Washington County Cooperative Extension Service 245 Corporate Drive

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AGRICULTURE AND NATURAL RESOURCES

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Future Prices

Futures 1	Prices	4/21/23	4/14/23
Live Cattle	June	\$164.52	\$163.73
	August	\$163.55	\$162.70
	October	\$167.82	\$166.60
Feeder Cattle	May	\$212.40	\$207.90
	August	\$229.88	\$223.95
	September	\$232.43	\$227.60
Corn	May	\$6.63	\$6.66
	July	\$6.15	\$6.36
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Source: CME Group



Listen for weekly tips on 100.9

Washigton County Extension Office

Check out our website!

Cooperative Extension Service Agriculture and Natural Resources Family and Consumer Sciences 4-H Youth Development Community and Economic Development

Educational programs of Kentucky Cooperative Extension serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, cread religion, political belief, sex, sexual orientation, gender identity, gender expression, pregnancy, marital status, genetic information, age, veteran status, or physical or mental disability. University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating. LEXINGTON, KY 40546 Disabilities accommoda with prior no

UPCOMING EVENTS

May

5th: Kentucky Derby 8th: SRQA 9th: Uk Wheat Field Day, Princeton 14th - 19th: International Forage and Grasslands Conference, Covington 18th: Ready-to-React 18th: KATS Crop Scouting Clinic, Princeton 20th-21st: Kentucky Sheep & Fiber Festival, Lexington 23rd: Lands, Water, Trees, Wildlife: Stewardship, Bullitt County 29th: Memorial Day

May is Beef Month

June

9th: June Dairy Month 10th-17th: National AGBA Show, Louisville 23rd-27th: National Holstein Convention, Lexington 28th: Deer Management

June is Dairy Month

If you have any questions about these programs please call (859)336-7741

Cooperative Extension Service Washington County 245 Corporate Drive Springfield KY, 40069 (859) 336-7741 taylor.graves@uky.edu





www.facebook.com/WashingtonCountyKentucky4H/

READY TO REACT

Emergency Preparedness Community Event

Washington County

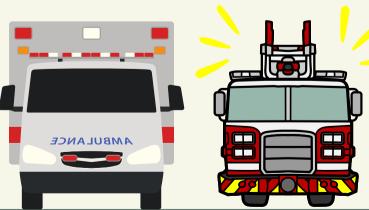
Thursday, May 18th, 2023

3 PM - 7 PM, Washington County Extension Office 245 Corporate Dr., Springfield, KY

Ready to React is an emergency and disaster preparedness community event. The objective is to connect with local resources to prepare for emergency situations.

FREE INFLATABLES,

FOOD TRUCKS



Topics Include:

- EMS
- Fire Department
- Kentucky Fish and Wildlife
- Creating an Emergency Kit
- Insurance
- Fallen Power Lines
- Flooding
- Winter Prep
- Freezer and Food Pantry Essentials

For more Information:

Washington County Extension Office (859)336-7741

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University of Kentucky College of Agriculture. Food and Environment Cooperative Extension Service

Schedule of Events: Milking Demo @ 1:00 p.m. Butter Making @ 3:00 p.m.

Activities 12:00 p.m. - 4:00 p.m. Free Ice Cream Paw Paw Ice Cream Tasting Paw Paw Tree Raffle Free Inflatable Kentucky Kate Viewing Dairy Cows and Goats

Washington County Extension Office 245 Corporate Dr., Springfield, KY

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This program is approved for a YAIP educational hour.

COW PIE BINGO

Prize: \$100

\$3 / square

144 squares will be available for purchase at the office Now - June 9th.

The cow will be placed in the pen at 12:30 P.M.

Proceeds will go to the Washington County 4-H





Hunter Education Student Course

Saturday August 5th, 2023 8:00 am - 5:00 pm Bluegrass Sportsman Club Wilmore, KY

Hunting Seasons

- Coyote
- Groundhog
- Turtle
- Bullfrog

Trout and Rough Fishing Season is open until May 31st



For more information on season dates : https://app.fw.ky.gov/seasondates/

Measuring Hay Temperatures

It is well known that baling hay at the right moisture content is the key to preventing excessive heating in the bale. It can be quite a challenge, though, to get all of the hay baled without some of it being a bit wetter than is desirable. That's when trouble can begin, and we have to be concerned about heating that could damage the hay or even lead to spontaneous combustion. Fortunately, the heating process does take some time to develop and we do know what temperatures signal that a critical situation may be developing. So, monitoring bale or stack temperatures is one good way to find out what is happening inside the bale and to help avoid that nasty surprise that no one wants to see – a hay fire.

What are we looking for? Most hay goes through one or more heating cycles (a "sweat") immediately after baling. It is not unusual for internal bale temperature to exceed 100° F, and it may go as high as 130° F if enough moisture and oxygen is present. Under normal conditions, the moist bale temperature peaks slightly below 130° F and then begins to decline. If the hay was wetter, we might see the peak temperature exceed 130° F. Dry hay heats very little at all, and if the bale moisture was somewhere between 15 and 20% we would expect the peak temperature would also be below 130° F. If the temperature peaks at less than 130° F, there may be some loss of hay quality but the heating does not create a fire danger. With free air circulation all around the bale, both heat and moisture are lost out the sides and ends of the bale. A single bale rarely heats enough to catch on fire. However, when we place the bale in a stack with other bales that are also heating, we create a situation where heat cannot be transferred to the edges of the stack as rapidly as it is produced. If the bales we stacked are a bit wetter than they should be, temperatures can easily go above 130° F. Once the temperature reaches 140 to 150° F, some other microbial growth and chemical reactions start to generate heat at a faster rate. Then there is a real risk that the temperature may very rapidly rise above 200° F where spontaneous combustion can occur.

What we are really trying to do in measuring hay temperatures is to avoid a potential catastrophe by making sure that we know ahead of time if a critical situation might be developing. From a quality perspective, it is best if hay temperatures stay well below 130° F, but there is little risk of fire up to that point. It is a continued temperature rise above 130° F that signals potential danger, and detecting those conditions is the purpose of monitoring bale or stack temperatures. Some critical points on the temperature scale are shown in the graphic above, and some suggested actions for those designated conditions are also given. Remember, too, that temperatures can rise significantly in a matter of hours when a critical situation is developing.

Where do we need to measure temperatures? We know that the heating process is related to moisture, so it makes sense to monitor the hay that we think might have been too damp when baled or may have gotten wet after it was baled. With reasonably uniform moisture in the bale, the highest temperature is likely to be near the middle where heat is retained for the longest time. That implies that we should be looking near the center of a bale or deep into a stack

Measuring Hay Temperatures

If the core is loosely formed in a large round bale, the highest temperature may be found in the more tightly packed hay 6 to 12 inches away from the center. Probe square bales from the side and round bales from the end. A temperature probe should be long enough to reach the middle part of the bale. Probes for large packages will need to be at least 18 to 36 inches in length, depending on the size and type of bale that you have. It's probably not feasible to measure every bale, so concentrate on bales that seem most likely to have a problem. Generally, those are the ones with the wettest hay. It's a good idea to probe a bale in 3 or 4 different places, perhaps from each end or side, to see if temperatures are warmer in some areas than in others. If you find a warm spot, then continue your daily monitoring in that same general area of the bale. It may be more difficult to reach the center of a stack, but it's important to get at least 5 to 10 feet down from the top or in from the side. The most critical factor is to be able to reach an area where the wettest hay is stored. It is best to probe in several locations and at different depths to locate the warmest area.

Several different types of thermometers can be used and no great precision is required. Accuracy within 5 ° F is sufficient. Durability, temperature range, ease of use, and cost are probably the more important factors to consider. Any hay thermometer should be capable of reading temperatures up to at least 200° F.

A simple glass thermometer can be used by attaching a string or thin wire and lowering or pushing it into a probe that has been inserted into the hay. These can be pocket models with a case, longer laboratory type thermometers, or candy thermometers. Some are made with metal armor that partially surrounds the glass tube for added protection. However, no glass thermometer, with or without armor, should be inserted directly into a bale because they break very easily. Also because they are easily broken, do not use mercury thermometers. Only spirit filled thermometers should be used. This avoids any risk of contaminating hay with mercury in the event of a broken thermometer.

Electronic thermometers with remote sensors and a digital readout can be used for this application. Common indoor/outdoor thermometers of this type could be used for some measurements, but most of them have a maximum upper temperature reading of about 160° F. A better choice is to look for instruments used in the heating and air conditioning industry. They are likely to be available with a higher temperature range. Most electronic thermometers require batteries although some are solar powered with or without a battery backup. Avoid LED displays as they are often hard to read in bright light. An LCD (liquid crystal display) is a better choice. Long stem dial thermometers, also sold as "compost thermometers," are probably the most rugged and reliable. Unfortunately, the price increases considerably as the dial size and stem length increases. It is tempting to insert these thermometers directly into a bale without using a probe but that is not a good idea. Inside the thermometer stem, the sensing element is near the tip and there is a long helical connection through the stem to the dial. Bending or 15 crimping the stem can severely affect the thermometer's accuracy or even render it inoperable. A multitude of low cost dial or digital thermometers with an attached stem are available. They may be usable for a few applications, but are not always well suited to measuring hay temperatures. The stems are often too short and/or too thin, to be practical for inserting deep into a hay bale, and the attached dials or digital readouts are usually

EASY ITALIAN ZITI

Ingredients

- 1 pound lean ground beef
- 1 (24 ounce) jar low-sodium spaghetti sauce
- 2 cups low-fat cottage cheese
- 2 tablespoons grated Parmesan cheese
- 1 egg, beaten
- 2 teaspoons dried parsley
- ¹/₄ teaspoon garlic powder
- 8 ounces whole-wheat ziti or penne pasta, cooked according to package directions
- Cooking spray
- 1 cup shredded Mozzarella cheese

Nutrition Facts per Serving: 310 calories; 9g fat; 3.5g saturated fat; 0g trans fat; 75mg cholesterol; 350mg sodium; 32g carbohydrate; 3g fiber; 9g sugar; 26g protein; 15% Daily Value of vitamin A; 4% Daily Value of vitamin C; 20%

Daily Value of calcium; 15% Daily Value of iron

Recipe cards like this are available at the office!

Directions:

- 1. In a large skillet over medium heat, warm the vegetable oil. Add fish. Preheat oven to 350 degrees F.
- 2. In a large skillet, sauté beef until it browns. Drain off the excess fat. Add spaghetti sauce and heat through.
- 3. In a large mixing bowl, combine cottage cheese, Parmesan cheese, egg, parsley and garlic powder. Add cooked ziti and mix well.
- 4. Spray a 9-by-13-inch baking dish with cooking spray. Spread 1 cup of spaghetti sauce in the bottom of the dish. Spoon ziti mixture into the pan and top with remaining sauce and Mozzarella cheese.
- 5. Bake for 30 minutes uncovered. Let stand 5 minutes before serving.



Wheelbarrow Series for May 25th: Hypertufa

Wheelbarrow Series for June

8th: Hydrangeas 15th: Introduction to Landscape Design

Bee Club May 1st: Monthly Meeting

June 5th: Monthly Meeting

Homemaker Yard Sale June 3rd

AT THE EXTENSION OFFICE