2023 AGRICULTURAL REBATES

Guthrie County REC
A Touchstone Energy® Cooperative

VENTILATION AND CIRCULATION

Farm animals require ventilation and air movement for comfort and productivity year-round. Rebates are available for high efficiency systems that could help save energy costs of up to 30% a year.

Ventilation and Circulation Fans

The operating costs of a ventilation system will depend on the efficiency of the equipment, configuration of the fans, proper installation and control over the amount of airflow.

Ventilation Fans *(fan blade diameter)*	$3/inch
Ventilation Thermostat *Controller with Humidistat*	$25 each
Circulation Fans *(fan blade diameter)*	$1/inch

Ventilation Fan Efficiency Requirements

(must be BESS Labs rated at 0.10 in. static pressure)

- 14-23 inch - min. 10.5 CFM/Watt
- 24-35 inch - min. 13.0 CFM/Watt
- 36-47 inch - min. 16.5 CFM/Watt
- 48-49 inch - min. 18.5 CFM/Watt
- ≥ 50 inch - min. 19.5 CFM/Watt

Circulation Fan Efficiency Requirements

(must be BESS Labs rated at thrust/kW requirements)

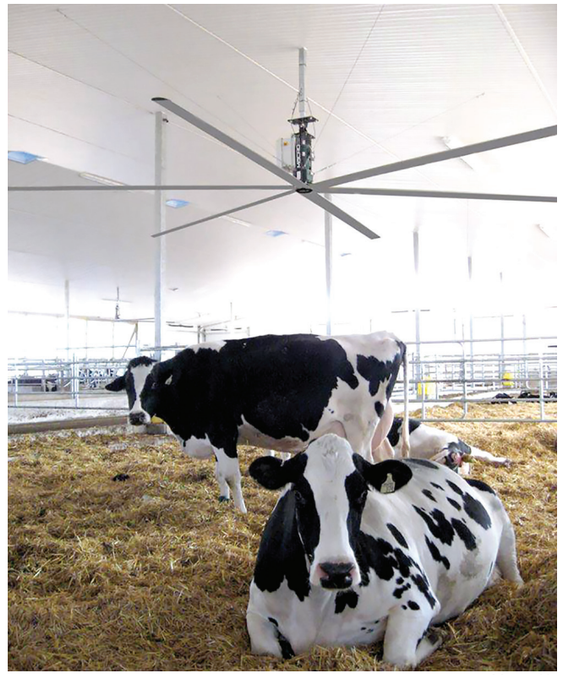
- 12-23 inch - min. 11.0 lbs. thrust/kW
- 24-35 inch - min. 15.0 lbs. thrust/kW
- 36-47 inch - min. 18.5 lbs. thrust/kW
- ≥ 48 inch - min. 23.0 lbs. thrust/kW

Rebates are limited to $5,000 per account for all ventilation and circulation equipment.

VENTILATION AND CIRCULATION

High Volume Low Speed Fans

- High Volume Low Speed Fans $35/ft.
  Must be a ceiling-mounted fan with a diameter of 10′ or more. Rebate is based on fan blade diameter in feet.



MacroAir

Research has shown that a cool cow is a productive cow and that milk production increases up to two pounds per cow when they are in a comfortable environment.

Energy-efficient HVLS fans keep cows cool by moving air more efficiently through barns and open-air sheds while keeping bugs, birds and dust under control.

FOR MORE INFORMATION VISIT

ENERGY STAR®
energystar.gov

DesignLights Consortium™ (DLC)
designlights.org

Iowa State Extension
extension.iastate.edu

BESS Labs
bess.illinois.edu

For more energy saving opportunities, contact Guthrie County REC about available residential and commercial rebates.

All programs subject to change at any time, without prior notice.

Guthrie County REC
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guthrie-rec.coop

1406 State Street
Guthrie Center, IA 50115
(641) 747-2206

01/2023

2023 GUTHRIE COUNTY REC REBATES

Contact Guthrie County REC for the complete list of rebates and qualifications

DAIRY OPERATIONS

Energy-efficient equipment and technologies can go a long way in helping to reduce energy expenses and improve productivity.

Dairy Heat Reclaimers **$5 per milking cow**
Heat reclaimers can reduce water-heating energy usage by 60% to 80% by recovering the heat discharged from dairy refrigeration equipment.

Dairy Milk Pre-Coolers **$4 per milking cow**
Reducing the temperature of milk with "pre-coolers" helps reduce refrigeration system energy costs by 20% to 30%.

Variable Speed Dairy Vacuum Pumps **$40/horsepower**
Variable speed drives (VSDs) used with dairy vacuum systems can reduce electricity use by as much as 60%.

Dairy Scroll Compressor **$250 each**
Refrigeration systems with scroll compressors are 15% to 20% more efficient than traditional reciprocating compressor systems.
(must replace reciprocating compressor)

The maximum rebate is $2,000 for each equipment type.

LIVESTOCK EQUIPMENT

Livestock Waterers
Rebates are available for efficient waterers with tanks constructed of plastic, a minimum of 2 inches of insulation and lid covers.

Electric Heated Livestock Waterers *(≤ 175W per trough opening)*	$50 each

Farrowing Equipment
Efficient heating pads and controllers help reduce energy use and improve animal health.

• Single Crate Heating Pads *(≤ 85W)*	$25/pad
• Double Crate Heating Pads *(≤ 170W)*	$50/pad
• Heat Lamp or Pad Controller	$50/controller

LIGHTING

Energy-efficient lighting technologies can reduce operating costs and provide lower fixed costs through fewer replacements.

Note: All lamp and fixtures must be ENERGY STAR or DesignLights Consortium qualified.

All Buildings

Occupancy Sensors	$8 each

Outdoor Security Lighting

20-34W	$10/fixture
35-49W	$20/fixture
50-74W	$40/fixture
75-124W	$50/fixture
≥ 125W	$60/fixture

Outdoor lighting must be on from dusk to dawn and controlled by an automatic photocell sensor.

HORTICULTURE LIGHTING

According to the U.S. Department of Energy (DOE), the annual electricity consumption of all indoor horticultural installations is about 5.9 terawatt hours, approximately equal to the annual usage of more than half a million U.S. households. Consumption is estimated to grow as much as 25% by 2025.

Horticulture LED Lighting

8-14W	$10/fixture
15-49W	$15/fixture
50-99W	$25/fixture
≥ 100W	$40/fixture

Horticulture lighting must be classified as such in DesignLights Consortium to qualify.

Maximum incentive is 50% of installed costs. Custom rebates may be available; contact the cooperative for further details.

WHY ENERGY STAR OR DESIGNLIGHTS?

ENERGY STAR and the DesignLights Consortium™ have developed product lists to identify quality LED lighting products that meet certain performance criteria.

ENERGY STAR and DesignLights qualified products have been tested to verify that they perform as advertised and that required safety certifications have been obtained.

This means consumers can purchase these products with confidence and know they are likely to last longer and perform better than non-listed products.