## Ag Talk with Jeanne

### **Crop Water Allocator: Western Kansas-based** decision making tool for limited irrigation

#### By Jeanne Falk,

limited, irrigators have difficult irrigation do not limit yields. Crop decisions to make about which management that does not meet crops to grow and what rotation best management practices criteria systems will work best. Crop will not achieve the predicted yields at various water amounts, results of applicator. production costs, and crop prices all figure into the decision.

A good decision-making tool land splits: to help sort out these choices for western Kansas conditions percent to 25percent, 33 percent is the Crop Water Allocator, to 33 percent to 33 percent, 50 developed by K-State engineers percent to 25 percent to 25 percent, and agronomists. The Crop Water Allocator program can percent to 25 percent. be downloaded from www. mobileirrigationlab.com. addition, CDs can be ordered at Crop Water Applicator or hold the Extension Office.

irrigation and calculations were developed selected crop to each part of the from field research plots using conventionally tilled management in western Kansas, which is be selected for applicator analysis. why it is best used by irrigators specifically in that region.

The allocator calculates net economic returns from many combinations of crops and irrigation allocations among crops, then ranks the net returns from maximum to minimum of input variables such as rainfall, minimum. The user can scroll production costs, commodity through approximately 20 of the prices, irrigation costs, irrigation largest net return results displayed efficiency and maximum yields.

values for the execution of Crop may not be feasible for users Water Allocator: geographic even though certain crops have location, soil type, irrigation more net return than others. For costs, irrigation application example, soybean in all parts of efficiency, annual precipitation, annual irrigation amount, land split, commodity price, and maximum yield. Crop production costs can come from the allocator combinations of crops for rotation, user or from the software's decisions about how much water internal default production costs to apply to each crop comes into from Kansas State University's play. For example, corn needs to agricultural economists (www. be irrigated to full yields because agmanager.info).

The allocator crop yields from irrigation and such as sorghum and wheat can precipitation (11 to 24 in.) for receive limited water and still alfalfa, corn, soybean, grain respond well.

sorghum, wheat, and sunflower. K-State Multi-County Agronomist The Crop Water Allocator assumes Where irrigation water is that production inputs other than

a rotation scheme for five possible

or 25 percent to 25 percent to 25

The user can choose one land In split for each execution of the land split constant as other inputs The data for the yield vs. are changed. The program will precipitation assign every combination of every land split.

More crops than land splits can One crop may be in more than one part or in all parts of the rotation. The applicator then allocates water to each crop in each combination of selected crops for the rotation. Net return results from all combinations of crops in each part of the rotation and irrigation values. Users can select a range are "stacked" from maximum to on the output screen. Some of the The user needs to enter input crop combinations in the rotation the rotation would not be feasible because continuous soybean is not recommended.

In addition to choosing of the high economic return determines whereas other crops in the rotation

The user of allocator can choose

• 50 percent to 50 percent, 75



LOTS GOING ON AT THE DAIRY — A worker welds fence at the Bird City Dairy.

Times staff photo by Tim Burr

# Public can get rid of unwanted medications

the Cheyenne County Sheriff's office and the Drug Enforcement Administration (DEA) will give the public an opportunity to prevent pill abuse and theft by ridding their homes of potentially dangerous expired, unused and unwanted prescription drugs.

Bring your medications for disposal to the Emergency Building in St. Francis or the Fire House in Bird City, said Sheriff Craig Van Allen. The service is free and anonymous, no questions asked.

Last April, Americans turned 376,593 pounds—188 tons prescription drugs at nearly of 5,400 sites operated by the Drug

than 3,000 state and local law enforcement partners.

This initiative addresses a vital public safety and public health issue. Medicines that languish in home cabinets are highly susceptible to diversion, misuse, and abuse.

Rates of prescription drug abuse in the U.S. are alarmingly high, as are the number of accidental poisonings and overdoses due to these drugs. Studies show that a majority of abused prescription drugs are obtained from family and friends, including from the home medicine cabinet.

In addition, Americans are now

On Oct. 29 From 10 a.m. to 2 p.m. Enforcement Agency and more advised that their usual methods for medications will be collected. disposing of unused medicinesflushing them down the toilet or dosage forms and liquids in throwing them in the trash—both pose potential safety and health hazards.

> Four days after the first take-back event in September 2010, Congress passed the Secure and Responsible Drug Disposal Act of 2010, which amends the Controlled Substances Act to allow an "ultimate user" of controlled substance medications to dispose of them by delivering them to entities authorized by the Attorney General to accept them. Items allowed

non-controlled, Controlled. prescription and over the counter

Tablets, capsules, all other solid consumer containers will be accepted.

No syringes or needles will be accepted. Liquids should remain sealed in their original container with the cap tightly sealed to prevent leakage. Participants are encouraged to remove or black out any identifying information from the prescription label. This service is free and anonymous, no efforts will be made to count, log, or inventory the medications.  $\bigoplus$ No requests for information or identification will be made.







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