

## Farm Electricity Costs

EQUIPMENT	ENERGY CONSUMPTION	ESTIMATED MONTHLY kWh
Aeration Fan	(HP x 0.746) x hours of use	
Air Compressor	(HP x 0.746) x hours of use	
Barn Cleaner	(2-5 HP) 25-40 kWh per month	
Barn Lighting	60 kWh per month	
Clipper	1 kWh per hour	
Block Engine Heater	(1-2 kW) 1-2 kWh per hour	
Fence	7 kWh per month	
Electric Motor	(HP x 0.746) x hours of use	
Grain Dryer (No Heat)	1 kWh per bushel	
Grain Dryer (w/ Electric Heat)	2 kWh per bushel	
Grain Grinder	1 kWh per 500 pounds	
Incubator	1 kWh per 25 eggs	
Milking Machine (Portable)	2 kWh per cow per month	
Livestock Fan	(1/2 HP) 0.5 kWh per hour	
Milking Machine (Pipeline)	5 kWh per cow per month	
Milk Cooler (Bulk)	1 kWh per 100 pounds	
Pet Water Heater	30-50 kWh per month	
Poultry House Lighting	6 kWh per 100 birds per month	
Poultry Water Warmer	1 kWh per day	
Silo Unloader (Grass)	4 kWh per ton	
Silo Unloader (Corn)	2.5 kWh per ton	
Water Pump (Deep Well)	1.5 kWh per 1,000 gallons	
Water Pump (Shallow Well)	1 kWh per 1,000 gallons	
Water Stock Tank Heater	50-500 kWh per month	
Yard Lighting (Dusk to Dawn)		
175-Watt Mercury Vapor	73 kWh per month	
250-Watt Mercury Vapor	105 kWh per month	
400-Watt Mercury Vapor	161 kWh per month	
	Farm total kWh	

These figures represent a range of typical use based on the average use of an appliance in good working condition. Actual use will vary based on patterns of use, age and condition of equipment. Refer to your electric Bill for actual electric rates.

### Fan and Motor use

The horsepower and duration of use of a fan or motor determines the electricity consumption. Use the formula below to better understand how much electricity is consumed. These are approximate formulas and motor usage can vary based on the efficiency of motor.

$$(\text{Hp of motor or fan} \times .0746) \times \text{hours of use} = \text{kWh}$$