	17.57	12.03	5.58	6.33
Gas Benchmarks - Cart Barn													
Consumption/Day (cu ft)	22.7	17.2	15.8	6.5	0.1	0.5	0.0	0.0	0.2	7.3	25.9	36.4	11.2
Charge/Day (\$)	16.16	12.10	9.71	4.37	0.42	0.67	0.43	0.40	0.52	6.03	19.87	31.52	8.71
Consumption/Degree Day	0.86	0.83	1.27	0.92	0.03	0.05	0.00	0.00	0.02	1.70	2.58	1.70	0.89

Water and Gas Benchmarks – Year-to-Year Spreadsheet

		Club: <u>Oak Hill Club</u>											AVG
		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
Year-to-Year Utility Report - Water & Gas													
Degree Days													4,687
Water Data - Clubhouse													
Consumption, Gals	1,977,694	2,434,900	2,507,200										2,306,598
Days in Billing Cycle	271	361	362										331
Charge (\$)	10,763	13,622	13,681										12,689
Water Benchmarks - Clubhouse													
Consumption/Day (gals)	7,297.8	6,744.9	6,926.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Charge/Day (\$)	39.72	37.73	37.79	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Water Data - Turn House													
Consumption, Gals	94,470	45,410	49,630										63,170
Days in Billing Cycle	272	361	362										332
Charge (\$)	373	247	271										297
Water Benchmarks - Turn House													
Consumption/Day (gals)	347.3	125.8	137.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Charge/Day (\$)	1.37	0.68	0.75	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Water Data - Total													
Consumption, Gals	2,072,164	2,480,310	2,556,830	0	0	0	0	0	0	0	0	0	710,930
Days in Billing Cycle	272	361	362	0	0	0	0	0	0	0	0	0	99
Charge (\$)	11,136	13,869	13,952	0	0	0	0	0	0	0	0	0	3,896
Water Benchmarks - Total													
Consumption/Day (gals)	7,632.3	6,870.7	7,063.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Charge/Day (\$)	41.02	38.42	38.54	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Gas Data - Clubhouse													
Consumption, cu ft	18,974	31,023	29,181										79,178
Days in Billing Cycle	271	366	364										1,001
Charge (\$)	2,415	20,425	19,987										42,827
Gas Data - Cart Barn													
Consumption, cu ft	3,278	4,865	4,093										12,236
Days in Billing Cycle	271	366	364										1,001
Charge (\$)	2,278	3,489	3,169										8,936
Gas Benchmarks - Clubhouse													
Consumption/Day (cu ft)	70.0	84.8	80.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	79.1
Charge/Day (\$)	8.91	55.81	54.91	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	42.78
Consumption/Degree Day	4.07	6.47	6.33	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	16.89
Gas Benchmarks - Cart Barn													
Consumption/Day (cu ft)	12.1	13.3	11.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	12.2
Charge/Day (\$)	8.41	9.53	8.71	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	8.93
Consumption/Degree Day	0.70	1.01	0.89	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2.61

Degree Days Computation Spreadsheet (December 2006)

Degree Days							Month: <u>Dec</u>	Year: <u>2006</u>		
Day	High Temp	Low Temp	Mean Temp	Heat DD	Cool DD	TOT DD	Mo	Heat DD	Cool DD	TOT DD
1	68	40	54.0	11.0	0	11.0	1	815	0	815
2	57	34	45.5	19.5	0	19.5	2	622	0	622
3	41	35	38.0	27.0	0	27.0	3	343	5	348
4	35	31	33.0	32.0	0	32.0	4	189	24	212
5	39	32	35.5	29.5	0	29.5	5	44	103	147
6	49	33	41.0	24.0	0	24.0	6	1	274	275
7	50	31	40.5	24.5	0	24.5	7	0	397	397
8	52	28	40.0	25.0	0	25.0	8	0	438	438
9	58	31	44.5	20.5	0	20.5	9	13	193	206
10	58	44	51.0	14.0	0	14.0	10	122	16	138
11	54	34	44.0	21.0	0	21.0	11	274	27	301
12	55	28	41.5	23.5	0	23.5	12	709	0	709
13	41	32	36.5	28.5	0	28.5	3,131 1,476 4,606			
14	36	30	33.0	32.0	0	32.0				
15	55	32	43.5	21.5	0	21.5				
16	52	36	44.0	21.0	0	21.0				
17	49	35	42.0	23.0	0	23.0				
18	51	32	41.5	23.5	0	23.5				
19	45	31	38.0	27.0	0	27.0				
20	40	26	33.0	32.0	0	32.0				
21	49	22	35.5	29.5	0	29.5				
22	58	33	45.5	19.5	0	19.5				
23	62	39	50.5	14.5	0	14.5				
24	59	34	46.5	18.5	0	18.5				
25	47	26	36.5	28.5	0	28.5				
26	56	26	41.0	24.0	0	24.0				
27	63	28	45.5	19.5	0	19.5				
28	62	30	46.0	19.0	0	19.0				
29	61	36	48.5	16.5	0	16.5				
30	58	36	47.0	18.0	0	18.0				
31	58	29	43.5	21.5	0	21.5				
Tot				709.0	0.0	709.0				602