

# Questions being asked about nitrogen products

With wheat top dressing time very close, there have been lots of questions coming in about nitrogen and some of the new nitrogen products that are on the market.

One product that seems to be the hot topic is polymer coated urea. This is also called extended release nitrogen and is a dry product that has a coating to protect from nitrogen losses.

This is one of many products that are in a group called enhanced efficiency nitrogen fertilizers. These are additives or treatments that offer the potential to reduce nitrogen loss if the potential for nitrogen loss via leaching denitrification or volatilization exists.



**jeanne falk**  
• extension district

For the extended release nitrogen, the polymer coating gradually releases nitrogen from the granule in response to environmental conditions. The intent of this delayed release is to match the supply of plant available nitrogen from fertilizer to the nitrogen needs of the growing plant. Over time, the polymer coating breaks

down allowing all of the nitrogen to be available to the plant.

There are several factors that affect the rate that the polymer coating releases nitrogen from the encapsulated granule. Moisture is absorbed through the coating to liquefy the nitrogen, while warmer soil temperature increases the nitrogen release through the coating.

This product has a fit in several systems subject to nitrogen loss, although top dressing wheat may not be the best fit for it. It is important for plant-available nitrogen to be in the root zone of wheat at the time of jointing to have maximum effect on wheat grain

yields. After the jointing stage, additional available nitrogen has less effect on grain yield, especially if rainfall is not received immediately after application to move the applied nitrogen into the root zone. It is likely that conditions required for complete nitrogen release from the polymer coated material (temperature, moisture) would not have been met by jointing in order to allow the nitrogen from polymer coated urea to be most efficiently utilized by the wheat plants.

Recently, a K-State study looked at effects of application timing on wheat yields. When part or all of the nitrogen was surface-applied at or after jointing, it had only half

the effect on yield as where it had been applied earlier (and was available in the root zone at jointing). When part or all of the nitrogen was surface-applied at lag leaf emergence, it had little or no effect on yield. If nitrogen release from the polymer coated materials does not occur prior to jointing, we might expect similar results.

In conclusion, there are many good timing and nitrogen source options for top dressing wheat. The main thing to keep in mind is to have plant-available nitrogen in the root zone prior to the jointing stage in wheat development.

## matters of record

**Goodland Police**  
The following incidents have been reported to the Goodland Police Department:

**Feb. 25** — 2:34 a.m., 800 W. Ninth, arrested Adam Lawrence Willer for driving under influence. Case referred to city attorney.

**Feb. 27** — 1:43 p.m., 520 W. Ninth, arrested Roverta Moreno-Reyna for transporting an open container and operating vehicle without valid license. Case referred to city attorney.

**Accidents**  
The following accidents were investigated by the Goodland Police Department.

**Feb. 23** — 3:14 p.m., 500 College Ave., a 2002 Dodge driven by Maria Soledad Perez and a 2002 Dodge driven by Alicia A. Avila entered the intersection at the same time. Both drivers attempted to stop, but slid on the ice colliding in the center of the street.

**Feb. 26** — 10:10 a.m., 2160 Commerce Rd., a 1980 Chevrolet driven by Kenneth Donald Scofield and a 2008 Buick driven by Bert A. Summers were both backing out of parking spaces across from each other and did not see each other and backed into each other.

**District Traffic**  
The following fines have been paid in the Sherman County District Court.

**February 1, 2002:** Coleman P. Walker, speeding, \$152.

**April 23, 2005:** Nichole M. Garrard, driving while suspended, \$434; no seatbelt, \$99; speeding, \$168.

**August 8, 2005:** Christa N. Jordan, speeding, \$155.

**May 2, 2007:** Ricky L. Davis, speeding, \$1212; driving while suspended license, \$386.

**August 11, 2007:** Edmundo M. Carrillo, driving while suspended, second offense, \$586; speeding, \$42.

**December 30, 2007:** Paul Jaramillo, driving while suspended, \$386.

**May 21, 2008:** Wade A. Weaver, improper driving on laned roadway, \$195.

**September 29, 2008:** John D. Jackson, speeding, \$158.

**December 24, 2008:** Allen Lamin, speeding, \$176; no seatbelt, \$30; driving with suspended license, \$300.

**January 19, 2009:** Brian A. Henry, speeding, \$146.

**February 3:** Sara S. Zessar,

speeding, \$298.

**April 8:** Margaret M. Scott, speeding, \$152.

**May 8:** Timothy L. Collins, speeding, \$196.

Michelle A. Heidema, speeding, \$160.

**May 9:** Sandra P. Hernandez, speeding, \$146.

**August 26:** Joshua M. Delong, speeding, \$160.

**September 5:** Keith S. Kuder, speeding, \$233.

**October 4:** Vincent N. Kelly, speeding, \$116.

Ketrick L. Roberts, speeding, \$154.

**October 5:** Alma D. Abeldano, speeding, \$140; no liability insurance, \$300; driving with suspended license, \$300.

**October 12:** Richard B. Dean, speeding, \$164.

**November 8:** Kory J. Black, speeding, \$203.

**November 26:** Donald J. Mihe-lick, speeding, \$164.

**November 29:** Michelle L. Swarts, speeding, \$146.

**December 11:** Ruben Archilla, speeding, \$160.

**December 15:** Alexander W. Washington, speeding, \$185.

**December 18:** Adrienne R. Pumphrey, speeding, \$116.

**December 21:** Andre O. Hoilette, speeding, \$158.

**December 27:** Jared M. Vandeventer, speeding, \$152; driving with suspended license, \$300.

**December 28:** Douglas P. Bad-ders, speeding, \$140.

**December 29:** Cynthia G. Farmer, speeding, \$158.

**December 31:** Mikellyn R. Mar-ion, speeding, \$152.

**January 1, 2010:** Mercedes M. Daugherty, unlawful parking, \$146.

Adam L. Ford, unlawful parking, \$212.

James E. Hall, improper driving on laned roadway, \$146.

Jon C. Lenie, unlawful parking, \$185.

**January 2:** Leglendell Donalson, Jr., speeding, \$185.

**January 3:** Aaron D. Massey, unlawful parking, \$146.

Brian A. Waters, no seatbelt, \$30; unlawful parking, \$145.

**January 4:** Alexander P. Brod-nik, unlawful parking, \$176.

Jorge M. Sandoval, speeding, \$170.

William B. Stanley, speeding, \$128; driving with suspended license, \$300.

**January 9:** Mary L. Hammock, no valid license, \$208.

Erin K. Oneil, unlawful parking, \$221.

**January 10:** Debra A. Marshall, unlawful parking, \$146.

**January 12:** Lukius J. Medrano, speeding, \$176.

**January 13:** Diahann D. Arm-strong, speeding, \$152.

William S. Scherman, speeding, \$296.

**January 14:** Jeffrey J. Hayden, unlawful parking, \$146.

Cadius L. Jackson, motor carrier safety rules and regulations, \$186.

Lochin Memedov, motor carrier safety rules and regulations, \$336.

Luis A. Segura-Mendor, unlawful use of driver's license, \$166; no child seatbelt, \$60; no valid license, \$60.

**January 15:** Lloyd D. Naylor, speeding, \$146.

**January 16:** Rajendra J. Divecha, speeding, \$146.

Richard P. Jarmillo, speeding, \$185.

Alicia A. Meininger, speeding, \$170.

Travis K. Parker, speeding, \$116.

**January 17:** David F. Southern, speeding, \$170.

**January 18:** Winston A. Chamber, speeding, \$165.

Dillon I. Growneman, speeding, \$185.

James A. List, speeding, \$116.

Juan R. Montes, no valid license, \$146.

Gary Orchard, speeding, \$170.

Britnay M. Woodard, speeding, \$176.

**January 19:** Meda D. McClure, speeding, \$158.

**January 20:** Tina L. Kluesner, speeding, \$146.

**January 21:** Deena Aly, fail to yield to emergency vehicle, \$266.

Shane R. Spurlock, motor carrier safety rules and regulations, \$286.

Jennifer W. Twigg, unlawful parking, \$146.

**January 22:** Deone D. Hill, motor carrier safety rules and regulations, \$186.

Jeri K. Lausch, speeding, \$158.

Joshua J. Mastrobuono, speeding, \$176.

**January 23:** Bereket Nigussie, speeding, \$326.

Robert Robinson, speeding, \$150.

**January 24:** Gregory S. Fricke, speeding, \$185.

Jillian L. Kunkle, speeding, \$170.

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