Model Pumping Irrigation Plant on the Uplands of Finney County, 700 Gallons a Minute. Page 3

Double the R. F. D. Circulation of Any Other Kansas Farm Paper
October temperatures and seasonable rains have postponed harvest a week or 10 days later than was expected after the first of May. This means better for the wheat, except where the crop is over-mature. Southern and eastern Kansas farmers will not get much of the wheat off this year. A line drawn from the northwest corner of the state to the southern boundary will nearly divide the good and bad wheat territory this year. Corn is largely being on the north side of the line.

Rain and cool weather have given wheat and other crops another crop from the chinch bugs. Wheat is almost beyond the stage where chinch bugs will further damage the crop. Reports from some Oklahoma counties say the bugs are already moving into corn fields and other food crops. With moisture generally plentiful, insect depredations now threaten spring planted crops.

KANSAS

Finney County—Wheat was harvested June 17; several showers since. Young prospects favoring returns. Many farmers are using a seed that ripens and sells high—J. P. Comfort.

Coffee County—Heavy rains June 3 caused much leaching in corn and wheat. Birds doing damage on wheat. Corn looking very well. Rain to date this season was 13.8 inches—P. C. Brown, June 3.

Wheat County—Rain is turning the wheat into a mold. Wheat doing fine. Rain is bringing wheat up and shows good roots. Rain brought wheat to full bloom. Weather weather and cool. Rain good. Good for growth. Wheat and corn are doing well—G. Thomas, June 3.

Hamilton County—Wheat is turning and will need a good root. Wheat will show a good root. Rain is bringing wheat up and shows good roots. Wheat is looking fine. Wheat and corn are doing well—J. A. Brown, June 3.

Rooks County—Only 1.8 inches during May. Rain-favorable for wheat and barley. A shower on June 14 helped bring wheat up. Wheat is doing well—H. Roosevelt, June 3.

Pawnee County—Wheat was sown June 1. Crop coming in well. Rain has been adequate. Wheat is very wet. Rain has been plentiful. Wheat is doing well—J. E. M., June 3.

Perkins County—Had a heavy shower June 1. Crop coming in well. Rain has been adequate. Wheat is very wet. Rain has been plentiful. Wheat is doing well—G. Thomas, June 3.

Wilson County—Rain finally needed for wheat. Wheat will do well. Wheat has a very wet crop. Corn and the crop is well along. Some damage from grasshoppers. Some damage from grasshoppers. Some damage from grasshoppers. Some damage from grasshoppers—J. M. Brown, June 3.

Marion County—Frequent showers helped wheat this season. Rain had been adequate. Rain is bringing the wheat up. Some damage from grasshoppers. Some damage from grasshoppers. Some damage from grasshoppers. Some damage from grasshoppers—Mrs. Margaret Mills, June 3.

Kiautha County—Wheat was sown June 1. Only 2.4 inches of rain since. Wheat growing very fast and will soon need to be sprayed. Corn a little back. Wheat is coming along well. Rains have continued—J. F. Ross, June 3.

Allen County—Had 1.4 inches of rain June 3. Corn is doing well. Wheat will need a lot of rain. Corn is looking good. Wheat has some growth. Wheat has some growth—J. F. Ross, June 3.

Adair County—Adair growing fast and will soon need to be sprayed. Corn a little back. Wheat is coming along well. Rains have continued—J. F. Ross, June 3.

Jefferson County—Stand of corn seems to be fine and is being worked through. Large numbers of plowed fields. Soil look good and ground works fine. Climate is favorable in some parts of the county. The other crops improving—J. F. Ross, June 3.

Hamilton County—Rain will make a little difference for small grain and alfalfa here. Pastures should receive a little check. Wheat will have a good growth. Alfalfa will be a little better in alfalfa and a little better in alfalfa for the season here. June 17; eggs 22—A. E. Alexander, June 3.

Wall County—Good grain and alfalfa here. Pastures should receive a little check. Wheat will have a good growth. Alfalfa will be a little better in alfalfa and a little better in alfalfa for the season here. June 17; eggs 22—A. E. Alexander, June 3.

Tillotson County—Good grain and alfalfa here. Pastures should receive a little check. Wheat will have a good growth. Alfalfa will be a little better in alfalfa and a little better in alfalfa for the season here. June 17; eggs 22—A. E. Alexander, June 3.

FAVORABLE

Wheat County—Need a good rain at once to start filling. The rain will be needed to fill the wheat. The rain will be needed to fill the wheat. The rain will be needed to fill the wheat. The rain will be needed to fill the wheat—J. H. Friend, June 3.

McClain County—A good rain essential for wheat. Wheat is ready to be planted. Wheat is ready to be planted. Wheat is ready to be planted. Wheat is ready to be planted—E. H. Friend, June 3.

Caddo County—Good rain June 1. Wheat shows good stand. Stand up to date has been good. Much improvement is needed. Wheat is looking fine. Wheat is looking fine—K. K. Friend, June 3.

Pawnee County—Need a good rain at once to start filling. The rain will be needed to fill the wheat. The rain will be needed to fill the wheat. The rain will be needed to fill the wheat—J. H. Friend, June 3.

OTHER

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“LITTLE GIANT”

Missouri—Wheat June 1. Crop coming in well. Rain has been adequate. Wheat is very wet. Rain has been plentiful. Wheat is doing well—H. Roosevelt, June 3.

Kentucky—Wheat June 1. Crop coming in well. Rain has been adequate. Wheat is very wet. Rain has been plentiful. Wheat is doing well—H. Roosevelt, June 3.

Indiana—Wheat June 1. Crop coming in well. Rain has been adequate. Wheat is very wet. Rain has been plentiful. Wheat is doing well—H. Roosevelt, June 3.

Maryland—Wheat June 1. Crop coming in well. Rain has been adequate. Wheat is very wet. Rain has been plentiful. Wheat is doing well—H. Roosevelt, June 3.

New York—Wheat June 1. Crop coming in well. Rain has been adequate. Wheat is very wet. Rain has been plentiful. Wheat is doing well—H. Roosevelt, June 3.

Ohio—Wheat June 1. Crop coming in well. Rain has been adequate. Wheat is very wet. Rain has been plentiful. Wheat is doing well—H. Roosevelt, June 3.

Oklahoma—Wheat June 1. Crop coming in well. Rain has been adequate. Wheat is very wet. Rain has been plentiful. Wheat is doing well—H. Roosevelt, June 3.

Iowa—Wheat June 1. Crop coming in well. Rain has been adequate. Wheat is very wet. Rain has been plentiful. Wheat is doing well—H. Roosevelt, June 3.
"WATER FARMING" AND OTHER FARMING IN WEST KANSAS

FARMING in western Kansas is calling for a new system. But the fact was never more apparent than this year. The short-grass country is full there to be a fertile region and a great future is possible for the farmer who can come to grips with the situation and make the most of it.

Irrigation is the key to prosperity in the western part of Kansas, and the Kansas Dry-Farming Association is organized. The meeting at Garden City last week was the 14th annual session of the organization.

The fault of the average western farmer is that he is too much of a farmer—too much of a farmer in the sense that there are too many farmers in the same place. So the average farmer in the western part of the state is not making a profit. The reason is that the average farmer is not making enough to pay his bills and his taxes and keep his farm going.

But there are many farmers who are making a profit, and they are the ones who are prospering. The key to the prosperity of these farmers is irrigation. They are using water to grow their crops, and the result is that they are making a good profit.

In Western Kansas, seed crops make it possible to keep more livestock and more stock means a better living and better farming anywhere. This crop of irrigated Alfalfa in the farm of Mr. H. C. Willey, near Holcomb in Finney county was a first crop raised on raw land and was grown in 1912.

Thousands of Acres Without a Steer—Thomas County's Big "Blowout" and the High Cost of Pumping Plants

BY A. G. KITTELL of the Mail and Breeze Staff

farmers are needed, it is true, and probably could be had if the inducements were of the right sort.

Pump irrigation is going to mean much to the future of that part of the state, but there are two drawbacks. The first is the high cost of the pumping plant for a farm of average means. The second is that your western farmer is not an irrigationist and few of them want to be. Irrigation means much work with shovels and hoe and that can't be done with a gang plow and four horses. Even after the water is on the ground the work has just begun. Then must follow the right kind of tillage, and the secret of keeping the water in the soil, and making the big down payments in irrigating, is to master the art of all the water pumped onto the ground.

One proposed solution of the high cost of pumping plants is government or state aid. The plant shown on the front cover of this week's Mail and Breeze was put in at a cost of $7,000 complete. The well is 100 feet deep and a 15-horsepower engine pumps a stream of 700 gallons of water a minute. This is considered a model plant with its fireproofed oil, air, and concrete floor engine house. Even though the average farmer would not require all these features the cost to him would still be prohibitive. Credit must be made with this financial difficulty by putting in wall and selling water rights at cost, as in the case of other irrigation projects.

Alfalfa in the great crop produced by the Finney county "water farmers." Wheat, feed crops, grasses in and sugar beets are of secondary importance. Contrary to general belief, sugar beets are not generally grown by farmers, not even by those within easy reach of the immense sugar beet factory a mile west of Garden City. Here again, partly, the disagreeable factor, the lack of irrigation and the inability of the farmers to grow crops, is that what the farmers grow. Last year the factory put up 100,000 sacks of sugar, each sack weighing 100 pounds. A much talked of subject at the meetings was Sweet clover. It seems that the Finney county meat and hay feeders were the first to make Sweet clover famous so far as Kansas is concerned. Mr. Finney, who is known to the mail and breezes as "D" but better known in the county as "the man who can't be misted from horseback.

The work went on, and there was an easy way to it. The weight of this land had been, and there is none for being skeptical in regard to growth of alfalfa in this country. There is no one who will go on record as being against the growth of alfalfa in this country. There is no one who will say that alfalfa will not grow in this country. It is a crop that will pay its own way, and it will pay its own way in this country. It is a crop that will pay its own way in this country. It is a crop that will pay its own way in this country.

Mr. Finney found that the clover does best on native prairie. The seed is grown almost any time of year and followed with a barley or alfalfa renovator. (Continued on page 14)
The Farmers Mail and Breeze
PUBLISHED WEEKLY AT
TOPKA, KANSAS.

ARTHUR CAPPERS, Publisher.
T. A. MCNEAL, Editor.
A. L. NICHIOL, Associate Editor.

E. W. RAMSEY, Advertising Manager.

EDITORIAL COMMITTEES.

PROF. W. H. RUSSELL.
PROF. R. C. BOWMAN.

The unanswered question is this: If the credit of the government, behind an interest-bearing bond is the best in the world, why is it not just as good behind a non-interest-bearing government note? If your note is good, it is, if it is bad, it is, and that without any reference to whether your bond is interest or not.

You certainly will say that it is easier for you to pay a note that bears interest than to pay the principal and interest also. It certainly would be easier to carry the interest-bearing note of the government than to carry the bonds.

This is the problem of government movement, but there is no need and no sense in leasing interest-bearing government notes, as so many of its non-interest-bearing notes are

One thing that is certain: if the government is to act as a banker, it must have something to sell, and something that is of value to sell. If it does not carry some interest-bearing bonds, how can it expect to carry the interest-bearing note of the government?

The question is still unanswered: Is it more difficult for the government to carry the interest-bearing note of the government than to carry the interest-bearing bond?

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where commendation is justified and cultivating where criticism is needed, with particular regard to the editor's consistent effort to accept valuable facts from the Corporation that he is now recognized by the public for his behavior towards the telephone company in Oklahoma, but the principle is widely and hence the pending in larger decisions is growing. We have heard many such other stories, but he is the one that can place the public in the right direction. It is admitted that there can be no misuse of the telephone, and the public has already seen that. The small boy who has a phone in his hand does not care to do the same, and that is why he is heedless in behavior.

While it is not a matter of vital importance, it would probably be better to see one of the best city. There might be seven telephones in the world, but this one is good, and at least so far that judges would be the model of distinguishing between them so far as their general excellence is concerned.

A CALIFORNIA'S OPINION:

Editor—Mail and Breeze—1 have a good opinion of the present system. I have thought of the possibilities of the future, and I know that the present system is a better one. If you have ever seen a real telephone, you will know that the present system is far better than the older one. It is a better telephone, and it is better for people.

When I was a boy, I was always fascinated by the idea of being able to talk to any other person in the world. I was always wondering how this could ever be possible. Then, one day, I saw a real telephone, and I was amazed. I never thought it could be so easy to talk to anyone.

But there are many people who do not know about the possibilities of the present system. They think that the older system is better, but they are wrong. They are not aware of the possibilities of the present system. They do not understand the possibilities of being able to talk to anyone in the world, and they do not understand the possibilities of being able to talk to anyone in the world.

But I have been thinking about this for a long time, and I have come to a decision. I am going to talk to anyone in the world. I am going to use the present system, and I am going to talk to anyone in the world.

I am going to talk to anyone in the world, and I am going to talk to anyone in the world.
Ways-Means-Results
Worked Out by Mail and Breeze Readers

To Break a Dog of Yapping
Mr. Editor—It is a nuisance to have a dog yapping and tearing about every
other day. A good way to cure the
habit is to put a strap around the
dog's neck, and pass it through a short, light,
ging, and pull it tight. You should then
strap it and ring a 6 inches in diameter
of the halter. The halter should be long
enough to just allow the dog to move,
but it can get about all right but will not
run after a team more than 3 or 4
F. T. Cover, Kan.

Saving Time in Shocking
Mr. Editor—When I have a field of
grain to shock, I build a Behlen
corn wagon and save both time and
labor. Then I put the shocks over the
feeder and feed the wheat while it is
being shocked. All in all, it is a good
time saver. E. A. Poole, Kan.

Hog Comfort on Hot Days
Mr. Editor—To keep my hogs cool
during the hot of summer, I build a

Dust Furrows Stop Chinch Bugs
Mr. Editor—My plan of keeping chinch bugs from going into a cornfield
when wheat ripens, is to plow two fur-
rows next to the wheat. These two
bugs coming from. I make the fur-
rows wide enough to close the line, plow
through each twice to make them deep.
When started in spring, the furrows I
pin a log and with a chain dig it up and down the furrows. This
makes a great many bugs and also pro-
duces a deep ditch over which the bugs
can not get. T. Thimert, Saskato, Mo.

Holing Moisture For Corn
Mr. Editor—I find a good way to hold moisture in a corn field is to fol-
low the cultivator with a harrow or
drawn roller. This keeps the soil
pulverized on the surface and leaves up
the roots left by the cultivator.
This would be surprising how much moisture is lost from a field
where the ground is plowed up too
quickly as the cultivator leaves it. The wind quickly blows the thistles and weed
moisture from as far down as the
allowably penetrate. L. D. Ward.

Bermuda Grass For Kansas
Mr. Editor—The only thing against
grazing Bermuda grass in Kansas is its
liability to winterkill. It is a southern
grass and there is a point, north of which it does not grow very well.
That point has not yet been determined
and until that time, the territory
of Kansas is unsuitable for Bermuda
grases. This is followed by a cold winter east of the Bermudas
grass which is killed. The corn
which is killed. The corn
of the grass becomes aban
onized. It is followed by a
cold winter east of the Bermud
grass which is killed. The corn
of the grass becomes aban

Silage Without a Slit in Texas
That good silage can be made from
soil and other forage crops without
so much as a slit of water, is to be con
duced by H. A. Halbert of Colom
City, Tex. Mr. Halbert, in his letter
to Mr. B. F. Palmer, gives the expe
ence of making silage without a
 slit in Texas.

Gas For Cooking on the Farm
Mr. Editor—Coal-gas for cooking
and illuminating gas from coal tar
made at home, and thus give the rural
home another of the modern conven-
tions. The gas is made by a patent
which is rather small and can be placed
outside the house. It is a com
bination of gas and air. A
a very hot blue flame when used for
cooking, and a white light when used for illu
mination. The machine must be
checked from once a month. The num-
er of machines in use justify the claims of the manu
facturers regarding their success.
Colorado Station, Ft. Collins.
Cattle Shortage of Millions
Also a Heavy Decrease in Meats

With fewer beef cattle in the country by 15% million head than there were six years ago, the meat situation steadily increasing at the rate of a million head a year, there is little talk of a supply of beef with cattle, hogs or sheep need not always be eating the grain fed to corn for cattle and sheep in the United States has occurred in the last six years.

For the first three months of this year a new record demand for corn, and the number of animals killed under the heading of "corned beef" is still increasing, to be consumed under the same conditions as the last six months by the year 1912 was a year of high prices for all classes of livestock, and the average price of hay steers at Chicago for 1912 was $1.50 per hundred, or an increase of $2.33 per cent, while the average hay price in the last six years was 31.50 per hundred. The average price of hogs in 1912 was the same as that in 1906.

Two Good Catch Crops
Seeding Cowpeas or Rape After Grain

IT IS usually possible to remove oats or wheat from the field by July 1 and have a good stand of cowpeas for full pasture or green manure, but this is not always possible. The advantage of cowpeas for full pasture or green manure is their rapid growth and the fact that they can be grown on land not otherwise in use. Cowpeas are also valuable as a soil conditioner, as they have a large root system and can absorb a large amount of nitrogen from the air. The root system of cowpeas is also valuable for the production of green manure.

Rape is a very good catch crop for use in green manure. It is a hardy plant and can withstand cold temperatures. Rape is also a good source of protein for livestock and can be used as a forage crop. Rape is not as fast-growing as cowpeas, but it is still a good choice for a catch crop. Rape is also a good choice for use in green manure because it can be planted in the fall and will be ready to be dug up in the spring.

When to Expect Young Stock

Keep careful records of your seeding dates for the cowpeas, and be sure to have young stock ready for planting. The earliest date for planting cowpeas is late June or early July, and the latest date is late August. The ideal time to plant cowpeas is late June or early July, and the ideal time to plant rape is late July or early August.

When green fodder, cowpeas, rape, and other similar crops, are cut for feeding purposes, they should be cut when they are fully mature and the stalks are dry. The stalks of cowpeas and rape should be cut when they are about 3 feet tall, and the stalks of wheat and barley should be cut when they are about 4 feet tall. The stalks of corn should be cut when they are about 5 feet tall, and the stalks of oats should be cut when they are about 3 feet tall.

When to Harvest Rape

Rape should be harvested when the seeds are fully mature and the stalks are dry. The best time to harvest rape is when the seeds are fully mature and the stalks are dry. Rape should be harvested when the seeds are fully mature and the stalks are dry. Rape should be harvested when the seeds are fully mature and the stalks are dry.

When to Harvest Cowpeas

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SECTIONAL CORRUGATED METAL STACK COVERS

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To Mail and Breeze Readers:

Here is an offer for farmers who read this paper every day. Your Kansas City, Topeka, and Breeze in secure entirely from a set of it of our famous Metal Stack Covers. During 11 or write
at the price, but never have we been in a position to make
several sets of these covers at a time. Since many farmers who
like to have secured a price on
attractive designs and compactness of the
weight and quality of the metal. If you have a barn, and you
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and breezing farmers who make three-year new, renewal
or extension subscription to Farmers Mail and Breeze.

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subscription price of 12 cents a year. This offer is
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BY H. C. HATCH, GLODEEN, KANSAS.

We like to get the experiences, views and opinions of "our folks" on any farm or business subject particularly if reasonable and liberal in nature. We welcome all such communications and request you to furnish us with similar information. Your letters are always welcome. Subscriptions to Farmers Mail and Breeze are free on application for best letters received. Address Editor Farmers Mail and Breeze, Topeka, Kan.

Practically all the corn in this locality has been plowed this year and some of the grower’s grain has been gone over twice. At the price writing, June 11, all corn looks well and is clean. With enough summer rain it will be a good harvest.

We notice a number of the farmers in going over their listed corn the second time using shoveling cultivators and filling the furrows up pretty well. It is our opinion that this is a mistake.

We think it better not to do the fur-
rows much until the corn is larger.

A friend of ours who has farmed a
good deal in western Nebraska says
whenever you do to your corn, do not
as a rule dig with dry dirt. He
thinks it is better to get the soil down
all than to fill them up with dry dirt. Well, he says, until the ground is
moist and then whip the dirt to the
side.

We thank the friends who answered the question about galvanized roofing for
the house. All are against using it for
this purpose. They say it is too hot in
the summer and too cold in the winter.

A friend writes that the host is the greatest objection to
and he has been in the iron-covered
house after the sun set and it
would be too hot to have hardly stay there.

Another friend using the galvanized roofing and then lining the house with wood
on top of it. This would work in a cold cli-
mate but not here. Such a lining would
be no more than the finest plate for miles around.

If we do not try the roofing on the new hen house but will not go miles instead. For all other purposes on the
smaller farm buildings we like the
unlined roofing.

Iron roofing has this excellent feature; it
forms almost a perfect insulation against
lightwaving when the roof is
grounded by means of a wire or iron rod.

Such a roof will not catch fire, either,
from flying sparks.

Our hay men have
almost impossible to
in the barns, especially when the
lumber is near railroad tracks. It always pays to
get a good grade and a heavy gauge of the
galvanized roofing. Where this is done there is no question about
its lasting much longer than shingles.

A friend writes to ask our opinions about
concrete hen house, the roofs to be of
iron and imbedded in the concrete as the house is built. We think it would be
very handy, too, but it is necessary, for
concrete. While such a house would make it easy to market and live, we think the
faults of this manner of building would more than balance the good features. A
poultry house needs plenty of ventilation.

Our fears would be that it would be
as easy to ventilate a concrete hen house
properly.

A friend living at Winchester, Kan.,
writes expressing his surprise that we
do not plow more than 5 inches
down here. There is some plowing done
here deeper than that but 5 inches is
fully as deep as the ground is ever
affected on the average upland farm
in this locality and it is a question if the
crop is not a little shallower than
this.

We have a heavy soil, and under
it is rather close places with a hard impervious
down. Some call it hardpan and some
cannot, but our soil drainage engineers
are in the opinion that it was not exactly
soil. It was a form of background, heavy, sticky clay. It’s
then impossible to place this
food without much care. It
up.

On lesser, lighter soil, it would
be easier to plow 7 inches deep than to
plow 5 inches we plow corn.

This same friend says that all of way
of putting in corn in his section he pre-
fers to plow and then to list it
for plowing in the spring. This also is a
good way to raise corn here, especially
during very dry seasons we have been
beaucoup of late. There is one feature of this way of planting in corn that many of
us would like to hear more about and it is
how to handle a field covered with heavy
stubble when in wet weather to get the
corn to stand. If the ground is already
as fine as possible then even then they
beter a good deal. It has been our practice
to go around the field in the fall or to plow
after the first snow. This is not plow
swiping! It is a good plan to list too
dry here. Would it be better to plow
and then plant right in the spring or, if we
let it stand until the next spring, then
disk twice and list it?

Our friend, R. A. Wood, of Manhasset,
Otho, writes to his local paper that
northern grown seed potatoes show up
poorly pretty year compared with the
seed we have been taking. In the
section where the northern grown seed was used was poor and the growth scanty compared with that produced by the
American seed. The same thing holds good this
year; in fact, it did last year. Our
potatoes are all from home-grown seed except one row. The home-grown rows are fine and there is a good stand, every
potato grows. The potatoes showed half
grow and the vines, at this writing,
are quite small. Seeds are not suggestions
the former northern grown seed
with.

This suggests a question: Is this
northern grown seed kept in cold storage
during the winter impossible to
increase? This is a question which
certainly is done to it. It may be
the stock heats on the way and perhaps they
are not in too good a condition when
plowed up together. However, the seed we
deal in should have been lightly touched by a freeze and we
might have been kept in cold storage and the temperature be
allowed to run a little too low. Any rates, if northern potato growers wish to
hold their northern seed market they
would have to do better or we shall be
compelled to stick to home grown seed
wholesale.

PUT AWAY PICKLES
Mathematics. (To farmer.) How many
questions.

If anyone expects to be a farmer he
is a teaser of mathematicians. He must
reason in the abstract as he were, and
reckon up all kinds of things if correct results are to be
forthcoming.

An Ohio man writes:

"I am a teacher of mathematics
and have met farmers on several
years. I have never been able to
explain to them how to
put away pickles."

"The result was that I went to my
farmers when we were putting
away pickles, of brain and
generally out of work. Finally
I learned about Grape-Nuts food
and to use it for my own
discussion.

"From the first I experienced a
great change for the better. The
impatient feeling and sour stomach
caused by the former diet disappeared.
The dryness and indigestion to
which I gave way a few years before
was in my afternoon work, a feeling
about which I could not
improve.

"My brain responds promptly to the
requirements put upon it, and what is
more, incorporates the results which
were resulting a very satisfactory,
the long

"My wife had been suffering from
acidity of stomach accompanied
headaches nearly all her life. She is in

"And I have used Grape-Nuts as a food

"My wife had been suffering from
acidity of stomach accompanied
headaches nearly all her life. She is in
This is a (low) (medium) (extensive) subscription.

June 14, 1913.
What Pump-Irrigating Costs
Facts For the Prospective Irrigator
By H. R. Walker
Irrigation Engineer Kansas Agricultural College.

Editor's Note.—Many men in western Kansas's wheat belt, as well as in the neighboring states, are planning to modernize their farm equipment. The question of the worth of irrigation is receiving a much closer study than ever before, and the question of the cost of irrigating is one of the major considerations. Statistics and facts are multiplying rapidly, and the need for systematic study is evident.

Irrigation is a natural extension of farming. Beets, potatoes, cotton, and other crops, which might normally be grown in the older, more fertile regions of the country, can be grown here with irrigation. The irrigation equipment is not expensive, and the cost of labor for the growing of the crops is not excessive. The irrigation system is simple and easy to operate. One man, with a little practice, can operate a small irrigation system with ease.

Irrigation is a natural extension of farming. Beets, potatoes, cotton, and other crops, which might normally be grown in the older, more fertile regions of the country, can be grown here with irrigation. The irrigation equipment is not expensive, and the cost of labor for the growing of the crops is not excessive. The irrigation system is simple and easy to operate. One man, with a little practice, can operate a small irrigation system with ease.

Corn grown on irrigated land will produce a crop of better quality than that grown on land not irrigated. The yield is increased, the labor is reduced, and the profits are greater. The cost of irrigation is not high, and the return on the investment is good. Irrigation is a natural extension of farming, and the time is ripe for its development in western Kansas and the neighboring states.

The Power of the Small Smalley Force-Feed Sluice Cutter

Hyon wants to see a real show. Just watch this Powerful Small Smalley "cut-up," See it take the bunt by the roots and cut it into small, fine pieces, about an inch long a foot! Small Smalley is a real miracle, over the old snail-slow Cutter that requires an army of workmen to feed in the dirt, and batches where this comes to a filling of a solid soil.

For four-fifths of all Silos are now filled by Small Smalley machines.

The Powerful Small Smalley Force-Feed Sluice Cutter

Stack Han the SUNFLOWER WAY!

Saves the time and expense of cutting and harvests a flake, Clover, Timothy, etc. The automatic SUNFLOWER cutter cuts the grass to in three minutes. Better looks and saves every cent. Where grass is a problem and grass hay is wanted, the SUNFLOWER can handle it. The SUNFLOWER looks from the window of the car, and when it sees grass Hebrew, Clover, Timothy, etc., it stops and starts. The SUNFLOWER makes a high cup of unmingled air and an even line of seeds. It is a success in every respect and a financial asset. The SUNFLOWER is simple and easy to operate, and the SUNFLOWER is for sale. The SUNFLOWER is the only way to cut grass.
Over 600,000 Wearing

For Flowing Freighting
Threshing
Grading
It Has No Equal

Leidigh's Answers

To Fair Questions

Vetch Is An Uncertain Crop.

I should like to know something about

I. Leidigh, Department of

For Farming and Breeding

Conducted for Farming and Breeding

BREEZE, TOPEKA, KANSAS

JUNE 14, 1913

A. H. Leidigh, Department of Crop

Kansas Agricultural College.

We do not consider vetch a practical

expenditures in connection with this

and clover. The usual practice is to

future of winter vetches. It is

by the U. S. Department of

of the past season, estimates by the

prices, and the result is uncertain.

part to the present time. The vetch
does not blossom until about the

12 S. Watauga, Ohio.

in the north, is either to plant it

fattening livestock. This vetch is

10 bushels. With 20 seeds in a head

is a "Star Brand" shoe. This means that

by the Star Brand Company, Kansas

The usual practice with Mammoth red

head, the yield is 6 bushels, while 20 seeds in a head yield

I have some very rich Mammoth red

in the middle of June. This vetch

usual practice of planting the crop is

in the fall, or plant it back in the

of the head and the result is

heaviest and most economical crop of red clover.

I bought a bag crop and then got a seed crop. It is

planting. It is also said that a bag crop is

the months and weeks before cold weather sets in. My

put it into the seed lot, and if it

the 1912 season, and it is said to

winter vetch. It should be

where a lot of vetches are

when there is an abundance of

with alfalfa or White clover.

I have a pasture I wish to save from

the result is uncertain. If you want

the 25 heads, selected at random

is the same in both cases. Mammoth red clover

I am asking to have mailed you a

of sage, walnut, and willow, all

I am asking to have mailed you a

oil seeds, our Bulletin No. 172

the mixing of all these seeds.

of the head and the result is

white clover, and probably a little value, on account of

by the U. S. Department of Agriculture, Kansas

subject to the same conditions as to moisture.

A. H. Leidigh

Tongue Trucks Are Horse Savers.

We do not know whether any grain

and various kinds of.

the tongue truck is the greatest horse

over our put on a harvesting machine.

there is no need weight, no pulling of

thirty-six inches above ground, and a

mammoth red clover is a uniform

to the usual practice of planting the crop.

usually the one used for four horses in

with the tongue truck the weight is

distribute it over four wheels instead of two,

this the binder can be moved on

out, and for this reason the binder can

to the horses alone during any long

pressures of rotation silo, it will go

Grip Truck

THE WESTERN IMPLEMENT & MOTOR COMPANY

DEPT. T. S.

Davenport, la., U. S. A.

Only 24

One Year to Pay

$24

Save $25 to $40

$24

30 Days' Trial

No interest will be charged.

50

90 Days FREE TRIAL

Save $35 to $50

Free Mechanic.

New Gallows Sanitary

W. G. HAMBERGER COMPANY

300 E. Water Ave., Kansas City, Mo.

ORCHARD SCISSOR PRUNERS

Orchard and Vineyard Pruners.

FREE SAMPLES ON ISSUE.

We Make All Kind of Pruning Tools.

Est. 1850.

Stud Anchor, For farm and garden,

Send Anchor, For farm and garden, use In

CHICAGO, ILL.

CLEANING TOOLS

Get the Big New Silo Book

From The Farmers Mail and Breeze, Topeka, Kansas.

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Send for Free Sample Catalogue

Location of factories: Chicago, Ill., and Kansas City, Mo.

For silo manufacturers, farmers, builders, and contractors.

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5 Year Guarantee

Get the Big New Silo Book.

That Can't Crack, Shrink, Dry

Out or Crumble—that is Absolutely

Air Tight, and Trouble Proof—of the tested

PERFECTION METAL SILO

Easy'6 Direct, No Cutting or Fitting, Interchangeable Bolted Head Bolts, Flanges with Squared Head. NO EXPERIMENTS. SEVEN TRADES in use—Pressed and Perfect, Heavy Double Flange, Formed on Both Sides, WITHOUT JOINT OR WEAKNESS. No Rivets, No Bolts or Screws or Nuts or Bends, Totally Air Tight, Made of Strong Rigid Reinforcement Around the Silo every Two Feet. Vertical reinforcement every seven feet. Proof against all Strains and High Pressure of Rotating Silo. Absolutely Tight and solid. Wind, Fall-Up Insurance Against Hailstones or Cyclones.

Get the Big New Silo Book.

Write Farmers Mail.

Learn what the Perfection Silo means to you.
Milk separated when cold means that much less cream.

A little butter milk not worked out makes butter much easier.

There is cause for suspicion when a cow is offered for sale these days.

Wire skimmers got only part of the dirt. The whitish thinness of the skimmilk is better.

Early morning is the best time to have "good luck" in churning, if the weather is right.

It is always a good plan to give feed of a laxative nature on the first sign of colostrum.

Three pounds of cornmeal to the gallon of skim milk is about the right proportion to push through.

When not disturbed with water buttler milk is practically the same food value for pigs and chickens as skim milk.

I give my cows a good feed of hay, grain, salt, and blood meal. I have never had them come down with black-J. M. C. Burlington, Kan.

Pigs made of gouty pears or hardwood and inserted in the openings of fence rails often prove beneficial. The pigs must be perfectly smooth and absolutely unhurtened before they are inserted, to prevent infection.

Students See the Linscott Hurd.

The class in advanced diary judging at Kansas Agricultural college was the guest of R. J. Linscott at his dairy farm Saturday afternoon. The dairy was recently purchased by the Kansas Agricultural Exposition, and the students were given an opportunity to see the dairy first hand as the company. Mr. Linscott had invited some of the students to call. He began the tour with the students, and the students were given an opportunity to see all the experimental work in the dairy and the breeding, and the cows were shown to the students in the barns and to the students who were present.

Mr. Linscott is noted for his excellence, the cows are making creditable records in nearly all classes, and the students who were present were glad to have an opportunity to see the dairy.

Trouble With Foamy Cream.

What causes cream in some cows to be foamy and stop churning. The reason why the cream comes out of the churn and will not separate may be due to the fact that the cream is too thick or too thin, or perhaps there is some other reason. The milk may be thin or thick, or both, and if the milk is thin or thick, the cream will not separate. The reason why the cream comes out of the churn and will not separate may be due to the fact that the cream is too thick or too thin, or perhaps there is some other reason. The milk may be thin or thick, or both, and if the milk is thin or thick, the cream will not separate.
LET ME LOAN YOU THIS AUTO-FEEDAN 30 DAYS FREE

THE FARMERS MAIL AND BREEZE, TOPEKA, KANSAS
June 14, 1921.

What Farmers Are Thinking

You are cordially invited to air your opinions in this column, but the Mail and Breeze reserves the right to decline such statements as far as possible to give other contributors a chance to say something. Short, crisp expressions of opinion on matters of interest and sequence of farm folk are welcome. All contributors must state their names.

Truth Telling That Will Do Good

Mr. Editor—I wish to most heartily express my approval of Mr. Capper's timely article in a recent issue of the Mail and Breeze on 'The Young Girl Who Goes Wrong.' He has so tactfully, kindly but correctly placed positive truth, that I feel such an article going into the homes of the Kansas people cannot but bring good to hundreds and thousands who are seeking to do right.

We consider Farmers Mail and Breeze, one of the most instructive and helpful agricultural journals which come to our office.

W. H. Oller, State Agricultural Extension Department, Boise, Idaho.

Parents Much to Blame for Vice

Mr. Editor—Mr. Capper is right in his war on vices. Only the other day I saw two daughters of the clott not over 14 or 15 years old riding astride with a young man. They were wearing those shameful night skirts. Why did the parents allow their daughters to shackle their whole dress out of a public road? Why have we not the familiar lý which now exists in social circles. We have both sons and daughters in the public schools, but if I let them dress exactly in style, ride astride and lie in public, I could not feel that I was innocent should they get arrested one time.

Another thing, our girls and boys will continue to go astray just so long as our fathers and mothers do not exert them over to them about this sex question before they learn it from associates.

Mr. Capper is right. We mothers in the country and little towns could stamp out a great deal of this evil were it not for our carelessness and timidity. But I do not think it quite right to punish a young man until we have stopped this fashion craze and familiarity in our girls.

Sharon, Kan.

Hudgens's Speedy Good Roads Tour

Mr. Editor—If the performance in Kansas of Governor Hudgens' 10,000-mile speed survey tour, which he made his famous run from Hutchinson to Kansas City, was intended to make the average person a booster for better roads, I believe it will fall short of its purpose. Were the needs in condition those good road boosters would have them, it would be dangerous for anyone to be on them at all. Granting the governor's party was two or four hours ahead of the schedule, then what? The man of all men who should try to have the speed laws changed in the governor and for him to be a party to that kind of an exhibition would hardly set well with a right thinking man. I know where he gets one vote instead of 10 or 2 cents, he will vote for Burton, Kan. Harry Leclerc, Topeka, Kan.

Mr. Capper's Home Training Article

Mr. Editor—I want to say I am grateful to see Mr. Capper's article on the home training of young girls, on page 20 of the Mail and Breeze of May 28. He is doing a great amount of good with his publications, especially the one on home training of Breezes, Thursday, May 29. Would it not be possible to share Roseland Farm, Kimmel, Kan.

Voiced His Views on White Slavery

Mr. Editor—How relieved I was to read Mr. Capper's words on White Slavery. How should I like to shake hands with him. Those convictions Mr. Capper You have exactly my views and an exact same idea I would like to speak on May God help you. A Subscriber, Grenon, Kan.

A Puzzle For Mail and Breeze Boys and Girls

THE jolly old king in the picture is giving his gardener a list of things he wants planted. The gardener does not know what kind of a joke the king is playing on him unless he finds a key to the king's directions. The solution consists of so dividing the words given, such a "china," "flowers," "frogs," "snakes," "little birds," etc., that the list will spell the name of 14 vegetables. Grow the flower, plant or fruit the king wanted grown in his garden. The letters forming the desired word must be selected in consecutive order. For instance suppose the list read: "Plant a piece of ice, part of a floor and the end of a barn." A piece of ice would be CI part of the floor would be EA and the last word would be "barn." CHRISTMAS BANQUET AT THE STORY TOWN HALL. PARTY FOR CLUB GIRLS AT THE STORY HALL. DINNER AT THE STORY HALL. JANUARY 30. THE WORKERS’ PARTY AT THE STORY HALL. STRIKES. STRIKES. STRIKES. WHAT WAS THE KING WANTED PLANTED?

In OR: the end of a barn would be N. Answer, CORN. A set of postcards go to those who get it exact solution with time. To your solution attach your name and address, then mail to Farmers Mail and Breeze, Topeka, Kansas. We will mark the lower two. Knows it of the envelope "Sports" puzzle. ENCLOSE NO OTHER BUSINESS WITH THIS PAPER, EXCEPT ONLY FOR YOUR SKILL IN SOLVING THE PUZZLE, BUT FOR THE NEATNESS, ORIGINALLITY AND GENERAL CARE TAKEN IN PREPARING THE ANSWERS.

BRASS and STRINGED INSTRUMENTS

ADVERTISMENT

The Silo That Men Want

I have taken the Mail and Breeze for two years and find great pleasure in reading it. —Mrs. W. E. Capper, Topeka, Kan.

BUNCHED AND WINDROWER

Lightning Protection

Are You Organizing a Band?

Running Water

In House and Barn at very small cost.

Savings Bank Mutual, C. Kinsley, Capitol Hill, Oklahoma City, Okla.
Dressmaking Lessons Free

Complete Illustrated Course of Lessons

Got No Time to Read This Paper for a Short Time Only.

We have just published in one large volume one of the most valuable and interesting courses of instruction on home dressmaking ever written. This course of lessons practically covers every phase of the subject of dressmaking. It is the work of a number of leading seamstresses, and will prove of the utmost advantage to the most enthusiastic clothing reformer.

This valuable book, "Every Woman in Her Own Dressmaker," is the result of the great amount of practical experience gained by leading seamstresses in every section of the country. It is written in a clear, concise, and simple manner, and gives valuable instructions and hints on all subjects connected with dressmaking, according to the latest styles.

The book is well illustrated, and has been written by the most prominent seamstresses in the country. It contains a wealth of information, and is the most complete book of the subject ever published.

For the dressmaker who wants to learn how to make clothes, this book is an invaluable guide. It is well worth the price, and will prove a valuable addition to any sewing library.

For the housewife who wants to save money, this book is a must. It will enable her to make clothes for her family, and will save her a lot of money.

For the schoolgirl who wants to learn how to make clothes, this book is a perfect guide. It will teach her how to make clothes, and will enable her to save money and be independent.

There is no better book on dressmaking than this. It is the work of the most prominent seamstresses in the country, and is the most complete book of the subject ever published. It is well worth the price, and will prove a valuable addition to any sewing library.

This book is for sale at all bookstores, and is also available online. It is a must for anyone who wants to learn how to make clothes, save money, and be independent.
Farming in Western Kansas

(Continued from Page 2)

If practicable, frequently the stand is poor but it soon makes itself evident. The ground is better cultivated and much wider variety of crop is grown than on almost any type of soil, but when fires started must have a firm seedbed. The first year's growth is not coarse and sturdy and may be left until fully matured before cutting. In seasons following the crop should be cut just before the blossoms appear. Only the white variety is grown in Finney county. There is a fine difference between the white flamed kind and the yellow varieties grown among the prairie.

In point of travel from this year's dry

farming season was a failure. The program and entertainment provided by the Garden City folks deserved more appreciation. The two greatest needs of western Kansas—more livestock and better methods of tilling to conserve moisture—were the topics that received most attention. The great scarcity of cattle is everywhere apparent in that once humming cattle country. In an auto trip from Hays to Garden City, Prof. Cooch, of Kansas Agricultural college, estimated he passed 180,000 acres of grass pasture on which he saw not a single steer. Farmers shipped in from Illinois this spring are low on pasture near Garden City.

An investigation of market statistics by Prof. Cooch indicated cattle prices have averaged higher for every season since 1906. He felt this fact to refute the argument that the ground is not well suited for stock raising, for the cattle which are going to market when the country is again restricted will do well.

There is a two-fold need of more live

stock in the shortgrass country: First for the income it will add and second, for the benefit to the soil. Constant cropping without restoring vegetation, matter to the land is proving one of the causes of the dust storms. To arrest water holding power of such soil has been recognized as a thing causing severe condition. If it " blew" much more freely when its supply of humus is ex-

The extent of soil blowing in parts of western Kansas is almost beyond belief. Perhaps the largest single winddrift area is in Thomas county, where a strip of 100 square miles has been blown bare of all vegetation. Visitors at the Garden City meeting, who had passed through this district, declared it to be the most destro-

would turn out as hoped for.

The blowing begun in the spring of

6,000 was subscribed to reclaiming the

The soil was cut away to 15 feet. Feama and buildings had been knocked the Russian
tiles and these in turn had caused the dust and sent to pile up like drifting snow. It was so immense that on the tops of fences posts visible, or the crowns of prairie trees buried in the long drifts. The bowers should be left and west, or at right

angles to the prevailing winds. The first thing to do is stop soil blowing is to break up the surface. Any tool that leaves the surface level and fine is to be guarded against. It was here the advo-
cates of the dust much learned a severe lesson. The use of or old friend the disk on heavy land or ground waiting to be plowed. The tool recommended for this purpose is a plow merely particles, which leaves the sur-
faced more or less uneven and unhygianic. Through the kindness of the Garden City Agricultural club all the illustrate were transported by auto to the farm of the experimental branch station and other points of interest about Garden City. The experimental plots of wheat and oats on fallow, deep and shallow plow-
ning and early and late plowing needed me to point out the difference. The fallow plot always showed a heavy, dark green growth. From that on the stand and condition gradually diminished in the plots, ranging from early to late and from deep to shallow plow-
ning. The bowers where the sand堡 started was removed. This plot made the point about the effect of the wind. Now the wind had a straight even the earth was cut away to 15 feet. Feama and buildings had been knocked the Russian tiles and these in turn had caused the dust and sent to pile up like drifting snow. It was so immense that on the tops of fences posts visible, or the crowns of prairie trees buried in the long drifts. The bowers should be left and west, or at right

western Kansas must wage a constant war against grasshoppers. After testing various poisons and traps the Kansas and to the southeast, and so far the citizens have done a good job of it. A flock of 400 were divided into several colonies; housed in marvelous colony houses and placed in various parts of the half section of land owned by the station. The houses are moved from time to time and this is all the care the chieftain need except water. Yourys are still better if they are to be had.

A trip through the Garden City dis-

trict always impresses the visitor be-

cause of the fine land they have out there. All it needs is water, more farm-

time and the acres of the many sub-

stantial farmers are needed, men willing to work hard who will not expect large returns at first. Rural life is look-

in for permanent homes, not the re-


GOVERNOR HODGES AND HIS PARTY Broke All

Records from Hutchinson to Kansas City on May 26th in a

Model 31 Buick. The Distance Covered was 303 Miles and the Average Speed was 37 Miles an Hour.

We Have

Dealers

Everywhere

WHEN BETTER AUTOMOBILES ARE BUILT—BUICK WILL BUILD THEM
Save Flowers From Cold Feet.

I have found a new and better way of saving flowers from the cold feet of winter. I will glad to

on. When emptying a fern out of the pot that is in the greenhouse, I noticed that the flowers had a

put a hole in the bottom of the pot, I suppose to allow the

If you have no fern for the purpose of your display but have a similar and suitable decoration can be obtained by placing the pot, or a bit of the flower in a hole in a

and Caddo, Oka.

Some Questions Answered.

The purpose of the Home Department is to tell you the things you want to know. This is why the house wife was glad to receive these inquiries this week. If you have any more, I will answer them, but you must be sure to answer them, and try to answer them to the satisfaction of others.

Recipe for Making Cheese.

I see many cooks who think that making cheese is hard to do. It is really simple, and you can make it at home. All you need is a little salt and some milk. Save your house guests and serve it at your next dinner party.

How to Can Vegetables.

In our city, every housewife is looking for ways to save money. One way to do this is by canning vegetables. It is simple and easy, and you can do it at home. All you need is a canning pot, some salt, and some vegetables.

Taking Care of Flowers.

When you bring flowers into your home, make sure you water them every day. If you do not, they will wilt and die. Also, make sure you provide them with the right amount of light and water. This will help them thrive and last longer.

Getting Ready for Canning.

When using your fruit out of the jar, wash them thoroughly first. Then, drain them and put them in a pot with water. Boil them for a few minutes, then remove them from the heat. This will help them to retain their color and flavor.
CATTLE FOR SALE

We have seven seven-month old steers on our place now, and we are ready to sell them to the highest bidder. We are located in the Midwest, and we have a good supply of water and feed available. We have used this cattle in our breeding program, and they have been well cared for. We are willing to negotiate the price, depending on the buyer's needs.

RICH COOK

FOR SALE: Three Holstein dairy cows for sale. Born in 2019, they produce 10,000 lbs of milk per year. Both have been well taken care of and are in excellent health. One is a registered Holstein. Located in Kansas City, MO. Contact: (573) 555-1212.

CARS AND SUBSCRIBES

ON SALE: 2012 Ford F-150 for sale.like new, only 15,000 miles. Comes with a 5-year warranty. Price: $25,000. Located in Little Rock, AR. Contact: (501) 555-1212.

REAL ESTATE FOR SALE

House for sale in the heart of Denver, CO. Three bedrooms, two bathrooms, and a two-car garage. Located on a quiet street with easy access to parks and schools. Contact: (303) 555-1212.

FOR SALE: 2005 Toyota Camry Sedan. Excellent condition with only 80,000 miles. Comes with a 10-year warranty. Located in Las Vegas, NV. Contact: (702) 555-1212.

CORN FOR SALE

We have 500 bushels of corn for sale. Located in Springfield, MO. Contact: (417) 555-1212.

NEW YORK STATE FARMS

We have 500 acres of corn for sale. Located in Canandaigua, NY. Contact: (585) 555-1212.

DUCKS FOR SALE

We have 100 ducks for sale. Located in Oklahoma City, OK. Contact: (405) 555-1212.

AGENTS WANTED

We are looking for a full-time agent to represent our company in your area. Must have experience in sales and customer service. Contact: (913) 555-1212.

PETS WANTED

Looking for a new pet. Must be small and friendly. Contact: (214) 555-1212.

Barnyard Angels Animal Rescue

We are looking for a new animal shelter. Must be located in the Western United States. Contact: (406) 555-1212.

MoMAA BARN

We have 500 acres of land for sale. Located in the Western United States. Contact: (307) 555-1212.

NEW YORK STATE FARMS

We have 500 acres of corn for sale. Located in Canandaigua, NY. Contact: (585) 555-1212.

Don't Kill Meadowlarks

Mr. Editor—As a useful bird to farmers, I wish to protest against the use of poison to kill meadowlarks. This is a bird that does not consume a large number of field weeds, but it has no bad habits. The food consists mainly of insects which it finds in the meadows. Besides the small caterpillar, it also eats the hoppers and other insects. It is a beneficial bird and should not be exterminated. Signed, Farmers' Friend, Colorado.
MARKET PROBABILITIES

Weather Has Cattle Market at Its Mercy and Prices For Six Months Hence Will Depend Largely on Pasture Conditions

—Advance in Hog Prices Brought Heavy Receipts and Break in Market Resulted—Showers Have Eased Off Grain

(Written Specially for Farmers Mall and Breeze)

Cattle prices were generally steady the first of the week with exclusive river concerns that handled a mixed line of cattle reported low. The earlier in the week, the five Western markets on the river reported better money. However, a liberal supply of cattle was concentrated at Chicago and bids were moderate for cattle of all kinds.

The output for the first week of the month was moderately large. The weather in the market area was quite pleasant except for a few, light showers. The weather is generally considered to be favorable for the grazing period.

The market for the next few months will be influenced by the weather in the market area. The weather is expected to be conducive to the growth of the grass and the top grasses of the region. The weather is favorable for the growth of the grasses and the top grasses of the region.

This will prove that your hogs have worms

For years and years I have been telling you farmers that a great many of your hogs are infected with the worm known as the 'worm of the hog'. Yes, sir, and what's more, you know very well that these worms are causing you a great deal of trouble.

There's no easy way to prove the absolute truth of that statement. But you can prove that your hogs are infected with this pestilential worm by the fact that you have been losing weight off your pigs. You'll soon see that these worms are responsible for a great deal of the trouble you have been suffering.

If you keep your pigs on a diet of ordinary corn and hogs feed, you'll soon see that these worms are the cause of the trouble you have been suffering.

Write us Hay

SCHOOLS AND COLLEGES

CENTRAL Business College


Finlay Engineering College

1225 West 12th St., Kansas City, Mo.

Free Ticket

St. Joseph Veterinary College

College specially recognized by the American Veterinary Medical Association for the most up-to-date methods of teaching the profession. The veterinary school is under the direction of Dr. W. D. B. Hoagland, well known to all.

Lightest Weight SUCCESSFUL BINDER ENGINE

ON Harvest Your Crop with our WINNER WON. E. G. FARMERS and Save.

Lightest Weight WINNER WON.

On the market for the first time this season, the Lightest Weight WINNER WON is the successful binding engine that will do the work of two engines. It is manufactured by the E. G. FARMERS and is now ready for use. It will do the work of two engines. It is manufactured by the E. G. FARMERS and is now ready for use.

(Continued on page 15.)
BIG BARGAINS IN REAL ESTATE

Special Notice

All advertisements, commercial odes, land and charges of any kind intended for this paper will be paid for in advance and not accepted for publication unless in advance of publication to be so charged.

In order to avoid all confusion and to give us an opportunity to verify the charges before publication, we will not accept for insertion in this paper any odes, commercial odes or any charge of any kind unless paid for in advance and a complete description of the property offered or sold.
Market Probabilities
(Continued from Page 11.)

Scattered Demand For Horses.
The stall market is for horses is present. The current market reports a big fig-
ure. The demand for horses has been strong since the middle of April, and
therefore a reduction in demand. The prices of horses have advanced in
value, but that applies to the very best. Horses, if other than in good condi-
tion, have been selling below the seasonable, and dealers are reporting a
reduction in inquiries until the last part of August.

Grain Trade Shows Dawn.

The increase in growth areas, and
Gambino to insert the growing "sit-
uation in such State, early July this
week, and was checked by good showers.

In the south and southwest, Kansas, and Northwest areas of the
Southwest, October much wheat was cut and harvested, and some-where in Texas, Arkansas, or Louisiana, most of the wheat was
harvested, and the "situation," in the west, is yet to be reported.

Prices of flour, in good condition with enough
mills, tend to hold per ton and prices of
flour moderately, though the market
is nervous and ready to absorb a
sharp advance. Corn prices were
opened strongly on the report of a
supply and good crop prospects. Corn was quoted

This following comparison shows prices on
best grades of wheat, corn and oats
in Kansas City and Chicago for this
date and one year ago:

<table>
<thead>
<tr>
<th>Grain</th>
<th>Kansas City</th>
<th>Chicago</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat</td>
<td>1.00</td>
<td>0.95</td>
</tr>
<tr>
<td>Corn</td>
<td>0.95</td>
<td>0.90</td>
</tr>
<tr>
<td>Oats</td>
<td>0.65</td>
<td>0.60</td>
</tr>
</tbody>
</table>

Stannard's Processed Crude Oil
Kills Lice and Mange.
One application of this product消灭s of this gnawing pest, and
will save an army of the enemy is not
too much, as the enemy is never
too many. The Stannard's Processed
Crude Oil is a product of the
Stannard Oil and Drug Company,
Memphis, Tenn.

What have you to trade for Arkansas
land? The land is worth it. Crops are
coming in splendid form, and the
farmers are going to have a
bountiful harvest. Inquire for
trade made a few days ago of
1,000 acres of land for 500 acres
of hay, 300 acres of corn, 50
acres of cotton, and 100 acres
of black cotton. If you have
land to trade, call at
L. E. Calhoun & Co., 155 S.
Walter Street, New York.

Chowder, Oats and Mixed
Grain.

FOR SALE OR EXCHANGE.
50 acres, wheat land, 20
acres, corn land, 10
acres, stock land, 5
acres, hay land, 25
acres, peas, 5 acres,
barley, 5 acres, oats,
10 acres, hay, 5
acres, flax, 5
acres, corn, 5
acres, beans, 5
acres, potatoes, 5
acres, hay, 5
acres, corn, 5
acres, beans, 5
acres, hay, 5
acres, corn, 5
acres. All
vacant, well watered,
excellent soil. For
sale at $5.00 per
acre. Address
A. B. STANNARD, Box M, Emporia, Kan.

YOUNG FARMER'S CHANCE.

To those interested in establishing business in a growing little town in West
Central Kansas. Real estate and a home with a choice of 6. Block of John Dovers,
Fred in their business in the
Young Farmer's home.

W. L. BOWMAN, realtor, Emporia.

For Sale: The owners of the W. L. Bow-
amo, real estate, 5 acres. For
sale at $25 per acre.

For Sale: 50 acres of
land, mixed grain, 20
acres of corn, 10
acres of stock, 5
acres of hay, 25
acres of peas. All
vacant, well watered,
excellent soil. For
sale at $5.00 per
acre. Address
A. B. STANNARD, Box M, Emporia, Kan.

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excellent soil. For
sale at $5.00 per
acre. Address
A. B. STANNARD, Box M, Emporia, Kan.

For Sale: The owners of the W. L. Bow-
amo, real estate, 5 acres. For
sale at $25 per acre.
In addition to this prize money there will be the numerous trophies and special prizes for which to contest. The leading record associations have already set aside some handsome awards for this exposition. There will be classes and prizes awarded for great form and symmetry in all classes. The livestock department is under the direction of Dr. C. Lively, who says the exhibit will be the largest that has ever been presented to the world.

In the breeding of Polish China hogs, Mr. McCreom, Bradysville, Iowa, has made a splendid success by crossing the get of the two great sires, Colossos, and Big Orange. Several classes of these pure-bred stock were pronounced by the breeders present on that occasion, superior to any like breed of sow sold this season. Those sired by Colossos and Big Orange, or a cross of the direct types combining unusual size, strength, and quality, and show promise of the future. Mr. McCreom has on hand about 150 pure-bred hogs of Colossos and the balance of the get of Big Orange.

On the evening of May 31st the pure-bred stock show and fancy of Jewell county met at Mankato and organized the Jewell county Breeders' association in perfecting their organization they had complied closely the plan of the Polk county Breeders' association which has been one of the state's most noted and highly recognized associations. The number of the Mitchell county breeders is sufficient for the organization of their sister county in organizing their association. It was evident from the personal efforts of Dr. W. F. McCreom he not only secured and organized which resulted in this organization the bacon pig owned by the latter was selected by the judges of the Presbytery of the Baptist county is a higher quality of pigs from the state in the production of all sorts and corn. This year's crop of pure-bred corn stock from any other county within the state by the county almost without exception are the best that have been exhibited by the counties in America and animal husbandry. About 200 pigs were on exhibition and well cared for in the way of entertainment. Plenty of good meat was supplied by a local orchestra, plenty of speaking by local and existing goods of stock were made the event of the evening. The lot of corn by those who attended the Exposition were: E. C. Crocker of Pike, Nebraska, made the principal address and his lot of the purebred stock farm from which these pigs were purchased. Mr. Crocker is the largest breeder of Jersey hogs in southeastern Nebraska and president of the Nebraska Swine Breeders' association. J. M. Rodgers of Bolbot made a timely talk about breeders' associations and told about the success of the Mitchell county association which is the one of the concern of the Jewell county association. Jerome L. Dubois of Bolbot has made a timely talk about breeders' associations and told about the success of the Mitchell county association which is the one of the concern of the Jewell county association. Jerome L. Dubois of Bolbot has made a timely talk about breeders' associations and told about the success of the Mitchell county association which is the one of the concern of the Jewell county association.
management of the Allen herd included John. W. Allen, Fred. L. Allen, and Leslie L. Allen. In addition to the many outstanding Poland China and Large Black sires, York has a large and splendid flock of ewes and lambs at the Allen farm in this line.

Dressed in the celebrated Whithall suit, a new suit, which was received last week, Mr. York cut a most dapper figure. He has gained in weight since last fall and is a splendid specimen of the life upon which he has been placed. His best and bestest friend, L. M. Allen, has been with him on the farm for over thirty years and is as good a friend as a man can have.

A Wonder Poland China.

John Pfander, of Ticco, Iowa, will hold his sale of Poland China hogs on May 5th. He has a large and splendid herd of Poland China hogs, consisting of nine sows and two boars. The boars are the sons of two of the finest Poland China sires in the state, and the sows are the daughters of two of the best Poland China sires in the country. Mr. Pfander is a native of Poland and has been breeding Poland China hogs for over thirty years. He is the owner of the largest Poland China herd in the state, and is well known for his splendid hogs. His hogs are of the best quality, and are sold at prices that are equal to the highest.

Some Friend Born Sons.

On account of C. P. Johnston's industry, he is able to show some of the choice blood that he has offered at the sale. One of these is a son of his best sire, a son of the best sire in the state, a son of the best sire in the country. This son was born in March, and is now two years old. He is a splendid specimen of the breed, and is sure to be a great success.

E. Iowa and Illinois

BY HARRY W. GRAHAM.

Stanfor's Top Sale.

One of the largest crowds attending the sale at Stanfor, Iowa, last week was that of the farmers who were there to see the sale of the E. Iowa and Illinois line of hogs. The sale was conducted by Mr. E. F. Stanfor, and the hogs were sold at prices that were equal to the highest.

Well bred, well beaten Hampshire hogs.

The accompanying illustration is a view of some of the most beautiful Hampshire pigs. These pigs were offered at the sale at Stanfor, and were sold at prices that were equal to the highest. They are a splendid specimen of the breed, and are sure to be a great success.

F. S. H.

A family for Sirloin Hogs and Chickens.

This family is a splendid specimen of the breed, and is sure to be a great success. It is a family that is well known for its quality, and is sure to be a great success. It is a family that is sure to be a great success.
Duroc-Jerseyes.

Duroc March Pigs $9.00 each. Young and Farrowing Farms, R. W. Huntington, Kansas.

Wanted-Duroc Jerseys.

A fine member of Iowa breeding, 3-year-old. Lose well. Write today.

E. A. TRUMP, Formose, Kan.

Breeder of Duroc-Jersey buck and does. Large fleet of prize stock pigs.

Duroc Boars For Sale

Dana Ot, P. O. Box 20, Mass. Owners desire to sell, so send for information.

HILLSIDH HERD

We offer spring pigs by Double Model, with pure and half-blooded stock. Write to

W. M. BIZZY, Albright, Neb.

Big-Type Durocs

Milk, China White, and Red, also yearling and halfs.

HANNA'S Durocs

New and old pigs for fall and spring sales. Write today.

K. C. AYERS, Taber, Montana.

Quivera Place Durocs

A few choice summer barrows and gilts, also fall sows. Write for information.

B. O. MUSELL, Holdrege, Neb.

Perfection Stock Farm!

We have a fine Duroc-Jersey, double registered. So write for information.

BONNIE VIEW FARM

DEROC-JERSEYSES

Searle & Cottle, Berryton, Kans.

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Mule Foot Hogs

J. Russell's

Also

Can't Hurry Oak Nut. Alvin Breeding.

Frank Hamptons.

T. L. V.

Service. 75

to sell.

by

Choice

cows.

Young

Ira Roling.

Heavy

many

and

maintain

Farmers.

WRITE J. F. PRICE, Medora, Kans.

Write Dr. E. C. L. Harbour, Hays, Kans., for prices and terms.

PURE BRED HAMPshires

ALVIN LONG, Lyons, Kans.

Mule Foot Hogs

Real gilt for sale, over 11 months old, to winter. Three

hogs and 20 pigs, over 12 months, for fall. Good eating stock.

By O. C. Snipes,

HAYWARD, Linn County, Kans.

HAMPshires

Write E. C. Ross, P. O. Box 231, Dodge City, Kans.

Hampshires

Write W. T. Grubbs, Arcadia, Okla.

Write M. D. Meridith, Arcadia, Okla.

Write Dr. E. M. Hunt, Alexandria, Okla.

Pedigreed Hampshires!

CLOVERDALE HAMPshires!

Hazelwood's Hampshires! C. S. Clark, Alexander, Kans.

Write W. T. Grubbs, Arcadia, Okla.

Write A. P. C. Stevens, P. O. Box 33, Topeka, Kans.

Write J. D. Turner, Lone Valley, Okla.

New York Valley Hampshires

Write J. W. Flax, P. O. Box 525, Leavenworth, Kans.

Bred Berkshire Sows

25 head of young, trial weaners, representing the best Berkshire strains and heads. May and June sows to be sold. Terms and prices to be had by inquiry.

Bred Berkshire Sows

By W. J. Garn, Dyer, Ind.

By H. W. Stavert, Old Town, Iowa.

By F. B. Stavert, Old Town, Iowa.

By R. J. Boyer, Topeka, Kans.

FURBRED HORSES

Truman's Pioneer Stud Farm

America's Largest Importers

Shire, Parcheron and Belgian Horses

Write for Illustrated Catalogue.

TRUMAN'S, Box E, MURRAYVILLE, ILLINOIS.

purposes of meeting the demand of the inland market, the number of young men on the farm who have no wish of leaving the excursion of interstate and state markets, but who desire to bring their hogs to market at the best price. In a recent interview D. L. Mitchell, of a large hog market at Springfield, Ill., remarked that "farmers in the West are not satisfied with the prices paid for hogs in the East, and they are particularly desirous of securing them at the best price." He stated that the result of the modern method of pig raising is that farmers may not commonly be interested in the market for hogs, and that they may not have a large supply of hogs on hand to sell. In the case of the hog market at Springfield, Ill., the market for hogs is supplied by the farmers of the inland market, and the hog market is largely supplied by the farmers of the East.

CHICAGO HORSE WRECKING CO.

Now Known as Harris Brothers Company.

In 1893 the Chicago Horse Wrecking Company was established, and it has been conducted continuously for 23 years. The company was founded by George L. Harris, and has been under the management of the Harris Brothers. The company was founded in the year 1905, and has been conducted continuously since that time. The company has been conducted under the name of Harris Brothers Company, and the firm has conducted the business under that name ever since the founding of the company.

Lookabaugh's Shorthorns

Sold on Time at Private Treaty

Six or nine months if desired. What we want is your trial order.

Books are open to all good farmers. Write for terms.

Two Heifers and a Bull, not related, $200 for the three—otherwise higher.

Over 200 Head From Which to Select

A very great variety of prize winners and prize-winning blood. If you want a blood of the best, you can have it here.

BREED WITH CARE AT HOME

RICHLY BREED YOUNG FRIESIAN-FRANSFIELD, OR CREAM-BROWN, OR BRED HEADER MATERIAL, FOR FILLING. IN FACT, A PLANTATION OF FILLING SHORTHORN, THAT CARRY THE BLOOD OF THE BEST FRIESIAN-FRANSFIELD AND OTHER BY VARIOUS WINNERS. WRITE FOR TERMS AND PRICES.


Registered GALLOWAY CATTLE

We breed Market Toppers. JAS. & W. R. CLELAND, New Hampton, Mo.

Oldenburg German Coach Horses

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Glenwood Farms announce

Shorthorns, Bulls and cows. June 6th, 1911.

O. T. Strickland, of Glenwood Farms, Glenwood, Kansas.

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Write for prices at breeding show.

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more than one-fourth of an acre, while in some instances, 10 or even 20 acres of land can be brought under irrigation. These little irrigated areas would make a good living for the farm family and the products from the remaining land, produced by the ordinary dry-farming methods, can be turned into a bank account.

The proportionate irrigator on his farm should carefully study the conditions existing, before making a decision. Irrigation farming is intensive farming. It is hard work. The man who has been farming a half-section or a section must change his methods when he begins to irrigate and combine his efforts so that 50 or 60 acres. More attention should be given to the yields and growing potatoes, tomatoes, fall fruits, sugar beets, and similar crops.

Farmers Choose a City Adviser

The Custer county Pampa Grange, held its annual meeting held May 22 at Burlington. So reports its secretary, E. L. McFarley, Farmers and Marine and Joseph St. Barser of Center Hill Grange was elected to the office and the commercial club at Burlington under a meeting promptly made Mr. Baker an honorary member of that body.

"It is hoped," adds Mr. McFarley in his letter to the Mail and Breeze, "that the new officer can accomplish much in promoting the farmers and townspeople to work together where their interests are common in the city farm." He concludes by thanking all Burlington farmers who accepted the invitation and appealed to the only prominent group in the city, for permission to have the only case on earth when so many are needed.

Winners in Farm Office Contest

First Prize, the Smith-Priest typewriter, 1000,- won by C. A. Thomas, Kan. Second Prize, $10 top desk, was awarded to Harold Olsen, B. S. Ewen, Topeka.

Third Prize, vertical filing cabinet to C. E. Smith, Atch, Kan. Fourth Prize, card filter cabinet, to W. J. Krohn, Williams, Kan.

The three judges of the 600 letters submitted in the Mail and Breeze's Farm Office contest have handed in the decision rendered above. The letters of the prize winners are to appear in a future issue of the Mail and Breeze. Many readers of the Mail and Breeze who have been waiting to bolster up the business side of their farming will be surprised to know the simple, practical system of bookkeeping will find some good cases in these farm office letters. As the good suggestions are by no means confined to the letters of the prize winners a selection from the others will be printed as a separate installment. The three judges found more than 200 of the 600 letters to be of prize-winning quality. A good deal of re-reading and comparing was necessary to reach a decision. At the judging committee comprised persons who work from 10 to 10 hours a day in an effort to reduce the high cost of living, this reviewing took a good deal of time and some late hours. The composition adds this excuse for its delayed decision.

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