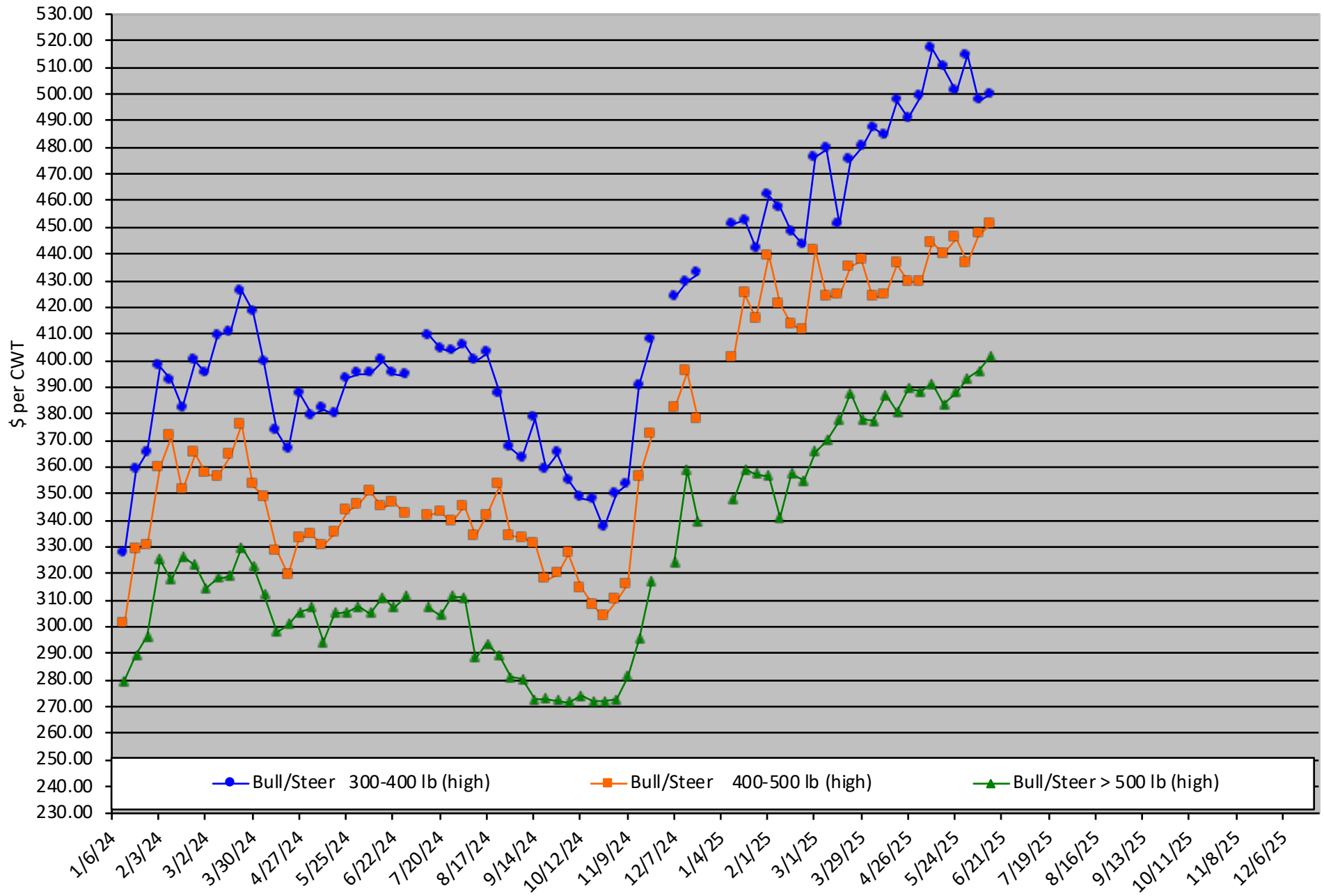


Calf Price Trends

Trend of the Highest Price Reported for Various Weight Calves, Average of 6 East & Central Texas Livestock Auctions

Chart created by Dr. Jason Banta, Extension Beef Cattle Specialist

For a weekly email copy of this chart please email amsensing@ag.tamu.edu or contact a Texas A&M AgriLife County Extension Agent

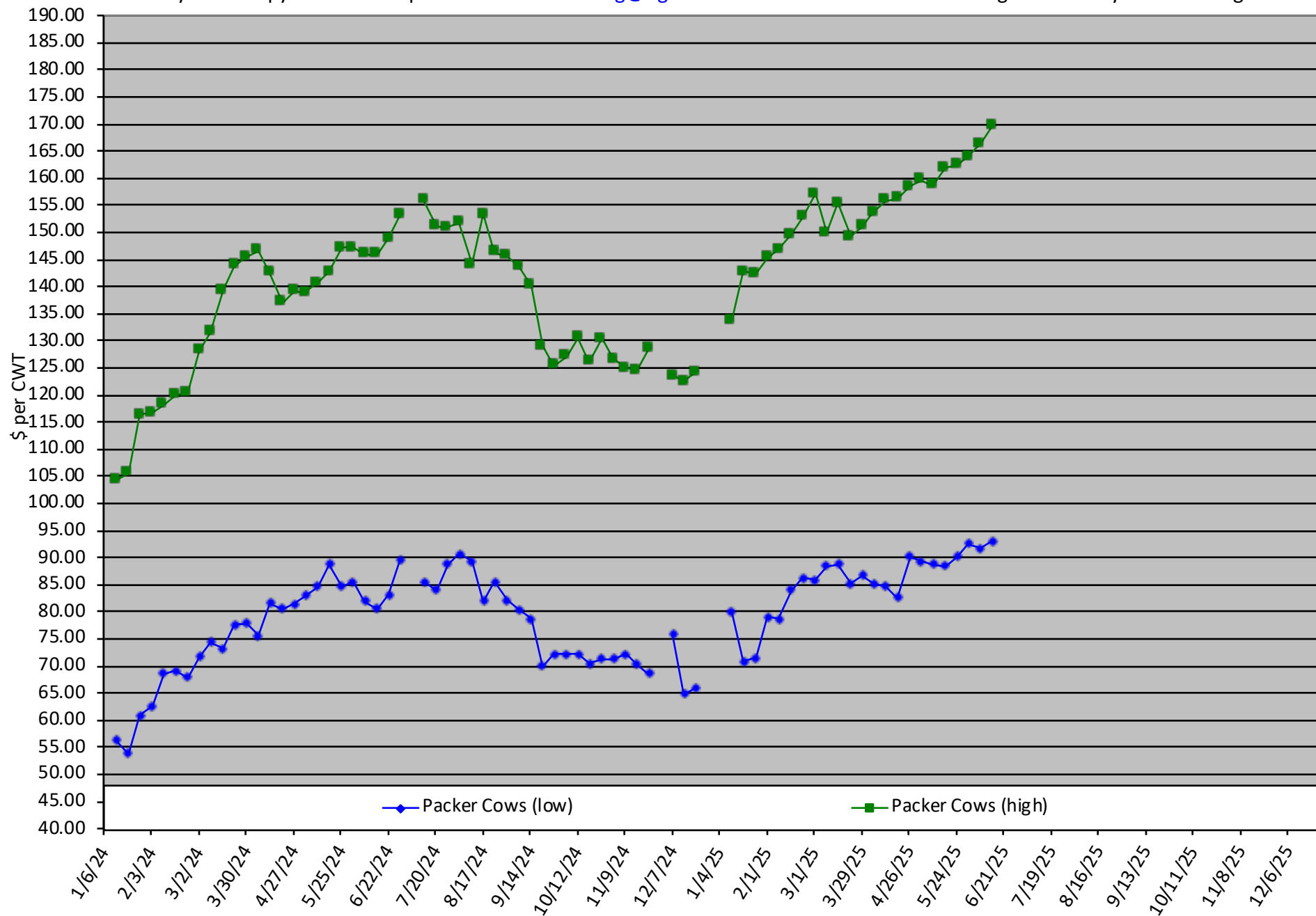


Packer Cow PriceTrends

Trend of High and Low Prices Reported for Packer Cows, Average of 6 East & Central Texas Livestock Auctions

Chart created by Dr. Jason Banta, Extension Beef Cattle Specialist

For a weekly email copy of this chart please email amsensing@ag.tamu.edu or contact a Texas A&M AgriLife County Extension Agent



I often hear people say they want a higher phosphorus (P) level in their mineral to help with reproduction. Before feeding a higher phosphorus mineral, it is important to take a look back at research on phosphorus supplementation and what exactly was observed in those studies.

The first P supplementation work in the U.S. was done on the King Ranch in south Texas from January 1938 to March 1941. Supplementation of 6.4 grams of phosphorus six days a week resulted in increased cow weight, calf weaning weight and reproduction. Increased rates of phosphorus supplementation were not beneficial. A second experiment was conducted from July 1941 to November 1946. In this study, phosphorus treatments provided in self feeders, in the drinking water or as phosphorus fertilizer also resulted in increased cow weight, calf weaning weight and reproduction. It is important to note the phosphorus fertilizer was the most cost-effective treatment and also allowed for a 50% increase in stocking rates. In both studies, cattle grazed native range with no protein or energy supplementation.

Researchers in New Mexico reported no response to free-choice phosphorus supplementation on percent calf crop during a five-year study. During one drought year, delayed estrus was observed in cows that didn't receive any phosphorus supplementation. Cows grazed native range, and no protein or energy supplements were fed.

Additionally, phosphorus supplementation was evaluated in heifers and cows grazing native range in North Dakota. Phosphorus supplementation had no effect on reproduction in these studies, but calf weaning weight and heifer weight gain were increased in some of the studies.

Research at Utah State was done with Hereford females maintained in a drylot. No differences in phosphorus treatments were observed until a group of cows were fed a very low-phosphorus diet. After six months, lower bodyweight, reduced feed consumption and reluctance to move were reported for this group. Impaired reproduction was not observed until after the cows had been on this diet for over a year.

These studies indicate phosphorus supplementation only impacts reproduction when a severe phosphorus deficiency results in reduced bodyweight and body condition. Feeding extra phosphorus above requirements is not going to improve reproduction or weaning weights and will only lead to increased cost. Next month's article will discuss desired mineral



Jason Banta

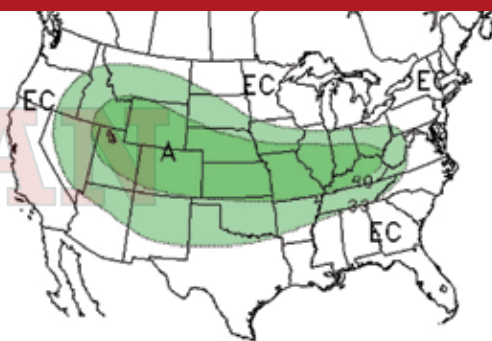
Associate Professor and
Extension Beef Cattle
Specialist
Texas A&M University
jpbanta@ag.tamu.edu

phosphorus levels and how they are impacted by geographic location, protein and energy supplementation, and plant phosphorus content.

0-to-3-month precipitation outlook as of May 16, 2019

Chance of precipitation:

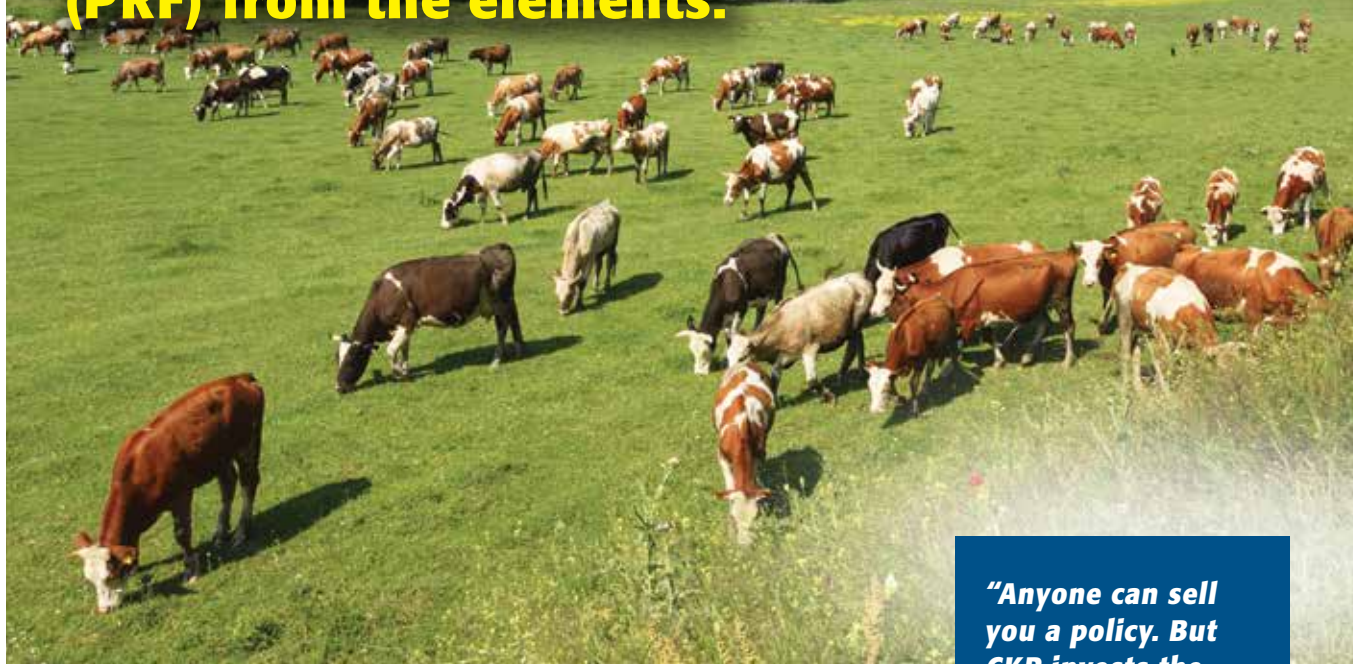
EC = Equal chance
A = Above normal
B = Below normal



Source: National Weather Service – Climate Prediction Center, www.cpc.ncep.noaa.gov

Cover More Ground with CKP

The USDA Risk Management Agency helps protect your Pasture, Rangeland, and Forage (PRF) from the elements.



Let CKP Help You Protect Your PRF

Our trusted risk advisors are trained to help you analyze complicated insurance data so you:

- Protect your land and livelihood against potential losses during times of drought.
- Make the most informed decision for your business.
- Never purchase unnecessary coverage and pay more than you need.

Why now?

- Very affordable – Government subsidized
- Premiums are not due until October 1
- No adjusters needed
- No record-keeping
- Protects your cash flow



"Anyone can sell you a policy. But CKP invests the time to understand your individual needs and develop a strategy that will produce the best coverage results."



Contact your CKP Trusted Risk Advisor today.

877-CKP-INS1 (877-257-4671) ckpinsurance.com

Last month's article provided a brief review of phosphorus supplementation and its impacts on cow weight and body condition, calf weaning weight and pregnancy rates.

To summarize, feeding extra phosphorus above animal requirements does not improve reproduction or weaning weights and will only lead to increased cost.

The targeted intake rate of a mineral supplement has an impact on the most appropriate level of phosphorus in that supplement. For example, the grams of phosphorus consumed is the same for a 12% phosphorus mineral consumed at 2 ounces per day and a 6% phosphorus mineral consumed at 4 ounces per day (both provide 6.81 grams of phosphorus per day).

At one time in the beef industry, loose mineral supplements with a 2-ounce target intake were very common and often formulated at the 12% phosphorus level. However, most mineral supplements today are based on a 4-ounce target intake, and levels of phosphorus and other minerals can be reduced. Additionally, as phosphorus levels rise in loose mineral supplements, mineral intake will almost always decrease.

Protein and energy supplementation can supply significant amounts of phosphorus. When fed at 2 pounds per head per day, cottonseed meal will provide about 10 grams of phosphorus and dry distillers grains plus solubles (DDGS) will provide about 6.4 grams of phosphorus per day.

These or similar supplementation strategies are often used when supplementing cattle grazing dormant native range. This is important because plant phosphorus content is often adequate in growing native forages but decreases in native forages as they go dormant.

Phosphorus provided by these two supplements and supplements with similar phosphorus levels can easily supply similar amounts or more phosphorus than what is provided by the difference between a 10%-12% phosphorus mineral and a 5%-8% phosphorus mineral with a 4-ounce intake.

The following are general recommendations based on typical production conditions in the South Central region and may need to be adjusted in certain situations; they are meant for loose minerals with a 4-ounce target intake. These recommendations also take into account that cows can store excess phosphorus and mobilize it when the diet is lacking. For most situations, a mineral with 4%-6% phosphorus should be more than adequate.

In situations where soil



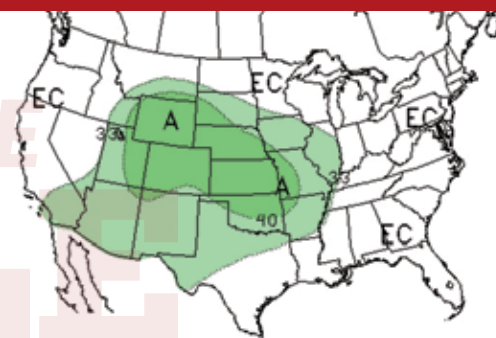
Jason Banta
Associate Professor and
Extension Beef Cattle
Specialist
Texas A&M University
jpbanta@ag.tamu.edu

phosphorus levels are extremely low, or cows are grazing dormant native forages, then phosphorus levels of 7%-12% may be considered.

0-to-3-month precipitation outlook as of June 20, 2019

Chance of precipitation:

EC = Equal chance
A = Above normal
B = Below normal



Source: National Weather Service – Climate Prediction Center, www.cpc.ncep.noaa.gov

Cover More Ground with CKP

The USDA Risk Management Agency helps protect your Pasture, Rangeland, and Forage (PRF) from the elements.



Let CKP Help You Protect Your PRF

Our trusted risk advisors are trained to help you analyze complicated insurance data so you:

- Protect your land and livelihood against potential losses during times of drought.
- Make the most informed decision for your business.
- Never purchase unnecessary coverage and pay more than you need.

Why now?

- Very affordable – Government subsidized
- Premiums are not due until October 1
- No adjusters needed
- No record-keeping
- Protects your cash flow



Contact your CKP Trusted Risk Advisor today.

"Anyone can sell you a policy. But CKP invests the time to understand your individual needs and develop a strategy that will produce the best coverage results."



877-CKP-INS1 (877-257-4671) ckpinsurance.com

AG IN THE EVENING

2025 virtual Zoom Educational Series programs brought to you by the Extension offices of Houston & Gregg Counties



MAY 13, 2025

DR. JASON BANTA



BODY CONDITION SCORE & BASIC REPRODUCTION IN CATTLE



JUNE 10, 2025

DR. VANESSA CORRIHER OLSON



BERMUDA GRASS CHALLENGES IN PASTURES & HAY MEADOWS



JULY 8, 2025

DR. JASON BANTA



HYDROGEN CYANIDE & NITRATES IN BEEF CATTLE



AUG 12, 2025

DR. VANESSA CORRIHER OLSON



ALFALFA: TO GROW OR NOT TO GROW?

**AG
IN
THE
EVENING**

TEXAS A&M
AGRILIFE
EXTENSION

*Click TITLE of each program
or scan QR Code to register*

ALL PROGRAMS START AT 6:00 PM

Educational programs of the Texas A&M AgriLife Extension Service are open to all people without regard to race, color, sex, disability, religion, age, or national origin, genetic information or veteran status. The Texas A&M University System, U.S. Department of Agriculture, and the County Commissioners Courts of Texas Cooperating. Anyone needing special assistance at an Extension Program should contact the Texas A&M AgriLife Extension Office at 936.544.7502 at least one week prior to the program or event.