Corn study proves timing irrigation can increase yields

When summer is here, there are lots of things to be done, from planting to harvesting and everything in between.

Some chores don't always get done on time. For some things, a delay of a week is no problem. For others, a week can make all the difference — the difference between making a good profit or not.

Timing irrigation is one of those things. This was addressed in a long-term study established at the North Central Kansas Experiment Field near Scandia. The site was a Crete silt loam soil in a corn-soybean rotation and was furrow irri-

Over the early course of the study, the irrigation treatments were modified, but generally the irrigation timings were: no irrigation, tasseling, tasseling plus one week after tasseling, tasseling plus two weeks after tasseling, and at 40 or 60 percent soil moisture depletion. About 3 inches of wa-

ter were applied at each irrigation.

Information from the first three years of this study, when treatments were slightly different than in later years, indicated that corn yields from initiating irrigation before tasseling (10-leaf stage, tassel emergence, one week and two weeks after tasseling) were virtually the same as when irrigation was initiated at tasseling (tasseling, one week and two weeks af-

was started one week after tasseling as compared to irrigation start-

By LOUISE CRESSLER

During the night Saturday we re-

ceived rain. By 8:30 a.m. Sunday

morning it had started to snow. Only

eight people braved the elements to

Tuesday Study Club met Jan. 25

at the home of Rachel Carter with

Kathy Nauer as co-host. Those

present were Naomi Carter, Ruth

Chance, Wilma Mader, Joan

McKenna, Helen Muirhead, Helen

sion agent, on the many benefits of eating fruits and vegetables.

United Methodist Women met Feb. 2 at the church. Those present

were Vendla Tacha, Marguerite

Bailey, Naomi Carter, Helen

Rhodes, Rachel Carter, Betty Krebs and Louise Cressler. Rachel

gave the program, "Prayer-

Women in Prayer". Betty Krebs

gave Quiet Moments. Marguerite

and Vendla served refreshments.

The group will be serving lunch to

pastors of the Hays District at the

"First Church" meeting Feb. 28 at

Jennings City Council met Feb.

3 with Mayor Bob Jones, council-

men Don Bolt, Stann Hartzog, Bill

Gawith and Louise Cressler, City

Clerk Sue Long present. Rick Fos-

ter was absent. The council dis-

cussed concerns of the city only

having the one well that can be

used for drinking water. Funding

is being looked into for drilling of

a new well. New padlocks have

been purchased and installed on

several buildings. The grant appli-

cation for funds to renovate Com-

munity Hall was delivered to Lo-

By DEANNA SUMNER

Wednesday Kathy Van Meter

and Joyce Sumner went to Garden

City with a carload of clothes for

the Mexican-American Mission.

Friday afternoon Rex Cozad's

burial was at the Lyle Cemetery

and following was a gathering of

family and friends at the Commu-

Friday evening Toots Magers

and June Jolly went to Norcatur

Kathy Van Meter went to

Kearney on Friday for a visit to the

orthopedic doctor. She has a torn

rotary cuff and afterward her ap-

pointment she went to Gibbon,

Neb., and visited overnight at Steve and Julia Van Meters.

nity Building.

and played cards.

the Jennings Church.

attend church Sunday morning.

JENNINGS NEWS

About ag Brian Olson, K-State agronomist



two weeks after tasseling reduced yields by 57 percent compared to ment (160 vs 172). Yield where starting irrigation at tasseling (56

inches of the soil profile reached moisture depletion treatment (168 40 percent soil-moisture depletion resulted in yields similar to initiating irrigation at tasseling (135 vs 130), but this increased the num- Obviously, irrigation increases ber of irrigations through the corn yields, but if a limited water growing season, whereas waiting supply is a problem, scheduling until 60 percent soil-moisture irrigation at tasseling plus one, and depletion resulted in average two weeks after tasseling, would yields slightly lower than initiat- be essential for maximizing yield ing irrigation at tasseling (120 vs with the water available.

years of this study, with the treatments modified slightly, indicated the average yield from one irrigation at tasseling was 91 percent of the 40 percent soil-moisture and again one and two weeks afdepletion treatment (134 vs 146). The corn yield from irrigating one available at pollination and kernel week after tasseling was similar to the 40 percent soil-moisture time to avoid water stress in corn. depletion treatment (141 bushels per acre vs 146). Yield of the 60 University extension agronomist percent soil-moisture depletion for Decatur, Gove, Norton, treatment was 21 percent lower Sheridan, and Trego counties. E-However, there was a 32 percent than the 40 percent soil-moisture mail bolson@oznet.ksu.edu if you yield reduction when irrigation depletion treatment (116 vs 146).

erage corn yield for only one irri- specific crop production topic. ing at tasseling (89 bushels per gation at tasseling was 83 percent Formore information, contact the acre vs 130). Initiating irrigation of the soil-moisture depletion county extension office, 877-5755.

nance list included: landfill road

Frances Bader will be taking ap-

pointments to fill out income tax

forms. She will be at the Hoxie Li-

brary Wednesdays, 1-3 p.m.. and at

the Jennings Bank. For appointments call (785) 678-2659. She will

take apppointments for shut-ins.

Those winning card games at

Rhodes, Neoma Tacha, Vendla the Senior Center during the had a pacemaker implanted Tues-

Tacha, Rachel Carter and Kathy month of January were Alice day. He returned home on Thurs-

Nauer, A lesson was given by Mizer, Jan. 1; Vendla Tacha, Jan. 8; day and can go back to his teach-

Trenda Watts, Multi-County exten- Eleanor Morel, Jan. 22; and Louise ingjob Monday.

and cleaning of the curbs.

gan by the City Clerk. Mainte- Cressler, Jan.29.

repair, repainting the street signs from the Oberlin Hospital Friday.

weekend

depletion of the top 36 inches for three years and 65 percent depletion of the top 18 inches of the profile for eight years (142 bushels per acre vs 172).

The yield for corn where irrigation treatment was initiated at tasseling and one week later was 93 percent of the soil-moisture treatirrigation began at tasseling plus one week, and two weeks after tas-Irrigating when the upper 36 seling, was similar to the soilvs 172). The average yield for the no-irrigation treatment was 65.

So, what is the bottom line?

The time of peak water use for Information from the next three corn is that 14-day period from silking to shortly after the blister kernel stage, when average water use is about 0.30 inches per day. If water could be applied at tasseling ter tasseling, then water would be development, the most critical

Brian Olson is Kansas State have any questions or would like Over the next 11 years, the av- to see a newspaper article on a

Mildred Tacha returned home

She is feeling better. Her son John

of Lawrence visited her over the

Mary Smith and daughter Emily

Bolen, Sharon Springs, were last

weekend visitors of Rachel and Wil-

liam Carter and Naomi Carter. Mary

Allen Carter, Overland Park,

is a sister to Rachel and Naomi.



Sparky the dog appears unconcerned as his two feathered friends, geese Tommy, with his neck stretched upward, and Greta keep an eye on the yard of their owners Deb and Bryan Keiswetter. The three are often seen taking walks together and are unaware of their obvious differences. — Telegram photo by Carolyn Plotts

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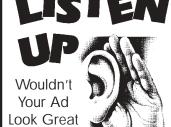
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- •'85 Hillsboro 8'x24' GN tandem PK Header Trailer, 6T capacity Meade Header Trailer

FERTILIZER EQUIPMENT: •2) 1000 gal nurse trailers 1000 gal nurse tank•Skiles 6000 gal tank-Ace Sprayer -500 gal nurse

GRAIN CART: •'98 Orthman 1096 **FARM EQUIPMENT:** •Sunflower 1440-35 Disc

 Sunflower 3060-42 Fallowking •3) JD 9400 Hoe Drills•JD 1750 MaxEmerge Conservation 8-

mower•3pt Bale Fork+3pt Cultivator Cultivator w/harrows•8' 3pt Box Scraper •JD Model 200 32' Bale Elevator•FK 5x5 Blade Plow Groundhog 14' Speedmover •Kan-Am 14' Blade•Maisam 2way TerracereBuffalo 8-row Stalk Chopper •Bessler 20' pull-type Subsoiler •Straw spreader for 9500 combine•Hyd drill fill auger •Grain spreader•2) 22' RO tarps•Drill fill auger•NEW planter

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