

EXTENSION CALENDAR

All programs and events will be held at the Lancaster Extension Education Center unless otherwise noted.

FEBRUARY

- 21-27 Dine Out for 4-H's CWF, *Bruegger's Bagels*
- 22 Commercial Pesticide Applicator Recertification Training 9 a.m.
- 22 FCE & Community Leader Training Lesson, "Home Fall Prevention" . . 1 p.m.
- 22 4-H Speech & Public Service Announcement (PSA) Workshop 7 p.m.
- 23 Private Pesticide Applicator Certification . 8:30-11:30 a.m. & 1:30-4:30 p.m.
- 23 Chemigation Certification Training 6:30 p.m.
- 24 Commercial Pesticide Applicator Initial Training and Testing 9 a.m.
- 24 4-H Horse Knowledge Club Meeting 7 p.m.

MARCH

- 1 4-H Council Meeting 7 p.m.
- 3 Private Pesticide Applicator Certification 8:30-11:30 a.m.
- 3 "Fertilizing Cropland With Biosolids" Workshop 3:30-8:30 p.m.
- 3 4-H Spring Rabbit Clinic 6:15-8:30 p.m.
- 5 4-H Spring Rabbit Show, *Lancaster Event Center, Pavilion 3, Exhibit Hall* 9 a.m.
- 10 4-H Horse Knowledge Club Meeting 7 p.m.
- 10 Acreage Insights: Rural Living Clinic "Create a Prairie With Native Grasses and Wildflowers" 7-9 p.m.
- 11 Lancaster Extension Board Meeting 8 a.m.
- 12 4-H Horse Stampede, *UNL East Campus, Animal Science Bldg.* 8 a.m.
- 12 Beginning Beekeeping Workshop 9 a.m.-5 p.m.
- 13 4-H Teen Council Meeting 3 p.m.
- 14 4-H Leader and Volunteer Satellite Training 7 p.m.
- 16 Pesticide Disposal Collection, *Waverly Farmers Coop* 8 a.m.-12 Noon
- 16 Private Pesticide Applicator Certification 1:30-4:30 p.m.
- 22 FCE & Community Leader Training Lesson, "Healthy Cooking for 1 or 2" 1 p.m.
- 24 4-H Horse Knowledge Club Meeting 7 p.m.
- 28 Family & Community Education Council Meeting 1 p.m.
- 28 4-H Speech & PSA Contest Registrations Due

Irrigation Costs

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To simplify comparing alternative energy sources or irrigation distribution systems, the program is structured with eight scenarios laid out in a notebook. The user must specify lift, system pressure, acres irrigated, inches of water applied, fuel type and fuel price (user defined areas are indicated in blue). To compare ownership cost for different types of systems, the actual cost of various components such as engine and distribution system cost should be specified.

Table 1. The Nebraska Pumping Plant Performance Criteria (NPC)

Energy Source	hp•h ^a (energy unit)	whp-h ^{b,c} (energy unit)	Energy units
Diesel	16.66	12.5 ^d	gallon
Gasoline	11.50	8.66	gallon
Propane	9.20	6.89	gallon
Natural gas ^e	82.20	61.7	1000 ft ³ (MCF)
Electricity ^f	1.18	0.885	kW•h

^a hp•h (horsepower hours) is the work accomplished by the power unit with drive losses considered.
^b whp-h (water horsepower hours) is the work accomplished by the pumping plant (power unit and pump) at the NPC
^c Based on 75% pump efficiency
^d Assumes an energy content of 925 BTU/cubic foot
^e Assumes 88% electric motor efficiency
^f Water meter volume conversion to acre-inch equivalents:
 • If the water meter totalizer registers in gallons, divide gallons by 27,154
 • If the water meter totalizer registers in acre-feet, multiply acre-feet by 12
 • If the water meter totalizer registers in cubic feet, divide cubic feet by 3,630

Table 2. Equivalent Price Factors for Irrigation Energy Sources

	Diesel	Natural Gas	LP Gas	Electricity	Gasoline
Diesel	1.0	4.936	0.551	0.071	0.693
Natural Gas	0.203	1.0	0.112	0.014	0.140
LP Gas	1.814	8.955	1.0	0.128	1.257
Electricity	14.124	69.718	7.785	1.0	9.785
Gasoline	1.443	7.125	0.796	0.102	1.0

Energy Units: Diesel, LP Gas and Gasoline (gallons); Natural Gas (mcf*); Electricity (kWh)

* The factors for natural gas assume 925,000 BTU per 1,000 cubic feet (mcf). To convert price per therm to equivalent price per mcf, multiply the price per therm by 9.25.

Note: This table compares energy prices based on the Nebraska Pumping Plant Performance Criteria. It provides an estimate of equivalent energy cost assuming the pumping plants being compared are all operating at the NPC. It does not consider differences in ownership cost or differences in labor requirements, repair costs or annual hookup charges, if any. Fuel prices are constantly changing — over time, this could affect the relative cost ranking of one energy source versus another.

Animal Science Youth Field Day April 2

The Southeast District Animal Science Youth Field Day will be held Saturday, April 2, 9-4:30 p.m. on UNL East Campus at the Animal Science Complex. All high school youth ages are invited to participate — no cost to attend. Fun activities will increase your science-based knowledge of animals. The event is sponsored by UNL Cooperative Extension. Pre-registration not required, but requested — call Deanna at 441-7180.

Nebraska Agricultural Youth Institute Applications Due April 15

High school juniors and seniors are invited to take part in the Nebraska Agricultural Youth Institute (NAYI) which will be held July 10-14. The NAYI is to help build leadership skills, explore new aspects of agriculture and encourage young people to become more involved with and remain in agriculture. The Institute takes place at the University of Nebraska-Lincoln. All meals, lodging and activities are sponsored by the Nebraska Department of Agriculture. The only expense for students is transportation to and from the Institute. Applications are due April 15. If interested, contact extension at 441-7180 for an application.



The NEBLINE



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All programs and events listed in this newsletter will be held (unless noted otherwise) at:

Lancaster Extension Education Center
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