

# COMPOSITE OF KILOWATTHOUR RATINGS FOR VARIOUS APPLIANCES

(PRE-ENERGY CRISIS ESTIMATES)

Name	Watts	Hrs/Mo.	KWHRS/Mo.
Air conditioner, central			820*
Air conditioner, window	1566	74	116*
Battery charger			1*
Blanket	190	80	15
Blanket	50-200		15
Blender	350	3	1
Bottle sterilizer	500		15
Bottle warmer	500	6	3
Broiler	1436	8	8.5
Clock	1-10		1.4*
Clothes drier	4600	20	92**
Clothes drier, electric heat	4856	18	86**
Clothes drier, gas heat	325	18	6**
Clothes washer			8.5*
Clothes washer, automatic	250	12	3*
Clothes washer, conventional	200	12	2**
Clothes washer, automatic	512	17.3	9*
Clothes washer, ringer	275	15	4**
Clippers	40-60		1/2
Coffee maker	800	15	12
Coffee maker, twice a day			8
Coffee percolator	300-600		3-10
Coffee pot	894	10	9
Cooling, attic fan	1/6-3/4HP		60-90**
Cooling, refrigeration	3/4-1 1/2 ton		200-500*
Corn popper	460-650		1
Curling iron	10-20		1/2
Dehumidifier	300-500		50*
Dishwasher	1200	30	36*
Dishwasher	1200	25	30*
Disposal	375	2	1*
Disposal	445	6	3*
Drill, electric, 1/2"	250	2	5
Electric baseboard heat	10,000	160	1600
Electrocuter, insect	5-250		1*
Electronic oven	3000-7000		100*
Fan, attic	370	65	24**
Fan, kitchen	250	30	8**
Fan, 8"-16"	35-210		4-10**
Food blender	200-300		1/2
Food warming tray	350	20	7
Footwarmer	50-100		1
Floor polisher	200-400		1
Freezer, food, 5-30 cu.ft.	300-800		30-125*
Freezer, ice cream	50-300		1/2
Freezer	350	90	32*
Freezer, 15 cu.ft.	440	330	145*
Freezer, 14 cu.ft.			140*
Freezer, frost free	440	180	57*
Fryer, cooker	1000-1500		5
Fryer, deep fat	1500	4	6
Frying pan	1196	12	15
Furnace, electric control	10-30		10*
Furnace, oil burner	100-300		25-40*
Furnace, blower	500-700		25-100**
Furnace, stoker	250-600		3-60**
Furnace, fan			32**
Garbage disposal equipment			
Griddle	450-1000		1/4-1/3 HP
Grill	650-1300		5
Hair drier	200-1200		1/2-6*
Hair drier	400	5	2*
Heat lamp	125-250		2
Heater, aux.	1320	30	40
Heater, portable	680-2000		15-30
Heating pad	25-150		1
Heating pad	65	10	1
Heat lamp	250	10	3
Hi Fi Stereo			9*
Hot plate	500-1650		7-30
House heating	8000-15,000		1000-2500
Humidifier	500		5-15*
Iron	1100	12	13
Iron			12
Iron, 16 hrs/month			13
Ironer	1500	12	18
Knife sharpener	125		1/2*

Lawnmower	1000	8	8**
Lighting	5-300		10-40
Lights, 6 room house			
in winter			60
Light bulb, 75	75	120	9
Light bulb, 40	40	120	4.8
Mixer	125	6	1
Mixer, food	50-200		1
Movie projector	300-1000		
Oil burner	500	100	50*
Oil burner			50*
Oil burner, 1/8 HP	250	64	18*
Pasteurizer, 1/2 gal.	1500		10-40
Polisher	350	6	2
Post light, dusk to dawn			35
Power tools			3
Projector	500	4	2*
Pump, water	450	44	20**
Pump, well			20**
Radio			8
Radio, console	100-300		5-15*
Radio, table	40-100		5-10*
Range	8500-16000		100-150
Range, 4 person family			100
Record player	75-100		1-5
Record player, transistor	60	50	3*
Record player, tube	150	50	7.5*
Recorder, tape	100	10	1*
Refrigerator	200-300		25-30*
Refrigerator, conventional			83*
Refrigerator-freezer	200	150	30*
Refrigerator-freezer			
14 cu.ft.	326	290	95*
Refrigerator-freezer,			
frost free	360	500	180*
Roaster	1320	30	40
Rotisserie	1400	30	42*
Sauce pan	300-1400		2-10
Sawing machine	30-100		1/2-2
Sewing machine	100	10	1
Shaver	12		1/10
Skillet	1000-1350		5-20
Skil Saw	1000	6	6
Sunlamp	400	10	4
Sunlamp	279	5.4	1.5
Television	200-315		15-30*
TV, BW	200	120	24*
TV, BW	237	110	25*
TV, color	350	120	42*
TV, color			100*
Toaster	1150	4	5
Typewriter	30	15	5*
Vacuum cleaner	600	10	6
Vacuum cleaner, 1 hr/wk			4
Vaporizer	200-500		2.5
Waffle iron	650-1300		1-2
Washing machine, 12 hrs/mo			9*
Washer, automatic	300-700		3-8*
Washer, conventional	100-400		2-4*
Water heater	4474	89	400
Water heater	1200-7000		200-300
Water pump (shallow)	1/2HP		5-20**
Water pump (deep)	1/3-1 HP		10-60**

Sheep shearing	fractional		1 1/2 per 100 sheep
Silo unloader	2-5 HP		4-8 per ton*
Silage conveyor	1-3 HP		1-4 per ton*
Stock tank heater	100-500 watts		varies widely
Yard lights	200-1500 watts		10 per mo.
Ventilation	1/6-1/3 HP		2-6 per day**
			per 20 cows

## IN THE MILKHOUSE

Milk cooling	1/2-5 HP		1 per 100 lbs. milk*
Space heater	1000-3000		800 per year
Ventilating fan	fractional		10-25 per mo.**
Water heater	1000-5000		1 per 4 gal
FOR POULTRY			
Automatic feeder	1/4-1/2 HP		10-30 KWHR/mo**
Brooder	200-1000 watts		1/2-1 1/2 per chick
			per season
Burglar alarm	10-60 watts		2 per mo.*
Debeaker	200-500 watts		1 per 3 hrs.
Egg cleaning			
or washing	fractional HP		1 per 2000 eggs**
Egg cooling	1/6-1HP		1 1/2 per case*
Night lighting	40-80 watts		10 per mo.
			per 100 birds
Ventilating fan	50-300 watts		1-1 1/2 per day**
			per 1000 birds
Water warming	50-700 watts		varies widely
FOR HOGS			
Brooding	100-300 watts		35 per brooding
			period/litter
Ventilating fan	50-300 watts		1/2-1 1/2 per day**
Water warming	50-1000 watts		30 per brooding
			period/litter

## FARM SHOP

Air compressor	1/2-1 HP		1 per 3 hr.*
Arc welding	37 1/2 amp		100 per year*
Battery charging	600-750 watts		2 per battery charge*
Concrete mixing	1/2-2 HP		1 per cu. yd.**
Drill press	1/6-1 HP		1/2 per hr.**
Fan, 10"	35-55 watts		1 per 20 hr.**
Grinding, emery wheel			
1/4-1/3 HP			1 per 3 hr.**
Heater, portable	1000-3000 watts		10 per mo.
Heater, engine	100-300 watts		1 per 5 hr.
Lighting	50-250 watts		4 per mo.
Lathe, metal	1/2-1 HP		1 per 3 hr.
Lathe, wood	1/2-1 HP		1 per 3 hr.
Sawing, circular			
8"-10"	1/3-1/2 HP		1/2 per hr.
Sawing, jig	1/4-1/3 HP		1 per 3 hr.
Soldering, iron	60-500 watts		1 per 5 hr.

## MISCELLANEOUS

Farm chore motors	1/2-5		1 per HP per hr.
Insect trap	25-40 watt		1/3 per night
Irrigating	1 HP up		1 per HP per hr.
Snow melting, sidewalk and			
steps, heating-cable			
imbedded in concrete			
			9*
			25 watts
			per sq. ft.
			2.5 per 100
			sq. ft. per hr.
Soil heating, hotbed			
			400 watts
			1 per day per season
Wood sawing	1-5 HP		2 per cord

## Symbol Explanation

\*AC power required  
 †Normally AC, but convertible to DC  
 Notes: Lighting in this table is assumed to be incandescent—if fluorescent, the wattage bulbs consume the same power but deliver 3 times as much light—fluorescent bulbs also require AC, but can be converted to DC.

These figures can be cut by 50% with conservation of electricity.

1) Sources for this table represent a conglomerate of several separate tables taken from:

- Northern States Power Co., Mpls, Mn
- University of Minnesota, Agricultural Extension Service
- Seattle City Light, Seattle, Washington
- Energy Conservation Techniques, National Bureau of Standards
- Garden Way Labs
- Henry Clews
- Real Gas and Electric

## AT THE BARN

Name	Capacity HP or watts	Est. KWHR
Barn cleaner	2-5 HP	120/yr.*
Clipping	fractional	1/10 per hr.
Corn, ear crushing	1-5 HP	5 per ton*
Corn, ear shelling	1/2	1 per ton**
Electric fence	7-10 watts	7 per mo.**
Ensilage blowing	3-5	1/2 per ton
Feed grinding	1-7 1/2	1/2-1 1/2 per 100 lbs.**
Feed mixing	1/2-1	1 per ton**
Grain cleaning	1/2-1	1 per ton**
Grain drying	1-7 1/2	5-7 per ton**
Grain elevating	1/2-5	4 per 1000 bu**
Hay curing	3-7 1/2	60 per ton*
Hay hoisting	1/2-1	1/3 per ton**
Milking, portable	1/2-1	1 1/2 per cow/mo.**
Milking, pipeline	1/2-3	2 1/2 per cow/mo.**