

# EXTENSION CALENDAR

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

## May

23 4-H Leader Training ..... 9:30 or 7 p.m.

## June

1 County Fair 4-H Horse ID's Due to Extension Office  
 1 ABC's for Good Health - 3 part series ..... 10 a.m. or 6 p.m.  
 2 Animal Science Field Day, UNL East Campus -  
 Animal Science Bldg ..... 9 a.m.-3:30 p.m.  
 6 4-H Council Meeting ..... 7 p.m.  
 8 ABC's for Good Health - 3 part series ..... 10 a.m. or 6 p.m.  
 9 4-H County-Level Senior Life Challenge ..... 10 a.m.  
 13 4-H Horse Riding Skills Group Test, location TBA ..... TBA  
 15 ABC's for Good Health - 3 part series ..... 10 a.m. or 6 p.m.  
 15 4-H Presentations Workshop ..... 1:30 p.m.  
 15 All County Fair 4-H/FFA Animal ID's Due to Extension  
 17 Jammie Jamboree ..... 9 a.m.  
 19-22 District 4-H Horse Shows (Beatrice-19, O'Neil-20, Oakland-21, Lincoln-22)  
 20-23 Clover College  
 27-30 District 4-H Horse Shows (Sydney-27, Valentine-28, McCook-29, Lexington-30)  
 26 Family & Community Education (FCE) Council Meeting ..... 7 p.m.  
 26-27 4-H PASE/Life Challenge, UNL East Campus

## Bio-Fuels

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systems necessary to reduce emissions. The standard is being resisted by petroleum refiners as being too costly.

Rotary distributor injection pumps rely on the diesel fuel itself for lubrication. Sulfur compounds in diesel fuel have lubricating properties. The main lubricity problem is these pumps sustain accelerated wear with lower sulfur diesel. Newer pumps built to new, low-sulfur standards can handle



A biodiesel plant converts vegetable oil (such as soybean oil) to biodiesel.

the lower sulfur content, but older models will need lubricity enhancers added to the fuel. The addition of biodiesel, at the rate of 2 percent (B2), increases fuel lubricity of present day low lubricity #1 and #2 diesel to benchmark standards or better. As sulfur content drops to meet the new 2006 standards, older engines would likely benefit from somewhat higher concentrations of biodiesel. The lubricity characteristics of biodiesel, plus the long-term benefits of replacing a portion of fossil fuel with a renewable source should result in a growing and on-going demand for

biodiesel in the future.

Statistics show an estimated 45 billion gallons of diesel fuel was used by over-the-road trucks in 2001. If all over-the-road truck diesel fuel contained a 2 percent blend of biodiesel (B2), about a billion gallons of

petroleum diesel per year would be replaced by biodiesel which, in turn, would reduce our dependence on foreign oil.

Many Nebraska farmers are using B2 in their diesel tractors, combines and pickups. In fact, at least one major farm equipment manufacturer is shipping their tractors with a tank of biodiesel. The number of diesel automobiles is expected to double in the next 20 years. If biodiesel were used not only in trucks and cars but also in diesel-electric locomotives, construction equipment, etc., we could further reduce our dependence on foreign oil.

## What Does the Future hold for Biofuel Production in Nebraska?

Nebraska will continue to be a reliable supply of feed grain and oilseed, as a result of our irrigated crop production. Some of this production is already going into biofuel production and as more biofuel plants go into production, they can be located so as to be assured of a reliable supply of feedstock. Nebraska has a very well-developed transportation infrastructure — truck and rail. Our central location within the country puts us in an ideal position to be a supplier of biofuels to the Midwest region and both coasts.

When cellulosic ethanol production is perfected, Nebraska has millions of acres of forage production as well as millions of tons of crop residues which could be utilized for ethanol production.

Finally, we have a thriving cattle and hog feeding and dairy industry to utilize the by-products of the grain ethanol plants and oilseed crushing industries, thus adding to the profitability of both the biofuel industry and the livestock industry in the state.

I have often said, Nebraska is the Saudi Arabia of fresh water, having two billion of the estimated total 2.98 billion acre-feet of water stored in the High Plains Aquifer. Someday, we also could be known as the Saudi Arabia of renewable fuels.



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska-Lincoln cooperating with the Counties and the United States Department of Agriculture.

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THE NEBLINE is published monthly (except December) and mailed to more than 10,500 households in Lancaster County.

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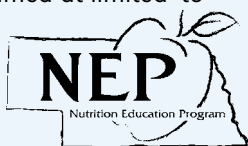
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## ABC's for Good Health, June 1, 8 & 15

### A 3-Part Series Which can Change Your Life

UNL Extension Nutrition Education Program (NEP) is presenting "ABC's for Good Health," a free series aimed at limited- to moderate-income women. Upcoming dates are Thursdays, June 1, 8 and 15. Choose between two time slots, 10 a.m.-12:30 p.m. or 6-8:30 p.m.



#### Learn that good health is as easy as:

- Aim for fitness — Increase your physical activity with a personalized walking program.
- Build a healthy base — Use MyPyramid to guide your food choices.
- Choose sensibly — Balance the foods you need and enjoy.

#### Participants receive:

- A pedometer and inspiration to stay fit
- A notebook with practical nutrition information
- New recipes and food preparation ideas
- A cookbook (valued at \$15) after completing the series

Sessions are held at the Lancaster Extension Education Center, 444 Cherrycreek Road in Lincoln. Please register by May 24. Call NEP at 441-7180 for more information or to register.

