

EXTENSION CALENDAR

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

September

- 22 **Family & Community Education (FCE) Council Meeting** 7 p.m.
- 23 **Guardian/Conservator Training** 1:30–4:30 p.m.
- 23 **55 ALIVE Driver Safety Course** 12:30–4:30 p.m.
- 24 **55 ALIVE Driver Safety Course** 12:30–4:30 p.m.
- 25 **Family & Community Education (FCE) & Community Leader Training Lesson: "What Is It, Where Do You Get It and How Do You Pay for It?"** 1 p.m.
- 25–28 **Ak-Sar-Ben 4-H Livestock Exposition**, Qwest Center, Omaha
- 27 **4-H Horse Level Testing**, Lancaster Event Center Pavilion 2 - Warm-up Arena 9 a.m.
- 27 **Composting Demonstration**, Pioneers Park Nature Center's Backyard Composting Demonstration Area 10 a.m.–Noon

October

- 2 **4-H Leader Update** 9:30 a.m. and 7 p.m.
- 5–11 **National 4-H Week**
- 7 **4-H Horse Awards Night** 7 p.m.
- 7 **4-H Council Meeting** 7 p.m.
- 9 **4-H Kick Off** 6–7:30 p.m.
- 10 **Extension Board Meeting** 8 a.m.
- 10–11 **Strengthening Family Treasures: Daughter/Mother Camp**, Eastern 4-H Center near Gretna 5 p.m.–5 p.m.
- 12 **4-H Teen Council Meeting** 3 p.m.
- 16 **Parents Forever/Kids Talk About Divorce** 5:30–9:30 p.m.
- 25 **Composting Demonstration**, Pioneers Park Nature Center's Backyard Composting Demonstration Area 10 a.m.–Noon
- 27 **Family & Community Education (FCE) Achievement Night** 6:30 p.m.
- 28 **Guardian/Conservator Training** 5:30–8:30 p.m.

Make It With Wool Contest, Deadline Sept. 27

This contest offers both youth and adults the opportunity to promote the beauty and versatility of wool fabric and yarn. Personal creations in sewing, knitting, crocheting, spinning and weaving of wool fabric, yarn is encouraged. Categories and ages for this contest are: Preteen, 12 & under; Junior, 13–16; Senior, 17–24; Adult, 25 & over; Made for Other (any age). The District III contest will be held at the UNL East Campus Home Economics Building in Lincoln (note: location listed in August NEBLINE was incorrect) on Saturday, Oct. 11, with registration beginning at 8:30 a.m. Entry deadline is Sept. 27. You may enter any district contest. For more information, call Tracy at 441-7180.

4-H Foundation Trail Ride, Oct. 10–12

The 10th annual 4-H Foundation Charity Trail Ride will be held Oct. 10–12. Savor the outdoors riding trails in the Nebraska National Forest near Halsey. Enjoy meals, activities and entertainment at the Nebraska State 4-H Camp. Details are online at <http://4h.unl.edu/foundation/trailride.htm>

GRAIN DRYING

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the short contact time the air stream has with the grain. High volumes of very hot and dry air moving through shallow beds of grain result in the air leaving the grain mass much less saturated compared to deep-bed, in-bin drying systems. This is reflected in higher energy cost per point of moisture removed per bushel as compared to in-bin systems. Some high-capacity dryers recover some energy by channeling the air used to cool the grain back into the drying chamber air stream or by re-circulating a high percentage of the previously heated air back through the grain mass.

High temperatures and uneven moisture content within the kernel result in a much higher incidence of stress cracks as compared to in-bin drying. Stress cracks created in the dryer result in a much higher percentage of broken kernels upon subsequent grain handling.

Dryeration

A variation using high capacity dryers is known as dryeration. Dryeration is the name given to a system where hot grain is removed from the high-speed dryer a point or two above desired storage moisture then transferred to a bin where it is allowed to temper for four to six hours before starting the fan for final cooling. The final

one or two points of moisture are easily removed in the process of cooling the grain because the moisture deep inside the kernels has had time to redistribute during the tempering period. This method of grain drying increases the throughput capacity of the dryer and results in higher quality grain with fewer stress cracks than drying followed by rapid cooling.

Combination Drying

Another intermediate system using both the high temperature dryer and in-bin aeration is called combination drying. With combination drying, you "take the edge off" high moisture corn by drying the grain to 20–22% moisture with the high-temp, high-speed dryer and then move the grain hot to a bin where the aeration fan can push at least two cfm/bu of unheated air through the grain mass to complete the process. This cuts the reliance on heat and decreases the load on the high temp dryer even more than dryeration. It also cuts the energy cost if the heating fuel is the higher cost energy source.

If you have been completely drying and initially cooling your corn in the high-speed dryer but have bins equipped with mesh floors and high capacity aeration fans, either dryeration or combination drying can result in faster throughput, higher quality grain and lower energy costs.



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.

University of Nebraska–Lincoln Extension in Lancaster County

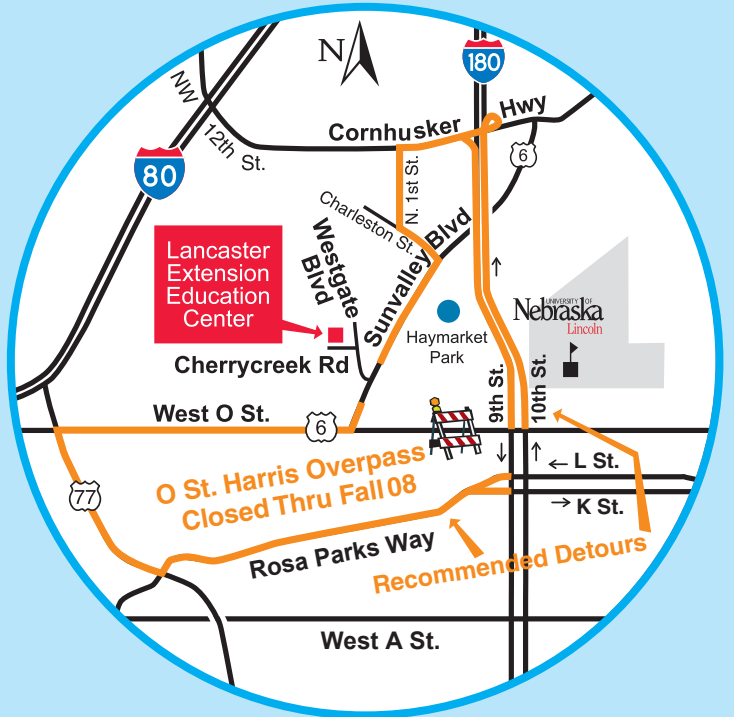
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2008 Ag at the Crossroads Conference

Anyone interested in Nebraska agriculture is invited to attend the 2008 Ag at the Crossroads Conference on Thursday, Nov. 6, 8:30 a.m. at the Lancaster Event Center, 84th & Havelock in Lincoln. This year's conference will examine political, social and consumer trends influencing the future of the food animal industry. This event is sponsored by the Nebraska AgRelations Council and the University of Nebraska–Lincoln Department of Agricultural Economics.

To register, send \$40 to NAC, P.O. Box 830918, Lincoln, NE 68583-0918. The registration fee includes a luncheon, breaks and conference materials. Registrations received after Oct. 31 will increase to \$50. Limited on-site registration will be available. For more information contact Deanna Karmazin at 441-7180.