CHERRYLAND ELECTRIC CONSUMPTION GUIDE

This information is supplied as an “approximation” guide only. The averages listed for the appliances below will vary depending on size, efficiency and individual energy use habits. The” appx. kwh” column is the average consumption of Kilowatt hours per-month of a family of 4 based on studies by the United States Department of Energy.

$$\frac{\text{Watts X hrs. used}}{1000} = \text{kWh's / kWh's X \$0.1098 = Cost}$$

Calculations for average monthly appliance operating costs are:
Wattage X hrs. used per/month, divided by 1000 = kWh's, kWh's X $0.1098 = Cost per/month.

	Avg. Watt.	Avg. Hrs. Used/Mo.	Appx. kWh Used/Mo.	Number of Appl.	Est. Cost/Mo.	Est. Cost/Mo.
KITCHEN						
Refrigerator/Freezer						
Refrigerator 2003 or newer	300-700w		50-80		5.49 8.79	
Refrigerator (up-right) pre 2000	500-700W		150		$16.47	
Refrigerator (Side-by-side)	600-1400		265		$29.10	
16 cu. ft. - 20 cu. ft. frost free < 10 yrs. old	500W		100		$10.98	
Mini Refrigerator	900w		27.5		$3.22	
Chest freezer 15cu. Ft.	440		75		$8.24	
COMMENTS: Refrigerators and freezers will differ greatly depending on cu.ft., usage and the age of the applicance. It is also very important to keep any refrigerator/freezer defrosted and the coils clean. Temperature setting could have a big affect on electric use please check.						
Range with Oven	12000W	18	81		$8.90	
Microwave Oven	1300W	12	15		$1.65	
Hot Plate	1250W	3	16		$1.76	
Electric Frying Pan	1150W	1	1		$0.11	
Dishwasher	1200W	60	72		$7.91	
Coffee Maker	1000W	30	30		$3.30	
Toaster	1150W	1	1		$0.11	
COMMENTS: A Range's usage can increase dramatically during the holiday seasons, or family get-togethers.						
WATER HEATERS						
30 - 50 gallon	4500	90	405		$44.47	
50 - 80 gallon	4500	88	440		$48.32	
80 - 105 gallon	4500	93	512		$56.22	
Based on average family of 4						
COMMENTS: The cost of opperating water heaters vary because of the differing levels of efficiency in particular brands and styles. The above water heating calulations are based on an average family of 4. There are ways to cut down on water heating costs. Make sure the upper element is always 5 degrees above the lower. Set the temperature only as high as needed to acomplish your daily tasks. A thermostat set at 140 degrees as opposed to 120, will cost $10 - $15 more per month! If you have a leaky faucet dripping at a rate of 30 drips per minute, this can cost you $2 - $3 per month OR MORE! If you have an older, less efficient model you can save a surprising amount of energy by using "tank blankets" and insulating the hot pipes where possible.						
LAUNDRY						
Clothes Dryer (Per/load)	4500	20 loads @1/2 hr	60		$6.59	
Washing Machine HOT WATER MORE	500	20 loads @1/2 hr	10		$1.10	
Washing machine 1,000 rpm Newer	500	6 loads = 1 kwh	4		$0.44	
Iron	1000	8	8		$0.88	
COMFORT CONDITIONING						
Room AC 5,000 BTU's	833	360	90		$9.89	
Room AC 10,000 BTU's	950	360	171		$18.78	
Room AC 12,000 BTU's	1100	360	198		$21.75	
Room AC 15,000 BTU's	1500	360	246		$27.02	

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COMFORT CONDITIONING CONT.						
Room Heater 500 Watts	500	360	180		$19.77	
Room Heater 1000 Watts	1000	360	360		$39.53	
Room Heater 1500 Watts	1500	360	540		$59.30	
Electric Blanket	177	69	12		$1.32	
Dehumidifier	800	210	192		$21.09	
Ceiling Fan WATTAGE L/M/H	15/40/75	240	24		$2.64	
Attic Fan (house)	400	240	96		$10.55	
Humidifier	177	72	13		$1.43	
HOME ENTERTAINMENT						
Radio	5 TO 70	100	7		$0.77	
DVD or VCR	15	60	0.9		$0.10	
53" - 61" Projection	204	180	36		$3.96	
42" LCD HDTV Flatscreen	203	180	37		$4.07	
LCD or Plasma 50"	545	180	98		$10.77	
Color television 32"	150	180	27		$2.97	
Cable Box	14	720	10		$1.10	
Direct TV box - DVR	35	720	25		$2.75	
Laptop in use	26	720	19		$2.09	
Laptop plugged in charging	2	720	1.4		$0.16	
Computer W/monitor	250	120	30		$3.30	
COMMENTS: Most of the above items have a "sleep mode". This means they will consume a small amount of electricity even when they are not being used, but are still plugged in.						
LIGHTS						
Incondescent Lights (10 - 100W bulbs)	1000	180	180		$19.77	
Compact Fluorescent(1 - 100W bulb =23W)	1000	180	41.4		$4.55	
Mercury Yard light (Photo Cell)	200	360	72		$7.91	
Christmas Lights						
C7W Bulb (100 bulb set)	700	180	126		$13.84	
C9W Bulb (100 bulb set)	900	180	162		$17.79	
Mini lights (300 lights=110W)	110	180	19.8		$2.18	
COMMENTS: While most sets of x-mas lights do not individually add up to a significant amout of usage, multiple sets used for a holiday season, along visitors and family functions can often result in a high Jan. or Feb. light bill. Timers are a great tool to make sure you have you x-mas display on only when people are awake to see them. This can often cut the cost of operation by nearly 1/3! Make sure and power strips or timers are approved for out-door use. Calculations are based on 6hrs. per/day.						
MISCELLANEOUS						
Hot Tub (Insulated/Covered)	5000	SUMMER	$20 TO 30	$30 TO 50 winter		
Hot Tub Pump	1000	45	45		$4.95	
Hair Dryer	1000	30	30		$3.30	
Water Pump (1/2 H.P.)	1320	RULE OF THUMB 15 KWH PER PERSON				
Cell phone charger (non charging)	0.03	720	0.03		$0.03	
Pool Pump	1300	360	468		$51.39	
Heat tape (30ft.) (5 watts per ft)	150	720	108		$11.88	
Fish Aquarium (20 watt pump)	20	720	14		$1.54	
Fish Aquarium (100 watt pump)	100	720	72		$7.91	
NOTE: All homes have "non-identified miscellaneous usage" (est. $5-$20 per month)						
depending on house size, number in family, household items, etc.						
**Add estimated miscellaneous usage for your home						
kWh Rate:	**0.1098**					
				Availability Charge		**$15.00**
				4% MI Sales Tax		
				TOTAL		
Amps x Voltage(usually 120) = Watts	1000Watts = 1 kWh					