

THE FARMERS MAIL AND BREEZE

Volume 43

June 14, 1913

Number 14



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

Get Your Canadian Home From the Canadian Pacific



We will make you a long-time loan—you will have 20 years to pay for the land and repay the loan—you can move on the land at once—and your Canadian farm will make you independent.

20 Years to Pay

Rich Canadian land for from \$11 to \$30 per acre. You pay only one-twentieth down—balance in 19 equal annual payments. Long before your final payment comes due your farm will have paid for itself over and over. This advertisement is directed only to farmers or to men who will occupy or improve the land.

We Lend You \$2000

for erecting your buildings, fencing, sinking well and breaking. You have twenty years in which to repay this loan. You pay only the banking interest of 6 per cent.

Advance of Live Stock on Loan Basis

The Company, in case of approved land purchaser who is in a position and has the knowledge to take care of his stock, will advance cattle, sheep and hogs up to the value of \$1,000 on a loan basis, so as to enable the settler to get started from the first on the right basis of mixed farming. If you do not want to wait until you can complete your own buildings and cultivate your farm, select one of our Ready-Made Farms—developed by C. P. R. Agricultural Experts—with buildings complete, land cultivated and in crop, and pay for it in 20 years. We give the valuable assistance of great demonstration farms—free.

This Great Offer Based on Good Land

Ask for our handsome illustrated books on Manitoba, Saskatchewan and Alberta—mention the one you wish. Also maps. Write today.

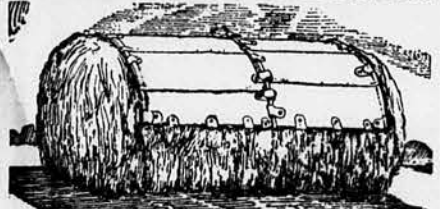
G. M. THORNTON, Colonization Agent

Canadian Pacific Railway
Colonization Department

112 W. Adams St., Chicago

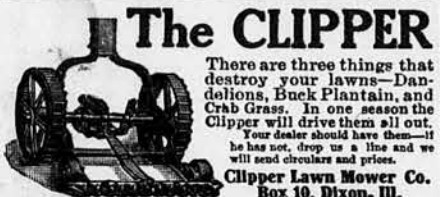
FOR SALE—Town lots in all growing towns—Ask for information concerning openings.

Save Your Alfalfa



Use Metal Stack Covers

They last for years and will not rust—can be adjusted to any size stack, will save its cost the first season. We pay freight. For price list and full particulars address, **The Kansas Metal Granary Co., 434 N. Wichita St., Wichita, Kansas.**



The CLIPPER

There are three things that destroy your lawns—Dandelions, Buck Plantain, and Crab Grass. In one season the Clipper will drive them all out. Your dealer should have them—he has not, drop us a line and we will send circulars and prices.

Clipper Lawn Mower Co.
Box 10, Dixon, Ill.



Heider

Heider eveners are best by every test. Used by thousands of farmers because they are mechanically perfect. Made of finest material. Work better and last longer than any other. The 2-horse Wagon Eveners on wagon with hay loader makes haying easy. Can be used on any wagon, manure spreader, grain drill or implement with pole. We also manufacture complete line of plow eveners for 2, 3, 4, 5 or 6 horses. Wagon doubletrees, single trees, neck yokes, etc.



Ask Your Dealer for Heider eveners and don't experiment with a substitute. Write for our free catalogue. Address

HEIDER MFG. CO., 130 Main St. Carroll, Iowa



10 DAYS FREE TRIAL

We ship on approval without a cent deposit, freight prepaid. DON'T PAY A CENT if you are not satisfied after using the bicycle 10 days.

DO NOT BUY of tires from anyone at any price until you receive our latest art catalogs illustrating every kind of bicycle, and have learned our unheard of prices and marvelous new offers.

ONE CENT is all it will cost you to write a postal and everything will be sent you free postpaid by return mail. You will get much valuable information. Do not wait, write it now.

Tires, Coaster—Brake real wheels, lamps, sundries at half usual prices.
Mead Cycle Co., Dept. F121 Chicago

CROPS and FARM WORK

(Crop Reporting Service of Farmers Mail and Breeze.)

October temperatures and seasonable rains have postponed harvest a week or 10 days later than was expected after the hot weather of May. This is all the better for the wheat, except where the crop is beyond help. Southern and western Kansas farmers will not get much wheat this year. A line drawn from the northwest corner of the state to the southeast corner will nearly divide the good and bad wheat territory this year, the good wheat being on the north side of the line.

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

KANSAS.

Finney County—Dry weather until June 1; several showers since. Poor prospects for small grain. Farmers in hay sections busy. Grasshoppers numerous. Stock doing fine and selling high.—F. S. Coen, June 7.

Coffey County—Heavy rain June 3 came just in time. Chinch bugs doing great damage to wheat. Corn looking fairly well. Potatoes and gardens fine. Good crop of cherries ripening.—Mrs. A. H. Stewart, June 5.

Rush County—Good rains have fallen in most parts of this county during the week. Wheat promises about a half crop. Northeast part of county will have excellent wheat. Other crops improving.—J. F. Smith, June 7.

Hamilton County—May was a dry month here. Had a soaker at Syracuse last night but the rain was local. Grass is short. No wheat worth counting on. Millions of grasshoppers and many gardens destroyed.—W. H. Brown, June 3.

Johnson County—Wheat is turning and bugs have stopped their damage. Corn growing fast and has good color. Soil in best of shape and the crop is being well tended. Weather damp and cool. Pigs and colts numerous.—L. E. Douglas, June 7.

Grant County—Several good rains since June 1 and county has been soaked generally. Farmers haven't even time to smile. Too busy planting or replanting crops. Grass taking a fresh start. Butter fat 23 cents, eggs 12.—J. L. Hipple, June 7.

Rooks County—Only 1/2 inch rain during May. Wheat nearly all headed out. Some fields badly burnt. A shower on June 4, 7-16 inch, will hold growing crops a few days longer. Oats will not amount to much. Milo doing well.—C. O. Thomas, June 6.

Jackson County—Fine growing weather. Had a good rain June 5. Corn coming on good and is being worked. Fine crop of alfalfa harvested. Wheat and oats look well. Pastures in good shape. Clover and timothy will make big yields.—F. O. Grubbs, June 5.

Pottawatomie County—Had a local shower June 4 but more rain is needed. Chinch bugs bad in spots and have made some replanting of corn necessary. Corn is small yet. Oats beginning to head and look fine where bugs are not at work.—S. L. Knapp, June 6.

Cheyenne County—Weather has been hot and dry and grain is suffering for moisture. Unless rain comes soon small grain will be light. Corn coming on fine. Pastures getting dry. Hogs \$7.50, corn 50 cents, wheat 80, butter fat 23.—F. G. Casford, May 31.

Wilson County—Rain badly needed for crops and stock water. Wheat and oats badly damaged lately by bugs. Good acreage of corn and the crop looks well. Most of it plowed twice. Stock in good shape but some losses by blackleg reported.—S. Canty, June 4.

Morton County—Frequent local showers. Until the recent rains pasture was poorest in four years. Barley looks fair but needs more moisture. Some farmers have quit planting until more rain falls. Men are leaving for harvest fields.—Mrs. Margaret McGee, June 6.

Stanton County—Had a 3/4-inch rain June 1. Ground was so dry on top it did little good. Stand of spring crops poor and much replanting necessary. All crops growing slowly. Not much broomcorn being planted. Most of last year's crop still on hand.—G. S. Greger, June 5.

Ford County—Weather cooler and have had few local showers but not enough moisture yet. Some wheat fields will be a total loss. All crops badly hurt. Corn looks fairly well. Feed crops not all sown. Pastures short. Wheat 80 cents, corn 50, cream 24.—John Zurbuchen, June 7.

Kiowa County—Showers recently have not changed wheat prospects much. On hard land wheat is damaged about 50 per cent, on sandy land 30 per cent. Harvest will soon start. Early corn starting off well. Late plantings show a poor stand. Pastures short.—H. E. Stewart, June 7.

Butler County—Weather dry and hot. Wheat has been ruined in this locality. Some fields have no grain in heads. Oats are short. Chinch bugs present by the bushel. Corn and Kafir look fairly well. No good rain this spring. Fat hogs \$8, corn 60 cents.—M. A. Harper, June 3.

Rawlins County—Local showers June 5 was first rain in four weeks. Wheat was helped but little as it has been badly burnt. Corn doing well and farmers are

cultivating. Some Kafir still to be planted. Pastures nearly dry enough to burn. Grasshoppers hatching fast.—J. S. Skolout, June 7.

Shawnee County—Had 1 1/2 inches of rain June 5 and 7. Wheat heading but bugs and flies have done a lot of damage. Corn looks fine and most of it worked over once. Crop shows good stand. Alfalfa made 1 1/2 to 2 tons per acre. All stock doing well. Hogs \$8, corn 50 cents, wheat 77, eggs 15.—J. P. Ross, June 7.

Lyon County—Wheat heading out good. Alfalfa growing fast and will soon be ready for second cutting. Corn a little backward but shows fair stand and is almost clean of weeds. Oats maturing in good shape. Plenty of grass and stock doing well. Heavy rains have protected wheat from bugs.—E. R. Griffith, June 7.

Marshall County—Wheat filling out and looks promising. Early oats heading but some fields will be short in straw. Corn shows good stand except on lowlands where it overflowed. Good crop of alfalfa harvested. Showers of this week helped all crops. Wheat 78 cents, corn 51, oats 33.—F. G. Stettinisch, June 5.

Jefferson County—Stand of corn seems to be good and is being worked the first time. Two good rains this week made moisture plentiful and ground works fine. Chinch bugs are at work in some wheat but do not seem to be bad. Large numbers of 17-year locusts have appeared in the timber.—Z. G. Jones, June 6.

Gray County—Several nice showers this week. Wheat will be rather light on account of long dry spell but oats and barley promise well. Corn and Kafir have fine start and all spring crops look well. Grass good. New settlers locating near new railroad and much new land being broken for wheat.—A. E. Alexander, June 5.

Jewell County—Weather fine for corn but a little dry for small grain and alfalfa before rains of June 5 and 6. Hay has started all right. Pastures fine. Not many chinch bugs but young grasshoppers are numerous. Wheat looks fine. Oats small for the time of year. Wheat 85 cents, corn 50 cents, cream 23, potatoes \$1.—S. C. DePoy, June 7.

OKLAHOMA.

Payne County—Weather dry and hot. All crops look well but need rain. Good prospects for fruit. Butter fat 22 cents, butter 17, hens 10.—A. M. Leith, May 31.

Caddo County—Good rain June 5. Wheat will make about 10 to 15 bushels. Harvest just begun. Corn shows good stand. Oats will make about 25 per cent of crop.—S. A. Gilmore, June 7.

Pawnee County—Need a good rain although crops are not suffering yet. Early corn tasseling; the rest all laid by. Harvest has started but most farmers are chopping cotton.—V. Funkhouser, June 6.

McClain County—Fine growing weather. Harvest is here and wheat is averaging 80 per cent of full crop. Cotton chopping nearly gone. Corn waist high. Watermelons in bloom. Eggs 15 cents, butter 20.—Floyd Harman, June 6.

McIntosh County—Wheat ripe in spots. All crops needed rain a week ago. Corn too large for two-horse cultivator. Cotton about all chopped out. Kafir doing well. Chinch bugs moving. Pastures getting short.—H. S. Waters, June 6.

Custer County—Splendid rain last night will help late oats but was too late to help wheat much. Harvest will begin about June 10. Corn clean but small. Late planted milo and Kafir coming up very uneven. Large acreages of cane, millet and Kafir sown for hay.—E. E. Baker, June 7.

Cleveland County—Heavy rain last night. Ponds are full and ground soaked. Wheat harvest in full blast. Oats ripening but has been damaged somewhat by bugs. Second alfalfa crop doing fine. Cotton, corn, and peanuts making rapid growth. Home grown potatoes on market.—H. J. Deltrick, June 7.

Kiowa County—Fine shower June 6 accompanied by dust storm. Harvest began June 1. Wheat filled out better than expected. Only had 8 inches of rain to produce the crop. Most wheat being headed. Oats a failure. Pastures were almost dry enough to burn when rain came.—Mrs. Alice Henderson, June 7.

Kingfisher County—Had about an inch of rain last night, the first in three weeks. Good for grass, oats and all spring crops, but too late for wheat. Harvest will begin next week. Crop not badly hurt here but west of Rock Island railroad and north of this county wheat will be light. Corn and cotton doing well but alfalfa making little growth.—H. A. Reynolds, June 7.

Tillman County—Crops look fine. Second crop of alfalfa being cut. Harvest under way and prospects are fine for bumper crop. Oats will not amount to much. Cotton starting well and many are chopping. Heavy rain last night. Grasshoppers plentiful but not doing much damage except to pastures.—Edward T. Austin, June 7.

Don't Have to Replant.

Mr. Editor—I planted my corn the first of May. I went over the ground with the disk harrow, then listed it with a one-row lister. I sent to a seed house in Manhattan for the seed, the Sunflower corn. I didn't have to replant any and got a pretty good stand. I went over my corn six times. The first and second times with the disk, the third time with the harrow, the fourth, fifth and sixth times with the cultivator.

Hiram Woodruff.
R. 1, Ames, Kan.

Trojan Steel Gates Are Real Gates.

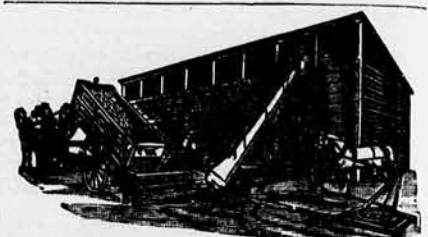
Made of 1 1/2 high carbon steel tubing all No. 9 galvanized wire mesh, special hinges, self-locking latch, raises at either end, absolutely hog tight, bull proof and wear proof. Strongest, best looking and longest wearing gate in the world.

You Can Get One Sold on 30 Days Trial. Guaranteed by \$10,000 Bond.

FREE You take no chances. We ship the gates. We let you try them, test them, compare them with any other at any price. If they are not the best ship them back at our expense.

Sold Direct from Factory at Factory Prices. You save middleman's profit. That's why they cost less than others; that's why more Trojan gates are sold than all others. Investigate.

Write for Catalog and Full Particulars of Our Introductory Free Gate Offer. Our proposition is fair and square. One gate free to one farmer in each county for helping introduce. Standard Mfg. Co., 305 Main St., Cedar Falls, Ia.



CRIB CORN!

Do it the easy way! Get the facts about the "Little Giant" famous 4-wheel Green Machine. Find out how it dumps and elevates a 60 bu. load of ear corn in 3 to 5 minutes instead of 20 to 30 minutes the old way. You take a rest, and huskers keep on husking. No more scooping to do, no more lame backs after you get a

"LITTLE GIANT"

Men husk 20 per cent more, when they don't have to scoop. They work for a quarter to a half-cent cheaper, when they don't have to scoop. Good huskers are easy to get and keep when there's no scooping to be done. Investigate the famous Little Giant Portable Elevator that makes play out of unloading and cribbing corn and all small grain! Shelled green corn and silk in the crib means rattage and molding. Our new screen feature in bottom section separates it from the ear corn and saves it for feeding.

Write for Free Book. Don't plan your fall work before you read our fine free book. Even if you are not quite ready to buy the "Little Giant," get the facts and know about the famous 4-wheel Green Machine when you are ready. A great book of Crib Plans free if you are going to build or remodel your crib.

Write now. A postal will do. Address,
PORTABLE ELEVATOR MFG. CO.
120 McClun St. Bloomington, Ill.

The Heider Tractor Again Leads Them All.

Runs Successfully on Either Gasoline, Motor Spirits or Kerosene

We have solved the fuel problem successfully. A simple device permits the use of either Gasoline, Motor Spirits or Kerosene at all speeds and puts our tractor in a class all by itself. A gallon of kerosene runs the Heider Tractor longer than a gallon of gasoline, and develops the same power, thereby doing the same work at less cost than any other tractor on the market.

The Heider Tractor Pays for Itself.

Its 4-cylinder motor, light weight, great power, simple operation, economical fuel consumption, make it the best, most practical, all-purpose one-man tractor manufactured. Investigate before buying. Write today for free book on Tractor Farming. **HEIDER MFG. CO., 455 Main St., CARROLL, IOWA.**

Big Surprise Package 2c

We have made up one thousand surprise packages which we are going to distribute among the first 1,000 readers of this paper who answer this advertisement.

Each package will contain at least three articles and one of these will be a book. The other two or more articles will constitute the surprise and will be something which we believe you will appreciate very much. We have a large assortment of miscellaneous goods and cannot say here just what will go in the package you receive—but we are quite sure you will say the three articles are EACH worth MORE than 10c. If you answer at once, sending 10c for a 3-months' subscription to our paper and 2c additional—just 12c in all—you will be receiving one of the big surprise packages for only 2c. Send 12c today. Address **Household Surprise, Dept. 13, Topeka, Kansas**



THE FARMERS MAIL AND BREEZE

AN AGRICULTURAL AND FAMILY JOURNAL FOR THE PEOPLE OF THE GREAT WEST



Volume 43
Number 14

TOPEKA, KANSAS, JUNE 14, 1913.

Subscription
\$1.00 a Year

"WATER FARMING" AND OTHER FARMING IN WEST KANSAS

FARMING in western Kansas is calling for a new deal. There is nothing new or startling in this statement. But the fact was never more apparent than this year. The shortgrass country is not going to get a permanent system of agriculture until there is a decided shaking up of its present farming methods. Farming anywhere is more or less of a gambling proposition, but farm people in the irrigated part of western Kansas are taking more chances than the average. To eliminate as much as possible of the gambling element in western farming is the purpose for which the Kansas Dry-Farming association was organized. The meeting at Garden City last week was the fourth annual session of the organization.

The fault of the average western farmer is to stake too much on one throw—to put all his eggs in one basket. Year after year the same farm practices continue, usually the kind which require the smallest effort and outlay, waiting for the big years to come. The strong-hearted hold out, but many of the less courageous leave their homes when these always expected big years fail to arrive. In the western third of the state more farms have been abandoned in the last five years than is generally known or will be admitted by those who have land to sell.

However, all farming is not bad in western Kansas and a good living can be made at it. Every community has its careful farmers who have stuck by the country through thick and thin and finally prospered. A few cows, a bunch of hogs, some chickens, and a garden always will pull a farm family through a bad year and when the big crop comes that is all gain. Feed for stock never fails entirely and with a windmill furnishing water, a garden is always possible. The common objection to keeping cows, as Prof. Reed of Manhattan said, is that they can't be milked from horseback. The work seems tedious for the income it brings, and there is cause for being skeptical in regard to profits when one considers the average cow now kept out there. In the Garden City district irrigation is putting farming on a more substantial basis. Water from the Arkansas river, supplemented by that pumped from the underflow, has done wonders. But there also is an evil effect, as land values have become inflated. If not, why does one see so much idle land within easy reach of Garden City growing up to Russian thistles, land that is being held at close to \$100 an acre? More

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 prohibitive cost of a pumping plant for a farmer 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 shovel and hoe and that can-

Breeze was put in at a cost of \$7,500 complete. The well is 100 feet deep and a 75-horsepower engine pumps a stream of 700 gallons of water a minute. This is considered a model plant with its fire-proof belt shed, oil cistern, and concrete floored engine house. Even though the average farmer would not require all these features the cost to him would still be prohibitive. Uncle Sam could solve this financial difficulty by putting in wells and selling water rights at cost, as in the case of other irrigation projects.

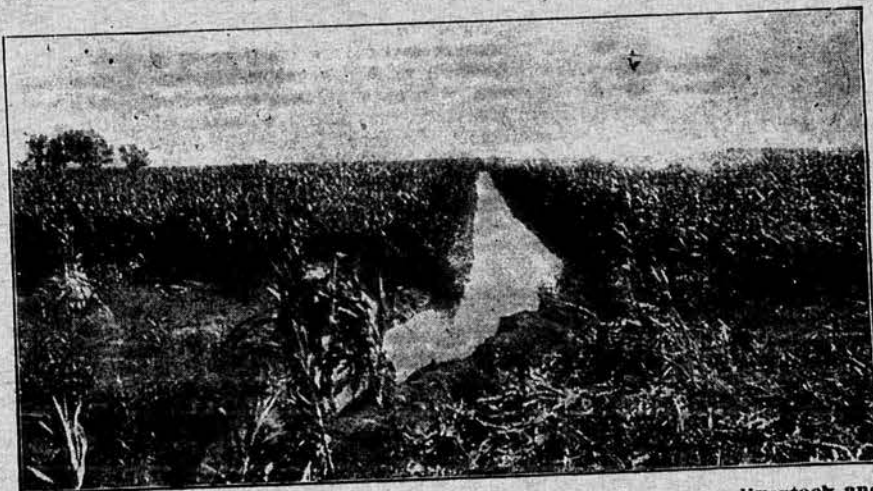
Alfalfa is the great crop produced by the Finney county "water farmers." Wheat, feed crops, gardens and sugar beets are of secondary importance. Contrary to general belief, sugar beets are not generally grown by farmers, not even by those within easy reach of the immense sugar beet factory a mile west of Garden City. Here again, partly, the dislike for hand work appears. The returns from sugar beet

growing seem large at first glance, but the help and water required are big items of expense. Last year the contract price paid for beets by the factory was \$5.50 a ton. Yields range from 10 to 25 tons an acre under average conditions. The United Sugar company, which owns the plant, also owns several thousand acres of sugar beet land. The factory depends more upon the beets from this land for its raw material than upon what the farmers grow. Last year the factory put up 190,000 sacks of sugar, each sack weighing 100 pounds.

A much talked of subject at the meetings was Sweet clover. It seems the Finney county growers were the first to make Sweet clover famous so far as Kansas is concerned. E. G. Finnup, who is known to Mail and Breeze readers, was one of the first to learn the feeding value of this plant. He is a cattle feeder and had been in the habit of buying up prairie hay, some of which contained Sweet clover. It was then looked upon as a weed, just as it still is in some localities, and the hay in which it was found was cut in price. But Mr. Finnup found his cattle picked out the clover first and seemed to do well on it. After that he bought up this mixed hay and fed it for years before the value of Sweet clover became generally known.

Mr. Finnup finds that the clover does best on native prairie. The seed is sown almost any time of year and followed with a harrow or alfalfa renovator.

(Continued on Page 14.)



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

not 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 to hold the water in the soil, for the secret of keeping down expenses in irrigating lies in making the best use 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



The "shortgrass" country of Kansas offers excellent opportunities for growing wool and mutton and, next to water, more stock is the greatest need of the land. This picture was taken on the ranch of Austin Parsons near Garden City, Finney county.

The Farmers Mail and Breeze

PUBLISHED WEEKLY AT
Eight and Jackson Streets, Topeka, Kansas.

ARTHUR CAPPER, Publisher. T. A. McNEAL, Editor
A. L. NICHOLS, Associate Editor.

E. W. RANKIN, Advertising Manager.

Editorial Contributors.

F. D. COBURN.
PROF. A. M. TEN EYCK. PROF. W. M. JARDINE.
PROF. CHARLES DILLON. PROF. A. H. LEIDIGH.
PROF. O. E. REED. PROF. L. E. CALL.
PROF. H. F. ROBERTS. PROF. G. C. WHEELER.
PROF. J. T. WILLARD. PROF. ALBERT DICKENS.
PROF. C. A. SCOTT. PROF. W. A. LIPPINCOTT.
DR. F. S. SCHOENLEBER.

Department Editors.

FARM CROPS - A. H. Leidigh. FARM DOINGS - Harley Hatch
LIVESTOCK - Frank Howard. VETERINARY - F. S. Schoenleber
DAIRY - A. G. Kittell. THE MARKETS - C. W. Metsker
SWINE - E. J. Waterhouse. HOME DEPTS. - Mabel Graves
HORTICULTURE - M. Mathewson. POULTRY - Reese V. Hicks.

SUBSCRIPTION RATES. . . . One Year, \$1.00

ADVERTISING RATES.

40 cents per agate line. 104,000 circulation guaranteed.

No liquor nor medical advertising accepted. By medical advertising is understood the offer of medicine for internal human use.

Entered as second-class matter Feb. 16, 1906, at the postoffice at Topeka, Kansas, under the act of Congress of Mar. 3, 1879

OUR ADVERTISEMENTS GUARANTEED.

WE GUARANTEE that every advertiser in this issue is reliable. Should any advertiser herein deal dishonestly with any subscriber, we will make good the amount of your loss, provided such transaction occurs within one month from date of this issue, that it is reported to us within a week of its occurrence, and that we find the facts to be as stated. It is a condition of this contract that in writing to advertisers you state: "I saw your advertisement in Farmers Mail and Breeze."

SPECIAL NOTICE TO ADVERTISERS.

Changes in advertisements or orders to discontinue advertisements must reach us not later than Saturday morning, one week in advance of the date of publication. We begin to make up the paper on Saturday. An ad cannot be stopped or changed after it is inserted in a page and the page has been electrotyped. New advertisements can be accepted any time Monday. The earlier orders and advertising copy are in our hands the better service we can give the advertiser.



**PASSING
COMMENT**
by
T. A. McNeal

STILL WANTS TO BORROW.

And now Senator Borah advances a plan for the building of good roads. It's just the same old foolish plan of the government lending its own credit and then borrowing it again and paying interest to the people to whom it lent it in the first place.

Issue bonds, says Borah. The government bond is the best security in the world. Therefore, the government can borrow at a less rate of interest than any person or state or municipality can borrow. Then the government can re-lend the money it has borrowed to the states at 1 per cent in advance of the rate of interest on the national bonds and this 1 per cent extra will, if applied to a sinking fund, finally extinguish the bonds and the government will not in the long run be out a cent.

Beautiful theory, yes. But then somebody will have to dig up the money to pay the interest on the government loan and that somebody will be the people who have to pay the taxes.

I have asked this question a number of times. None of these smart men either answer it or even attempt to answer it. I will keep on asking the question, not because I expect an answer, but because I want to do what little I can to pound the fact into the minds of the readers of this paper in order that they in turn may get after their members of congress.

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 good. If it is bad, it is bad, and that without any reference to whether it bears interest or not.

You certainly will say that it is easier for you to pay a note that bears no interest than to pay the principal and interest also. It certainly would be easier to carry the non-interest-bearing notes of the government than to carry the bonds.

I am favorable to the good roads movement, but there is no need and no sense in issuing interest-bearing government bonds. Let the government issue so many of its non-interest-bearing notes as are necessary. Make them legal tender for all debts, public and private. Make them redeemable in gold, if you still insist on that fetish. The gold will not be called for.

Coin no gold, but if the holder of the government note desires to exchange his paper dollar that is a legal tender for gold bullion that is not legal tender, let him have his tiny bit of bullion. He won't want it. If the government will do this, if it will inaugurate public works, the building of roads, the development of water powers, the building of railroads, etc., we will enter on an era of the greatest prosperity this country has ever known.

Borah is a smart man. He knows that it is not necessary to issue interest-bearing bonds, so do the other statesmen. They have never furnished an an-

swer to the query I have propounded. But here is the trouble: If the government does this it will seriously interfere with the business of lending money, and if it begins to look as if such a policy might be adopted you will find every money lender in the country—that is, every man whose principal business it is to lend money—will line up against it.

And the forces of self interest will be powerful and keen. The powerful, intelligent few have generally been able to control the many through their prejudices, their general indifference and often stupidity. Maybe they can be worked again. They will be unless they wake up and get busy.

* * *

MORE SUGAR LITERATURE. It is evident that somebody is putting up a large amount of cash to prevent the putting of sugar on the free list. The other day I received two large elegantly printed and expensive pamphlets filled with reasons why sugar should be protected by a tariff. One pamphlet would have been sufficient, but I received two.

This pamphlet contains a number of specious arguments and if all the facts were stated the argument in favor of tariff-protected sugar would seem to be very strong. Boiled down and put into a few words, the people of the United States are not particularly interested as between one set of sugar manufacturers and another. They have no particular sympathy for either, but they are interested in the matter of cheaper sugar. If taking the tariff from sugar will result in a substantial reduction in the price of sweetening, they want it. If it will not result in that, then they do not want it.

Those who are so strenuously objecting to the removal of the sugar duty claim that it will not result in cheaper sugar. If not, it is hard to see how the domestic manufacturer can be harmed. To prove that the price of sugar will not be reduced the domestic sugar mill men cite the case of 1890, when under the McKinley bill the tariff was taken off sugar. They say that at first the price was reduced by the refiners, but was shortly raised again until it was higher than before the reduction.

That would look like a clincher were it not for the fact that the sugar trust succeeded in getting a joker into the McKinley bill which practically nullified the good there was in it and added to the enormous profits of the sugar trust.

While the duty was removed from raw sugar a high duty was retained on refined sugar, which enabled the Havemeyers, who at that time controlled the sugar refiners' trust, to get the raw material free while they were amply protected from the competition of foreign refiners.

Our people consume but little raw or unrefined sugar, therefore the McKinley law afforded little relief to them. If both raw and refined sugar had been placed on the free list and then the price of sugar had gone up instead of down, I would have been convinced that it is a bad thing to take the tariff off sugar.

Taking the tariff off the raw product and leaving a tariff on the finished product never has and never will result in any substantial benefit to anyone except the manufacturer. That was shown when the tariff was removed from hides but a duty left on the finished leather. The farmer received less from the hide of his animal, but the price of shoes did not decline. To put raw sugar on the free list and retain a high duty on refined sugar will benefit nobody but the sugar refiners. It would put several millions every year into their pockets.

If raw sugar is to be placed on the free list, then refined sugar should also be placed on the free list. Then we will know whether or not free sugar is a benefit to the sugar eaters of this country.

* * *

THE COMING AGE. The pessimist covers himself, metaphorically speaking, with sackcloth, the emblem of woe and desolation, and predicts the destruction of mankind. He knows as much for certain about the future as anyone else, but he knows no more. We cannot lift the veil that hangs in front of us, but we can figure on possibilities and probabilities.

We have gotten far enough along now to know that this world contains possibilities for universal comfort and universal happiness. The only question is whether there is sufficient intelligence and altruism in the world to develop its resources and use them for the benefit of mankind.

Engineers know that there is a minimum of undeveloped water power in the country of more than double the total amount of both steam and electric power now used in the United States. Will that tremendous force be saved for the people and developed under government control? Will the almost incalculable power of our rivers be harnessed and distributed to all parts of the country to light and heat the buildings, to supply the infinite number of dynamos that will turn the wheels of the mills and push the cars back and forth to every nook and corner of the continent?

Will we have sense enough to stop the floods, to save the surplus waters in reservoirs to be used when there is a scarcity, and to prevent the enormous loss of property and life that comes now every year with the unbridled floods? Will we have sense enough to save the fertility of our soil and add to it instead of wasting it as we have been doing? Will we, by in-

telligent cultivation, make the lands of this country produce three times their present yield?

Will we, by intelligent co-operation, stop the enormous cost of distribution from producer to consumer and by so doing reduce the cost of living by 50 per cent? Will we ever learn enough of wisdom to stop the spending of more than half the national revenues of the world on preparations for war and slaughter of our fellowmen? I do not know, of course, but I believe we will. It seems incredible that mankind, after finding out the possibilities within his reach, will refuse to take advantage of them. It seems incredible that after so many proofs that we are bound up together in a common destiny and that the results of poverty and disease and ignorance among part of the population must inure to the damage of all, rich as well as poor, in the end, we will refuse to remove the causes of disease and poverty.

In the coming age there will be no poor and there will be no idle rich. There will be no hovels, no beggars, no classes warring with each other, no standing armies, no battleships, no vast, shotted guns. There will be no illiteracy with all the evils that ignorance breeds, no wars with their horrible and useless slaughter.

Maybe it will take a century to reach that golden age, but I believe it is coming and coming fast.

* * *

A LEAF FROM THE HISTORY OF THE 21ST CENTURY.

The first of January, 1914, marked the putting into practical operation of the most stupendous practical invention of the new century up to that time. It had long been known to scientists that the energy of the sun's rays that reached the surface of the earth for a single hour amounted in the aggregate to many thousand times the entire heat energy of all the coal that had ever been mined in any single year in all the mines of the earth. It was only a question of how it might be possible to utilize this tremendous power.

Numerous inventors had spent their lives working on the problem, but it remained for a great-grandson of Thomas Edison, the most celebrated inventor of the latter part of the Nineteenth and early part of the Twentieth century, to finally discover a method by which this incalculable force might be harnessed and made to do the work of the world.

A careful calculation made many years ago showed that the desert of Sahara with its 6 million square kilometers of territory received solar energy daily that amounted to the heat units produced from 6 billion tons of coal. This was equivalent to six times the entire output of all the coal mines of the world for an entire year. In other words, the sun's rays beating down on the great desert produced 2,190 times as much heat and power as all the coal mines of the entire world.

As there are other deserts of vast extent aggregating more territory than the desert of Sahara, it was known that here was an unlimited supply of heat and power if some genius could find a way to bring it under control. Edison had succeeded in discovering a way in which this could be done. His solar ray condensers had finally been perfected and put into operation on the great African desert and arrangements were being made to utilize in like manner the other great tropical deserts of the world. The result was a complete revolution in the business and social life of the world.

A hundred years before that economists were worrying themselves over the probable exhaustion of the coal supply. They had during the year 1913 made estimates that within the next 200 years the entire known supply of coal would be exhausted and unless some new kind of fuel should be discovered not only would manufacturing enterprises be brought to a standstill, but half the inhabitants of the world would be compelled to abandon their homes and migrate to the tropics or freeze. The fears of these ancient economists now create a smile. All the coal mines were, of course, abandoned for the reason first, that the cost of coal as a fuel and generator of power would be many times that of the new power and second, because the people of this age would not for a moment consent to endure the discomfort of the smoke and dirt necessitated by the use of coal. It seemed incredible to them that their ancestors of the Nineteenth and Twentieth centuries had managed to endure the cinders, smoke and smell of that primitive fuel.

The heat and power generated by the Edison solar ray condensers, amounting, as has been said, to the heat and power that would under the old system have been derived from the consumption of 6 billion tons of coal per day, were conveyed by wires laid in underground conduits to all parts of the world. It was conveyed under seas by vast cables. Heat and power by electricity generated on the great desert lighted the homes and turned the wheels of commerce as far north as the Arctic zone. It lighted and heated the dwellings of the people from Iceland to Tierra del Fuego. Smoke stacks belching forth their black and soot-filled clouds no longer disfigured the landscape. Men no longer burrowed in the earth risking their lives in the digging of coal. The new heat and power was so cheap and plentiful that it was used to control the climate as well as to move the loads of commerce and turn the wheels of factories.

If a frost threatened the crop of the farmer he turned the switch of his heating system and the temperature was raised above the freezing point. It had been known for more than a century that the pre-

precipitation of moisture from the atmosphere was the result of certain electrical conditions, but until the beginning of the Twenty-first century it had not been discovered how to bring about those conditions. This problem had, however, been finally solved and now with the unlimited production of electricity rains were produced at will.

With the complete control of the temperature and the moisture, crop failures were no longer known, for with other advancements the farmers of the world had been able to exterminate the insects that had previously devastated their fields and with improved methods of farming, entire absence of loss from drouth, frosts or insects the agricultural production of the world had been more than quadrupled as compared with the production of a century before. It might have been increased vastly more than that, but it was considered unnecessary to produce more food than was sufficient to amply supply the needs of all the inhabitants.

With the perfected electrical system of transportation the old waste of products had been eliminated. There was no longer such a thing as food products going to waste in one part of the country, while there was a lack of the same product in another part. The supply and demand had by this time been perfectly adjusted to each other.

Solar ray condensing plants during the year 2014 were installed also on the American desert covering a part of Colorado, New Mexico, Arizona and California which supplied heat, power and light for the entire continent of North America.

SOME OPINIONS ON THE TARIFF.

Editor Mail and Breeze—During the campaign last fall an orator said he paid \$30 for the suit of clothes he then wore. When he bought them he weighed them and they weighed 4 pounds. (It was a summer suit.) He asked a wool grower of his acquaintance what he obtained for his wool and he said 13 cents per pound. As fine wool shrinks 50 per cent in scouring it requires 8 pounds of wool. At that price the wool grower received for the wool in that suit \$1.44. How much did the tariff benefit the wool grower and who got the \$28.56?

WILLIAM RAMSEY.

Bremen, Kan.

Of course, here is a question that suggests two answers. If the tariff is removed from wool it could hardly affect the price of clothing more than the total amount of the tariff removed. If there were 8 pounds of scoured wool in the suit and the tariff is 11 cents per pound, the tariff on that particular suit, so far as the wool is concerned, is 88 cents.

Now, here is some information that may be interesting. It is, I think, reliable. I received it from a friend of mine who was formerly foreman for Hart, Schaffner & Marx, one of the largest concerns engaged in the manufacture of ready-made clothing in the world. The labor cost of this \$30 suit, as my friend tells me, is \$3.65, the cost of material not to exceed \$6, making total cost to Hart, Schaffner & Marx for the suit, \$9.65. The suit is sold to the retail merchant for \$15.50. The profit of Hart, Schaffner & Marx is \$5.85. The retail merchant sells the suit to the ultimate consumer for \$30, making a profit of \$14.50.

Hart, Schaffner & Marx have a contract with the retail merchant that the suit shall not be sold during the season for less than \$30. But after the season is over Hart, Schaffner & Marx take back the unsold suits from the retail merchant, or permit him to put them on sale at a certain reduced price.

If the purchaser is content to wait until the season for that particular kind of suit is over he will find that he can buy it for about \$18 or possibly \$18.50. If left over suits do not sell the first year, the second year a further cut is made in the price until it is possible to get a suit that has been lying on the shelves of some clothing store for four or five years that once sold at \$30, for \$10 or less. But during the regular season the retailer under his contract with the big clothing house is not permitted to sell the suit for less than the list price, which in the case of the suit of the orator was, I presume, \$30.

Will the reduction of 88 cents in the tariff on the wool that goes into that suit help the purchaser more than 88 cents? Possibly, although I cannot see how it will.

Now as to the effect on the wool grower: In 1894 the tariff was removed from wool and the price of wool in that case went down just the amount of the tariff reduction, which was 11 cents per pound. If the same result follows the passage of the present tariff bill it may be a benefit to the buyers of clothing but it will most certainly be disastrous to the wool grower. It would, judging from former experience, cut the price of his wool in two, while the only corresponding benefit he personally would receive would be the reduction of 88 cents or possibly a dollar on the price of his suit.

As the average farmer who raises sheep does not buy more than one suit per annum, it is comparatively easy to figure out how it would affect him.

Editor Mail and Breeze—I have read with ever-increasing interest the letters and "Passing Comment" and greatly enjoy the spirit of independence, courage and fairness and squareness of the editor. However it is not possible for all square men to agree all the time, yet such people always live together harmoniously out of the high regard that is accorded to each.

In the Mail and Breeze of May 3, you briefly discussed the tariff question. Your logic I am not endeavoring to question but the definition as applied to tariff and revenue, it seems to me is untenable. The very fact that the word "protection" is used in connection with the word "tariff" re-

futes your premise. In most foreign countries the term revenue is used in distinction from the term tariff, revenue meaning one thing and tariff another. In the United States it is not so.

Tariff has been used to designate any or all forms of revenue from imports and the term tariff revenue is used in distinction from the term protective tariff.

The imported article when received in a country is given the protection of law, all property rights being maintained. For this service the government asserts to itself the right of taxation. Every citizen in this country is familiar with the term tariff for revenue in expressing the right of such taxation and who is there who does not understand? The domestic article is subjected to taxation by the virtue of this right of the state and I cannot see how, in this connection the domestic article receives any protection.

Taxation is based on the needs of the state or government and the service the government renders being maintained. For this service the government asserts to itself the right of taxation. Every citizen in this country is familiar with the term tariff for revenue in expressing the right of such taxation and who is there who does not understand? The domestic article is subjected to taxation by the virtue of this right of the state and I cannot see how, in this connection the domestic article receives any protection.

Other special forms, as the income tax, are efforts to equalize the burdens of taxation more justly than the state may take from him that hath, justly, rather than from him that hath not, unjustly.

I have said but little on the tariff issue, yet I trust it is sufficient for the discerning mind to understand how a tariff for revenue is a very different creature from a tariff for protection only.

Let us give Mr. Underwood credit for fairness and admit squarely that free trade is certainly right and a protective tariff is certainly wrong. In the Mail and Breeze of May 10 you foresee a wonderful prosperity for our people and country in case the present administration pursues the proper course in the issue of currency and the establishment of banking relations, and are therefore not appalled by the prospective tariff for revenue only.

Fellow readers, let us pour in our hot shot of approval for Mr. McNeal with reference to his proposed credit, currency and banking scheme. There are some wideawake congressmen who keep an eye on what is being said in "Passing Comment" and who are mightily interested.

L. L. MOBLEY.

Hindsville, Ark.

So far as the tariff is concerned, I do not think there has ever been a real tariff for revenue only tariff bill enacted. A tariff for revenue only would not put a duty on any imported product, the like of which is produced in this country, because no matter what the avowed object of the law may be, a tariff on an imported product must necessarily give an advantage to the like product produced in this country.

All that can be claimed for the Underwood bill is that it does not give as much advantage to the American production as the law now on the statute books. It is a difference of degree, not a difference of principle.

If it is claimed that a protective tariff is an indirect robbery of the consumer, then the best that can be said of Mr. Underwood's bill is that it does not rob him of quite so much as the Payne-Aldrich bill. However, I am not so much alarmed over the prospect as many of my high tariff friends are. And when I say this I think that they are entirely honest in their apprehensions. I think the country will adjust itself to the changed conditions and that if the right sort of currency and loan laws are passed the country will prosper.

AS TO EDITORIAL FRANKS.

Editor Mail and Breeze—I notice in last week's issue of the Thomas Tribune, a paper published in our county, the following concerning an editors' convention:

LIBERAL CONCESSION.

The Pioneer Telephone and Telegraph company, which operates in Oklahoma and other western states, being a branch of the Bell telephone system, treated the editors royally at the press convention in Bartlesville last week. A free long distance telephone booth was placed at the disposal of the visiting editors, who were enabled to talk home or elsewhere in the state without a cent's charge. Their liberality was heartily appreciated by the scribes, inasmuch as this is the first time that a wholesale frank of this sort was ever given west of the Mississippi river.

What does this show to the public? It teaches me that it was done to poison the press or feed them some soft dope that would cause them to keep good while they robbed the public in general.

Who paid the bill of this "wholesale frank" as the Thomas Tribune editor calls it? Why, the people paid it. The Pioneer Telephone company is a public corporation the same as a railroad and it has no right to grant special franks to anyone at the public's expense.

I am not a knocker, only I cannot help noticing such a bold affair as this when they are continually before the state corporation commission trying to put up the plea that they are being imposed upon by the state in regulating their fees, which is now in the nature of highway robbery.

I would like to know just what you think about it.

Clinton, Okla.

I am opposed to special privileges to editors or any other class of citizens, but more especially to editors. When an editor accepts a special privilege from any public service corporation he weakens himself and his influence. We may talk all we please about favors being granted merely as a matter of common courtesy, but the truth is that you cannot accept a favor without to a certain extent incurring an obligation to return the favor. Even when a friend gives you a present out of a feeling of friendship, not demanding or expecting anything in return, you still feel that you are under obligation to show in some way your appreciation and give him something in return for what he has given you.

In the case of friends in their private capacity this is all right and entirely proper, but in the case of a public service corporation the editor especially ought not to be handicapped by any obligation. He ought to be in a situation where he can deal fairly and impartially with the corporation, commending

where commendation is justified and criticizing where criticism is needed, without having it thrown in his teeth that he is an ingrate; that he accepted valuable favors from the corporation that he is now trying to injure.

Probably the giving of the telephone franks to the editors will not have much effect on the regulation of the telephone company in Oklahoma, but the principle is wrong.

A QUESTION OF GRAMMAR.

Editor Mail and Breeze—I have a kick. On the front page of the issue of the Mail and Breeze of May 17 is the picture of a cow and beneath the picture in large letters she is proclaimed to be "One of the World's Seven Best Jerseys." We hire school ma'ams out in the district schools and they labor hard to teach our youngsters the proper use of the superlative, trying to make it plain to them that there can be but one best and here, in large type, you announce that there are seven best. The small boy who has a great deal of confidence in the Mail and Breeze and also likes the school ma'am is up against a hard proposition.

Marietta, Kan.

While it is not a matter of vital importance, it would probably be better to say "one of the best seven." There might be seven Jerseys that would be equally good, or at least so near it that judges would be incapable of distinguishing between them so far as their general excellence is concerned.

A CALIFORNIAN'S OPINION OF THE JAPANESE.

Editor Mail and Breeze—You have hit the Jap question squarely on the head. Like yourself I knew nothing of the Japs until nearly four years ago. I came here from good old Brown county, Kansas, not from choice but necessity, with an invalid wife. As long as she lived I could do nothing but observe. California is made up of all the nations of the earth and in my judgment the Jap outdistances them all in nearly everything they undertake. On one side of me there is a Jap colony, and all around it is every other nationality, and from appearances the Jap colony is an oasis in a desert. They are industrious, cleanly, courteous, obliging, attend strictly to their own business, and never have any trouble among themselves. The women are very modest and retiring and always they and their children are clean. My own children have been associated with them in school for three years and I ask for no better associates for them.

I have been inquiring of the old residents why this law should be passed and every one has answered, "I don't know." So I am unable to give you any light on it. But there is a graft somewhere, for, be it known, the native son is a born grafter, it comes as natural to him as a hog sticking his head in a pail of milk.

What do you think of a governor who says in a public speech, "That if the people do not like the laws that are passed and have the nerve to use the recall, and circulate a petition, he is willing to abide by that decision?" Am sorry to take so much of your time but am so full it slopped over.

Livingston, Calif.

The foregoing letter is interesting because it is from a man who is on the ground and able to take a fair and impartial view of the situation. I imagine there are hundreds of thousands of people in California who feel just the same way about it as Mr. Jeffries but who, perhaps, lack the courage to say so.

GARNER'S GOAT.

Occasionally even the dry tariff discussion is enlivened in a way that makes it fairly good reading for the ordinary plain common citizen.

The tariff bill as it passed the lower house put wool on the free list but at the behest of the Democratic goat raisers of Texas a 10 per cent duty was left on goat hair, which manifest inconsistency moved Congressman J. Hampton Moore of Pennsylvania to spring the following bit of original verse on the house during his speech on the tariff bill:

Of all the creatures in the land
Of pedigrees supremely grand,
There's none that does respect command
Like Garner's goat, of Texas.

The modest sheep may browse around
From Maine way out to Puget Sound,
But they don't count a cent a pound
With Garner's goat of Texas.

The noble steer may be of use
If freed from tyrant trust abuse;
But even that would be the deuce
To Garner's goat of Texas.

If you want wool, the wool is fair;
If you want hair, the wool is hair;
If you want meat, the meat is there;
That's Garner's goat of Texas.

Oh, wondrous breed of Lone Star state;
Premier of wool and hair, thy rate
Of ten per cent is truly great—
Thou Garner's goat of Texas.

It is called Garner's goat because Congressman Garner of Texas is the leading champion of the Texas goat and succeeded in getting the duty on goat hair put into the bill.

The national sin of America is splurge. We are foolishly extravagant, both individually and collectively. We need to return to that primitive simplicity when a man was not afraid to admit he was poor.
—ARTHUR CAPPER.

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 that persists in running out after every passerby. A good way to cure the habit is to put a strap about the dog's neck, fasten a short, light chain to this strap and a ring about 6 inches in diameter to the end of this chain. The chain should be long enough to just about reach the dog's hind feet. He can get about all right but will not run after a team more than once or twice.

Covert, Kan.

Saving Time in Shocking

Mr. Editor—When I have a field of grain surrounded by a hedge or fence, I start the binder by first cutting once around close to the fence. The bundles are thrown into the field and I have them carried under the fence. Then the field is ready to begin on and the shocker need not carry the bundles a rod or two the first three times around. This plan saves labor and less wheat is tramped into the ground.

Hillsboro, Kan.

D. H. Dyck.

Hog Comfort on Hot Days

Mr. Editor—To keep my hogs comfortable last summer and also free from lice I constructed a cement hog wallow in an excavation scooped out in the form of a wash dish. This wallow is about 18 inches deep at its lowest point. A 2-inch pipe from the tank is used to fill it and Kresol-dip or crude oil put in afterward. This eliminates all trouble with lice. The cement was put in 4 inches thick. In addition to the shade from a small grove this wallow keeps my hogs comfortable in the warmest weather.

Burrton, Kan.

Harry Leclerc.

Dust Furrows Stop Chinch Bugs

Mr. Editor—My plan of keeping chinch bugs from going into a cornfield after wheat ripens, is to plow two furrows next to the corn on the side the bugs are coming from. I make the furrows with a breaking plow, going through each twice to make them deep. When the bugs begin to tumble into the furrows I take a log and with a chain drag it up and down the furrows. This mashes a great many bugs and also produces a deep dust over which few bugs can cross.

Sarcovie, Mo.

T. Palmer.

Holding Moisture For Corn

Mr. Editor—I find a good way to hold moisture in corn ground is to follow the cultivator with a harrow or drag of some kind. This keeps the soil pulverized on the surface and levels up the ridges and furrows left by the cultivator. One would be surprised how much moisture is lost from a field where the ground is left thrown up as the cultivator leaves it. The wind quickly dries out the ridges and saps the moisture from as far down as the air can readily penetrate.

Minco, Okla.

L. D. Ward.

Bermuda Grass For Kansas

Mr. Editor—The only thing against growing Bermuda grass in Kansas is its inability to winterkill. It is a southern grass and there is a point, north of which it will not grow successfully. That point has not yet been determined and cannot be except by trial. But the territory of Bermuda's usefulness is being extended northward each year as the grass becomes acclimated.

When a dry summer is followed by a cold winter part of the Bermuda grass will winterkill. That which remains will be hardier and by selection Kansas farmers will some day be able to have large pastures of this grass which is acknowledged to be the best pasture crop in Oklahoma.

To those who would try Bermuda, the first caution is to use only good roots. It is improved by careful selection just as are corn or livestock. There is as great a difference between the different kinds of Bermuda as there is between the bronco and the imported horse.

One should set nothing but yearling roots. Bermuda will adapt itself to any kind of soil. For overflow land it has no equal. It will live under water for two weeks. If covered by sediment 18 inches deep it will grow through and spread itself luxuriantly over the new land.

On the poorest sandy land Bermuda will grow and catch all the blowing soil. The grass is a heavy feeder and the roots will penetrate the soil as much as 7 feet, forming a dense network near the surface.

We have 100 acres of this grass and it is the most profitable crop we raise. Our mules graze on it in summer and through the winter they have Kafir. These mules never kick for a mule with Bermuda and Kafir to eat has no kick coming. In a general way we say that 1 acre of this grass will support two cows. It is as rich, ton for ton, as bran.

F. A. Mitchell.

Chandler, Okla.

[A large patch of Bermuda grass is growing in the southwest angle of the State house grounds at Topeka. The roots were set out in the late spring of 1912, a light mulching of manure and straw was placed over the patch during the fall and the grass did not suffer from winter killing. It has made a strong, durable sod, as is the way of Bermuda, and being a coarse, stolon kind of grass, is kept mowed. It makes a good lawn grass when kept clipped. Where a few roots here and there in a stand survive the winter, the grass soon reestablishes itself, as it spreads quickly.—Ed.]

How to Get the Big Horse

Mr. Editor—The type of horse best suited to our local needs is the large horse, to my notion. The thing to do is to breed to the best sires, for even then we shall get enough small horses. To work our land properly and grow the kind of crops we must have, we need bigger horses to furnish power. At Norfolk, Neb., the commercial club imported several carloads of Belgian mares and sold them to farmers at cost. Then the club imported some stallions for use on these mares, at a nominal fee. We have no commercial club to do this but as farmers we can co-operate and breed for a certain type best suited to our needs.

Greenleaf, Kan.

Anton Peterson.

Summer Shelter For Hogs

Mr. Editor—For a comfortable hog shed in summer I selected an open place away from other buildings and hedges. Posts were set and boards

nailed on all except the north side; the other three sides were left open 2 feet at the bottom. The shed should not be more than about 4½ feet high. I prefer a covering of hay for a roof. Such a shed will keep hogs comfortable on the hottest days without water in which to wallow.

To rid hogs of lice I drive them into a corner where they must stand close together and sprinkle them thoroughly with some good stock dip. I use an ordinary sprinkling can. The hogs will rub up against one another and little of the dip will be wasted. Bedding of fine cane hay will also help rid hogs of lice.

Seibert, Colo.

J. C. Love.

What Hurt the Wheat Crop

Mr. Editor—There has been much speculation as to what hurt our wheat prospect in southern Kansas and northern Oklahoma. It has been out from 25 to 75 per cent. Some fields will scarcely be worth harvesting, while other fields adjoining with nothing but a furrow to divide them, now look good for 20 to 25 bushels an acre. Why is it?

Many farmers lay it to the chinch bug, but in my opinion it is due to two things, the lay and character of the land and soil fertility. On land that is flat with gumbo subsoil, no amount of tillage or fertilizing would have prevented this loss. On a good loamy, well drained soil, the damage could have been prevented by proper tillage. But this remedial process of tillage cannot all be applied in one season any more than you can grow a colt into a full grown horse in one season by extra feed. In the first place our soil needs fertilizing. This may be done either with barnyard manure, rotation of crops or summer fallow, and it will take at least three years by either method to bring a state of fertility that will put Kansas where she should be in wheat yield.

The direct cause of the damage this year was the low fertility of the soil. Consequently we had a weak plant pushed too far ahead for the time of year by an extraordinarily mild winter and altogether too much moisture during and up to about March 25, then a 3 to 4-inch rain which flooded and laid on all flat land for from 48 to 60 hours, and, in places, for a week or 10 days. This condition was immediately followed by seven or eight days of warm, windy weather which took all the moisture out of the soil for 2 or 3 inches down. Then came the finishing touch—two days of July temperature, ranging from 90 to 95 in the shade (and there was very little wheat growing in

the shade) which literally cooked our wheat prospect, reducing it from 100 per cent to about 65 per cent.

Cowley county, Kansas. D. W. S.

Silage Without a Silo in Texas

That good silage can be made from sorghums or other forage crops without even so much as a shed over and around it, to say nothing of airtight walls, is declared possible by H. A. Halbert of Coleman, Tex. H. P. Fisher, Provident City, Tex., sends the Mail and Breeze a clipping from Mr. Halbert's local paper giving his experience in making silage this way last season:

"I have made as good silage in the open air as was ever prepared in Coleman county. It was out of sorghum and was done more by accident than design. I had succeeded in raising a good oat and sorghum crop on the same piece of land, and I wanted to show that I could get the benefit of three crops off the same land the same year by planting a crop of wheat and grazing it the same fall. To do this I had to get the sorghum off the ground before it was cured. I hauled and ricked it in my feed lot in one large stack, so it would turn water. It began to heat and became so hot you could not run your hand in the stack and keep it there. All the stack except about a foot on the outer edge cooked from a dark brown to a black color and became very tender and succulent. My stock devoured it greedily and would not let a vestige of it go to waste."

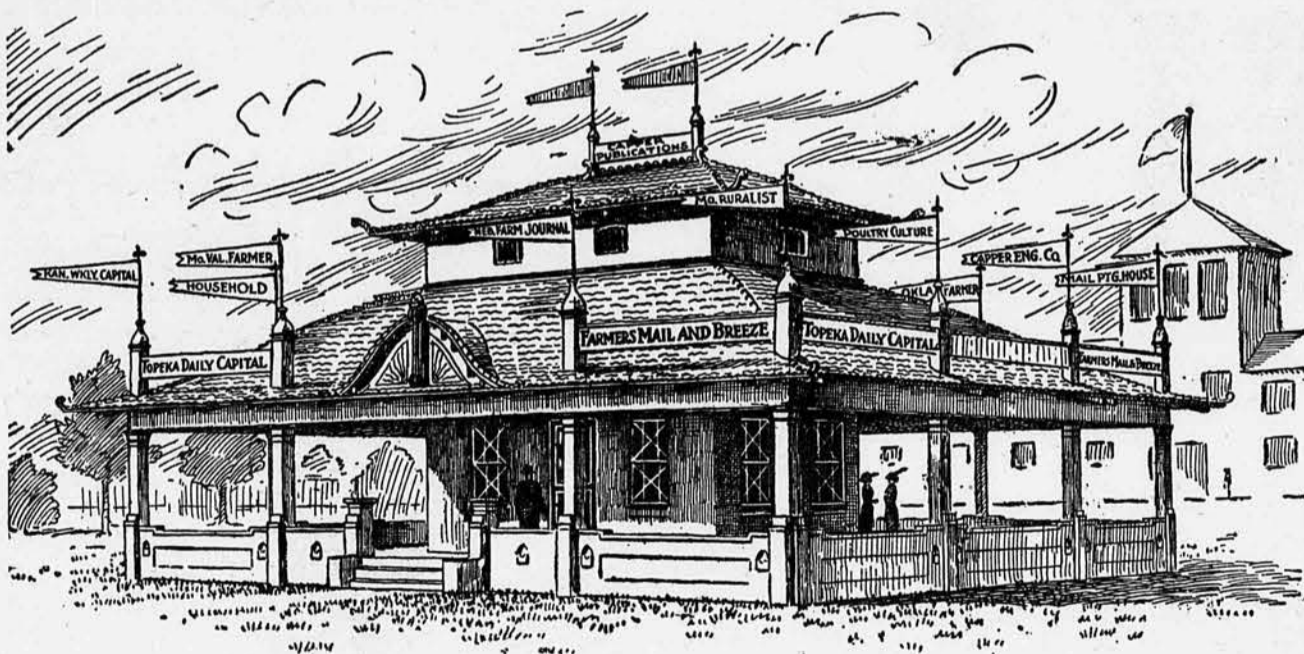
Mr. Halbert's experience is interesting, but since a small leakage of air in an ordinary silo spoils the silage exposed, it is difficult to understand how this waste was avoided when the forage was stacked in the open air. In sections more humid than western Texas, Mr. Halbert suggests the forage be stacked in a shed or other building.

Gas For Cooking on the Farm

Mr. Editor—Cooking fuel and illuminating gas from calcium carbide can be made at home, and thus give the rural home another of the modern conveniences. The machine for making this gas is rather small and can be placed in the corner of the cellar, or in some outbuilding. It is a combination of generator and pressure tank. The gas gives a very hot blue flame when used for cooking, and a white light when used for illumination. The machine must be charged about once a month. The number of machines in use justify the claims of the companies regarding their success.

F. G. Person.

Colorado Station, Ft. Collins.



A Resting and Meeting Place for Mail and Breeze Folks at Topeka State Fair.

Mail and Breeze folks who visit the next State Fair at Topeka, September 8-12 of this year, will find a new building provided especially for their comfort and convenience by Arthur Capper. It is to be a handsome pavilion of the modified pergola type, with widespread porches on all four sides. Its dimensions will be 49 by 38 feet, width of porches 12 feet, walls will be of hollow

tiling, door and window frames of steel, floors of cement, and the exterior finished in stucco, making it fireproof. Check rooms for baggage and separate toilet rooms for men and women will be provided, and the building and porches will be lighted at night with electricity. The new structure is to cost \$3,000 and be completed before the opening date of the fair. It is to be permanent and

take the place of the Mail and Breeze tent, which has proved inadequate. The pavilion's central position, on a triangular piece of ground overlooking the main exhibition and the buildings housing the stock, poultry and agricultural exhibits, will make it a convenient resting place for the readers of the Mail and Breeze during fair time. The names of the various Capper publications will appear on the building.

Cattle Shortage of Millions

Also a Heavy Decrease in Meats

WITH fewer beef cattle in the country by 15½ million head than were here six years ago and a population steadily increasing at the rate of a million a year, it looks as if the man with cattle, hogs or sheep need not worry about overtaking the demand of his market.

It is the grain belt's opportunity to get back into livestock and the feeding game, its rational business, but the getting back must necessarily be slow with the country facing a general scarcity of foundation stock as well as of meat animals.

There was a largely increased importation of cattle by the United States in 1912, the number being 325,717 as against 252,413 in 1911, and 211,230 in 1910. These animals were nearly all brought over the Mexican border for feeding purposes. They help a little, though not very much, in our beef supply.

The department of agriculture at Washington, finds a shrinkage of nearly one-third of the total supply of beef cattle in the United States has occurred in the last six years.

For the first three months of this year a decrease of more than 13 percent in the number of animals killed under inspection is reported from packing centers as compared with the same months last year. These decreases are: Cattle, 158,289 head; calves, 59,475; hogs, 1,263,667; sheep, 603,742; total, 2,085,173 head.

The beef cattle in the country on January 1, 1907, numbered 51,566,000. At the beginning of the present year the total had decreased to 36,303,000.

The year 1912 was a year of high prices for all classes of food animals. The average price of native steers at Chicago for 1912 was \$7.95, as against \$6.50 for 1911, or an increase of 22.31 percent, while the advance in range steers was still greater, being 31.58 percent. The average price of hogs in 1912

at the same market was \$7.55, as against \$6.70 for 1911, an increase of 12.69 percent. The average increase for sheep was 15.19 percent and 20.34 percent for lambs.

When prices of livestock rule high, as was the case in 1910, there is a natural tendency for farmers to rush everything salable to market, including immature animals and, worst of all, breeding animals. This inevitably brings about a future shortage, and the country suffers from alternate periods of comparative and real stringency, while producers often lose heavily through the instability of prices.

There has also been a great increase in the price of corn and other feeds, which has made cattle feeding a risky and expensive undertaking. For a considerable time prices were unsatisfactory from the feeder's standpoint. For these various reasons cattle raising went into disfavor, and the present greatly restricted supply is the result.

We no longer have a surplus for export. Our once great trade with England in cattle and fresh beef has disappeared, and the only considerable items now shipped to foreign markets are bacon, hams, and lard. England is now drawing its imported beef supply mostly from Argentina. The number of cattle in Argentina showed a decrease at the last census as compared with the preceding one in 1908.

The time has come when we must conserve our meat supply and take steps to increase it, and at the present remunerative prices for food animals it is probable that this will be gradually accomplished. Farmers in the grain belt should take advantage of the situation to develop cattle feeding under the present favorable conditions. The South has great possibilities as a cattle-raising country, but must await the extermination of the cattle ticks. Fortunately, this is being rapidly accomplished.

Two Good Catch Crops

Seeding Cowpeas or Rape After Grain

BY L. E. CALL, Farm Crops Department, K. S. A. C.
Written for Farmers Mail and Breeze.

IT IS usually possible to remove oats or wheat from the field by July 15, in sufficient time to sow rape or cowpeas for fall pasture or green manuring. By this practice, the fields are not only kept free from weeds but a valuable crop produced.



L. E. Call.

When the stubble fields are mellow and clean, a suitable seedbed may be prepared by double disking the stubble. Rape should be sown broadcast 5 pounds to the acre, and the seed covered with a harrow. Dwarf Essex is the best variety. If cowpeas are to be sown they should be drilled in with a common grain drill, setting the drill to sow wheat at the rate of 2 bushels an acre. This will sow the peas at the rate of 1 bushel per acre. When the stubble fields are not clean and mellow, it will pay to plow before seeding. The plowing should be shallow—not to exceed 3½ inches in depth—and should be followed with a harrow to firm the soil. Rape may be sown upon the plowed ground before harrowing if the soil is not too lumpy, but in most cases an additional harrowing will pay.

A Corn Planter Saves Seed.

With a little additional labor, three-fourths of the seed may be saved by planting cowpeas in rows with a corn planter. The 16-cell edge drop planter plate should be used. The notches in the plate should be filed to make the cells as large as possible. The planter should be adjusted to drop the seed every 2 or 3 inches in the row. When planted in this way the peas should be cultivated two or three times. This method has the advantage over broadcasting of saving seed and of giving a ranker growth of peas in dry seasons. The New

Era cowpea is the best variety to sow for late pasture or green manuring.

Both rape and cowpeas make excellent pasture for sheep and hogs. Whether these crops should be pastured or plowed under for green manuring will depend on the farming practiced. Upon a livestock farm where manure is plentiful, the greatest returns will undoubtedly come from pasturing. On soils not receiving manure it may prove more profitable to plow the entire crop under.

Cowpeas Preferred To Rape.

For green manuring, the crop should be plowed under before frost. When plowed at this season there is sufficient time for the organic matter to decay, and the fall plowing puts the ground in excellent condition for corn.

While both rape and cowpeas are valuable crops for green manuring, the cowpea is the better, with the additional nitrogen and organic matter added to the soil by the cowpeas, corn planted upon the field the next season grows with increased vigor. In four years' trial at the Kansas Experiment station an average of 9 bushels more corn was grown upon land where cowpeas were sown and plowed under after wheat, than where the weeds were allowed to grow in the stubble.

Manhattan, Kan.

When to Expect Young Stock

Keep careful records of breeding dates of all animals. The average period of gestation for a mare is 338 days, approximately 11 months; cow, 282 days, approximately 7 months; ewe, 146 days, approximately 5 months; sow, 115 days, approximately 3½ months.

The period of "heat" in animals varies greatly, but it generally recurs, when animals are not bred, in from 3 to 4 weeks. The duration of heat is about 2 to 3 days in a mare; cow, 15 to 30 hours; ewe, 2 to 3 days; sow, 1 to 3 days. When the animal is pregnant heat does not recur and there is a tendency to take on fat.



Illustration shows how easy it is to free a single bottom of trash, without disturbing the adjustment of the rest of the plow, while tractor is in motion.

YOU CAN PLOW MORE ACRES

at Smaller Cost with this Light Hart-Parr One-Man Outfit, Than With Any Other

No other plow ("Self-Lift" or otherwise) combines both the automatic and hand-lift features found in the Hart-Parr "Self-Lift." You operate the "Self-Lift" attachment right from the engine platform. Simply pull a rope fastened to the clutch lever, and the bottoms raise or lower automatically. And, unlike all other plows, should an individual bottom of the Hart-Parr clog, it is easily freed. You don't have to disturb the adjustment of the other bottoms. And you don't have to stop, back up or lift the whole plow to clean one bottom, and spend 5 or 10 minutes each time doing it. Simply step onto the plow platform, pull down the

hand lever and let the trash fall off. Then release the lever and the bottom drops into the ground again. It's the work of a few seconds against many minutes compared with others.

In the meantime, the tractor continues on a true course—there is no slack on the steering gear. Moreover, the furrow wheel on the plow keeps the plow right in the furrow, even though the tractor swings a foot or more to either side. Result: straight, even furrows of uniform depth, full field length, and more acres plowed because there are no delays.

You can also plow at smaller cost. This light

HART-PARR

OIL TRACTOR

uses cheapest KEROSENE for fuel at all loads. No other small tractor handles kerosene so successfully.

Incidentally, our wonderful wave form driver lugs make the tractor fit for work any place horses can go.

We'd like to tell you more about this Real One-Man Outfit, and make you acquainted with Superior Hart-Parr Service.

Write for Circulars and Literature on Power Farming Costs

HART-PARR COMPANY

234 Lawler Street

CHARLES CITY, IOWA

Write for this Free Book and grow rich Baling Hay!

Stacks of ready cash waiting any man of fair intelligence! For baled hay brings fancy prices. And every grower in your district will pay you handsomely to bale his.

Yes, here's the very business for you—for your boys! "Net profits per day \$18 to \$22" write Swartz & Mensch, Dixon, Ill. Scores now making \$200 to \$300 clear profit monthly! And these men are their own boss.

You, too, can earn independence. You, too, can start with small capital and soon pay us from your profits. But you must have the

Sandwich (money maker) Motor Press

Each year hay press buyers are more careful. They demand better machines with bigger tonnage. Yet each year Sandwich sales have gone ahead—by leaps and bounds. For under every working test, the Sandwich beats all ordinary presses 2 to 8 tons daily. 25 tons are an every day job for the Sandwich, and 30 to 40 if you hustle.

Gas Engine on Same Truck

This combination makes the Sandwich Solid Steel Motor Press the most complete hay baling outfit in existence. You can't wear it out and it doesn't break down. The heavy steel roller driving chain does away with slipping belts—with their dangers and delays.

Gas Engine is high grade, hopper cooled

type, gear driven magneto, 4, 6, 8 or 10 horsepower—and develops more than rated.

Simple Time-Tried Self Feeder

Rises high up out of the way of the operator and will stand hard crowding. The motion is slow, steady, sure and strong. And rain or shine the bales come out slick, clean and solid—from 1 to 2 a minute. It's great for windrow work.

Write for "Tons Tell"—now FREE

This surprising book—free to those who are wide-awake—tells you the enormous profits waiting the touch of your hand. What hundreds like you are doing—you can do. So write for it today.

Can Stop Instantly

2½ to 3½ tons per hour



Solid steel Coupled up short

Sandwich Mfg. Co., 180 A St., Sandwich, Ill. Box 180, Council Bluffs, Ia. Box 180, Kansas City, Mo.

THE FREEMAN ENSILAGE CUTTER

Noted for its exceptionally clean cutting, smooth, fast running and its saving of power. The 16 inch Freeman gives excellent results with as little as 4 H. P.

Saves Dollars on Power Cost

Traveling force feed table—handles biggest bundles with ease. Most simply constructed, most durable. Large feed rolls, adjustable knives, safety fly wheel, safety stop lever—can be brought to a standstill instantly.

Enclosed Steel Carrier

Non-clogging—no scattering, no waste—single chain, runs light and true. Easily taken apart, easily moved. Fine for individual silos or job work.

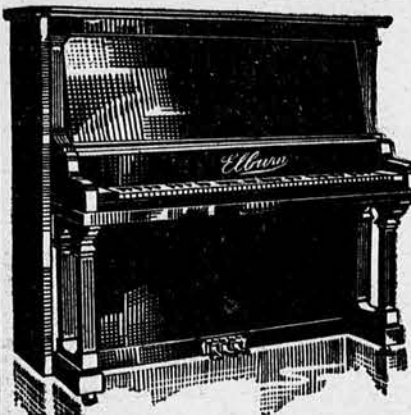
Get Our Free Book

Illustrates and describes our complete line of ensilage machinery—shows all sizes Freeman Feed Cutters, from cheapest hand cutter up. This book will save you money. Write for it today.

THE S. FREEMAN & SONS CO.
215 Michigan St.
RACINE, WISCONSIN.



Dependable Pianos



They Pay!

Dependable Pianos—made by factories of recognized reliability—sold strictly on their merits, and exactly for what they are—and not only warranted by the makers but by Jenkins—that's the way pianos are sold here. Strictly one price—and a popular price—a price that takes advantage of every saving that comes from perfect organization, economical selling methods and a tremendous volume of business—that's the Jenkins way.

Steinway, Vose, Kurtzmann, Elburn

pianos on comfortable payments. Write for catalog and prices—\$125 and up. High class guaranteed Player Pianos \$435 and up. Call or write.

Amarillo, Tex.
Gentlemen—Received the piano today. Got it in first class shape and think it is finest tone I ever heard. I know I have the best piano in Amarillo. I am well pleased with it. Thanking you for past favors,
T. B. BURTON.

J. W. Jenkins Sons Music Co., Kansas City, Missouri



SECTIONAL CORRUGATED METAL STACK COVERS

SAVE ALL ALFALFA—PAY BIG PROFITS

More economical than barns or sheds. Corrugated sheets are 29 times as strong as plain. Being made in sections, occupies but little space when not in use. Shipped in bundles and takes lowest freight rate. Saves Alfalfa in better shape than if stored in a barn. Made in all sizes. Easy to put on. Will last a life time.

FARMER AGENTS WANTED

Write today for literature and special agents prices to one man in each locality.

THE MARTIN METAL MFG. CO., Dept. C Wichita, Kan.

6 Beautiful Narcissus Silver Tablespoons FREE

To Match Our Teaspoons

Extra Special 20-Day Offer To Mail and Breeze Readers!

Here is a chance for every housewife who reads the Mail and Breeze to secure absolutely free a set of 6 of our famous Narcissus Silver Plated Table Spoons. During the past 5 years we have given away thousands of sets of these beautiful table spoons, but never before have we been in a position to make such an attractive offer as we are now making to the women folks who read the Mail and Breeze.

Owing to our large purchases we have secured a price on these spoons which we believe is about one-fourth the price any local dealer would ask for the same grade of goods.

We have searched through the silver plate markets of the world and have never been able to find, at anything near the same cost, goods of such remarkable wearing qualities and of such beautiful design as this justly famous Narcissus set.

Full Standard Length and Weight

These are not small sized dessert spoons which are usually offered as premiums. These spoons are all full standard table spoon size, 8 1/4 inches long—handle 5 1/4 inches long, bowl 3 inches long and 1 1/4 inches wide. They are silver plated and handsomely engraved and embossed in the beautiful Narcissus design, same as the Narcissus teaspoons which we have been giving away for more than two years. Bowl is highly polished and the handle finished in the popular French gray style. The Narcissus design extends the full length of the handle on both sides. The gray finish of the handle contrasts with the bright polished bowl and produces an effect that is decidedly pleasing.

We could send you hundreds of enthusiastic letters from those of our readers who have received these spoons on other offers we have made in the past. We know they will please you, too—and if they don't you can send them back within 5 days and we will cheerfully refund every penny of your money.

Here Is Our Offer:

For the next 20 days, or as long as our supply lasts, we will give one set of 6 Narcissus Table Spoons free and postpaid to all who fill out the coupon printed below and send \$2 to pay for a three-year new, renewal or extension subscription to Farmers Mail and Breeze.

We will send one set free and postpaid for three one-year subscriptions to the Mail and Breeze at our regular rate of \$1 per year. One of these subscriptions may be your own renewal, but the other two must be new subscriptions.

If you want to be sure of securing one of these beautiful sets before our offer is withdrawn clip out the coupon and send it in today. Address

FARMERS MAIL AND BREEZE, TOPEKA, KANSAS.

Use This Coupon Now!

Publisher Mail and Breeze, Topeka, Kansas.

I am enclosing herewith \$2 to pay in advance for a three-year subscription to Farmers Mail and Breeze. You are to send me as a free premium, postpaid, one set of 6 full size Narcissus Silver Plated Table Spoons.

This is a (new) (renewal) (extension) subscription.

Name.....

Address.....

(If you send 3 one-year subscriptions use a separate sheet of paper for the 3 names.)

JAYHAWKER-FARM DOIN'S



BY H. O. HATCH, GRIDLEY, KANSAS.

We like to get the experiences, views and opinions of "our folks" on any farm or livestock subject particularly if seasonable and likely to help some of us who may need the information. Your letters are always welcome. Subscriptions to Farmers Mail and Breeze or other good publications for best letters received. Address Editor Farmers Mail and Breeze, Topeka, Kan.

Practically all the corn in this locality has been plowed once and some of the largest has been gone over twice. At this writing, June 1, it all looks well and is clean. With enough summer rain we should have a good crop.

We notice a number of the farmers in going over their listed corn the second time are using shovel cultivators and filling the furrows up pretty well. It is our opinion that this is a mistake. We think it better not to fill the furrows much until the corn is larger.

A friend of ours who has farmed a good deal in western Nebraska says, whatever you do to your corn, do not fill lister ditches with dry dirt. He asserts that it is far better not to fill the ditches at all than to fill them up with dry dirt. Wait, he says, until the ground is moist and then whoop the dirt to the corn.

We thank the friends who answered the question about galvanized roofing for hen houses. All are against using it for this purpose. They say it is too hot in summer and too cold in winter. One writes the heat is the great objection and that he has been in his iron-covered hen house after the sun had set and it was so hot he could hardly stay there.

Another suggests using the galvanized roofing and then lining the house with lumber. This would work in a cold climate but not here. Such a lining would furnish just the finest place for mites imaginable. So we shall not try the roofing on the new hen house but will use shingles instead. For all other roofs on the smaller farm buildings we like the galvanized roofing.

Iron roofing has this excellent feature, it forms almost a perfect protection against lightning 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 abandoned lumber or shingles for barn roofs, especially when the barns are 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 opinion of a concrete hen house, the roosts to be of iron and imbedded in the concrete as the house is built. We think it would be too clammy, too juglike, for comfort. While such a house would make it easy to fight mites and lice, we think the faults of this manner of building would more than balance the good features. A poultry house needs plenty of ventilation and we fear it would be hard 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 deep down here. There is some plowing done here deeper than that but 5 inches is fully as deep as the ground is ever stirred on the average upland farm in this locality and it is a question if the average is not a little shallower than this. We have a heavy soil, underlaid in many places with a hard impervious clay. Some call it hardpan and some gumbo, but our state drainage engineer told us it was not exactly either but was a form of heavy, sticky clay. It's almost impossible to plow this and there is not much use to try turning it up, either. On looser, lighter soils it would be easier to plow 7 inches deep than to plow the 5 inches we plow here.

This same friend says that of all ways of putting in corn in his section he prefers to fall plow and then to list this plowing in the spring. This also is a good way to raise corn here, especially in the dry seasons we have been having of late. There is one feature of this way of putting in corn that many of us would like to hear more about and it is,

how to handle a field covered with heavy stalks which is to be winter plowed and then listed the next spring. Of course it would be better to cut the stalks as fine as possible but even then they bother a great deal. Is it better to plow such ground deeply in the fall or to plow shallow and let the lister run below the plowing? It is not a good plan to list too deeply here. Would it be better to plow such a stalk field in the fall to list in the spring, or to let it stand until the next spring, then disk twice and list?

Our friend, E. A. Wood, of Manchester, Okla., writes to his local paper that northern grown seed potatoes show up pretty poorly this year compared with the seed raised at home. The stand where the northern grown seed was used is poor and the growth scanty compared with that produced by the Oklahoma seed. The same thing holds good here this year; in fact, it did last year. Our potatoes are all from home-grown seed except six rows. The home-grown rows are fine and there is a good stand, every potato grew. Of the northern seed about half grew and the vines, at this writing, are just half as big as those from the home seed. If this sort of thing continues the famous northern grown seed will get a blackeye down here.

This suggests a question: Is this northern grown seed kept in cold storage until its vitality is injured? Something certainly is done to it. It may be the stock heats on the way and perhaps they are dug when too green and too many piled up together. However, the seed we had bore all the appearance of having been lightly touched by a freeze and we guessed it might have been kept in cold storage and the temperature been allowed to run a little too low. At any rate, if northern potato growers wish to hold their southern seed market they will have to do better or we shall be compelled to stick to home grown seed exclusively.

PUT AWAY PICKLES

Mathematician Figures Out the Food Question.

If anyone requires a clear head it is a teacher of mathematics. He must reason in the abstract as it were, and full concentration of mind is necessary if correct results are to be forthcoming.

An Ohio man writes:

"I am a teacher of mathematics and for 15 years prior to four years ago, I either took a lunch composed of cold sandwiches, pickles, etc., to school or hurried home and quickly ate a hot dinner.

"The result was that I went to my afternoon work feeling heavy, dull of brain and generally out of sorts. Finally I learned about Grape-Nuts food and began to use it for my noon-day lunch.

"From the first I experienced a great change for the better. The heavy, unpleasant feeling and sour stomach caused by the former diet disappeared. The drowsy languor and disinclination to work soon gave way to a brightness and vim in my afternoon work, a feeling entirely new to me.

"My brain responds promptly to the requirements put upon it, and what is of more importance, the results have been lasting and more satisfactory, the longer I have used Grape-Nuts as a food.

"My wife had been suffering from weak stomach accompanied by sick headaches nearly all her life. She is invariably relieved of these when she sticks to Grape-Nuts, either eaten dry or with milk. Her stomach has gradually grown stronger and her headaches less frequent since she began to eat Grape-Nuts."—"There's a Reason." Name given by Postum Co., Battle Creek, Mich. Read the booklet, "The Road to Wellville," in pkgs.

Ever read the above letter? A new one appears from time to time. They are genuine, true and full of human interest.

What Pump-Irrigating Costs

Facts For the Prospective Irrigator

BY H. B. WALKER

Irrigation Engineer Kansas Agricultural College.

Editor's Note.—Many men in western Kansas want to know what it will cost to install and operate a pumping plant in the region of the underflow. A noteworthy paper on this subject was presented by H. B. Walker at the meeting of the Kansas Dry-Farming association held at Garden City last week and is presented here in abridged form. It gives prospective irrigators a good basis from which to figure out their own projects.

REPORTS from Kansas pumping plants indicate the cost of raising an acre foot of water 1 foot high ranges from 2 to 6 cents, the average cost being about 4 cents. Under average conditions on our uplands, where the pumping heads average about 150 feet, even the lowest cost of operation (which is 2 cents) would make water per acre foot cost \$3, and it might exceed twice this amount. Where water is secured at about 30 feet, the cost is not to exceed one-fifth as much. The farmers in the shallow water areas have a decided advantage over upland farmers.



H. B. Walker.

Irrigation in Kansas is in its infancy. Its future depends upon the success of the existing plants as well as the new

may prove the most expensive because of low efficiency.

Internal combustion engines, burning the lower grades of oil are proving the most economical. Engines with a little extra horsepower should be selected preferably of the stationary type, permanently housed in a substantial building. Centrifugal pumps have earned a splendid reputation and are more generally used than any other.

For pumping heads of 50 feet or less, the ordinary types of single stage pumps are best.

The single stage horizontal side suction pumps are preferred for the shallow water districts where a battery of wells is pumped.

For deeper pumping, a vertical type is being used successfully.

For depths exceeding 50 feet two stage and multi-stage turbine centrifugal pumps are coming into favor. The turbine type of centrifugal pump is now used extensively for pumping heads up to 200 feet. This type seems especially adapted to deep wells of small diameter, and the most satisfactory results are secured when the pump is directly connected to a motor.

The simpler type of plunger pump is not being used to any great extent, except for windmills. In the extremely deep well areas, pumps of this character could be used to great advantage in connection with garden irrigation.

Correct application of water is even more important than the pumping with



Corner of an irrigated farm near Garden City, in the shallow well district of Finney county. Irrigation farming is extensive farming on a few acres, usually, not to exceed 80 acres, under the most favorable circumstances.

projects. This will require slow, careful work at first, but in the end will mean profitable farming and a permanent development of our pumping areas. It is not enough to demonstrate we can raise water from the underflow by means of pumping, we must make it pay.

There can be no question of the practicability of small irrigation plants. The windmill or a small gasoline engine can draw water from the underflow and if the water is properly applied and conserved, the results cannot be other than satisfactory. Dry-farming with irrigation as a side line must be practiced in the high prairies. In the valleys, irrigation farming along dry-farming lines should predominate.

Just how high we can afford to lift water is hard to determine. A great deal depends upon the quality of the soil, the crops produced, accessibility to market, efficiency of pumping machinery, and above all, the man who tills the soil. For irrigating ordinary field crops, it is doubtful if pumping heads greatly exceeding 80 feet can be operated successfully. Where sugar beets, vegetables and small fruits are grown, higher pumping heads may be profitable.

The first cost of complete pumping plants varies from \$50 to \$150 a horsepower required. Only first-class machinery of standard make should be installed. In the western third of the state the plants of highest cost show lowest expense of operation, due to the better grade of machinery properly installed and adjusted. A cheap plant

water costing from \$150 an acre foot upward. Under average conditions, 1½ to 3 acre feet of water are required annually. Ordinarily upland soils do not need as much water in a season as the sandier lands in the valley, yet some of these are so devoid of humus that they quickly crust-bake and become hard under irrigation.

A large amount of irrigation water is lost by evaporation, seepage, and deep percolation. To reduce this loss to a minimum, the lateral ditches must be properly located and the fields carefully leveled and checked.

In many instances, the distribution of the water is carelessly handled. This is one mistake inexperienced irrigators invariably make. It results in reduced profits besides having a discouraging effect upon future development. With irrigation we must have correct cultivation. It is extravagance to permit the soil to bake after water has been applied. Frequent cultivation often saves an irrigation and helps to eliminate the evils following the too liberal use of water.

Winter irrigation should be practiced by every pumping plant operator. Moisture can be stored in the ground at that season with little loss through evaporation, and used the following spring for spring crops. Winter irrigation of alfalfa is proving very satisfactory and permits a greater use of the pumping plant during the year.

The shallow water valleys afford the

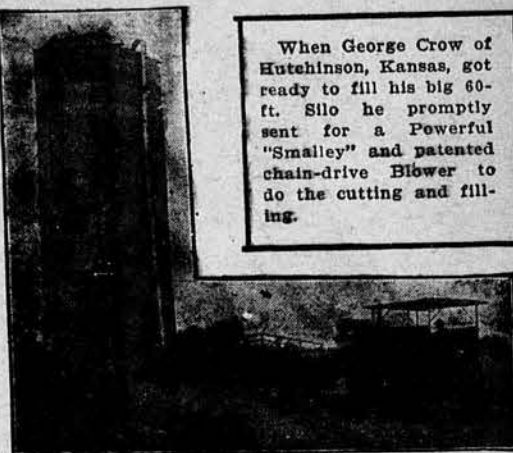
(Continued on Page 24.)

See the Smalley Cutter

In Action!

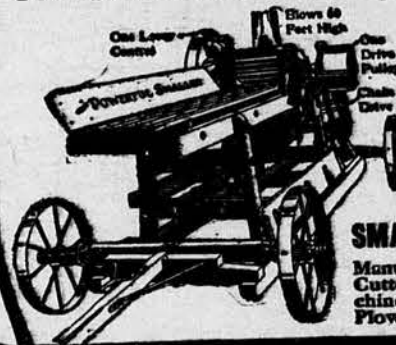
If you want to see a real show, just watch this Powerful Smalley "cutup." See it take fodder by the ton and cut it into small, fine pieces, shoot it into a giant silo 60 feet high. Some improvement over the old slat-apron Cutter that requires an army of workmen to feed it, and balks when it comes to filling a tall silo.

Four-fifths of all Silos are now filled by Smalley machines.



Filling a Mammoth, 60-foot Silo on George Crow's Farm, near Hutchinson, Kas.

The Powerful Smalley Force-Feed Silage Cutter



is a regular "haws" for work. Makes no difference whether you have green or dry ensilage—or whether it's corn, oats, peas or alfalfa. Now furnished with Alfalfa Grinding Screen if wanted (for making alfalfa meal).

Only one drive pulley on Blower outfits. No Idler to bother with. Ten per cent steel guaranteed in all foundry castings. No oiling by hand—hard oil cups on all important bearings.

Get a post card quick and send for Smalley's new big illustrated Catalog, Finest Silage Cutter Book ever printed, yet absolutely free. Write now for it.

SMALLEY MFG. CO., Box 143 Manitowoc, Wis.

Manufacturers of Ensilage, Alfalfa and Hand Feed Cutters. Combination Ensilage and Snapping Machines, Drag and Circular Saw Machines, Champion Flows, Cob Grinders and Feed Mills. (71)

Stack Hay the SUNFLOWER Way!

Save half the time and expense putting up Alfalfa, Clover, Timothy, etc. The automatic SUNFLOWER stacker pays for itself in three weeks. Driver always has easy and complete control in guiding, elevating and dumping. A 16-year-old can handle it. The only stacker guided by a rudder and not by the horses.

The SUNFLOWER loads from the windrow and automatically elevates and dumps load anywhere on a 20-foot high stack. Lowers without backing from stack; works from either side or end of stack. Will not break down in front, nor tip up behind. Simplest in construction, strongest and easiest to operate.

Write immediately and let us submit proof of every claim we make. We are ready to show a big saving. Just drop us a postal card and say "show me" on the stacker proposition.

SUNFLOWER stackers are sold and guaranteed by the factory direct to you. Write today.

SUNFLOWER MFG. CO.
919 Fremont, Manhattan, Kan.



SAVES
\$10
A
DAY

Make Your Own Electric Light!

After two years of experimenting and actual operating tests we are ready to furnish simple, dependable electric lighting plants for farm use. You can now make your own electric light for the house, barn, outbuildings and yard with a complete, easily operated electric lighting plant, guaranteed by Sears, Roebuck and Co. You can now have every lighting convenience enjoyed by city people. There need be no more poor light on your farm. Make your home attractive, make reading and sewing a pleasure, light up every dark corner by installing one of the

Complete Private Plants, Perfected and Guaranteed by Sears, Roebuck and Co.

Our plants are simple, easy to install, easy to operate and care for, reliable and economical. If your present method of lighting isn't what it should be, investigate our complete private plants.

We have a new book which goes into detail, explains the advantages of making your own electric light, tells all about the styles and sizes of our plants and quotes prices that save you many dollars on the right outfit for your needs. Our book is easy to understand and is illustrated throughout.

Write us a postal today. Ask for our new Electric Lighting Plant Catalog No. 85M73. Address

Sears, Roebuck and Co.
Chicago, Ill.

"BLUNDERS OF A BASHFUL MAN"

You will laugh, you will yell, you will scream at THE BLUNDERS OF A BASHFUL MAN, as told in the world's champion funny book. It banishes care and by its laughter-compelling mirth and irresistible humor rejuvenates the whole body. In this screamingly funny volume the reader follows with rapt attention and hilarious delight the mishaps, mortifications, confusions and agonizing mental and physical distresses of a self-conscious, hyper-sensitive, appallingly bashful young man, in a succession of astounding accidents and ludicrous predicaments, that convulse the reader with cyclonic laughter, causing him to hold both sides for fear of exploding from an excess of uproarious merriment.

The World's Funniest
Fun Book

FREE

FREE OFFER This funniest of all funny books will be sent you absolutely free, by mail, postpaid, upon receipt of only 25 cents to pay for one new, renewal or extension subscription to our big home and news weekly. Address at once, **WEEKLY CAPITAL, Dept. F. B. 10, TOPEKA, KAN.**



Over 600,000
Wearers



LAST year 646,448 people bought this famous shoe, because it is better than any other medium-priced shoe in existence.

It is the "Our Family" shoe, and it is made in several styles—all sizes for men, boys, women and children.

It is honestly made of good leather, with sole leather heels, counters and soles. No substitutes for leather are ever used.

The "Our Family" is a "Star Brand" shoe. This means that it is better than other shoes of the same kind at the same price.

The "Star Brand" merchant has an "Our Family" shoe cut up so you can see how it is made. Ask to see it.

ROBERTS, JOHNSON & RAND
Manufacturers, Branch of International Shoe Co., St. Louis



BEATRICE

the Money-Making Separator. Differs from high-priced separators in price. Differs from low-priced separators in quality. Really in a class by itself. The Beatrice is the separator that is washed perfectly by mechanical means in two minutes. It has the good points of all, the drawbacks of none, and exclusive features of its own. Get our Separator books if you would get posted. The Beatrice backs up every claim we make. We back up the Beatrice. Ask your dealer. Write us if your dealer does not handle it.

THE CONTINENTAL CREAMERY CO.
Topeka, Kan., Oklahoma City, Okla.

Save \$25. to \$40.

The Jayhawk
HAYING TOOLS.
MADE OF
Wood or Galvanized Steel

Send for Free Catalog
F. WYATT MFG. CO.
Salina, Kan.
106
N. 5th
Street.

Also a full line of implements on which we can save you money. Write for Big Free Bargain Book.

Leidigh's Answers TO FARM QUESTIONS

Conducted for Farmers Mail and Breeze by
A. H. Leidigh, Department of Farm
Crops, Kansas Agricultural College.

Vetch Is An Uncertain Crop.

I should like to know something about vetches for winter pasture. Is it good for all stock all winter?—C. L. J., Westville, Okla.

We do not consider vetch a practical or profitable crop in Kansas. The seed is expensive and the crop is uncertain. While it makes good yields some years, there will be other seasons when practically no crop is obtained at all.

There are several kinds of vetches. Usually we have the best results from the Hairy or winter vetch. It should be sown here at about the rate of 1 bushel an acre. The U. S. department of agriculture recently issued an excellent bulletin on vetch, which you may obtain free by writing to the department for it. A. H. Leidigh.

What Mammoth Clover Crop for Seed?

I have some very rank Mammoth red clover growing on bottom land. Can I cut a hay crop and then get a seed crop? It is the prevailing supposition in this locality that Mammoth clover seeds the first crop.—R. H., Neosho county, Kansas.

The usual practice with Mammoth red clover in the north, is either to pasture it or crop back the first crop, until about the middle of June. This would correspond to the present time here. This practice retards the crop and makes it come on all at one time. The crop which comes on after this clipping, or pasturing, is saved for seed. If it is too late to do this with you, I judge it is probably all right to save your first crop for seed. Mammoth red clover produces seed in abundance on the first crop and you will find after this crop is harvested, there will be only a small growth the remainder of the season.

Farmers frequently go by the rule, that if 25 heads, selected at random from the field, contain 25 to 30 seeds each, it will probably pay to save the crop for seed. It is said where 53 seeds are contained in a head, the yield is 8 bushels, while 23 seeds in a head yield only 2 bushels. A. H. Leidigh.

Grasses for Fall Sown Pasture?

I have a pasture I wish to sow to brome grass, orchard grass, alfalfa, and White clover this fall. Have any readers of the Mail and Breeze had trouble getting the grass to withstand the winter and the hot sun, before cold weather sets in? My experience with such grasses is they do best when heavily shaded. Is it necessary to add ½ bushel of wheat to the acre? How late can these grasses be safely sown to withstand the winter?—C. L. B., Jefferson county, Kansas.

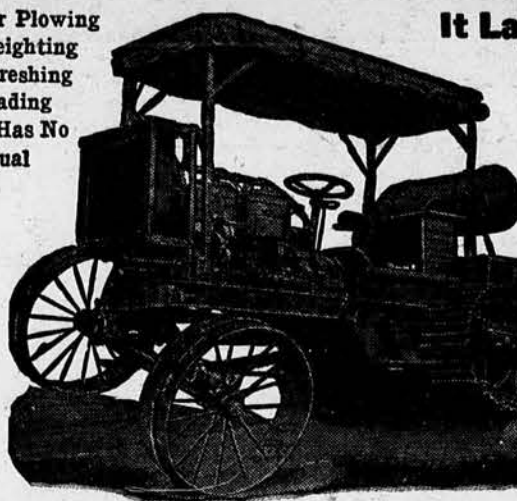
I am asking to have mailed you, under separate cover, our Bulletin No. 175 on grasses and clover.

Ordinarily, such a mixture must be sown during the latter part of August. This is too early for best results with wheat, but if you wait until wheat sowing time, it will then be too late for best results with alfalfa or White clover. Wheat, or any other nurse crop, is probably of little value, on account of shading the plants. The protection the nurse crop gives from washing and from wind is frequently quite beneficial. The thing you particularly need, is a well cultivated, but firm, well settled seedbed. Such preparation will give you a field free from weeds and in excellent condition as to moisture. A. H. Leidigh.

Tongue Trucks Are Horse Savers

We do not know whether any grain binders now are sold without tongue trucks. They ought not to be, for the tongue truck is the greatest horse saver ever put on a harvesting machine. There is no neck weight, no pulling the machine around the corners by main strength, no sidedraft on the horses, and it gives plenty of room to use an evener permitting four horses to work abreast. With the tongue truck the weight is distributed on four wheels instead of two and for this reason the binder can be used on wet ground a full day sooner if equipped with tongue trucks. The cost, when bought with the machine, is about \$12 extra, but it is worth twice \$12 to the horses alone during any long harvest.

For Plowing
Freighting
Threshing
Grading
It Has No
Equal



It Lays Its Own Track
The
**Creeping
Grip
Tractor**

Good Roads
Rough or
Swampy
Ground
Are Alike
To This
Powerful
Tractor.
It Will Go
Anywhere

Motor Operated with Kerosene, Distillate or Gasoline

The "Creeping Grip" delivers at the draw bar in pounds pull a greater percentage of the power generated by the motor than any other tractor made. Remarkable fuel economy and low cost of up-keep are its strong features. We absolutely guarantee the creeper shoes or tractor bands for the entire life of the machine.

The "Creeping Grip" Tractor has the strongest warranty of any tractor on the market. Three sizes:—40 Brake H. P.—30 Draw Bar H. P.; 60-45 H. P.; 75-55 H. P.

The "Creeping Grip" Tractor makes our customers our friends. Send for catalog and testimonials.

WESTERN IMPLEMENT & MOTOR COMPANY

DEPT. T 5.

DAVENPORT, IA., U. S. A.

Only \$2 Down
One Year to Pay!

\$24 Buys the New Butter-
fly Jr. No. 1. Light running,
easy cleaning, close skim-
ming, durable. Guaranteed
a lifetime. Skims 55 qts.
per hour. Made also in four
larger sizes up to 5 1/2 shown here.
30 Days' Free Trial. Earns its own cost
it saves in cream. Postal brings free cat-
alog folder and "direct-from-factory" offer.
Buy from the manufacturer and save half. (123)
ALBAUGH-DOVER CO. No. 574
2275 Marshall Blvd. CHICAGO

BUTLER Grain Bin
STEEL
Corrugated. Can't Cave In.
Bat-Proof. Fire-Proof.
Can be used for store house.
Capacity increased by addi-
tional sections. Keeps grain
perfectly. Large door and
removable shoveling board.
Ask for booklet showing let-
ters from satisfied users.
BUTLER MANUFACTURING CO.
1204 W. Tenth Street, Kansas City, Mo.

Save \$35 to \$50

Yes sir, I'll save you \$35 to \$50
in the first cost alone on the best, most modern,
most sanitary and closest skimming cream
separator ever built. When you buy the

New Galloway Sanitary
—you pay just one small profit above
actual cost of materials and labor. Why pay
any dealer \$85 to \$110 for an inferior ma-
chine. Buy direct and save one-half. Get my
Special 1913 Offer and
90 Days FREE TRIAL
test of this machine right on your farm.
The new Galloway Sanitary skims to a trace, gears
run in oil—easy to run—easy to clean. Sold direct.
Backed by \$25,000 bond. Write for new catalog and
special 1913 offer that will help you get your machine
partly or entirely without cost in the end. Write today.
WM. GALLOWAY COMPANY
43 Galloway Station, Waterloo, Ia.

Stud Anchor. For barns, corn cribs,
garages, using concrete wall, pier or
floor. No sills needed, nothing to
rot. Studs bolted to foundation.
Stud Anchor Works, Mendota, Ill.

**This is the Strong,
Tough, Heavily
Reinforced Wall**

---That Can't Crack, Shrink, Dry
Out or Crumble---that is Absolute-
ly Air Tight---Moisture Proof and
Trouble Proof---of the tested

**PERFECTION
METAL SILO**

Easy to Erect. No Cutting or Fitting. Interchange-
able Sections Bolted Flange to Flange with Square
Head Bolts. NO EXPERIMENTS. SEVEN YEARS
in use—Proved and Perfect. Heavy Double Flange
Formed on Each Section WITHOUT JOINT OR
WELD. No Rivets. No Holes Through Silo Wall.
Forms Rigid Reinforcement Around the Silo every
Two Feet. Vertical reinforcement every
seven feet. Proof against all Strains
and Big Pressure of Sweating Sil-
age. Absolutely Rigid against
Wind. Paid-Up Insurance Against
Tornadoes or Cyclones.

5 Year Guarantee

See the PROOFS.
Read what Farmers Say.
Learn what the Perfection
Silo means to YOU.

Get the Big New Silo Book—

"Turning Cornstalks Into Cash." written by
farmers. Full of Dollars and Cents informa-
tion—FREE. Send today—don't wait. Address
on postal card.

Perfection Metal Silo Company

Original and Sole Manufacturers,
205 Mulvane Building, Topeka, Kansas.

NOTE—This is the Silo Chosen by Men of Experience





Dairy Farming

CONDUCTED FOR FARMERS MAIL AND BREEZE BY A. G. KITTELL.

This department aims to be a free-for-all experience exchange for our folks who keep milk cows. We are glad to hear from you often. A Mail and Breeze subscription and other prizes awarded each week for helpful or interesting letters or bits of dairy news.

Milk separated when cold means that much less cream.

A little buttermilk not worked out turns butter rancid early.

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

Wire strainers get only part of the dirt. Several thicknesses of cheesecloth are better.

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

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

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

When not diluted with water buttermilk has practically the same food value for pigs and chickens as skim milk.

I give my cows a good feed of hay, grain, or both before turning them on any rank growing crop and have never had them come down with bloat.—J. M. C., Burlingame, Kan.

Plugs made of gutta percha or hardwood and inserted in the teat openings of hard milkers often prove beneficial. The plugs must be perfectly smooth and should be scalded every time before they are inserted, to prevent infection.

Students See the Linscott Herd.

The class in advanced dairy judging at Kansas Agricultural college was the guest of R. J. Linscott at his Jersey farm near Holton, Jackson county, a recent Saturday. Prof. O. E. Reed and J. B. Fitch of the dairy department accompanied the party. Mr. Linscott had invited several neighboring Jersey enthusiasts to his farm and the visit was turned into a Jersey picnic. After an elaborate dinner prepared by Mrs. Linscott, the cattle were led out and the students spent the afternoon in placing and scoring the cattle.

The Linscott herd is noted for its excellence, the cows are making creditable records in yearly tests and the students were glad to have an opportunity to study the cattle.

Trouble With Foamy Cream.

What causes cream to foam and how may it be avoided or stopped?—C. H. W., Cowley county, Kansas.

Foamy cream is believed to be due to a yeasty substance which gets into the cream and produces a gas. How the yeast gets there is not definitely known but it may be through dirt or by way of unsalted cans. Tests at cream stations prove foaming will not occur when the temperature of the cream is kept below 70 degrees. Frequent stirring of foamy cream to let out the gas, is beneficial. Cream shippers often put from 3 to 5 pounds of pure ice into each can of cream to stop the foaming. Cans in which foaming has begun should not be more than two-thirds full for shipping. The losses from foaming cream are chiefly mechanical. When properly handled a good quality of butter may be made from such cream.

German Remedy for Calf Scours.

[Prize Letter.]

Mr. Editor—Here is a remedy for calf scours I have used successfully: Give 15 grains salicylic acid and 15 grains tannin in a lukewarm solution of 1 pint camomile tea, as a drench. If results are not favorable repeat the drench in a

few hours, doubling the dose. If the calf is sucking the cow, or if it is getting whole milk altogether, omit two meals and in the meantime give the cow 30 grains of salicylic acid in her feed. If the case has been neglected and colic and a low temperature are present, indicated by cold ears, as well as uneasiness, give the calf 10 drops of laudanum with the drench first mentioned. These remedies have been used in Germany with success. I have found the remedy more effective in giving small doses of tannin and salicylic acid, about 3 grains, in the milk as soon as there is the slightest indication of scours.

R. 4, Garnett, Kan. M. Grosskopf.

Some Summer Dairy Topics

Cow keeping is much simpler in summer than in winter and yet there are many ways of managing that will bring the same or better results with far less time and expense. During the busy season there is not much opportunity for writing letters but there will be a rainy day sooner or later, besides, the average man or woman who has something to say will not need more than 10 or 15 minutes to jot it down. So we are asking the readers of this page to lend a hand and give the brethren the benefit of their experiences. By way of inducement, every letter received during the month of June, good enough to print, will draw a year's subscription to the Mail and Breeze. Here are some suggested topics:

The forehanded dairyman is now preparing to put in soiling crops to be cut and fed green when pastures get short in late summer. A good time to do this planting is right after harvest when the grain has been taken off. What crop have you found best for this purpose?

How do you keep dairy products in summer where ice is not available? Plans of milk houses, milk tanks, or schemes for hanging butter and cream in wells or special pits may be included. Making good butter in summer is a knack not easily mastered. Suggestions on "the how" of this art, from those who are qualified to speak, will be welcome.

We would like in particular to hear from any reader who has used either the prepared fly dopes or a preparation of his own mixing that does the work. Report results.

Remedies for calf scours, bloat, or any other of the common ailments that may be controlled by home treatment, will be acceptable.

Is anyone using an engine or other form of mechanical power to operate the separator? Suggestions on keeping the machine in good running order also will be helpful.

By what means may a farmer in ordinary circumstances best improve on the kind of cows he keeps? If your herd is producing well, give your own experience.

What is your plan of caring for and feeding calves in hot weather to get them into good condition for winter or to get the most profit out of them in the market, as the case may be?

Wants the Paper, Anyway.

Mr. Editor—As I have been a retired farmer for several years I did not intend to continue the Mail and Breeze, but as I am well pleased with the Mail and Breeze, and was extra well pleased with Mr. Capper's address on Kansas Schools, I send check for another year. Fairview, Kan. John Witschy.

Four Big Papers For \$1.10

The Mail and Breeze is enabled to make the biggest clubbing offer it has ever had, and for only \$1.10 will send all four of the following papers for one year each:

THE MAIL AND BREEZE of which nothing need be told our own subscribers or those reading this copy of the paper. It speaks for itself.

THE HOUSEHOLD, a large family magazine, containing the choicest stories and departments of particular interest to lady readers.

THE KANSAS WEEKLY CAPITAL, the oldest and best weekly newspaper in the entire Southwest.

THE MISSOURI VALLEY FARMER, a big monthly farm and agricultural paper which should be read by every farmer. No liquor advertising is printed in any of these papers.

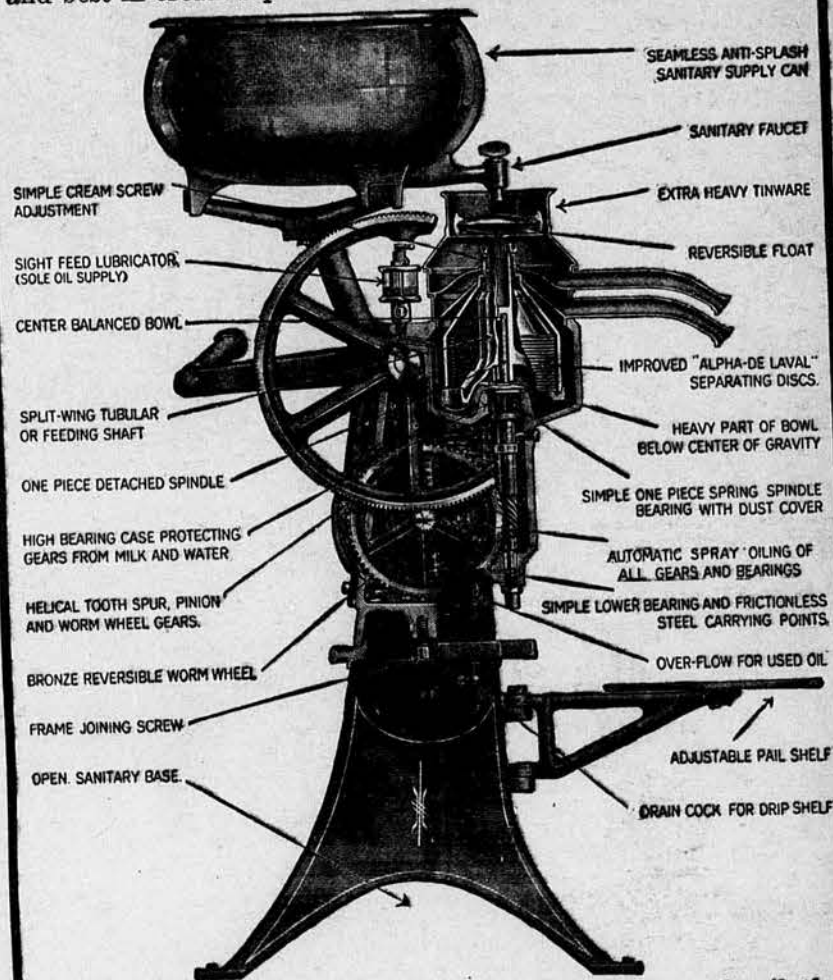
Remember, all four of these big papers will be sent to one address or to four different addresses if so desired for only \$1.10. If you are a subscriber to any one of these papers your time will be advanced another year. You will be supplied with the best class of reading matter for a full year. Don't fail to mention the names of these papers in sending in your order. Send your order to the

DE LAVAL

The Best Constructed Cream Separator

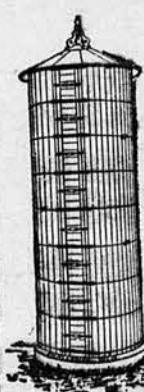
EVERY year the superiority of the De Laval over all other cream separators becomes greater. Every year the De Laval offers separator buyers a better machine than the year before.

Note the improved features of the latest De Laval machines as shown in the illustration below, representing the very latest and best in cream separator design and construction.



The new De Laval catalog just out explains in detail the advantages of De Laval design and construction and why the De Laval is superior to all other cream separators. It will be mailed free upon request to nearest office.

THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE



Challenge Silos WHY?

Best for your money. Anchors (both top and bottom.) Inside Braces. Steel bound door opening. Doors can't bind; always in place. True and Smooth inside. No steel parts in contact with feed. Lumber: The best to be had. Catalogue No. 60 FREE. CHALLENGE COMPANY, 127 River St., BATAVIA, ILLINOIS.



New Silo Book FREE

It's full of valuable information for every farmer and stock raiser. Tells all about the special and exclusive features of the famous

INDIANA SILO Twenty-Five Thousand in use. Write and learn why it is best and cheapest and get our New Silo Book Free. INDIANA SILO COMPANY Distributors, Pease Building, Chicago. The largest makers of Silos in the world. Address nearest factory: 279 Union Bldg., Anderson, Ind. ** Indiana Bldg., Des Moines, Ia. ** Silo Bldg., Kansas City, Mo.



Champion Silos For Big Profits

That's what farmers make who own Champion silos because the silo is perfect in construction. It's ahead of others in improvements and is sold at factory prices on our special proposition. Valuable Information Free. Get it before you buy. Find out what other farmers are doing. Get proof that Champion silos are bigger value for the money than any other. WESTERN SILO CO., 155 6th St., Des Moines, Ia.



WE SELL THE BEST MILKING MACHINE

made. One man can milk 25 cows an hour. 20,000 cows are milked daily with the Hman milkers. Practical for the small dairyman as well as the large. Easily installed and at small expense. Write for information or see my outfit at work. Agents wanted. H. F. MEILLER, MINNEAPOLIS, KANSAS

BINDER TWINE

Special price to Farmers' Organizations and in car lots. Quick shipment. Farmer Agents Wanted. AUGUST POST MOULTON, IOWA

Organs, \$15 to \$30. Highest Grade

Estey, Mason & Hamlin, Story & Clark, Kimball, C. Cottage & Co., Slightly used, like new. Write today. Jenkins Sons Music Co., Kansas City, Mo. Reference, any bank in Kansas City

SONG POEMS WANTED

WE WANT IN SUCCESSFUL SONG. Entirely new and UNUSUAL PLAN. Send us your Poems or Melodies. YOU MAY BE ABLE TO WRITE A HIT. PAY EXPENSE UNNECESSARY. Publication GUARANTEED. If acceptable, by the WORLD'S LARGEST, RELIABLE MUSIC PUBLISHER. We pay 50 per cent. NORTON'S MUSICAL MAGAZINE and BEAUTIFULLY ILLUSTRATED BOOK, explaining our BUREAU SEAL PLAN, FREE. Send us your work for FREE ADVICE. NORTON'S MUSIC PUB. CO., 717 1/2 WASHINGTON, D. C.

LET ME LOAN YOU THIS AUTO-FEDAN 30 DAYS FREE



Send for the 3-stroke self-feed Auto-Fedan Hay Press. Take it out in the field; put it to work—use it 30 days. I want to convince you by actual test that it is the best hay press made—that it will save you one-third the labor and from 20% to 30% the expense of any hay press on the market—and I want you to make this test in your own field under every condition. I want to prove to your entire satisfaction—at my expense—that the Auto-Fedan will do as much work and as good work as I claim for it. E. P. ROSS, Pres.

NOTE THESE FEATURES:

It will bale from one-fifth to one-third more hay per hour than any other two-horse hay press made: when baling more hay than three men can operate it and bale more hay than three men can with two-stroke presses: it is a self-feed and absolutely safe; it does not pound nor hammer the hay but presses it into compact layers; it sets low, you pitch directly into the hopper; will bale any kind of hay from the finest to the coarsest; and with its long sweep and short crank arm is the most powerful press made, free from trouble and breakage. Write today for FREE illustrated booklet and rock bottom price list.

AUTO-FEDAN HAY PRESS CO.

1514 W. 12th St.
Kansas City, Mo.
With or Without Engine



SEND FOR MY FREE BOOK.

Save Your Hay When It Rains



Use Canvas Stack Covers, easiest and quickest to adjust, made to last for years. Priced reasonable. Also tents and awnings.
PONCA TENT & AWNING CO., Wichita, Kan.

"Eats Up" the Silage with small power

BLIZZARD ENSILAGE CUTTER

A 40 year success. King of silage cutters. Simplest. Big results with small power. Can't be put together wrong. Self feeder. Almost runs itself. Elevates any height. Perfect, strongest, guaranteed. FREE BOOKS on request. Why Silage Pays, "What Users Say," and 1913 Catalog.

THE JOSEPH DICK MFG. CO.
1456 Tuscarawas St., CANTON, OHIO

RANKIN CULTIVATORS

WHOLESALE PRICE TO FARMERS

6 TYPES

FARM IMPLEMENTS
GASOLINE ENGINES, ETC.

DAVID RANKIN MFG. CO., 85 E. TARKIO, MO. U.S.A.

Shinn Lightning Rods

Are best by test. Recommended by engineers and experts. Used exclusively by many large property owners. Only rod made and sold under a \$15,000 bond.

ASK YOUR DEALER

For Shinn Rods. Don't accept a substitute. Write for catalog and full particulars.

W. C. SHINN, 110 10th St., LINCOLN, NEBRASKA

Law Should Stop Sale of Leg-Strap and Spring Trusses

Wrong To Buy Anything For Rupture Without Getting 60 Days Trial

Depending on leg-strap or spring trusses—like shown below—is little less than slow suicide. They are almost sure to shorten your life. It's next to impossible to make them hold without hurting. —They are simply a curse to wear.



Away With Leg-Strap and Spring Trusses

So far as we know, our guaranteed rupture holder is the only thing of any kind for rupture that you can get on 60 days trial—the only thing we know of good enough to stand such a long and thorough test. It's the famous Cluthe Automatic Massaging Truss—made on an absolutely new principle—has 18 patented features. Self-adjusting. Does away with the misery of wearing belts, leg-straps and springs. Guaranteed to hold at all times—including when you are working, taking a bath, etc. Has cured in case after case that seemed hopeless.

Write for Free Book of Advice—Cloth-bound, 104 pages. Explains the dangers of operation. Shows just what's wrong with elastic and spring trusses, and why drugstore trusses no more be allowed to fit trusses than to perform operations. Exposes the humbug—shows how old-fashioned worthless trusses are sold under false and misleading names. Tells all about the care and attention we give you. Endorsements from over 8000 people, including physicians. Write today—find out how you can prove every word we say by making a 60 day test without risking a penny.

Box 545—Cluthe Co., 125 E. 23rd St., New York City

What Farmers Are Thinking

You are cordially invited to air your opinions in this column; but the Mail and Breeze reserves the right to condense such statements as far as possible to give other contributors a chance to say something. Short, crisp expressions of opinion on matters of interest or consequence to farm folks are welcome. All contributors must take their turn.

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 earnestly placed positive truths, that I feel such an article going into the homes of the Kansas people, cannot help 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 comes to our office.

W. H. Olin,
Director Agricultural Extension Department, Boise, Idaho.

Parents Much to Blame for Vice.

Mr. Editor—Mr. Capper is right in his war on vice. Only the other day I saw two daughters of the elect not over 14 or 15 years old riding astride with a young man. They were wearing those abominable tight skirts. Why have we mothers allowed our daughters to fashion a whole dress out of a yard of muslin? Why have we tolerated the familiarity which now exists in social circles? I have both sons and daughters, but if I let them dress exactly in style, ride astride and loiter in idleness I could not feel that I was innocent should they step aside one time.

Another thing, our girls and boys will continue to go astray just so long

as we fathers and mothers do not explain 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.

A Kansas Mother.

Sharon, Kan.

Hodges's Speedy Good Roads Tour.

Mr. Editor—If the performance in which Governor Hodges participated last Monday, when 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 roads in condition these good roads 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 obeyed is the governor and for him to be a party to that kind of an exhibition will hardly set well with a right thinking man. I know where he gets one less vote if he ever runs again.

Burrton, Kan.

Harry Leclerc.

Mr. Capper's Home Training Article.

Mr. Editor—I want to say I am gratified to see Mr. Capper's article on the home training of young girls, on page 18 of the Mail and Breeze of May 24. He is doing a large amount of good with his publications, especially with the Mail and Breeze. Thomas D. Hubbard

Roseland Farm, Kimball, Kan.

Voiced His Views on White Slavery.

Mr. Editor—How rejoiced I was to read Mr. Capper's words on White Slavery. How I should like to shake hands with him. Please continue, Mr. Capper. You have exactly my views and an excellent opportunity to speak on this. May God help you. A Subscriber.

Gypsum, Kan.

A Puzzle For Mail and Breeze Boys and Girls

THE jolly old king in the picture is giving his gardner a list of things he wants planted. The gardner does not know what kind of a joke the king is playing on him until he finds a key to the king's directions. The solution consists of so dividing the words given, such a "china," "stove" and "yam" in the first of the list, as to spell the name of the vegetable, 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 C; part of the floor would

PLANT A BIT OF CHINA, A LITTLE
STOVE AND ONE THIRD OF A YAM

BURY HALF A PARSON, MOST OF
A SNIPE AND A LITTLE GRASS

SET OUT A LITTLE PIE, SOME
PIEPANS AND MORE PIES

USE PART OF A KNIFE, A BIT
OF PORK AND SOME ACORNS

BURY PART OF SPARROW, A
LITTLE SLATE AND MORE OR
LESS EYES

SOW A BIT OF CORN, WITH
PART OF A HARROW AND SOME
BOOTS

WHAT WAS IT THE KING WANTED PLANTED?

be OR; the end of a barn would be N. Answer, CORN. A set of postcards for each of the 10 neatest solutions received by Saturday, June 28.

To your solution attach your name and address, then mail to Farmers Mail and Breeze, Topeka, Kan., making sure to mark the lower left hand corner of the envelope "Sports" puzzle. ENCLOSE NO OTHER BUSINESS WITH YOUR SOLUTION. Prizes are awarded not only for your skill in solving the puzzle, but for the neatness, originality and general care taken in preparing the answers.

The Silo That Men Want

Silos have been in use long enough for men to know the kind they want. They want STAVE silos. They want silos with heavy steel frames. That's how the Saginaw came to be the favorite. The Saginaw has a Steel Frame—like a modern, big city building. It has the Angle Steel Rib that prevents "cave-ins." It has the All-Steel Inner Anchor and Heavy Malleable Base Anchor which keep the silo on its foundation and perfectly erect. It has Steel Spine-Dowels, which interlock staves and make a solid wall. And the heavy, all-steel Door Frame forms a rugged frame-work to build around. Just remember these facts in buying your silo.

This Whirlwind Filler is a crackerjack. Fast as lightning. Cuts and shreds

perfectly. Knives and cutting head are both adjustable. Can remove knife for grinding in 30 seconds. Runs in 4 wide-angle bearings that hold it absolutely rigid. Heavy cutter head insures uniform cutting, no matter how uneven the feeding. Fan blades can't get loose, because they are part of the wheel. Feed table is just waist-high. Easy-running. It's a marvel at cutting, shredding and elevating silage. Send Postal Now and get Book #1 on Silos or Book #1 on Silo Machinery, or both. They are FREE.

THE MC CLURE COMPANY
(Formerly Farmers Handy Wagon Co.)
Saginaw, Mich. Cairo, Ill. Des Moines, Iowa
Minnesota Transfer, Minn. Fort Worth, Texas



**Make \$4.00 to \$8.00 More Per
Acre From Your Alfalfa, Clover,
Flax, Vetch, Peas, Short Grain, etc.**

Don't knock off the seed and leaves with a rake or tedder. Equip your mower with a

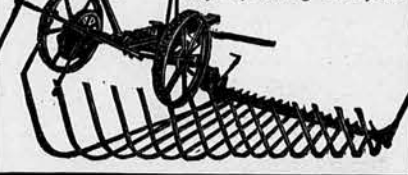
"THORNBURGH" SIDE-DELIVERY BUNCHER and WINDROWER

Saves all the seed and leaves and half the labor. Does away with extra trips over the field with dump-rake, side-delivery-rake and tedder. Crop is deposited to side out of the way of mower and team on next round and is left in loose hollow bunches or windrows, heads and leaves in center and the stems, which hold the sap, sticking out.

NO BLEACHING—CURES QUICKER—FITS ANY MOWER. NO SEED OR LEAVES WASTED

If you are not one of the 100,000 satisfied users write today for free catalog and give your dealer's name.

The Thornburgh Mfg. Co.
Dept. S, Bowling Green, Ohio



Lightning Protection

SAVE 1/2

Direct to User by Mail

Get your own buildings, "Made Right" Lightning Cable is pure soft copper and extra heavy. Shipped on Trial Freight Prepaid With Complete Directions, Foot

8 1/2 C.

System guaranteed satisfactory or goods returned at our expense. Write today for catalog.

IOWA LIGHTNING ROD CO. OF DES MOINES, I.A. 813 Mulberry St.

Are You Organizing a Band?

Do you need an instrument? If so, write for our catalog and second hand list. We will save you at least one-half. Good cornets \$7, other instruments same proportion.

All standard makes. NEEDLES MUSIC COMPANY, 132 N. Main St., Wichita, Kan.

BRASS and STRINGED Instruments

Would you like to know about violins, cornets, drums, clarinets, or any other kind of brass, wood, wind, reed or stringed instrument. No matter whether you want a band, orchestra, solo or home use instrument, we have the biggest line in the West. In fact our line is so large we have to publish many different catalogues. We will send you catalog, free, of any particular instrument you are interested in. Write today and be sure to name what instrument you want catalog of.

Jenkins Music House, 6 Jenkins Block, Kansas City, Mo.

Running Water

in House and Barn at even temperature Winter or Summer at Small Cost.

Send Postal for New Water Supply Plan. It will bring you 100 pictures of it in actual use. Do it Now.

Aermotor Co., 1144 S. Campbell Ave., Chicago

Aermotor Co., 20 and Madison Streets, Oakland, Cal.

I have taken the Mail and Breeze for two years and find great pleasure in reading it.—Jess Ellis, Capital Hill, Oklahoma City, Okla.



Poultry Keeping

CONDUCTED FOR FARMERS MAIL AND BREEZE BY REESE V. HICKS, PREST. AMERICAN POULTRY ASSOCIATION.

We want you to talk chicken with us. Good short letters on poultry matters especially welcome. A year's subscription to Farmers Mail and Breeze is awarded each week for the most helpful bit of poultry experience, and for second and third best contributions subscriptions to other useful publications.

Plenty of shade for yarded flocks now is required.

To make ducklings or goslings thrive they must have plenty of green feed.

For the fence flying habit, try clipping the larger feathers off one wing.

Filth and vermin are great profit killers, and yet are not difficult to handle.

Wet food sours quickly these days if not cleaned up after each feeding time.

Going to roost with a well filled crop puts a chick on the right road to quick gains.

After dumping out the nesting material, strike a match to it and give the nest box a good smoking out.

Smooth, movable perches are appreciated by the poultry keeper during the lice season, even more so by the birds.

Because it is a busy time of year we are apt to let fries go beyond the most profitable age. A weight of 2 or 2½ pounds brings the top price.

One of the chief safeguards of the health of the flock at this time of year is to change the drinking water frequently.

For the Chicken Eating Sow.

Mr. Editor—If E. L. B. of Franklin county, will cut a piece of leather about 5 by 7 inches in size, and attach it to the ears of his chicken-eating sow she will catch few chickens unless the pen is very small. The leather will be more effective if it can be cut larger at first than the size mentioned. I never knew this scheme to fail.—J. R. Kelso, R. 2, Wichita, Kan.

Mr. Editor—Let F. L. B. cut a piece of No. 11 or 12 wire, about a foot long and insert it into the sow's nose as he would a ring. Twist the ends to-

Dressmaking Lessons Free

Complete Illustrated Course of Lessons Given to Women Readers of This Paper for a Short Time Only.

We have just published in one large volume one of the most valuable and most comprehensive courses of instruction in home dressmaking ever written. This course of lessons covers practically every phase of the subject of dressmaking. It tells you how to make most every garment, from the simplest house apron to the most elaborate evening gown.

This valuable book, "Every Woman Her Own Dressmaker," will be found of great assistance to beginners as well as experienced dressmakers. You can turn to this book and find a satisfactory answer to practically every dressmaking question which might come up. It illustrates and fully describes 200 very latest styles for ladies and children. It gives valuable instructions on fitting and finishing—instruction needed by every woman. Here are some of the interesting subjects taught in these lessons:

- How to sponge and shrink wool goods.
- How to shrink wash materials.
- How to make a tailored coat at home.
- How to make a plain shirt waist by the newest and easiest method.
- How to make a boned lining.
- How to make stylish suits, skirts, waists, dresses and dressing saques.
- How to make wrappers, kimonos and underclothes.
- How to make children's coats and school clothes.
- How to make baby clothes, long and short.

We are giving these valuable dressmaking books away absolutely free just to introduce our popular publication. Send us your name and address at once, together with 4 cents in stamps to cover mailing expense, and secure one of these valuable books before the offer is withdrawn. Address ARTHUR CAPPER COMPANY, Dept. DM-11, Topeka, Kansas.

gether and leave them hanging down. They must be long enough so the sow will have to back up before she can get her nose to the ground. With this wire on she will not be apt to make more than one rash move toward a chicken. Jennings, Okla. W. K. Miller.

Suggestions For the Season.

Mr. Editor—I always put a shovelful of sod in the bottom of the sitting hens' nests.

I mark the eggs for hatching by putting on the date they were put under the hen.

I save all egg shells from the kitchen in summer to feed the laying hens in fall and winter.

I always plant enough beets and other root crops to supply the flock's need of this kind of feed next winter. Sayre, Okla. A. L. W.

Poultry Association for Americus.

A poultry association has been organized by the breeders of fancy poultry at Americus, Kan. J. W. Swartz is president, J. C. Lehmer, vice president, N. H. Landis secretary, C. F. Sutton assistant secretary. The association started off with a large membership and is expected to have a beneficial effect in promoting the poultry industry in Lyon county.

Combine on the Chicken Thief.

This is the time of year the chicken thief is busy. Perhaps there is nothing more exasperating to farm folks than sneak thievery of poultry. Editor W. C. Palmer, of the Jewell Republican offers a suggestion to poultry owners which has merit:

Chicken thieves in Smith county are taking young fries by the wagon load. We would like to see Jewell county poultry people give these gents a warm reception this year. Raise a fund and put it in the hands of chosen men. When there has been a raid, say nothing to anybody else, and keep everybody off the premises, but have these chosen men telephone to Concordia for the bloodhounds and have them brought in motor cars. They could be on the trail in two hours and before much travel had hit the road. Keep this fund constantly in readiness. It would be bold chicken thieves that would go up against a proposition of this kind, and if they tried it they wouldn't go very far. Chicken stealing is now a penitentiary offense in Kansas and it can be absolutely stopped if the poultry raisers undertake the job in earnest.

Home Mixed Lice Powder.

[Prize Letter.]

Mr. Editor—An effective and inexpensive lice powder may be made of 8 parts gasoline, 1 part crude carbolic acid, and enough plaster of paris stirred in to make a thick, moist mixture. Spread this out in a rather warm room so the surplus gasoline may evaporate. The next day the powder will be ready to use. It must be kept away from the fire. Give the birds a good dusting with a sifter-top can. Follow with a second application in a few days, and a third, if necessary. I keep the house thoroughly clean, whitewashing the walls with a sprayer that makes the wash penetrate all cracks and crevices. A good disinfectant is made of 3 parts kerosene and 1 part crude carbolic acid, which I frequently apply to walls, floors, nests and roosts, with a sprayer. It should be well stirred just before using. Herington, Kan. Mrs. D. B. S.

Sent Him the Mail and Breeze.

Extract from Mail and Breeze letter, dated April 15, 1913:

This subscriber wanted to get a first class

Reliable Poultry Breeders

FARMERS MAIL AND BREEZE POULTRY RATE.

The rate for advertising under the "Reliable Poultry Breeders" column is 5c per word each time for 1, 2 or 3 insertions and 4½c per word each time for four or more insertions.

HOUDANS.

HOUDANS, world's greatest winter layers. Eggs \$1.25 per 15. Lee Biglin, Alta Vista, Kan.

WYANDOTTES.

WHITE WYANDOTTES exclusively. Eggs, 100 \$4.50, 30 \$1.75. Mrs. Will Beigel, Holton, Kan.

COLUMBIAN WYANDOTTES. Select matings. Eggs, \$2.00 per 15. B. F. Martin, Dodge City, Kan.

SILVER LACED Wyandottes exclusively 16 years a breeder, eggs from choice matings \$2.00 per 15. Utility stock \$1.00 per 15. W. A. Hunter, Manhattan, Kan.

BUFF WYANDOTTES. Prices cut for balance of season. Eggs from all our breeding pens at \$1.50 per 15, \$5.00 per 100. Baby chicks \$1.50 per dozen. Send for mating list. Wheeler and Wyile, Manhattan, Kan.

DUCKS.

ENGLISH RUNNER ducks for sale. Paul Grill, Ellsworth, Kan.

INDIAN RUNNER ducks. Topeka fair winners. Satisfaction guaranteed. Burt White, Burlingame, Kan.

FAWN INDIAN RUNNERS \$5.00 trio. Eggs \$4.00 per 100, \$1.00 per 15. G. W. Skinner, Baxter Springs, Kan.

FAWN and WHITE and brown and white prize winners. Indian Runner duck eggs 15 for \$1.00, 100 for \$5.00. E. O. McKinney, Lafontaine, Kan.

INDIAN RUNNER eggs \$1.00 per 13, \$3 per 50, \$6 per 100. American Standard fawn and white. White eggs. Pearl Wertzberger, Alma, Kan.

RHODE ISLAND REDS.

SINGLE COMB REDS. 100 eggs \$3.50, 30 \$1.25. Mrs. Rosa Janzen, Geneseo, Kan., R. 3.

THOROUGHBRED Single Comb Reds. Eggs, \$1.00 per 15, \$3.00 per 50, \$5.00 per hundred. Florence Williams, Olivet, Kan.

B. C. RHODE ISLAND REDS—Best winter layers. Eggs from high scoring stock \$1.00 per 15, \$5.00 per 100. Mrs. A. J. Nicholson, Manhattan, Kan.

NEOSHO POULTRY YARDS—Rose Comb R. I. Reds. We can sell you stock cheaper at this time of season than any other. J. W. Swartz, Americus, Kan.

ROSE COMB RED eggs from pens mated to roosters costing from \$10.00 to \$30.00. Eggs at sacrifice prices after May 25. 15 eggs \$1.00, 30 eggs \$1.75, and 50 eggs \$2.50. Also a few extra good roosters at \$2.50 and \$5.00 each and good hens at \$1.00 each. W. R. Huston, Americus, Kan.

ORPINGTONS.

SINGLE COMB BUFF ORP. eggs \$5 per 100. Or incubator lots. Flora Watson, Altoona, Kan.

BUFF ORPINGTONS. Eggs half price from fancy and utility. Express paid. Cockereis for sale. Mating list free. August Petersen, Churdan, Ia.

BARGAIN SALE of Orpingtons. S. C. Buff White and Black. 100 breeders and 500 Feb., Mar., Apr. and May hatch chicks from 25 cts. to \$2.00 each. Cook, Owen, Kellerstrass, Haggin strains. Write your wants. Mrs. Daniel Onstott, Moores Hill, Ind.

weekly farm paper and since I was at one time a subscriber to your paper, I felt sure I would be safe in recommending the Mail and Breeze and in taking a subscription for it.

THE MUSKOGEE TIMES-DEMOCRAT. Muskogee, Okla.

I could not get along without the Mail and Breeze. It contains so many practical and useful ideas, as well as valuable information.—W. H. Springfield, Gage, Okla.

Reliable Poultry Breeders

PLYMOUTH ROCKS.

BIG TYPE BARRED ROCKS. Half price now. Duff, Larned, Kan.

BARRED ROCKS exclusively. Eggs, 100 \$4.50, 30 \$1.75. Catherine Beigel, Holton, Kan.

WHITE ROCK baby chicks, 12 cts. each. Incubators going now. Mrs. Geo. Woodworth, Route 2, Lebanon, Kan.

BUFF PLYMOUTH ROCKS—Eggs and baby chicks at reasonable prices. Mrs. Fred Miller, Wakefield, Kan.

PURE BRED BARRED ROCKS; farm raised. Eggs, 15 \$1.00, 30 \$1.50, 100 \$3.50. Mrs. John Yowell, McPherson, Kan.

BARRED PLYMOUTH ROCKS. Eggs 3c each. Baby chicks 20 cents each. Hens 75c. Mrs. J. B. Jones, Abilene, Kan., Box X.

THOMPSON'S "Ringlet" Barred Rocks. Best layers, finely barred. Fifteen eggs \$1, 100 for \$5. Tracy's, Conway Springs, Kan.

BIG TYPE blue Barred Plymouth Rocks. Fine birds, none better. Eggs, 15 \$1.00, 100 \$5.00. Mrs. T. B. Mitchell, McPherson, Kan., R. No. 6.

BARRED ROCKS. 68 premiums, Topeka, Manhattan, Clay Center, Denver. Eggs 15, \$1.25; 60, \$4.00; 100, \$6.00. Stock sale. Mrs. D. M. Gillespie, Clay Center, Kan.

LANGSHANS.

BIG BONED greenish glossy Black Langshan, score 92 to 95 hens \$1 each. Cockereis \$2.50. Eggs 10 cents each. Guaranteed. H. Osterfoss, Hedrick, Iowa.

LEGHORNS.

EGGS from S. C. Brown Leghorns, \$1.00 for 15, \$4.00 per 100. H. N. Holdeman, Meade, Kan.

ROSE COMB BROWN LEGHORN eggs 5c each. \$4.00 per hundred. Tillie Wilkins, Miltonvale, Kan.

PURE BROWN ROSE COMB LEGHORN eggs 3½ cents each; 100 \$3.50. Laura A. Hazen, Hollis, Kan.

EGGS FROM PURE BRED S. C. White Leghorns. \$3.00 per hundred. Extra fine stock. Harry Givens, Madison, Kan.

SINGLE COMB BROWN LEGHORNS. Eggs 75 cts. per setting, 100 \$4.00. Baby chicks 10 cts. Large breed. Mrs. F. M. Rodda, Solomon, Kan.

BUFF COCHINS.

FOR SALE—Buff Cochins of quality. Send for mating catalog. J. C. Baughman, Topeka, Kan.

PIGEONS.

BUNTS—Giant pigeons. Squabs and breeders for sale. L. D. Baker, Woodward, Okla.

PIGEONS—To reduce quickly special prices on fifty pairs fancy Homers and red Carneaux. Lawellin Laizure, 908 Ind. St., Lawrence, Kan.

SEVERAL VARIETIES.

43 VARIETIES, Poultry, Pigeons, Ducks, Geese, Turkeys, Guinea, Incubators, Dogs. Catalogue 4 cents. Missouri Squab Co., Kirkwood, Mo.

ROSE COMB RHODE ISLAND RED eggs. Pen A, \$1.50 per 15; Pen B, \$1.00 per 15; Barred P. Rocks, range stock, 75c per 15; \$4.00 per 100. Light fawn and white Indian Runner ducks \$1.00 per 12. C. J. Woods, Chiles, Miami, Kansas.

FOR SALE OR EXCHANGE for eggs of some large breed of chickens, one 175 egg X-Ray incubator. Brand new. W. C. Simpson, Montoya, N. M.

Poultry Magazine

Big 40 to 80 page illustrated monthly magazine of practical, common sense chicken talk. Tells how to get most in pleasure and profit from poultry raising. 4 months on trial only 10c. Poultry Culture, 800 Jackson, Topeka, Kan.



LICE KILLER Liceall, strongest lice killing compound made. Works like magic. Simply put a few drops in nests and hang bottle in coop. Powerful evaporating vapors go into feathers, cracks and crevices. No painting, spraying or dusting. Easy to use. Circular free. Found bottle prepaid 50c. Money back if it fails. Agents wanted W. H. Metzger Co., No. 3, Quincy, Ill.



Galloway's Famous Pumping Engines

Get My Special Engine and Pump-Jack Combination Offer—NOW! Yes, sir. Do it today. Don't wait a minute. Just sit right down and drop me a postal and say, "Galloway, send me your special pumping engine offer." I am out after the pumping engine business and I am going to get it because I am making the best pumping engine outfit ever made and selling it at a price never before equalled. You can't imagine the number of uses you can put one of these little engines to until you see my Special Pumping Engine catalog. It's something new and different and I have a copy waiting for you, free. Just write me for it without fail today. Don't wait until your windmill blows down or the calm hot days get here when the windmill won't run and you have to toil and sweat pumping water by hand for a lot of live stock. No, sir; don't do it. Be prepared. Get my catalog and special offer. That's the first step. Then—



Wm. Galloway, Pres.

I'll Save You \$25 to \$300

on the first cost alone. I'll save you \$25 to \$50 on the best pumping outfit made. On my larger engines I can save you as high as \$300 and more. Remember, we make engines in sizes from 1 3/4 h. p. up to 15 h. p. and more. My 1 3/4 h. p. air cooled "Little Boss of the Farm" engine sells for only \$24.75.

The same style of engine at your dealers costs from \$45 to an unheard of price. The same style of what buying direct from Galloway means in \$65. Now, that's just a sample of what buying direct from Galloway means in money saved. Get my special pumping engine offer right away. Write today,

FREE Service Department. When it comes to help or information for proper installing to get the most profit out of your engine, just call on my Service Department composed of engine experts. Think of it. I not only save you money right at the start but put at your disposal a corps of experts who will tell you how to install your engine, size pulleys to use with different machines, anything, in fact, you may want to know, and this service don't cost you one cent. It's just another advantage you get when you buy of Galloway.

Here's a final clincher. My 1913 Special Business Proposition. I've got a new plan which will help you get your engine partly or entirely without cost to you in the end. No canvassing, no soliciting, no agent's proposition, for we don't sell through agents—but just a straight business offer. Will give full details when you write me. Send for special pumping catalog—offer—and my new bed rock engine prices. Don't lay this paper down and forget it. Write me now. Address me as below:

Write Today for My Catalog and Special 1913 Business Proposition

Wm. Galloway, Pres., WILLIAM GALLOWAY CO. 45K Galloway Station Waterloo, Iowa

Sold Direct From Factory to Farm

Backed by \$25,000 Bond

30 Days Free Trial

Pump Jack, \$3.95 and Up

Farming in Western Kansas

(Continued from Page 3.)

if practicable. Frequently the stand is poor but it soon reseeds itself and covers the ground. Sweet clover will do well on almost any type of soil, but when first started must have a firm seedbed. The first year's growth is not coarse and stemmy 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 big difference between the white flowered kind and the yellow varieties found growing along roadsides.

In point of attendance this year's dry-farming convention 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 tillage to conserve moisture—were the topics that received most attention. The great scarcity of cattle is everywhere apparent in that once famous cattle country. In an auto trip from Hays to Garden City, Prof. Cochel, of Kansas Agricultural college, estimated he passed 100,000 acres of grass pasture on which he saw not a single steer. Feeder cattle shipped in from Florida this spring are now on pasture near Garden City.

An investigation of market statistics by Prof. Cochel discloses cattle prices have averaged higher for every successive 5-year period since 1885. He cited this fact to refute the argument that there would be a big slump in the market when the country is again restocked with beef cattle.

There is a two-fold need of more livestock in the shortgrass country: First for the income it will bring, and, second, for the benefit to the soil. Constant cropping without returning vegetable matter to the land is proving one of the calamities of western Kansas. The water holding power of such soil has been destroyed by removing the original spongy condition. It "blows" much more freely when its supply of humus is exhausted.

The extent of soil blowing in parts of

western Kansas is almost beyond belief. Perhaps the largest single windswept area is in Thomas county, where a strip of 150 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 desolate sight they had ever seen. Where the wind had a straight sweep the earth was cut away to the subsoil. Fences and buildings had caught the Russian thistles and these in turn had caused the dust and sand to pile up like drifting snow. It was no uncommon sight to see only the tops of fence posts visible, or the trunks of orchard trees buried to the first limbs.

The blowing began in the spring of

\$1,000 was subscribed toward reclaiming the rest of the land in the same manner. At last reports 1,500 acres had been gone over and there was every prospect the venture would turn out as hoped for.

It is natural to ask who or what is to blame for soil blowing in western Kansas. It seems too much native sod was plowed up. Western Kansas would be much better off today if half its soil now under the plow was still as the buffaloes left it. To prevent blowing, Dean W. M. Jardine, of the Experiment station at Manhattan, advises the use of the lister along the edges of fields as soon as drifting begins. The furrows should be run east and west, or at right



Not a scene in Wisconsin or Pennsylvania, but a dairy farm in Finney county, Kansas, with the cows knee deep in alfalfa.

1911, when the dry, crusted surface made conditions ideal for soil drifting. The first effort is now being made to reclaim this land and thereby hang a little tale worth the telling. By way of a demonstration Clyde McKee, farm demonstration agent of the Union Pacific lines, induced one man to list a piece of ground in strips. He listed several rows of corn, then left a blank space, then listed more rows, and so on. In due time corn appeared in the rows and weeds grew on the blank strips, for the listed furrows had stopped the soil drifting. The business men of Colby took the cue and in a short time about

angles to the prevailing winds. The first thing to do to 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 advocates of the dust mulch learned a severe lesson. The use of old friend the disk has been tabooed by the Experiment station authorities for working fallow land or ground waiting to be planted. The tool recommended for this purpose is an alfalfa renovator, which leaves the surface more or less uneven and lumpy.

Through the kindness of the Garden City Industrial club all the visitors 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 plowing, and early and late plowing, needed no one to point out the differences. The fallow plots 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 plowing, until the plot of wheat following Kafir was reached. This plot made the poorest showing, not because the Kafir was "hard" on the land, as is generally supposed, but because Kafir draws out a lot of moisture late in the season, just before it is needed to give the young wheat a start it will not otherwise get.

Western Kansas must wage a constant warfare against grasshoppers. After testing various poisons and traps the station officials are this year trying chickens, and so far the chickens have done a good job of it. A flock of 400 was divided into several colonies, housed in movable 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 chickens need except water. Turkeys are still better if they are to be had.

A trip through the Garden City district always impresses the visitor because of the fine land they have out there. All it needs is water, more farmers and fewer speculators. More substantial farmers are needed, men willing to work hard who will not expect large returns at first—farmers who are looking for permanent homes, not the exploiter class.

Although comparatively few farmers attended the meeting at Garden City it was profitable to those who did go, and good will come of it. The meeting place for next year is to be selected later. The officers chosen to serve during the coming year are: President, J. R. Chittenden, Hays; vice presidents, E. D. Wheeler, Wakeeney; E. C. Prather, Oakley; B. E. Parker, Tribune; Fred Burr, Hoxie; E. G. Fennup, Garden City; J. L. Pelham, Hutchinson; J. K. Freed, Scott City; secretary-treasurer, Patrick Deane, Hays.

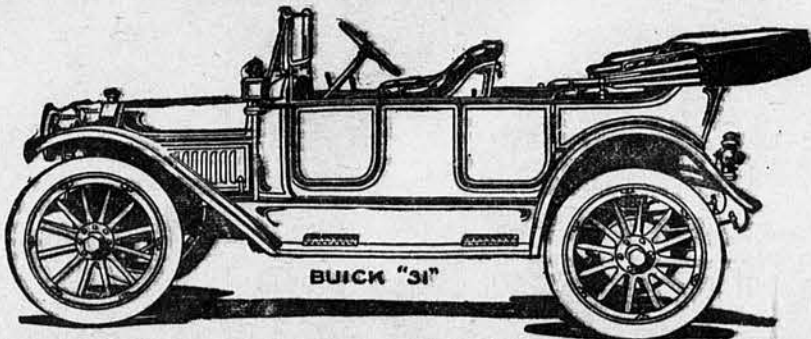
EVERY MOVING PART FITTED TO A HAIR'S BREADTH

Buick

THE FAMOUS BUICK OVERHEAD valve motor is guaranteed to have more speed than any other type of motor on the market. It will pull stronger on low grade gasoline than any other type of motor ever built and the fuel consumption is less.

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 37½ Miles an Hour.

WRITE
FOR
CATALOG
M



We Have
Dealers
Everywhere

BUICK MOTOR CO. KANSAS CITY, MO.

WHEN BETTER AUTOMOBILES ARE BUILT—BUICK WILL BUILD THEM

The WOMEN

Conducted by



FOLKS
Mabel E. Graves

We want this department to be of practical use to the women who read Farmers Mail and Breeze. If you have any favorite recipe, any helpful hint, whether it concerns the family, the kitchen, the children, the house; or if you have anything to say which would be of interest to another woman, send it to the Home Department editor. Prizes for the three best suggestions received each week will be, respectively, a set of triple-plated teaspoons in the beautiful Narcissus design, a year's subscription to the Household magazine, and a year's subscription to the Poultry Culture magazine.

New Way to Serve Cherries.

For a variety the following recipe is good to add to the home cook book: Remove the stones from 1 quart of cherries, taking care to retain as much of the juice as possible. Put cherries into a preserve kettle, and add water to barely cover the fruit. After boiling 5 minutes put in a scant 1/2 teaspoonful of salt and a dash or two of pepper. Stir in 3 level teaspoonsful of corn starch—2 of flour will answer—and let boil 5 or 10 minutes longer. Finally add sugar to taste. The cherries may be served warm or cold. This amount will serve six persons. E. A. Heusi, Arvada, Colo.

Save Flowers From Cold Feet.

I have found a new and better way of potting my ferns, which I will pass on. When emptying a fern out of the pot that it was bought in it was noticed that the florist had put a bone in the bottom of the pot, I suppose to furnish lime to the plant.

If you have no fern for the center of your dining table a very odd and suitable decoration can be obtained by planting a grape fruit seed in a pan of sand. If you have a glass dish (colored preferred) buy a small tin pan to put down in the bowl. Punch the pan full of holes for drainage before filling with the sand. Mrs. S. G. Marlow, Caddo, Okla.

[The editor would suggest that perhaps the bone was put in the bottom of the pot to provide better drainage. A usual plan is to fill the pot a third full of charcoal before putting in the dirt. Or put in pieces of broken china, or large pebbles. Any of these will keep the plant from getting "cold feet." All plants do better if something of this sort is provided.]

Some Questions Answered

The purpose of the Home Department is to tell you the things you want to know. That is why the home editor was glad to receive these inquiries this week. If there is anything you don't know, and want to know, she will be glad to have you write her about it. If she doesn't know the answer she can pass it on to someone else, and some one in our big family of more than 100,000 women will be sure to know.

Recipe for Making Cheese.

I see so many good recipes in your good paper I thought I'd like to have one of yours for making cheese on a small scale, that is, for domestic use. Also, will you please tell me where one can buy sweet potato plants? Subscriber, Summerfield, Kan.

Every woman interested in good cooking, which means every woman, should write to the United States department of agriculture for Farmers' Bulletin No. 487 on "Cheese and Its Economical Uses in the Home". This bulletin gives a vast amount of information about cheese, also probably 75 recipes for ways of using cheese. It is free for the asking. Cheese making in detail is described in Farmers' Bulletins Nos. 166, 225, and 244. We probably also have a good many cheese makers among Mail and Breeze readers who will be glad to give their experience. In almost every town there is always someone who has sweet potato plants for sale. You should be able to find them in some town near by. It is rather late in the season to ship them from a distance.

How to Can Vegetables.

Can I through this department obtain full information on the canning of vegetables, especially corn, beans and peas? Shall I use tin or glass cans, what seasoning, time of cooking, etc? I have had no experience with vegetables, and would be grateful for any information given. Lawton, Okla. Mrs. M.

In last week's Mail and Breeze we had several recipes for canning vegetables which partly answer this question. It is answered very fully in Farmers' Bulletin No. 359 entitled "Canning Vegetables in the Home", and every woman

who wants to put up her own vegetables should get this bulletin. Write to the Division of Publications, United States Department of Agriculture, Washington, D. C. It is free for the asking. Vegetables are canned very successfully in glass. If cooked in a boiler they need no seasoning, unless one prefers to add it. Corn should be boiled, or steamed continuously for five hours, or one hour each day for three days. String beans, peas, egg plant, asparagus, and most other vegetables are canned the same way.

Taking Care of Flowers.

Will you kindly tell me how to care for ever-blooming roses in pots in the house, also what protection climbing roses should have in winter? What should I do for leaf mold on the roses in the house? Wakarusa, Kan. Mrs. J.

Climbing roses need no protection in winter except perhaps a little straw the first winter after they are set out. To prepare soil for potting roses and most other house plants cut a quantity of sod in the fall, taking it from meadow, orchard, any place where the sod is good and the soil mellow. Let plenty of dirt adhere to the roots. Pile the sod up with the grass side down and if the soil was not rich put a layer of old, well rotted manure between each layer, then leave until spring. When it is needed for the usual spring potting cut down the pile with a sharp spade. Allow the little lumps and tufts of rooty fiber to remain in it. If too coarse chop with a sharp hatchet. If it is inconvenient to obtain sods, good mellow soil from the field, with perhaps a little manure added, will answer very well. Roses mildew because of an uneven temperature, too dry and hot, too cold and wet, or a draft soon after watering. Dust with sulphur, or spray once a week with a solution of 1/2 ounce of sulphide of potassium to a gallon of water.

Embroidered Cap for Baby.

The baby's cap which is easiest to launder and get into shape to use is the little one-piece one cut in semi-circular shape. A cap after the plan illustrated should be made of fine linen, batiste, lawn, or other sheer material. After the design is transferred to the material the edge is buttonholed in tiny scal-



12-1-21—Baby's Cap.

lops and the flowers and leaves all worked as eyelets, or with the leaves solid and the rest eyelet. The slits for the ribbon are run around by hand or on the machine to strengthen them, then they are cut and worked over and over like eyelets. The pattern for this cap, No. 12-1-21, with embroidery design complete, can be obtained from the Mail and Breeze Pattern Department, Topeka, Kan., price 10 cents.

Why Poppies Droop Their Heads.

By experimenting I have found that poppies droop a few minutes after being picked because the juice runs from the stem before it can accommodate itself to taking up the water from the vase. If the tip of the broken end of each stem is held in a flame until it is charred then put at once into a vase

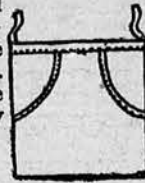
of water, they will not wilt. Burn only the very tip of the stem, to stop the bleeding. If you scorch the main part it cannot absorb water. Elmdale, Kan. Mrs. Frank Colect.

Convenient Clothespin Apron.

[Prize Letter.]



Take a strip of ordinary toweling 16 inches wide and 28 or 30 inches long. At one end cut out both corners, (3, 4) leaving a rounded edge as shown in illustration, and bend back the edges with some contrasting color. At the other end take two small darts (1, 2). Then fold crossways through the center, seam up the sides



and put on a band, and you have a pretty, inexpensive bag that can be reached from either side. This makes a very nice Christmas or birthday present for some friend.

Mrs. John Burger, R. 5, Haviland, Kan.

Getting Ready For Canning.

When I have used my fruit out of the jars I wash them perfectly clean, first in suds and then in clear water, and set away in a box out of the dust. When canning time comes I put the jars in a tub of cold water, set them on the stove and let them gradually heat. When they are hot I set them off where they will keep warm while the fruit cooks. Into another vessel I pour some warm water and add a tablespoonful of soda to every dozen jars. When the fruit is ready to can I put several spoonfuls of the soda water in each can, shake and pour out. Then I put the fruit in the jars without drying, and seal. I have tried this method for three years and during that time have never broken a jar or lost a can of fruit.

Mrs. L. D. Ward, R. 1, Minco, Okla.

Agricultural Opportunities.

This isn't a real estate advertisement, or anything of that sort. I've had the fun lately of reading some of "Mr. Doo-ey" aloud. Do you "mind" what he says about opportunity?

"Opportunity knocks at ivy man's dure wanst. On some men's dures it hammers till it breaks down th' dure an' thin it goes in an' wakes him up if he's asleep, an' iver afterward it wurruks fr him as a night watchman. On other men's dures it knocks an' runs away, an' on the dures ov some men it knocks an' whin they come out it hits thim over the head with an axe. Th' poor ar-re people that've been out at wurruk whin opporhunity knocked. But ivrywan has an opporhunity."

Charlotte Baker, Fort Collins, Colo.

Watered Cottage Cheese.

In a paper this spring I read a way, new to me, of making cottage cheese. I've tried it, and find it takes so much less time, I get so much more cheese from the same amount of milk and it is so much better, that I've thought Mail and Breeze readers might like to know. Into a pan of thick, sour (not stale) milk pour boiling water, stirring it all the while. As soon as the whey begins to separate pour in cold water; turn the whole into a cheesecloth strainer and hang in a cool place over a pan to drain. Season as usual.

Jennings, Kan. Pearl Chenoweth.

Beans Canned With Vinegar.

Prepare beans as for immediate use, salt and cook them until nearly done. Fill a half-gallon jar almost full, pour over beans 2 tablespoonsful of strong hot vinegar to finish filling, and seal while hot. When opened for use I pour off the liquid, put the beans on to cook in fresh water, and season. They are fine.

Mrs. J. A. Chappell, R. 4, Foss, Okla.

Can You Make Good Coffee?

You can't make good coffee unless you grind it fresh every day. How would you like to have a handsome, sanitary, glass coffee mill, an ornament to your kitchen and a great convenience at every meal? You would like the "Crystal" mill. Send to Arcade Mfg. Co., Dept. 2, Freeport, Ill., for particulars about the Crystal. You will be interested.

Victrola IV
Oak \$15



\$15 for this genuine Victrola that will play for you any record in the Victor catalog.

Go to any store where you see the famous Victor trademark and hear your favorite music on this Victrola.

Other styles \$25 to \$200. Write for catalogs.

Victor Talking Machine Co.
Camden, N. J.
Berliner Gramophone Co., Montreal
Canadian Distributors



FITZ OVERALLS



Ask the man who wears them — Ask him what he thinks of the stitching in

Fitz Overalls

It's the best in the world—never wears out.

BURNHAM-MUNGER-ROOT
DRY GOODS CO.
KANSAS CITY, - MO.

Big Value—Small Price

Smash! go all past records on engine prices. This 1 1/2 Gilson Engine sets a new mark.

GILSON *Good Little Engines*

If you are in the market or expect at once for full particulars. Don't

to be, write over to the biggest engine offer ever made.

Address

Gilson Mfg. Co.

66 Park St.

Pt. Washington, Wis.

Fort Collins, Colo.

Watered Cottage Cheese.

In a paper this spring I read a way,

new to me, of making cottage cheese.

I've tried it, and find it takes so much

less time, I get so much more cheese

from the same amount of milk and it is

so much better, that I've thought Mail

and Breeze readers might like to know.

Into a pan of thick, sour (not stale)

milk pour boiling water, stirring it all

the while. As soon as the whey be-

gins to separate pour in cold water; turn

the whole into a cheesecloth strainer and

hang in a cool place over a pan to drain.

Season as usual.

Jennings, Kan. Pearl Chenoweth.

Beans Canned With Vinegar.

Prepare beans as for immediate use,

salt and cook them until nearly done.

Fill a half-gallon jar almost full, pour

over beans 2 tablespoonsful of strong

hot vinegar to finish filling, and seal

while hot. When opened for use I pour

off the liquid, put the beans on to cook

in fresh water, and season. They are

fine.

Mrs. J. A. Chappell, R. 4, Foss, Okla.

Can You Make Good Coffee?

You can't make good coffee unless you

grind it fresh every day. How would

you like to have a handsome, sanitary,

glass coffee mill, an ornament to your

kitchen and a great convenience at every

meal? You would like the "Crystal"

mill. Send to Arcade Mfg. Co., Dept.

2, Freeport, Ill., for particulars about

the Crystal. You will be interested.

Bovee's Compound Horizontal Furnaces at Manufacturer's Prices

Save 40% of fuel and cost. Burn perfectly coal or wood. 16-inch doors. Heavy coal grates—large combustion chamber—compound radiator.

Long travel of heat. Easy to operate. Most practical heating plant for all buildings, especially for farm use.

Will soon save cost in fuel.

Write for particulars.

Bovee Furnace Works,

188 8th St. Waterloo, Iowa



22-Cal. HUNTING RIFLE GIVEN

1913 Take-down Patent, with all latest improvements, walnut stock and grip. Shoots accurately 22 long or short, handsome, durable. **SEND NO MONEY** Just send your name and address for my easy plan by which you can secure this fine rifle Absolutely Free Express Prepaid. Write today.

H. A. SLOAN, 52 Epitome Building, SPENCER, INDIANA

DAISY FLY KILLER

placed anywhere, attracts and kills all flies. Neat, clean, ornamental, convenient, cheap. Lasts all season. Made of metal, can't spill or tip over; will not soil or injure anything. Guaranteed effective. Sold by dealers, or sent prepaid for \$1.00.

HAROLD SOMERS, 150 DeKalb Ave., Brooklyn, N. Y.

FARMERS CLASSIFIED PAGE.

Advertisements will be inserted in this department at the low price of 5 cents per word each insertion for one, two, or three insertions. Four or more insertions only 4 cents per word each insertion. Cash must invariably accompany the order. Remit by postoffice money order. No order taken for less than \$1. This does not mean that a single insertion of your ad must cost \$1, but that your total order must reach \$1. All advertisements set in uniform style. No display type or illustration admitted under this heading. Each number and initial letter counts as one word. Guaranteed circulation over 104,000 copies weekly. Everybody reads these little ads. Try a "Farmers Classified" ad for results.

HORSES, CATTLE, HOGS, SHEEP.

TWENTY or more yearling steers for sale. Address S. H. Miller, Guymon, Okla.

REGISTERED Hampshire pigs \$10.00 each. Frank Franklin and Sons, Vinita, Okla.

FOR SALE—Yearling Poland China boar. Big strain. \$30.00 buys him. Recorded. Adam Andrew, Girard, Kan.

FOR SALE—One strictly good recorded 2-year-old Hereford bull, wt. 1,500. Price \$125. G. G. Dick, La Harpe, Kan.

SOME choice Jersey bulls that must be sold quick. Two nearly ready for service. Chester Thomas, Waterville, Kan.

CATTLE FOR SALE.

We have several thousand head of southern cattle on our ranch here for sale at right prices; all above the quarantine line and can be shipped to any points without delay or dipping. Will sell in single car lots or more, any class or age at the following prices: Cows, at \$26.00 per head; 1 and 2 year old heifers at \$22.50; 3 year old steers at \$31.00; 1 and 2 year old steers at \$23. We must sell the larger part of these cattle this month, as we have more cattle than grass and the dry weather has cut us short on feed. Can show cattle in a short ride from station and will meet buyers at station any time. The above prices are loaded on the cars, no other expense. Write or wire us. Miller Brothers, Bliss, Okla.

DOGS.

SPITZ PUPS and old dogs. A. T. Garman, Courtland, Kan.

SCOTCH COLLIES. Western Home Kennels, St. John, Kan.

TWO thoroughbred Scotch collie bitches for sale. W. H. Smee, Zurich, Kan.

NICE female collies ready to train, \$5.00. F. H. Barrington, Squirrel Creek, Colo.

FOR SALE—Scotch collie pups. Sable & White Stock Farm, U. A. Gore, Seward, Kan.

THOROUGHbred white spitz puppies; beautiful; low prices. E. Brack, Havensville, Kan.

THOROUGHbred Russian wolfhound pups. White. 10 weeks old; not registered. \$10.00 each. J. R. Cox, Plainville, Kan.

SEEDS AND NURSERIES.

WHIPPOORWILL cowpeas reseeded and good seed \$2.25 per bu. Herman Ruppel, Inola, Okla.

WHITE PEARL seed corn, choice, carefully selected and tested seed. W. A. Hunter, Manhattan, Kan.

NANCY HALL or dooly slips, one thousand or less two fifty per thousand; five thousand or more, one fifty. S. J. Armstrong, Ada, Okla.

REAL ESTATE FOR SALE.

BUY DENVER PROPERTY NOW. We have some wonderfully attractive income paying properties that can be bought at money making prices. Let us know how large a property you would consider, either business, residence, or farms and we will send particulars. Write us. Lyons & Johnson, Denver, Colo.

FOR SALE.

BALED HAY and hedge posts for sale. P. Ludvikson & Co., Severy, Kan.

LIVERY BARN and stock for sale. For particulars write Box 212, Richmond, Kan.

EQUITY in fine apartment house \$30,000 cash. Yearly rentals \$7,000. Address H. Vassar, Kan.

FOR TRADE—Sixteen-horse Advance engine; 26-hp. Case separator for horses. J. L. Koebele, Burns, Kan.

FOR SALE—Blacksmith shop tools and material; for further information address D. L. Thompson, Burns, Kan., Marion Co.

FOR SALE—A cash grocery in a western Kansas town of 1,700. Send your name and learn how you can get all the information you want before investing any money. Address Owner, care Mail and Breeze.

NEW YORK STATE FARMS.

SEVENTEEN THOUSAND buys 275 acres. Fifty choice Holstein cows, worth five thousand. Buildings worth ten thousand. Fodder, tools. Milk averages over six thousand yearly. Easy terms. Free catalogue. Farmers Bank, Springville, N. Y.

LIGHTNING RODS.

ROD your own buildings. Any number of feet at wholesale prices. Harvey Kinzie, Hiawatha, Kan.

LANDS.

FOR irrigated farms or city property, write D. H. Stewart Realty Co., Idaho Falls, Idaho.

SELL YOUR PROPERTY quickly for cash. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 5, Lincoln, Neb.

FOR SALE—80 acre farm; well improved; 15 acres alfalfa, 25 acres pasture, 40 acres corn; \$3,200. Estate. Dr. Finley, Caney, Kan.

TRADE FOR FARM. 2 fine improved tracts, 20 acres Atlanta; 2½ acres Winfield, Kan. Good rental. Save commission. Owner, Frank King, Atlanta, Kan.

DELAWARE, the diamond state. New booklet; unusual opportunities; ideal homes. Fruit, or diversified farming. State Board of Agriculture, Dover, Del.

TEXAS STATE LANDS—\$1.50 to \$5.00 acre; one-fourth down, balance forty years; information and Texas map free. Journal Pub. Co., Houston, Texas.

NORTH LOUISIANA lands. 720 acre farm, well improved, two miles from Ry. town, \$11 per acre. Write for list, and prices. Langford Realty Co., Ruston, La.

PATENTED state school lands, McMullen county, Texas. Fine climate, fertile soil. \$15.00 per acre. Only \$1.00 per acre cash, balance 10 yearly payments. F. A. Connable, trustee, 516 Commercial Bank Bldg., Houston, Texas.

FOR SALE: Good level hundred acre farm one mile of good town. Sixty acres wheat, fifteen in alfalfa. Fine water. On rural route and telephone line. Fine grove of hedge and other timber. Immediate possession. Write "Farm," Bavaria, Kan.

ADVERTISE YOUR PROPERTY in Kansas Weekly Capital for quick and sure results. 200,000 circulation guaranteed—among best farmers in Kansas. Advertising rate only 5c a word. Address Kansas Weekly Capital, Adv. Dept., Topeka, Kan.

THE north east quarter of section 4-13-26 and the northwest quarter of section 9-13-26, Gove county, Kansas. Either quarter at \$9 per acre. The southwest quarter of section 34-23-11, Major county, Oklahoma, at \$20 per acre. Some terms, any tract. Title perfect. Arthur Hess, Cleo, Okla.

NOTICE OF SALE OF REAL ESTATE—The undersigned will receive sealed bids for The South half of the North East quarter of the South West Quarter (120 acres), also the North West quarter of the South West quarter (40 acres) all in Section Two (2) Township Thirteen (13), Range Twenty-one (21), except four acres in the North West corner of said quarter section, being in the aggregate 160 acres more or less in Johnson County, Kansas. Also about thirty-three (33) acres of land adjacent to the above described land in Douglas County, Kansas. The above described real estate will be sold to the highest bidder for cash. All bids should be addressed to William H. Brune, Ochsleire, Kansas. A deposit of ten per cent of the purchase price will be required when the bid of the purchaser is accepted. The above 189 acres is good farm land two miles East of Eudora, Kansas, and is in a splendid German settlement. Possession can be had to put in a fall crop and full possession on the 1st of March, 1914. All bids must be received on or before the 18th day of June, 1913. I reserve the right to reject any or all bids. William Brune, Ochsleire, Kansas.

FARM LANDS.

IMPROVED FARMS south east Kansas. Address Wm. Stephens, Oswego, Kan.

WRITE for new illustrated catalog of New York state farms located in St. Lawrence county, the leading dairy county of the United States. Russell, Real Estate, Ogdensburg, N. Y.

\$5,500.00 MORTGAGE note, 6% interest, and \$13,500 equity in well improved north Missouri farm, 208 acres. Want to trade for clear land in eastern Kansas or north Missouri. B. V. Gill, Chillicothe, Mo.

IF TAKEN SOON a 320 farm goes at \$14,000 including crop, or \$12,500 exclusive of crop. Good land, good improvements, good water, three miles to town. Liberal terms. Address Arthur Baird, Tonkawa, Okla.

FARMERS WANTED—Finest farming section in United States. Ideal climate. Soils adapted to diversified crops. Opportunities for truckers, live stock breeders and poultrymen. Educational facilities unexcelled. Chamber of Commerce, Rock Hill, S. C.

CAN'T MAIL YOU A FARM! But we can send you a free sample of soil that will locate you on one. Fruit, alfalfa, grain, potatoes, poultry, hogs—the dirt with dollars in it. Low-priced land, fine California climate. Fairport, new town on Goose Lake—ninety miles of shore line. Irresistibly attractive. Ask for "Free Soil and Full Particulars." Land Commissioner N. C. O. Ry., Fairport, California.

FOR SALE OR EXCHANGE.

FOR SALE OR TRADE—2 good jack. A. O. Drenning, New Cambria, Kan.

LIST YOUR TRADES. Give complete description first letter. Frank King, Atlanta, Kan.

FOR SALE OR TRADE. Land near Cheyenne, Wyo. Box 566, Council Grove, Kan.

GOOD unimproved 160 on west line of Pawnee Co., Kan. Address Owner, Box 662, Larned, Kan.

LIST YOUR EXCHANGES with us. List them at just what they are worth. Say what you want and where. Boyer & Co., 306 Commerce Bldg., Kansas City, Mo.

FOR SALE OR TRADE for live stock, 45 horse power I. H. C. gasoline traction engine, 14 disc plows, 33x56 Reves separator. Mrs. B. B. Mullet, Cimarron, Kan.

TO TRADE for merchandise; 320 acres land in Gove and Scott Co., Kan., ¼ in cult.; 2 sets of improvements. Price \$17.50 per acre. Also 7 head of 1st class live stock, buggy, wagon, harness and few implements. Want to deal with owner direct. Hoyt A. Linton, Oronoque, Kan.

FOR EXCHANGE—A fine irrigated farm in southern Col. Ample water, old ditch, fully paid up. Well located new improvements, in arid belt, produces immense crops, never fails, a splendid stock country, a delightful climate, will stand the closest investigation. Want income, Kan or Mo. land. R. G. McCoy, owner, Formoso, Kan.

MALE HELP WANTED.

WANTED—Postal clerks—Mail carriers. \$65.00 month to commence. Apply immediately. Franklin Institute, Dept O 53, Rochester, N. Y.

\$15 TO \$45 per week. Chauffeurs and repair men secure steady employment. Let us tell you how. Denver Auto School, 768 Broadway, Denver, Colo.

WANTED. Reliable men to sell nursery stock. Outfit free. Liberal terms. Pay weekly. Experience unnecessary. Chanute Nurseries, Chanute, Kan.

WANTED—Postal clerk-carriers, postmasters, railway mail clerks, rural carriers, internal revenue clerks. Trial examination free. Write Osment, 38, St. Louis.

SALESMEN wanted in Kansas, Oklahoma, Missouri and Arkansas. Work full or part time, as you prefer. Pay weekly. Outfit free. The Lawrence Nurseries, Lawrence, Kan.

WILL PAY reliable man or woman \$12.50 to distribute 100 free pkgs. Perfumed Borax Soap Powder among friends. No money required. M. B. Ward Borax Co., 216 Institute, Chicago.

4TH CLASS postmaster positions now open to all. Examinations everywhere may be called any time. Full description of examinations free. Franklin Institute, Dept P 61, Rochester, N. Y.

LEARN AUCTIONEERING. Make an auctioneer, don't pay a big price. My book tells you, all there is to tell about how to be an auctioneer, gives all pointers needed, for a few days only \$1. Send to H. A. Miner, Zwolle, La.

MEN OF IDEAS and inventive ability should write for new "Lists of Needed Inventions," "Patent Buyers" and "How to Get Your Patent and Your Money." Advice free. Randolph & Co., Dept. 25, Washington, D. C.

YOUR opportunity to learn salesmanship quickly. We want ten more good men to act as special representatives in the best territory in Oklahoma and Kansas. Will pay extraordinarily liberal commissions to start. Send one bank reference with application. Address, Circulation Manager, Farmers Mail and Breeze, Topeka, Kan.

AGENTS WANTED.

AGENTS. Our specialty sells on sight. Every family needs it. Send for free particulars. The Industrial Products Co., Topeka, Kan.

TO SELL our high grade nursery stock good wages paid, references required. Address Nurseries, 2131 Nth. Lawrence Ave., Wichita, Kan.

CAN USE a few old experienced salesmen for Oklahoma and Kansas to act as special representatives in good territory. Write Circulation Manager, Farmers Mail and Breeze, Topeka, Kan.

YOUNG MAN, would you accept and wear a fine tailor made suit just for showing it to your friends? Or a Slip-on Raincoat Free? Could you use \$5 a day for a little spare time? Perhaps we can offer you a steady job? Write at once and get beautiful samples, styles and this wonderful offer. Banner Tailoring Company, Dept. 356, Chicago.

HELP WANTED.

BOYS OR GIRLS—Make money selling post cards. We trust you. Duffy & Duffy, Wilburn, Ill.

GOVERNMENT positions open to men and women. Big pay. List of positions free. Write immediately. Franklin Institute, Dept O 53, Rochester, N. Y.

SONG POEMS WANTED. New plan. Big money. Past experience unnecessary. Send poems or melodies. Free book and advice. Hayworth Music Co., 660 G, Washington, D. C.

WILL PAY reliable woman \$250.00 for distributing 2000 free packages Perfumed Soap Powder in your town. No money required. M. B. Ward & Co., 216 Institute Pl., Chicago.

MEN AND WOMEN wanted for government positions. \$60 to \$100 month to commence. Vacations. Steady work. Over 12,000 appointments this year. Parcel post requires several thousand. Influence unnecessary. Write immediately for free list of positions. Franklin Institute, Dept O 53, Rochester, N. Y.

SALESMEN WANTED.

SALESMEN WANTED in every county. Liberal terms; cash weekly. Outfit free. Write for terms. Fayetteville Nurseries, Dept. 2, Fayetteville, Arkansas.

CHICKEN PERCH.

THE NATIONAL MEDICATED chicken perch, the great eliminator of mites, lice and practically all disease. Shaffer & Company, Minneapolis, Kan.

AUTO SUPPLIES.

40% TO 75% saved on tires. Printed guarantee for 2,500 miles with every tire. Generally run 3,000 to 6,000 miles. Every tire re-made by hand, free from imperfections and blemishes of all kinds. Our prices, 28x3, \$6.87; 30x3, \$7.35; 30x3½, \$10.46; 32x3½, \$10.98; 34x4, \$14.90. All sizes. All makes. Write for free catalogue and price list. Give size used. Peerless Tire Co., 1588(C) Broadway, New York.

KODAKS AND SUPPLIES.

BUY kodaks and all supplies direct from A. B. Paine Co., Fort Scott, Kan., and save money. Twenty-eight years in this business. Catalogs free.

PATENTS.

SEND FOR FREE BOOKLET, All About Patents and Their Cost. Shepherd & Campbell, Patent Attorneys, 500 C Victor Bldg., Washington, D. C.

OILS.

WRITE us for prices on oil and greases. Complete line; lowest prices; immediate shipments. The Neesho Valley Oil Co., Chanute, Kan.

MISCELLANEOUS.

E. R. BOYNTON HAY CO., Kansas City, Mo. Receivers and shippers. Try us.

MISSOURI AUCTION SCHOOL, largest in world. Own largest living mule. 1404 Grand, Kansas City.

TUITION may be paid out of earnings after course is completed. Dougherty's Business College, Topeka, Kan.

HAND and Pony Hay Presses, lowest priced, high class and capacity balers on market. W. H. Stoppel, Mgr., Dallas, Tex.

LADIES, send 2 dimes for family needle case. (115 assorted sewing needles). Agents wanted. O. E. Novelty Co., Manhattan, Kan.

THE ANDERSON LOADER, loads manure, cornstalks, stackbottoms, dirt, gravel, sand; no hand work. Write Anderson Mfg. Co., Osage City, Kan.

BIG MONEY on small capital, in the moving picture business. I furnish a complete outfit and teach you everything. J. H. Leonard, 222 Temple Block, Kansas City, Mo.

HAVE YOU a little money to invest in a gilt-edge proposition that conforms to all the requirements of the Kansas Blue Sky Law? \$10 cash and \$5 per month? Write "Investor," 627 Quincy St., Topeka, Kan.

POULTRY MAGAZINE—Big 40 to 80 page illustrated magazine of practical, common sense chicken talk. Tells how to get most in pleasure and profit from poultry raising. 4 months on trial only 10c. Poultry Culture, 304 Jackson, Topeka, Kan.

Don't Kill Meadowlarks

Mr. Editor—As a useful bird to farmers the meadowlark has no equal. Not only does it consume a large number of insects and weed seeds but it has no bad habits.

Its food consists mainly of insects which it finds in the meadowlands. Besides the smooth caterpillars, it also

sides the hairy ones which most birds shun; nor is it adverse to bugs with a disagreeable odor. In the seasons of the year when insect life is scarce, the meadowlark destroys large quantities of weed seeds. It seems adverse to eating the seeds of grain, although when other food is scarce, it will pick up the grain

which has been scattered during harvesting.

A few birds may remain with us during the winter but most of them arrive from the south early in the spring. They often nest twice during the summer, the second brood being hatched during July or August. Five or six eggs is the usual number in a clutch. The nests are sel-

dom found for they are arched over, not so much for protection against the weather, as for concealment.

Charles Mead.

Colorado Station, Ft. Collins.

We can't get along without the Mail and Breeze.—Mrs. Jacob Mueller, R. 2, Humboldt, Kan.

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 Mail and Breeze.)

Cattle prices were generally steady the first of the week with exceptions at river markets stronger. Chicago received 21,000 or more than half of the supply at the five Western markets on Monday. St. Louis and Kansas City reported a liberal supply of caked-grassers from below the quarantine line that sold at 7 to 8, and the bulk of the native steers sold at \$7.75 to \$8.25.

The weather has underwritten the cattle market for the next six months. It is a sort of a blanket contract with premiums to be charged to the whim of the good or bad weather traits prevailing. The weather can show some inside cussedness, and then again it can deal out some of the very bountiful features that all delight in. So far this year there has been only a slight touch of adverse weather in market conditions. Within the past ten days Southwest Kansas, and northwest Oklahoma and Southern Missouri became very dry. Some sections have been relieved by beneficial rains in the past few days. However this limited area of dryness caused cattle men to stop and think, and the thought feathered a sort of unexpressed wall. What would happen if general dryness hit the great pasture sections. The thought however, proved immature, for beginning last week rains fell from New Mexico, through Texas, eastern Colorado, much of Oklahoma, the greater part of Kansas, all of Nebraska, the Dakota, Iowa, Missouri and Illinois. The cattle market responded to a better feeling immediately and prices at river points last week were quoted up 10 to 25 cents. A greater advance was quoted on cattle that came from the west than on those that came east of the Missouri river. In the summer weather conditions usually control marketing. If the season is generally good there is an even movement; if adverse there will be glutted markets, followed by an almost complete subsidence in shipping. Such conditions always give rise to widely fluctuating prices. General conditions at present are favorable for a good grass season. No locality is crammed with shipping necessity. It is the season for Texas to move early grassers and the supply of that kind is increasing at markets. Sales of Texas, this past week ranged from \$5.10 to \$8.10 the low priced kinds being common grassers and the top steers were grain fat and weighed as much as 1,378 pounds. The movement from the corn belt continued fairly liberal. Chicago reported sales of heavy steers as high as \$8.85, and river markets as high as \$8.60. Tops in the light weight class ranged from \$8.50 to \$8.75. The bulk of the sales were at \$7.50 to \$8.40, showing a good quarter higher than the preceding week. Killers say that at present prices cattle are yielding them a fair return in the beef. Such a condition means a fairly active demand to start the next week. Light weight cattle are still favorites in demand, but that class is clearing rapidly, and heavier steers will meet a better inquiry.

Calves and Light Butcher Cattle.

Baby beefs sold up to \$8.00 to \$8.75 last week, and veal calves \$10 to \$11 a hundred pounds at the various markets. In the baby beef class top prices were paid for mixed grades, and in the calf line little discrimination was drawn between heifer or steer vealers. The noticeable feature however, is that all light weight stuff is drawing unseasonably high prices, and such weights at market time means smaller pounds of beef later. This condition makes the short feed period attractive, but does not explain the shortage in calf supply. The dairy districts near Chicago ought to be sending in more calves and when that run starts up again a price reduction is probable. Chicago in May this year received 21,000 fewer calves than in the same month 1912, and in the five months reported a decrease of 75,000. The shortage presumably is from the dairy district. Other markets report about the same calf supply as a year ago. Cows and heavy heifers were quoted up 10 to 15 cents last week and in active demand. The discrimination against grass fat cows was checked temporarily.

Feeding Cattle Still Scarce.

The early summer run is developing no abundance of thin cattle. Some localities that have been drouth pressed have sent in emaciated stockers, but the general good condition of the country has kept the run small. The range country should show up a fairly large supply of stockers in July to early frost but it is the general opinion that no excessive movement will develop. Prices range from \$6.50 to \$8 for steers, and \$4.50 to \$7.25 for stock cows and heifers.

June Starts Big Hog Price.

In the past week the first seven days in June receipts of hogs at the five

western markets were close to 400,000, about 80,000 larger than in the preceding week, and 100,000 larger than a year ago. This supply was the last since in March and rather unexpected. At the close of the preceding week prices were the highest in May, and the advance in the preceding week caused the liberal movement last week. Prices Monday started down and by Thursday had dropped 35 to 40 cents, practically covering the price range of May in four days. Such a drop in prices was too severe, and in the past two days 10 to 15 cents of the loss was regained. Packers had control of the market Tuesday, Wednesday and Thursday, and their eagerness for price reductions was responsible for the break. Shippers were a factor in the week end trade. After Tuesday the top price in Chicago was \$8.75, and other markets reported tops of \$8.50 to \$8.75. The heavy receipts the first week this month cannot be taken as a criterion for the movement during the entire month. In the past week many hogs were marketed so that they would not interfere with corn plowing, harvest, or have to be moved in the extreme heat of mid-summer.

Lifeless Trade in Sheep.

The sheep market is under the ban of slack demand, or rather a large movement of spring lambs to eastern markets has eliminated eastern demand from western markets. Buffalo, Pittsburg and Louisville are gathering in the Tennessee and Kentucky crop, and that movement should begin to subside in another 10 days. When demand returns to western markets improvement is expected, as the western lamb crop is not burdensome. Last week lamb prices were quoted down 50 to 75 cents and sheep off 25 to 35 cents. This drop brought prices to a new low level for the year, and 50 cents to \$2, under a year ago. Lambs are quoted at \$6.50 to \$8 and sheep \$4 to \$5.75.

The Movement of Livestock.

The following table shows receipts of cattle, hogs and sheep at the five western markets last week, the previous week and a year ago:

	Cattle	Hogs	Sheep
Kansas City	26,100	72,500	45,375
Chicago	47,700	156,000	87,000
Omaha	15,000	73,100	17,100
St. Louis	17,450	63,300	26,850
St. Joseph	6,450	42,500	6,600

Total	115,700	407,400	183,025
Preceding week	106,050	320,700	176,600
Year ago	96,640	301,500	173,320

The following table shows the receipts of cattle, hogs and sheep in Kansas City thus far this year and same period in 1912:

	1913	1912	Inc.	Dec.
Cattle	648,231	587,037	61,194	4,377
Calves	32,290	36,667	.....	124,670
Hogs	1,148,234	1,272,904	.....	64,664
Sheep	888,535	953,193	.....	848
H. & M.	42,061	42,909	.....	11
Cars	46,274	46,285	.....	.....

The following table shows receipts of cattle, hogs and sheep in St. Louis thus far this year, compared with the same period in 1912:

	1913	1912	Inc.	Dec.
Cattle	338,480	288,488	49,992	49,738
Hogs	1,157,537	1,207,275	.....	46,567
Sheep	321,718	368,285	.....	12,694
H. & M.	70,446	83,139	.....	117
Cars	29,358	29,503	.....	.....

The following table shows receipts of livestock in St. Joseph thus far this year, compared with the same period in 1912:

	1913	1912	Inc.	Dec.
Cattle	181,519	196,274	.....	14,755
Hogs	753,346	981,976	.....	228,630
Sheep	367,65	316,948	.....	5,893
H. & M.	15,701	21,594	.....	2,979
Cars	19,733	22,712	.....	.....

The following table shows receipts of cattle, hogs and sheep at the five western markets, Monday, June 9, together with totals a week ago and a year ago:

	Cattle	Hogs	Sheep
Kansas City	8,000	8,000	8,000
Chicago	21,000	56,000	15,000
Omaha	2,800	3,700	2,800
St. Louis	4,500	6,500	5,000
St. Joseph	1,600	3,000	1,300

Totals	37,900	77,200	32,100
A week ago	38,700	90,000	41,300
A year ago	27,350	67,200	37,520

The following table shows a comparison in prices on best offerings of livestock at Kansas City and Chicago for this date and one year ago:

	Cattle	Hogs	Sheep
Per 100 lbs. 1913 1912	1913 1912	1913 1912	1913 1912
Chicago ..	\$8.05 \$9.40	\$8.65 \$7.95	\$6.60 \$6.00
Kan. City ..	8.25 9.25	8.50 7.65	6.50 6.00

(Continued on Page 19.)



THIS WILL PROVE That Your Hogs Have Worms

For years and years I have been telling you farmers that a great part of hog sickness can be traced directly to worms—just ordinary, every-day hog worms. Yes, sir! and what's more I say to you that many of the hogs you own have worms right now, unless you have already cleaned them out with MERRY WAR POWDERED LYE. Here's an easy way to prove the absolute truth of that statement: Go to your dealer's and get a 10c can of

Merry War Powdered Lye

Mix 1/4 of it thoroughly with one barrel of swill and feed from it twice each day, night and morning. If your hogs are on dry ration, mix 1/4 can in each barrel of drinking water. You'll shortly see vast quantities of dead worms coming away from those hogs. Seeing is believing. You can't get away from facts.

Now then, as a practical farmer, do you believe that a hog can be well, thrive and put on fat—in fact, can he live long, if he's filled with worms? Not much—he can't! Another thing: Don't imagine that just because your hogs are beginning to fall off in weight, snoop around, droop their heads and tails, cough and refuse to eat, that they have cholera. It's very likely worms—and you can easily and quickly prove it in the safe and inexpensive way I have pointed out. So don't lose your hogs—it's not necessary. And don't vaccinate your hogs simply because you think they have cholera. Vaccination won't kill a single worm. And, take my word for it, if you rid your hogs of worms they will be in prime strength to resist hog cholera.

This Man Tried It And Knows

A. U. PATE, Blue Jacket, Okla., writes: "I have been feeding MERRY WAR POWDERED LYE to my hogs for worms. It beats anything I ever saw." Hundreds of other practical hog raisers have written telling of similar experiences with MERRY WAR POWDERED LYE as a destroyer of hog worms. Read their letters in our free booklet.

10c a Can at all Dealers MERRY WAR POWDERED LYE is for sale at most grocers, druggists and feed dealers everywhere, 10c per can (120 feeds). It is convenient to buy in case lots—4 dozen cans \$4.50. Costs only 5c per hog, per month, to feed regularly—by far the best and much the cheapest hog insurance you can buy. If your dealers can't supply you, write us, stating their names. We will see that you are supplied and also send you, free, a valuable booklet, "How To Get The Biggest Profits From Hog Raising." Order direct from us in case lots (4 dozen cans \$4.50) if your dealer won't supply you.

There Are No Substitutes

Don't experiment with ordinary, old-fashioned lye. It might prove dangerous. MERRY WAR POWDERED LYE is the specially prepared lye that is safe to feed to hogs. Full directions on each can.

Which Kind Do You Want?

E. Myers Lye Co., Dept 10 St. Louis, Mo.

If you need anything not advertised in this issue of Farmers Mail and Breeze, write us and we'll tell you where you can get it.

WRITE US HAY ABOUT Your
C. E. SHOFSTALL HAY & GRAIN CO.
605 Livestock Exchange, Kansas City, Mo.

SCHOOLS AND COLLEGES

EARN UP TO \$3000 PER YEAR

Be an expert Stenographer, Bookkeeper, Accountant, Auditor, Penman or Telegrapher. Learn Banking, Railroad, Merchandising, Civil Service or Advertising by our easy, practical method of Expert Business Training. Tuition low; positions guaranteed. Banks, Railroads and Business Men everywhere seek our graduates. Write today for Free Illustrated Catalog.

Kansas Wesleyan Business College, Salina, Kansas

CENTRAL Business College

13th and Oak, Kansas City's Largest Business School. New Scholarship Plan. Free Employment Bureau. Write for free catalog.

Finlay Engineering College
All Branches Engineering; enroll any time; machinery in operation; day and night session. Finlay Bldg., 10th and Indiana, K.C., Mo. Ask for catalog "D". Phones East 595.

WE TEACH YOU
SPECIAL OFFER to all students who enroll at the
Lincoln Auto School
during the summer months. Write for particulars and free catalog at once. LINCOLN AUTO SCHOOL 2850 40th Street, Lincoln, Nebraska

Let Us Teach You Music
Write today for our new 1913-14 Catalog. We teach Piano, Voice, Pipe Organ, Band, Orchestra, Elocution and Dramatic Art. A most thorough course in each department; competent, successful teachers in charge. Tuition and expenses reasonable.
THEODORE LINDBERG, Pres.
Wichita College of Music, Dept. 118
WICHITA KANSAS

BETHANY LINDSBORG, KS. COLLEGE

No failure in 8 years at the State examinations, is our unequalled record for thorough work. Equally strong College, Normal, Academy, Music, Art, Expression, Business and Domestic Science courses. Many free advantages. Famous Messiah concerts every Easter. Established 1881. Co-educational. 886 students from 21 states. Tuition low. Board \$2.50 per week. For free catalog mail coupon today.

Name.....
Address.....
Course desired.....

BE A WINNER

Secure a real, Expert Business Training, from Thorough, Competent, Expert Business Teachers. Learn Stenography Bookkeeping, Penmanship, Auditing, Accounting, Banking, Farm Accounting, Merchandising and General Business. Living expenses reasonable. No solicitors. Big Illustrated Catalog Free. Send for it.
D. L. MUSSELMAN, President
GEM CITY BUSINESS COLLEGE
Lock Box 144, QUINCY, ILLINOIS.

ARKANSAS CITY BUSINESS COLLEGE

The college to send your boy or girl to obtain a commercial education. Write for 1913 college catalog. Tells about the college, price of tuition and surroundings. Address the manager, E. G. BETZ, Arkansas City, Kansas.

Free Ticket to Chillicothe, Mo., to visit JACKSON UNIVERSITY of BUSINESS. Finest quarters; free night school; positions guaranteed; dancing hall and dancing teacher. Board \$2.50. Backed by World's Desire Bureau. For catalog and free ticket address Waiter Jackson, Pres., Chillicothe, Mo.

St. Joseph Veterinary College

College entirely re-organized. Recognized by the U. S. Dept. of Agriculture. Modern equipped laboratories. Three year graded course. Write for free catalog. Dr. F. W. Caldwell, Dean, 332 South Seventh Street, St. Joseph, Mo.

Hardin College and Conservatory For Young Women

Endowed. State Charter. Officially Standardized as a Junior College by Mo. State University. Courses in Art, Elocution, Music, Domestic Science and Business. German-American Conservatory—German Standards. Modern Equipment. For Catalogue address JOHN W. MILLION, A. M., President, 1232 College Place, Mexico, Mo.

Lightest Weight SUCCESSFUL BINDER ENGINE

ON EARTH Harvest YOUR grain with our WINNER-WONDER 4-horse-power engine. Cuts, elevates, binds grain. Only two horses needed. Removed—use for general work.
Cushman Mfg. Co., 801 N. Third, St. Joseph, Mo.

BIG BARGAINS IN REAL ESTATE

Dealers whose ads appear in this paper are thoroughly reliable and bargains worthy of consideration.

Special Notice

All advertising copy, discontinuance orders and change of copy intended for the Real Estate Department must reach this office by 12 o'clock Saturday morning, one week in advance of publication to be effective in that issue. All forms in this department of the paper close at that time and it is impossible to make any changes in the pages after they are electrotyped.

WRITE J. M. McCown, Emporia, Kansas, special bargain list, farms and ranches.

GOOD farms for sale or ex. in Bourbon Co., eastern Kan. Fred L. Kent, Uniontown, Kan.

160 ACRES, 2 miles town, Well improved. All tillable. \$9,000, carry 1/2 in mortgage 5%. Donahue, Mound Valley, Kan.

MORTON COUNTY—Write for new list of snags and information regarding this country. Luther & Co., Rolla, Kan.

320 ACRES Franklin Co., Kansas. 1 mile town, new house and barn, good location. \$60 a. A. E. Clark & Son, Pomona, Kan.

BARGAIN; 80 a. improved, 4 miles out. Send for land list. F. C. Libby, Blue Mound, Linn Co., Kan. J. L. Wilson, Salesman.

GET on the new R. R., where land only sells for \$10 to \$15 per a.; best land in state; fine water. Life Real Estate Co., Hugoton, Ka.

STEVENS county; land on new R. R. in Stevens and Morton Cos. \$8 to \$20 per a. Write or see John A. Firmin, Hugoton, Kan.

120 A. 5 mi. out, fine impr.; 75 a. in cult., bal. timber and pasture. \$50 per a. 4 a. 1 mi. out, well impr.; \$1,600. Both clear. No trade. J. A. Decker, Valley Falls, Kan.

HOMESSEEKERS attention. A party is going to California for health; will sell his farm at a big sacrifice, only a small payment down. Kysar Realty Co., Goodland, Kan.

SOME BARGAINS; I am going to change my location and I have three farms to sell, and must sell regardless of price. Write for price and terms. J. D. Reneau, La Cygne, Ka.

100 IMP. and unimp. farms for sale in Edwards, Ford and Hodgeman Cos., \$1,100 3/4 up. For further information and list call on or address THOS. DACEY, Offerle, Ka.

RANCH 800 acres, Walnut Valley, Ness Co. Highly improved, 70 acres alfalfa land. Price \$20.00 acre, enc. \$3,200; owner has poor health. Wants clear 100 east for equity. Buxton Land Co., Utica, Ness Co., Kan.

160 A. 2 miles town, 3/4 mile school; 7 room house, large barn, 100 a. bottom; 40 a. alfalfa; fine orchard, fine improvements, nice home. Price \$65 per acre. GLE & BONSALL, South Haven, Sumner Co., Kan.

ARK. land. 444 a. sandy loam adjoining town of Washington; large house, 4 tenant houses, fine timber, plenty water. 80 a. Bermuda grass. \$25 a. Terms. Write for list. Horton & Co., Hope, Ark.

270 ACRE well improved corn and alfalfa farm, 5 miles Garnett, \$85.00. Terms. 240 acres corn and alfalfa farm, 3 miles railroad, \$45.00. Terms. Other good ones. S. C. Bybee & Company, Garnett, Kan.

COFFEY COUNTY, EASTERN KANSAS. Good homes and investments. Corn, tame grass and ranch lands, \$50 to \$60 per a. List free. LANE & KENT, Burlington, Kan.

FOR SALE BY OWNER. 16 quarters, adjoins German settlement Minnesota. Small payt., bal. 8 years 6%. Write at once. Box 317, Minneola, Kan.

FOR SALE. 320 acres level wheat land \$9.00 per acre. Carry 1/2 on land. Also many other good bargains in corn, wheat and alfalfa lands. L. E. PENDLETON, Dodge City, Kan.

LINN COUNTY FARMS. Biggest bargains in Kansas. Corn, wheat, timothy, clover, bluegrass land \$15-\$30. Coal, wood, gas, abundance good water. Fruit, everything that goes to make life pleasant. Large illustrated folder free. EBY-CADY REALTY CO., Pleasanton, Kan.

ALFALFA FARMS Write for list of farms and ranches near the best college town in the state. T. B. GODSEY, Emporia, Kan.

FOR SALE, FINE DAIRY FARM 160 a. highly imp. half mil. county seat town 4,000 pop. Only mil. route. Fully equipped. 40 a. alfalfa. Creek. Big money maker. Write for details. V. A. OSBURN, Eldorado, Kansas.

Good Quality at Low Cost 235 acres near Garnett, Kansas, most blue-stem meadow, low price. 60 acres, well improved, 3 mi. of town, subject to one year lease. 160 acres, 1/2 mi. of town, well improved. SPOHN BROS., Garnett, Kan.

400 ACRES FOR SALE

Two sets of improvements in fair condition; plenty shade trees, 2 good wells, windmills and concrete water tanks; also creek water at each place. 240 a. of bottom alfalfa land and 160 a. of upland (black soil). 200 a. in wheat, 30 a. alfalfa, 60 a. pasture, bal. corn land, all tillable. 2 mi. town. Phone. Level roads. Will sell part or all. Terms on part. Price \$80 per acre. T. F. JOHNSTON, Garfield, Kan.

Only \$3.00 Cash

Balance \$1.50 Per Month

pays for level, well located, 50x140 ft. lot at \$30 for inside lots and \$35 for corners—in the prosperous little city Plains, Kan. Where prices are advancing rapidly and good profits assured. Send first payment for contract on guaranteed lot or write for complete information. MUST ACT QUICK. JOHN W. BAUGHMAN, Desk G, Plains, Kan.

AGENTS WANTED, to sell Neosho Valley corn and alfalfa land. \$40.00 to \$60.00 per a. G. W. Clark Land Co., Chetopa, Kan.

\$55 PER A. buys 320 a. 5 mi. Waterfield. Well imp., fine water. 185 a. cult., 70 a. fine creek bottom. 5 a. timber, 110 prairie, some alfalfa. J. C. Weaver, Wakefield, Kan.

200 A. level black land 3 mi. town, 100 a. wheat, improved; everlasting water, 1/2 mi. school, 1/2 crop with place if sold by July. Bargain. A. W. Bremeyer & Co., McPherson, Kan.

SACRIFICE sale; 320 acres, 60 acres pasture and hay, 2 good wells and a spring; 70 acres wheat, bal. in crops. Possession August 1st, 1913. 1/2 of all grain to purchaser; \$14,000. LOCK BOX 285, Wellington, Kan.

IF TAKEN AT ONCE, 160 a. fine meadow, close in, \$30 per acre. 125 acre improved choice stock farm, close in, \$30 per acre. E. R. Dice, Neodesha, Kan.

672 ACRE farm, 3 sets improvements, near Arkansas City, Kan. 65 in alfalfa. Best of terms. Ask about this good farm. 80, 160, 240, 320, 400, 620, all above farms are good prices from \$30 up to \$50 per a. WM. GODEY, Arkansas City, Kan.

AT \$11.00 PER ACRE, 12,000 a. ranch in Meade Co., Kan. 1,000 in cult., over 50% tillable, plenty water and grass, only 2 mi. from town. Terms on part; will divide nicely into smaller farms. Pralle Bros. Realty Co., Bremen, Kan.

160 A., 100 in cultivation, bal. grass and timber; frame house, 3 rooms, summer kitchen attached. Basement barn 18x28, mow above; other improvements; never failing water; on mail and phone lines about 1 mile to high school. Price \$60 per a. W. P. Morris, Marion, Kansas.

SEDGWICK COUNTY FARM BARGAINS. 80 a. farm near R. R. town, good 6 room house, large new barn, orchard, fine water, good land, only \$4,500.00. Terms, one-third crop. 145 acre farm, good house, 2 barns, best land, \$58 per a. Terms to suit. 21 a. bottom farm, good house, barn, 12 a. alfalfa, in suburbs of Wichita, \$6,500. 280 a. bottom farm—alfalfa proposition; soft water, 15 feet any place on farm. \$50.00 per a. Terms to suit. Call or write. H. E. OSBURN, 227 E. Douglas Ave., Wichita, Kan.

MONEY-MAKERS AND GOOD HOMES. Lands in Oklahoma, Texas and Kansas for sale, no exchanges. City property and stocks of mds. to exchange. List free. JABEZ F. BRADSHAW, Lenexa, Kan.

COMANCHE COUNTY BARGAIN. 480 a. improved, 9 miles from Coldwater. 173 a. fine growing wheat, all goes, for quick sale, price \$27.00 per a. Terms if desired. C. A. HEATON, Larned, Kansas.

ALFALFA AND WHEAT LANDS at \$20 up. Grass lands \$10 up. Crops are good; prices are rapidly advancing—NOW'S the time to buy. List free. A few exchanges considered—they must be gilt edge. WILLIAMS & PICKENS, Meade, Kan.

HAY FARM FOR SALE. 160 acres of land 3 miles from Colony, Anderson Co., Kansas. 100 acres in native meadow, 15 acres pasture, 45 cult., improved with house and barn, good water. The hay alone has been making \$500 per year. Am offering this at the low price of \$40 per acre as I have other interests and cannot see to it. For sale only. Address J. F. RESSEL, Owner, Colony, Kansas.

ALONG THE NEW RAILROAD, IN THE SHALLOW-WATER COUNTRY Large and small tracts, improved and unimproved ranches, on easy terms, in Haskell, Grant, Stanton, Stevens and Morton counties, Kansas; Texas county, Oklahoma; and Baca county, Colorado; ALONG THE NEW RAILROAD NOW being built by the Santa Fe from Dodge City to Colmar, N. M. GET MY PRICES AND TERMS. FLOWING ARTESIAN WELLS — INEXHAUSTIBLE UNDERFLOW. Agents wanted. DON VAN WORMER, Rolla, Kansas. Richfield, Kansas.

MUST SELL. 162 acres in Franklin Co., Kansas, 3/4 mile of town, 80 a. creek bottom, 40 acres in blue grass, 10 acres clover, 7 room house, barn and other outbuildings. 8 acres timber, 118 acres in cultivation, price \$62 per acre; \$2,000 down, remainder long time at 6% interest. 125 acres 3 mi. of town located in Franklin Co., Kansas. All tillable, 5 room house, barn 30x40, other good outbuildings; 2 never failing wells, price \$70 per acre. Small payment down, remainder at 6% interest. 80 acres located in Franklin Co., 1 mile of Ottawa, Kansas. All tillable, 65 acres in cultivation, price \$90 per a. Rental \$8 per a. Write for land list. MANSFIELD LAND CO., Ottawa, Kan.

ALFALFA FARMS Write for list of farms and ranches near the best college town in the state. T. B. GODSEY, Emporia, Kan.

FOR SALE, FINE DAIRY FARM 160 a. highly imp. half mil. county seat town 4,000 pop. Only mil. route. Fully equipped. 40 a. alfalfa. Creek. Big money maker. Write for details. V. A. OSBURN, Eldorado, Kansas.

Good Quality at Low Cost 235 acres near Garnett, Kansas, most blue-stem meadow, low price. 60 acres, well improved, 3 mi. of town, subject to one year lease. 160 acres, 1/2 mi. of town, well improved. SPOHN BROS., Garnett, Kan.

400 ACRES FOR SALE Two sets of improvements in fair condition; plenty shade trees, 2 good wells, windmills and concrete water tanks; also creek water at each place. 240 a. of bottom alfalfa land and 160 a. of upland (black soil). 200 a. in wheat, 30 a. alfalfa, 60 a. pasture, bal. corn land, all tillable. 2 mi. town. Phone. Level roads. Will sell part or all. Terms on part. Price \$80 per acre. T. F. JOHNSTON, Garfield, Kan.

ALFALFA FARMS Write for list of farms and ranches near the best college town in the state. T. B. GODSEY, Emporia, Kan.

FOR SALE, FINE DAIRY FARM 160 a. highly imp. half mil. county seat town 4,000 pop. Only mil. route. Fully equipped. 40 a. alfalfa. Creek. Big money maker. Write for details. V. A. OSBURN, Eldorado, Kansas.

Good Quality at Low Cost 235 acres near Garnett, Kansas, most blue-stem meadow, low price. 60 acres, well improved, 3 mi. of town, subject to one year lease. 160 acres, 1/2 mi. of town, well improved. SPOHN BROS., Garnett, Kan.

400 ACRES FOR SALE Two sets of improvements in fair condition; plenty shade trees, 2 good wells, windmills and concrete water tanks; also creek water at each place. 240 a. of bottom alfalfa land and 160 a. of upland (black soil). 200 a. in wheat, 30 a. alfalfa, 60 a. pasture, bal. corn land, all tillable. 2 mi. town. Phone. Level roads. Will sell part or all. Terms on part. Price \$80 per acre. T. F. JOHNSTON, Garfield, Kan.

ALFALFA FARMS Write for list of farms and ranches near the best college town in the state. T. B. GODSEY, Emporia, Kan.

FOR SALE, FINE DAIRY FARM 160 a. highly imp. half mil. county seat town 4,000 pop. Only mil. route. Fully equipped. 40 a. alfalfa. Creek. Big money maker. Write for details. V. A. OSBURN, Eldorado, Kansas.

Good Quality at Low Cost 235 acres near Garnett, Kansas, most blue-stem meadow, low price. 60 acres, well improved, 3 mi. of town, subject to one year lease. 160 acres, 1/2 mi. of town, well improved. SPOHN BROS., Garnett, Kan.

400 ACRES FOR SALE Two sets of improvements in fair condition; plenty shade trees, 2 good wells, windmills and concrete water tanks; also creek water at each place. 240 a. of bottom alfalfa land and 160 a. of upland (black soil). 200 a. in wheat, 30 a. alfalfa, 60 a. pasture, bal. corn land, all tillable. 2 mi. town. Phone. Level roads. Will sell part or all. Terms on part. Price \$80 per acre. T. F. JOHNSTON, Garfield, Kan.

ALFALFA FARMS Write for list of farms and ranches near the best college town in the state. T. B. GODSEY, Emporia, Kan.

FOR SALE, FINE DAIRY FARM 160 a. highly imp. half mil. county seat town 4,000 pop. Only mil. route. Fully equipped. 40 a. alfalfa. Creek. Big money maker. Write for details. V. A. OSBURN, Eldorado, Kansas.

Good Quality at Low Cost 235 acres near Garnett, Kansas, most blue-stem meadow, low price. 60 acres, well improved, 3 mi. of town, subject to one year lease. 160 acres, 1/2 mi. of town, well improved. SPOHN BROS., Garnett, Kan.

400 ACRES FOR SALE Two sets of improvements in fair condition; plenty shade trees, 2 good wells, windmills and concrete water tanks; also creek water at each place. 240 a. of bottom alfalfa land and 160 a. of upland (black soil). 200 a. in wheat, 30 a. alfalfa, 60 a. pasture, bal. corn land, all tillable. 2 mi. town. Phone. Level roads. Will sell part or all. Terms on part. Price \$80 per acre. T. F. JOHNSTON, Garfield, Kan.

ALFALFA FARMS Write for list of farms and ranches near the best college town in the state. T. B. GODSEY, Emporia, Kan.

MISSOURI

WRITE Morris & Walker for list of south Missouri farms. Mountain View, Mo.

HOMESSEEKERS farm list. Southwestern Land & Imml. Co., Springfield, Mo.

Chicken ranch, \$800. Terms. Other farms. Pictures, maps, free. Box 594, Mt. View, Mo.

\$5 DOWN, \$5 monthly buys 40 acres grain, fruit, poultry land near town. Price \$200.00. Other bargains. Box 372, Carthage, Mo.

VALLEY FARMS, \$25 to \$50; unimproved lands, \$6 to \$20; orchard and berry farms, \$40 up; water and climate unexcelled. Literature and free list. ANDERSON REAL ESTATE CO., Anderson, Mo.

A SNAP. 97 acres improved, every acre tillable, 1 1/2 miles from railroad town. Price \$4,000. Finest 1,800 acre ranch in Missouri, \$15,000 improvements, \$35 per acre. Missouri Land Co., Humansville, Polk Co., Mo.

SOUTHEASTERN MISSOURI LANDS—If you want to become independent, buy a farm in Scott Co., Mo., in the rich drained lands that raise anything and raise it certain. All we ask is a chance to "Show you." Prices very reasonable. Write F. S. Bice, Oram, Mo.

ONE of Howell Co., Mo., good farms. 279 a.; 170 cult., 9 room house, good cellar. Large barn, other buildings. Orchard, fine water. 3 mi. railroad town, 6 mi. county seat, West Plains, on R. F. D. and phone line. 3/4 mi. school. \$40 a. No trade. A. P. COTRELL LAND CO., Pomona, Howell Co., Mo.

BATES COUNTY FARMS ranging from 40 to 800 acres; \$40 to \$75; located 60 miles south of Kansas City, Mo. J. D. SAGE, Amsterdam, Mo.

A SNAP FOR THE CASH. 200 acres, 160 fenced, 120 cultivation. 2 1/2 miles to postoffice, 1 mi. to school, 10 to county seat. Good house and barn; everlasting spring, fruit; price \$4,000. Will give terms. KIRWAN & LAIRD, West Plains, Mo.

CASS COUNTY, MISSOURI. If you ever expect to buy a farm, come to Cass Co. at once for you can save at least \$10 per a. by coming before fall rush. Exceptional bargains in farms, all sizes, only a short time. Make specialty of farms priced right. CHAS. BRD, Harrisonville, Mo.

OSARK LANDS FOR SALE. 40 a., all fenced with woven wire, 36 a. in cultivation, bal. pasture, new 5 room house, large barn and other outbuildings, fine water, 1/2 mi. school; mortgage \$500 due 4 yrs. at 5 1/2%. Price \$1,400. List free. JAS. B. WEBB, West Plains, Mo.

POLK COUNTY FARMS For Sale or Exchange Ideal climate, pure water, fine pastures, short feeding season, productive soil, prices and terms to suit. HARRY T. WEST REALTY CO., Bolivar, Mo.

Ozark Unimproved Farm Bargain 150 acres of good unimproved farming land, near Van Buren, county seat of Carter Co. Fine pasture land, good for dairy, fruit and in fact you can raise almost anything you can raise in the North. Located in the Ozarks of Missouri. Makes the climate the very best. Excellent water. Price \$10 per acre. For full particulars write JOHN M. CARNAHAN, Van Buren, Mo. (County Recorder Carter Co.)

ARKANSAS

ARKANSAS farms for sale. Terms. List free. J. C. Mitchell, Fayetteville, Ark.

80 A. impr. valley farm; on Ry. 35 cultivation. \$15 a. Robert Sessions, Winthrop, Ark.

891 A. alfalfa and cotton land; some improved, tracts to suit. \$75 per a. New list free. Pope Co. R. E. Co., Russellville, Ark.

160 ACRES one mile from Oliver, Ry. town; church, school; partly improved; good timber. In Scott county, Arkansas. Price \$3 per acre, cash. Box 308, Heavener, Okla.

17,000 ACRES, no rocks, hills or swamps. Any size farms Grant Co. \$1.50 per a. down, bal. 30 yrs. at 6%. Employment. TETTER & Co., Op. Union Depot, Little Rock, Ark.

BARGAIN. Well improved 160 near Raven- den Springs, Ark. All new buildings, good land, large orchard. Quick sale, don't miss this. Burrows, Warm Springs, Ark.

7,000 A. rich, improved lands, sold in tracts to suit purchaser; located at station, 12 mi. south Little Rock. Write F. J. Ray, Iron Mt. Ry. Land Dept., Little Rock, Ark.

COLORADO

COLORADO IRRIGATED LAND. 80 Acres for \$4,200.00.

160 acres Gov't Land joining it can be homesteaded. Ideal climate. Soft water. Joins Forest Reserve, which gives pasture for all the stock you may wish to handle. DR. PITT A. WADE, Canon City, Colo.

THE INTERNATIONAL REALTY & INV. CO. 618-20 Gas and Electric Bldg., DENVER, COLORADO Write us for highly improved irrigated and dry farms, choice Fruit Tracts in Colorado, and City Property in Denver

320 HOMESTEADS 320

I now have a few 320 acre homesteads relinquishments at from \$200 to \$1,000, perfectly level, every acre tillable, no better soil, fine water, good schools, in good neighborhoods. They will not last long. If you want a home write me now. R. T. CLINE, Towner, Colo.

OKLAHOMA

N. E. OKLA. prairie farms. Easy payments. Write J. T. Ragan, Vinita, Okla.

FOR RENT. 300 acres first class bottom land joining Chickasha, Oklahoma. Level, no rock or stumps. Price \$4 per acre cash in advance. This farm is for sale also. Golden Gate Trust Co., Chickasha, Okla.

320 ACRES good wheat land. 220 in cultivation. Good water. Well improved. \$700 worth of farm implements. All for \$6,000. Mile and a half from Guymon. I. L. Bennis, Guymon, Oklahoma.

140 A. 3 mi. McAlester, city 15,000. All bottom and all tillable, excepting 3 a. which is timber. 40 a. in cult., bal. meadow. Fair improvements. \$37 per a. Good terms. Write about other bargains. Southern Realty Co., McAlester, Okla.

BEST alfalfa farm in Oklahoma. 98 a. growing alfalfa, 25 a. wheat, 25 a. oats; 3 mi. hog tight fence; one-half mile to \$50,000 federal building. The greatest bargain ever offered. One-half mile to this city. C. W. Smith, Kingfisher, Oklahoma.

FOR SALE. A 440 acre valley farm, very rich land. No overflow. \$5,000 worth of improvements. 3 houses, barns, windmill, etc. 3 mi. from Vinita, Oklahoma. Price reasonable. Only one-third cash. Address W. J. Mercer, Aurora, Ill.

OKLAHOMA FARMS grass and timbered lands, for sale on easy terms; over one hundred tracts from twenty to one thousand acres each to select from; first cash payment from one to ten dollars per acre, balance on suitable terms. For particulars address with stamp JOSEPH F. LOCK, Oklahoma City, Okla.

FARM AND RANCHES FOR SALE. 2,800 acres fine prairie land, 500 acres in cultivation, 6 sets of improvements, 500 acres more tillable, 1,800 acres fine pasture land, five miles from good town on M. & T. railroad. Running water. Price \$15 per acre; some terms. 180 acre creek bottom farm, part in cultivation; four room house, fine rich land above overflow; all tillable. Price per acre \$20, part time at 6%. O. P. WILLIAMS, Rooms 6 and 7, Hub Bldg., McAlester, Okla.

TEXAS BRAZOS bottom farm. 320 acres, 110 cult.; 2 houses, very fine soil. \$45 per acre, 1/2 cash, balance easy. Winston McMahon, 317 Beatty Bldg., Houston, Tex.

CORN, cotton, potatoes and rice are making our farmers good money. Prices from \$25 an acre up. A few special bargains. Fidelity Immigration Co., Eagle Lake, Tex.

GERMAN CATHOLIC colonization proposition. 6,000 a. in South Texas, near Co. seat; good church and schools; 9-10 population German Catholic. \$20 per a. Also smaller tracts. D. W. GRANT, Palacios, Texas.

THE BEST cheap land proposition in the United States today. Wheat yielding from twenty to forty bushels per acre, all other crops equally good. Write us for particulars. J. N. JOHNSON LAND CO., Dalhart, Tex.

OIL LOTS EARN FORTUNES: New strike N. Humble oil belt. \$10, easy installments. Pay \$10 after I strike oil. Get part, surest co-operative proposition ever offered. Herbert Barbour, Beatty Bldg., Houston, Texas.

NORTHWEST TEXAS LANDS. Any size tracts. Buy direct from owner. Address G. A. Vawter, Dalhart, Texas.

BARGAINS IN GULF COAST LANDS. FACTS about the Mid-Gulf-Coast Country of Texas. Production, climate, rainfall, soil, markets, water. Large or small tracts. Write at once for free booklet and price lists. Reference given. John Richey & Co., Binz Bldg., Houston, Tex.

THE BEST cheap land proposition in the United States today. Wheat yielding from twenty to forty bushels per acre, all other crops equally good. Write us for particulars. J. N. JOHNSON LAND CO., Dalhart, Tex.

OIL LOTS EARN FORTUNES: New strike N. Humble oil belt. \$10, easy installments. Pay \$10 after I strike oil. Get part, surest co-operative proposition ever offered. Herbert Barbour, Beatty Bldg., Houston, Texas.

NORTHWEST TEXAS LANDS. Any size tracts. Buy direct from owner. Address G. A. Vawter, Dalhart, Texas.

BARGAINS IN GULF COAST LANDS. FACTS about the Mid-Gulf-Coast Country of Texas. Production, climate, rainfall, soil, markets, water. Large or small tracts. Write at once for free booklet and price lists. Reference given. John Richey & Co., Binz Bldg., Houston, Tex.

THE BEST cheap land proposition in the United States today. Wheat yielding from twenty to forty bushels per acre, all other crops equally good. Write us for particulars. J. N. JOHNSON LAND CO., Dalhart, Tex.

OIL LOTS EARN FORTUNES: New strike N. Humble oil belt. \$10, easy installments. Pay \$10 after I strike oil. Get part, surest co-operative proposition ever offered. Herbert Barbour, Beatty Bldg., Houston, Texas.

NORTHWEST TEXAS LANDS. Any size tracts. Buy direct from owner. Address G. A. Vawter, Dalhart, Texas.

BARGAINS IN GULF COAST LANDS. FACTS about the Mid-Gulf-Coast Country of Texas. Production, climate, rainfall, soil, markets, water. Large or small tracts. Write at once for free booklet and price lists. Reference given. John Richey & Co., Binz Bldg., Houston, Tex.

THE BEST cheap land proposition in the United States today. Wheat yielding from twenty to forty bushels per acre, all other crops equally good. Write us for particulars. J. N. JOHNSON LAND CO., Dalhart, Tex.

OIL LOTS EARN FORTUNES: New strike N. Humble oil belt. \$10, easy installments. Pay \$10 after I strike oil. Get part, surest co-operative proposition ever offered. Herbert Barbour, Beatty Bldg., Houston, Texas.

NORTHWEST TEXAS LANDS. Any size tracts. Buy direct from owner. Address G. A. Vawter, Dalhart, Texas.

BARGAINS IN GULF COAST LANDS. FACTS about the Mid-Gulf-Coast Country of Texas. Production, climate, rainfall, soil, markets, water. Large or small tracts. Write at once for free booklet and price lists. Reference given. John Richey & Co., Binz Bldg., Houston, Tex.

THE BEST cheap land proposition in the United States today. Wheat yielding from twenty to forty bushels per acre, all other crops equally good. Write us for particulars. J. N. JOHNSON LAND CO., Dalhart, Tex.

OIL LOTS EARN FORTUNES: New strike N. Humble oil belt. \$10, easy installments. Pay \$10 after I strike oil. Get part, surest co-operative proposition ever offered. Herbert Barbour

WRITE TO-DAY.
ADMIRAL HAT PRESS CO. KANSAS CITY, MO. BOX 27

WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and Oklahoma, 1124 So. Market St., Wichita, Kans.
John W. Johnson, 820 Lincoln St., Topeka, Kan., N. W. Kansas and S. Nebraska.
C. H. Walker, N. E. Kansas, N. Missouri, 3632 Flora Ave., Kansas City, Mo.
Geo. W. Berry, N. Nebraska and W. Iowa, Capper Bldg., Topeka, Kans.
Harry W. Graham, E. Iowa and Illinois, Chillicothe, Mo.
Ed R. Dorsey, S. E. Kansas and S. Missouri, Girard, Kans.

PUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Poland China Hogs.

Aug. 12—H. Fesenmeyer, Clarinda, Ia.
Aug. 13—John B. Lawson, Clarinda, Ia.
Aug. 13—J. W. Pfander & Sons, Clarinda, Ia.
Oct. 1—D. C. Lonergan, Florence, Neb.
Sept. 4—J. C. Stalter, Jasper, Mo.
Sept. 17—L. R. McClarnon, Braddyville, Ia.
Oct. 21—H. B. Walter, Effingham, Kan.
Oct. 15—R. B. Davis, Hiawatha, Kan.
Oct. 17—Thos. F. Walker & Son, Alexandria, Neb., at Fairbury, Neb.
Oct. 13—Lambert Bros., Smith Center, Kan.
Oct. 20—Roy Johnston, South Mound, Kan.
Oct. 22—H. C. Graner, Lancaster, Kan.
Oct. 25—J. H. Hamilton & Son, Guide Rock, Neb.
Oct. 25—J. W. Leeper, Norton, Kan.
Oct. 28—W. R. Webb, Bendena, Kan.
Oct. 28—Joe Hemmy, Hill City, Kan.
Oct. 29—Walter Hildwein, Fairview, Kan.
Oct. 30—Harry Wales, Peculiar, Mo.
Oct. 30—Merton Williams, Valley Falls, Mo.
Nov. 1—John Belcher, Raymore, Mo.
Nov. 5—Joe Schneider, Nortonville, Kan.
Nov. 5—R. B. Davis, Hiawatha, Kan.
Nov. 6—W. E. Epley, Diller, Neb.
Nov. 8—John Naiman, Alexandria, Neb., at Hebron, Neb.
Feb. 3—J. H. Hamilton & Son, Guide Rock, Neb.
Feb. 10—H. B. Walter, Effingham, Kan.
Feb. 12—Thos. F. Walker & Son, Alexandria, Neb., at Fairbury, Neb.
Feb. 13—J. E. Willis, Prairie View, Kan.
Feb. 13—W. E. Epley, Diller, Neb.
Feb. 14—J. F. Foley, Orinogue, Kan.
Feb. 17—L. E. Klein, Zeandale, Kan.
Feb. 18—J. H. Harter, Westmoreland, Kan.
Feb. 19—J. L. Griffiths, Riley, Kan.
Feb. 24—M. T. Shields, Lebanon, Kan.

Duroc-Jersey Hogs.

Oct. 17—Moser & Fitzwater, Goff, Kan.
Oct. 30—A. T. Cross, Guide Rock, Neb.
Oct. 31—A. M. Rinehart & Son, Smith Center, Kan.
Nov. 1—N. B. Price, Mankato, Kan.
Nov. 5—W. E. Monasmith, Formoso, Kan.
Nov. 7—Leon Carter, Asherville, Kan.
Nov. 23—W. E. Monasmith, Formoso, Kan.
Jan. 29—N. B. Price, Mankato, Kan.
Jan. 30—Geo. P. Philippi, Lebanon, Kan.
Jan. 31—A. M. Rinehart & Son, Smith Center, Kan.
Feb. 4—Moser & Fitzwater, Goff, Kan.
Feb. 5—Samuelson Bros., Cleburne, Kan.
Feb. 6—Leon Carter, Asherville, Kan.
Feb. 7—E. G. Munsell, Herington, Kan.
Feb. 9—E. A. Trump, Formoso, Kan.
Feb. 10—Agricultural College, Manhattan, Kan.
Feb. 11—Thompson Bros., Garrison, Kan.
Feb. 20—John Emigh, Formoso, Kan.
Feb. 21—Dann D. Shuck, Burr Oak, Kan.
Feb. 25—A. T. Cross, Guide Rock, Neb.

Aberdeen Angus Cattle.

Oct. 22—W. F. Eckles, Green City, Mo.

Holstein and Ayrshire Cattle.

June 19—William Galloway Farms, Waterloo, Ia.

Hereford Cattle.

Dec. 30-31—Mousel Bros., Cambridge, Neb.
Feb. 12-13—Nebraska Hereford Breeders' association, at Grand Island, Neb.

Col. C. E. Bean is one of the busiest men in Kansas. Besides being an extensive manufacturer and owner and manager of the Anderson county fair, he owns a herd of purebred Poland China hogs and a string of harness horses. He will start a string of trotters and pacers at the St. Joe, Mo., meeting July 1st. These horses are entered through the western circuit and Kansas and Oklahoma circuit. In addition to his other work Col. Bean is arranging to hold a combination jack sale at Garnett, Kansas, in the early spring of 1914.

The Panama-Pacific International Exposition, which will be held in San Francisco in 1915, will contain a number of innovations in the livestock section. Livestock will be on display every day during the exposition which will last 10 consecutive months, from February until December. The educational value of the livestock exhibited will be augmented by daily illustrated lectures and signs giving the name, breed, origin and use of the animals exhibited. The exposition management has set aside \$175,000 as prize money for the different classes of livestock.

In addition to this prize money there will be numerous trophies and special prizes for which to contest. The leading record associations have already set aside liberal appropriations for this exposition. There will be classes and premiums for all lines of farm livestock and poultry. The livestock department is under the direction of Daniel O. Lively, who says the exhibit will be the finest that has ever been presented to the world.

In the breeding of Poland Chinas, L. R. McClarnon, Braddyville, Iowa, has made a splendid success by crossing the get of the two great sires, Colossal and Big Orange. The yearling sows sired by Colossal which were sold in his winter bred sow sale were pronounced by the breeders present on that occasion, superior to any like bunch of sows sold for some time. Those sired by Colossal and out of Big Orange sows especially, are of the correct type combining unusual size with quality and show yard finish. Mr. McClarnon has on hand about 135 spring pigs, of which 100 are by Colossal and the balance are the get of Big Orange.

On the evening of May 31st the purebred stock men and farmers of Jewell county met at Mankato and organized the Jewell County Breeders' association. In perfecting their organization they followed closely the plan of the Mitchell County Breeders' association which has been one of the state's most successful county associations. Quite a number of the Mitchell county breeders were present and assisted the breeders of their sister county in organizing their association. This meeting is largely due to the personal efforts of Dr. W. W. Spencer. He not only secured the meeting which resulted in this organization but arranged for the banquet which was served by the ladies of the Presbyterian church. Jewell county is one of the banner counties of the state in the production of alfalfa and corn and is at present the home of more breeders of purebred stock than any other county in the state. The farmers of Jewell county almost without exception are advocates of better methods in farming and animal husbandry. About 200 persons were in attendance and they were well cared for in the way of entertainment. Plenty of good music, furnished by a local orchestra, plenty of speaking by local and visiting breeders of fine stock and plenty of good things to eat made the evening one long to be remembered by those who attended. Mr. F. C. Crocker of Filley, Nebraska, made the principal address and his discussion of the purebred stock business from various standpoints was well received. Mr. Crocker is the largest breeder of Duroc-Jersey hogs in southern Nebraska and president of the Nebraska Swine Breeders' association. J. M. Rodgers of Beloit made a timely talk about breeders' associations and told about the success of the Mitchell county association of which he is secretary. Senator Logan of Beloit who is a well known breeder of Poland China hogs, made a short talk along the same line. W. B. Mitchell of Mankato, presided as toastmaster. Robt. Turner, Col. John Brennen and F. W. Bevington, of Jewell City, and others made short talks. After the banquet and speeches, the organization was perfected. F. W. Bevington of Jewell City was elected president, W. E. Monasmith of Formoso, vice president; I. W. Kyle, secretary and Dr. W. W. Spencer, treasurer. The following

board of directors was elected: J. W. Berry, Jewell City; W. E. Monasmith, Formoso; E. M. Myers, Burr Oak; Robt. Rystead, Mankato and Wiley Alcorn, Ionia, Kansas.

Shorthorn Cattle Sell Well.

C. S. Nevius's June 6th sale announcement brought together the largest list of buyers and interested spectators that has ever attended one of his sales. Mr. Nevius has one of the best herds of Shorthorns in the West and it is being recognized as such by the leading breeders of the Reds, Whites and Roans. The herd is noted for the strength of its product in both show ring and feed lot. The herd numbers perhaps 200 head and includes some of the greatest producing matrons of the breed. At the head of this collection of cows stands a trio of bulls that would be very hard to duplicate. Mr. Nevius had his offering in splendid condition. It showed the value of the silo in the production of beef cattle. The Kansas State Agricultural college assignment was presented in splendid condition and sold for a very satisfactory figure. Of the entire offering 10 bulls brought \$2,500, or an average of \$250, and the cows brought \$7,035, or an average of \$201. The total of the sale was \$10,625, or a general average of \$236. Mrs. Nevius and the neighbor ladies had prepared a splendid lunch, which was enjoyed by all present. Colonel "Bob" Harriman made one of his characteristic Shorthorn talks. He then opened the sale by offering some of the choice Scotch females, which sold around \$300. Mr. Nevius then brought in the two bulls, White Searchlight and Searchlight Bloom, about which so much had been written in the advertising. As soon as he made the announcement that he would sell the choice of these bulls, it was evident that the fight was on. The bidding was snappy with some six or eight contestants until the price reached \$500, after that time it simmered down to two or three bidders, when the final bid of \$580 was announced. It was evident from the start that both Mr. Nevius and Colonel Harriman liked the white bull and this was the choice of the high bidder, Robert Schultz of Holton, Kansas. A large number of the breeders and several of the newspaper men liked the roan bull and, with at least one of the original contestants eliminated, he brought \$525, going to Graves & Wilson of Wellsville, Kansas. D. E. Reber of Morrill, Kansas, was a runner-up on both of these bulls. He is in need of a high class herd bull. A number of the leading breeders of both Missouri and Kansas gave liberal support to this sale and took quite a number of the choicest females. M. C. Convers of Peabody, Kansas, was the heaviest individual buyer. Following is a list of purchasers and representative sales:

BULLS.

White Starlight, Robt. A. Schultz, Holton, Kan.	\$580.00
Searchlight Bloom, Graves & Wilson, Wellsville, Kan.	525.00
Lustrous Light, J. Ellis, Paola, Kan.	355.00
Master Butterfly 5th, W. F. Gleam, Bloomington, Kan.	235.00
Goodlight, A. H. Cooper, Natoma, Kan.	325.00
Sir Magnet 5th, Jas. E. Hunter, Louisburg, Kan.	100.00
Violet's Valentine, Iva Allen, Burlington, Kan.	155.00
Leonora's Valentine, H. O. Ellis, Paola, Kan.	130.00
White Valentine, A. F. Kitchen, Osage City, Kan.	100.00
Searchlight M., Dave Rogers, Stillwell, Kan.	85.00

FEMALES.

Knight's Secret, Thompson Bros., Dover, Kan.	250.00
Princess Magnet, Bellows Bros., Maryville, Mo.	300.00
Miss Magnet, J. H. McCullough, Creighton, Mo.	275.00
Princess S., Ed Stegell, Straight Creek, Kan.	300.00
Emma Searchlight, Bellows Bros., Maryville, Mo.	325.00
Lad's Emma, M. S. Convers, Peabody, Kan.	300.00
Jenny Lind A., Clarence Wood, Chiles, Kan.	160.00
Goldie Bampton, Jos. King & Sons,	

Potwin, Kan.	125.00
2d Lady Phyllis, W. C. Harkey, Lenexa, Kan.	145.00
Jenny Lind S., W. F. Gleam, Bloomington, Kan.	160.00
Lavender Queen, H. H. Holmes, Great Bend, Kan.	300.00
Lady Mine, C. J. Goven, Raymore, Mo.	140.00

Frank Howard.

S. E. Kansas and S. Missouri

BY JOHN W. JOHNSON.

Andrew Kosar, Glasco, Kan., has about 50 O. I. C. pigs running in ages from January to May farrow, also two nice gilts bred for August farrow, that he is offering for sale. His pigs are sired by O. K. Wonder, by Wonder 2d. He is one of the best breeding boars that Mr. Kosar has ever owned. A few of the pigs are by Valley Lad. He has recently bought a fine young boar which is recorded as Grand View Choice, and bred by Silver & Co. He is by Bright Tony and is the making of a great individual. Write Mr. Kosar for prices and descriptions. Look up his advertisement in this issue.

N. E. Kansas and N. Missouri

BY C. H. WALKER.

Klaus Brothers of Bendena, Kansas are changing their ad this week and are offering two choice yearling bulls. These are strictly in the herd header class. Klaus Brothers own one of the best bred herds of Whites in Kansas. Their show herd is seen regularly in all the western shows where they win their share of the ribbons. Write Klaus Brothers if interested in Herefords.

Joe Schneider's Poland Chinas.

Joe Schneider of Nortonville, Kansas, is offering 20 head of extra good fall gilts and a few good fall boars. A part of the gilts are bred for September farrow, the others will be offered open. The boars are a thrifty lot and ready for hard service. Mr. Schneider is making especially low prices on these boars to move them quick. All of our readers who have bought Poland Chinas from Joe Schneider know that he produces a kind that pleases all buyers. He guarantees every representation. Write him if interested.

Ben Schneider's Holsteins.

Ben Schneider of Nortonville, Kansas, owns a small but well bred herd of Holstein cows. He carries a card regularly in Farmers Mail and Breeze. The herd at present numbers 30 head. Mr. Schneider recently had six of his cows tested; four of them making 18 pounds of butter in 7 days; one made 20 pounds and the other 23 1-4 pounds. Mr. Schneider says this test is the only way to find out whether dairy cows are worth keeping. Since last January he has sold \$2,650.00 worth of cattle. At present he has two bulls old enough for service that would make good herd headers. They are out of 18 pound cows. He also has a nice bunch of heifers, yearlings past. These heifers are bred and will be sold worth the money. They are as well bred as can be found and come from high producing cows.

Neef's Cholera Immune O. I. C.'s.

A recent inspection found the Riverside Farm's herd of Cholera Immune O. I. C.'s, owned by John H. Neef of Boonville, Mo., to be in the best shape this well known breeding establishment has yet reached. In his breeding operations Mr. Neef has gotten to the point where he knows just about what each sow will produce bred to a certain boar and he has mated them for the best results. The spring crop of pigs this year which numbers at the present time upwards of 75 head with five good sows yet to farrow constitute about the best lot that have graced the Riverside Farms. They are sired by Neef's Oak a son of Ed's Oklahoma Boy 2nd by Oklahoma Boy which is rich enough pedigree for anyone. Neef's Keep On by Doolittle's great boar, White Eagle Chief and O. K. Perfection by O. K. Winner, all of which combine the best in prize winning O. I. C. pedigree. At the present time Mr. Neef has for sale a number of toppy fall boars and gilts, the spring pigs and will sell one of his herd boars, Pink Oak, a two-year-old son of the champion White Oak. This fellow has proven a good breeder in Mr. Neef's herd, but as there are several of his sisters and half sisters and much of his get on the farm Mr. Neef can spare him. He is pricing him very low, considering the boar's ability. Mr. Neef's trade has been heavy the past year and he has shipped hogs to all parts of the country. He makes a specialty in furnishing pairs and trios not related and in this feature has been very successful. A choice flock of Shropshire sheep has been added to the list of pedigree breeds maintained at Riverside. Write Mr. Neef for particulars and prices on the stock he has to offer.

W. Iowa and N. Nebraska

BY GEO. W. BERRY.

Searle & Cottle, owners of Bonnie View herd of Duroc-Jersey hogs at Berryton, Kansas, have just sold to Stone Bridge Stock Farm at Richland, Kansas, 11 spring gilts and one boar. This is the foundation for a new herd of Duroc-Jerseys, in Kansas. Messrs. Searle & Cottle have furnished several foundation herds and are in a position to supply a few more such demands. In this issue of Farmers Mail and Breeze they are offering a line of spring pigs that are exceptionally good. They are sired by Tat A Walla and S. & C's Col.

John Lawson's Poland Chinas.

This representative of the Arthur Capper Publications enjoyed the pleasure of a visit recently at the farm of John Lawson, well known breeder of big type Poland Chinas, Clarinda, Iowa. Mr. Lawson's farm is one of the best equipped breeding establishments that I have had the privilege of seeing and is particularly suited to the breeding of hogs. This farm has long been known as the home of the great boar, Long King's Equal, one of the largest and best big type sires. The brood sows include a number of the very best daughters of the noted



Feeding Time With John L. Naiman, Alexandria, Neb.

In this issue Mr. Naiman is advertising some choice fall gilts bred for September farrow and some choice matured sows bred for last of August and September farrow. Look up his advertisement in the Poland China advertising section of Farmers Mail and Breeze.

Fessenmeyer boar, A Wonder. Mr. Lawson has made a great hit with the produce of his A Wonder sows and Long King's Equal. A last fall boar, by name, King Of All, is one of the most promising young boars that now engages the attention of the public. King Of All was sired by Long King's Equal and his dam is June Wonder, a daughter of the real A Wonder. There are no less than eight litters of spring pigs on the place, bred exactly like King Of All. Long King's Equal is assisted by A Wonder Jumbo, a son of A Wonder and Lady Jumbo 1st. A Wonder Jumbo is one of the best sons of his noted sire I have ever seen. He is a litter brother to three of the best sows in the herd. Breeders who visit at Clarinda, Iowa, will enjoy a day at Mr. Lawson's splendid breeding farm.

A Wonder Poland Chinas.

A visit by this representative of the Arthur Capper Publications at Clarinda, Iowa, found the well known breeder Henry Fessenmeyer, meeting with his usual success with his herd of big type Poland Chinas. Mr. Fessenmeyer's spring lot of pigs include 110 head, most of which were sired by his famous boars A Wonder and Big Joe. The old veteran sire A Wonder, perhaps the best and most favorably known boar of the breed living is in good health and splendid vigor, and now at the age of eight years gives promise of several years of usefulness. Big Joe has developed into a splendid specimen of the big type, combining plenty of size with remarkable smoothness and extreme finish. The matings of A Wonder sows with Big Joe, and the Big Joe sows with A Wonder, have proved successful, and the results show that Mr. Fessenmeyer made no mistake in selecting Big Joe as a companion of A Wonder at the head of his herd. Mr. Fessenmeyer will hold his next sale at his farm adjoining Clarinda on the 12th of August. The new improvements on this farm include a new hog house and sale pavilion. Visitors will find that Mr. Fessenmeyer is better equipped for handling Poland Chinas, as well as better prepared to furnish his patrons with choice breeding stock, than ever before.

Pfander's Giant Polands.

John Pfander & Sons, breeders of big type Poland Chinas, Clarinda, Iowa, will hold their next public sale on August 13. A visit by the writer to the Pfander farm found the giant herd of Poland Chinas in first class condition. Spring pigs are large, growthy and uniform. The young herd boar, King of Wonders, is developing in the most satisfactory way. On the 15th of May, the day he was fifteen months of age, he weighed exactly 665 pounds, without being overdone. He has wonderful length and depth, with a great back, massive hams, is smooth and mellow, with an excellent coat, stands on the best of feet and pasterns and bids fair to develop into one of the biggest and best sires of the breed. His first crop of pigs show great size and length, with the best of heads and good feeding qualities. This brief mention of the Pfander herd would be incomplete without references to a litter of pigs by the noted A Wonder and from Lady Giantess 2nd, a great sow by the celebrated Long King. This litter includes five choice males which are unexcelled in quality by any other pigs of like age the writer has seen during the season.

Nebraska Herefords.

I recently enjoyed the pleasure of a visit at the breeding farm of Elmer Youngs, breeder of registered Herefords and Duroc-Jerseys, Lexington, Nebr. Mr. Youngs is the proprietor of one of the best improved farms and one of the best equipped breeding establishments that I have had the privilege of seeing anywhere in the corn belt states. His herd of Herefords will compare very favorably with the best herds of this splendid breed. For sometime he has had at the head of the herd the superb bull, Preston, a choice specimen of the breed, and possessing exceptional smoothness, style and fleshing qualities. Last year Mr. Youngs selected the young bull Tempter 3rd, now two years of age, of great scale, unusual bone and substance, thick fleshed and massive, combining the points of excellence most sought by up-to-date breeders. Mr. Youngs is one of the very good care-takers and feeders. The bunch of young bulls now on hand are growthy, thick fleshed, and full of promise. Mr. Youngs's present intention is to reserve the young things on hand for a public sale to be held in February next. I hope to furnish the readers with a write-up of the good farm, splendid barns and breeding herds owned by Mr. Youngs at a later time.

Johnston's New Herd Boars.

Most breeders know that Roy Johnston of South Mound, Kan., has been making some changes in his herd boars this spring. He has not made such a great change in size or quality, as Mr. Johnston has been handling nothing but the very best ever since he began breeding Poland Chinas, but to hold his customer's trade it was necessary to get some new blood. Not wishing to throw bouquets or detract from others, but tell the straight facts in the case, Mr. Johnston has purchased the two best boars that we know of that were for sale. His first purchase was Knox All Hadley 56554, bred by John W. Knox All Hadley 56554, 40832, and out of Tecumseh Goldust 119646, by Johnston's Chief 35774. Mr. Johnston's next purchase was O. K. Lad 58098, one of the greatest sons of Pawnee Lad 30853, one of the greatest sires in Iowa. O. K. Lad was bred by J. O. James of Braddyville, Ia. O. K. Lad is not only well bred on his sire's side, but equally as well bred on the maternal side, being out of Mr. James's favorite brood sow, Big Marie 103491, by Big Prospect 35179. With these two herd headers in Roy Johnston's herd we will look for Knox All Hadley and O. K. Lad to make great reputations. Most of the Blain's Wonder, Orphan Chief, John Long and other sows of this line of breeding will be mated with these two hogs for the spring sale and next year's crop of pigs.

Allen Shropshires and Shorthorns.

This representative of Farmers Mail and Breeze recently enjoyed the pleasure of a visit at the farm of George Allen & Sons, Lexington, Neb. This farm is well known as the home of one of the largest and best flocks of Shropshire sheep in the world, as well as the home of the herd of superb Shorthorn cattle as bred by the late Mr. George Allen. The sons of Mr. Allen who are now associated in the breeding and

management of the Allen herd include Fred C. Allen, Wm. H. Allen, Harry R. Allen and Leslie E. Allen. In addition to the large breeding flock of Shropshires, the large breeding flock of sheep show pens of the various breeds of sheep are kept by the Allens. Their show flocks during recent years have been second to no other on state fair circuits. The show sheep at this time were found in splendid condition, and promise to repeat their former victories in past years at the fall shows. The Shorthorn division comprises over 200 matrons belonging to the best Scotch families. The herd is headed by Victor Sultan, one of the very best sons of the celebrated Whitehall Sultan, a sire that has had no superior in America. This brief mention of the Shorthorn cattle on the Allen farm at this time would be incomplete, without mention of the pure white bull, Count Lavender 4th, a senior yearling, got by Victor Sultan and from Lady Lavender 2d, a daughter of Godwin, the great Harris bred bull that stood long at the head of the Allen herd and made Shorthorn history. Count Lavender 4th is a typical Scotch bull of superior scale, thick, low down, blocky and masculine, with a perfect head and superb breed character. His full brother, Count Lavender 3d, 2 years of age, is a show bull possessing exceptional style, with a model head, and is covered smoothly and evenly from end to end. This pair of young bulls will probably be seen at the fall fairs and will make an interesting show.

Some Tried Brood Sows.

On account of C. F. Dietrich's health, he is offering some of the choice brood sows from the Dietrich & Spaulding herd of Poland Chinas. He is also offering some fall gilts and spring pigs. The offering includes Kansas Ann, a sow they have had in the herd for three years, sired by Big Boned Mow. She is a mother of large litters which she always raises. Hutchess, by Captain Hutch, the dam of the fourth prize under 1 year boar at the Kansas City Royal last fall, and the pig sold to the United States government at the Royal, after the man had looked at them all. She is a large sow and as smooth as an apple, bred to Gold Mine to produce some more like these. Our Choice, by Wide Awake, by Blue Valley Exception. Her dam was the third prize gilt in the 6 months class at Topeka in 1910. They don't get them any better. Silver Belle, by Gold Mine, third in his class at the Royal last fall, out of Blue Belle, the largest and best brood sow on the farm. Silver Belle was bred to Best Price, May 10, for a September show litter. Best Price is the great young

country. The following is a representative list of sales:

BULLS.	
Browndale Sultan, Jas. Yewell, Ontario, Can.	\$2,000.00
Roan Sultan, R. R. Ward, Benton, Ill.	1,050.00
White Star, R. E. Baldwin, Osceola, Ia.	225.00
Sittytown Archer, Jas. Brown, Chicago, Ill.	500.00
Sittytown Secret, E. Harris, Peru, Ill.	260.00
FEMALES.	
Golden Princess, Chas. Giller, White Hall, Ill.	410.00
Moss Rose, F. J. Boyer, Glen Ellen, Ill.	250.00
Gloster Sultana, J. J. Williams & Son, Grandview, Ia.	700.00
Missie of Huntlywood 3rd, Geo. B. Miller, Canton, Ill.	360.00
Rosemary 104th, W. W. Washburn, Crawfordville, Ind.	330.00
Queen Mildred, Mitchell Bros., Burlington, Ont.	710.00
78th Duchess of Gloster, Anoka Farms, Waukesha, Wis.	1,980.00
Sittytown Lady 2nd, Jas. Yewell, Ontario, Can.	1,760.00
Sittytown Mary Anne, Jas. Brown, Chicago, Ill.	325.00
Autumn Rose, C. J. McMasters, Altoona, Ill.	1,400.00
Augusta 115th, Smith & Heisserer, Oran, Mo.	725.00
Maxwalton Augusta 3d, Carpenter & Ross, Mansfield, O.	420.00
Blairgowries Augusta, J. O. Blakely, Repartee, Ill.	375.00
Flora Marshall, J. H. Warren, Del-lane Plain, Va.	330.00
Imp, Village Maiden 2nd, Robt. Fall-or, Neponset, Ill.	360.00
Lavender Princess 4th, R. R. Ward, Benton, Ill.	250.00
Susan Cumberland, Farmer Farm, Farmington, Ill.	900.00
Cumberland's Wymple, E. E. Spence, Chillicothe, O.	345.00
Sittytown Rose, Elmer Harris, Peru, Ill.	350.00

SUMMARY

6 Bulls sold for \$4,200, average....\$700.00
40 Females sold for \$21,420, average 522.45
46 head sold for \$25,620, average.... 556.95

N. W. Kansas and S. Nebraska

BY ED. R. DORSEY.

Mr. Iva Allen of Burlington, Kan., breeder of Shorthorn cattle and Poland China hogs, is getting a nice start of both breeds but has nothing to sell yet as he is trying



Well Bred, Well Belted Hampshire Hogs.

The accompanying illustration is a trio of Sunny Slope Hampshire pigs. Sunny Slope Farm is owned by Frank H. Parks, Olathe, Kan. Mr. Parks maintains a supply of Hampshires and can sell pairs or trics not related.

boar bought in Iowa this winter. His brother is the largest pig for his age that has been put on record with 598 pounds to his credit at 12 months of age. He has the ham that so many haven't. Anna Belle 2d, a sow bought of J. O. James this winter. She raised seven of the real big, husky ones. She is a kind mother and very careful. Bred for first of September litter. The last fall stuff is good, toppy stuff and will add to anyone's herd. They are all bred to the great young boar, Best Price. Some of the gilts are sired by Pan Look and some by Gold Mine, out of the show sow Expansive Lady. Mr. Walters says that Expansive Lady is the second best gilt he ever raised. The spring pigs are the best bunch of pigs ever offered by this reliable firm. They are sired by Gold Mine, Wide Awake, Pan Look and Big Orange. All of these hogs are priced cheap. It is worth a lot to any breeder or farmer to buy hogs from a firm that has such a splendid reputation for honest methods and fair dealing. Look up their ad in this issue and if interested address Dietrich & Spaulding, Richmond, Kan., mentioning Farmers Mail and Breeze.

E. Iowa and Illinois

BY HARRY W. GRAHAM.

Stanton's Top Sale.

One of the largest crowds attending a summer sale of Shorthorns was that at the Sittytown Grove Farm, of Thos. Stanton, near Wheaton, Ill., June 3rd. The sale was held in a tent 120 by 60 feet and every seat was filled. There were many states represented and not enough cattle to go round. Col. Carey M. Jones called the crowd to order and did the selling. The bidding was spirited throughout most of the sale and the highest average of the season was made; \$556.95 on forty-six head. The three-year-old son of Browndale Sultan, the three-year-old son of the Sittytown herd the last year as one of the Sittytown herds. The two-year-old heifer—78th Duchess of Gloster, was the top of the females, going to Anoka Farms, Waukesha, Wis., at \$1,980.00. Considering the time of the year and the lateness with crop planting the results of the sale are regarded as most gratifying both to the owner, and breeders of Shorthorn cattle throughout the

to enlarge his herds. He is getting in the business right, has a splendid good farm of over 400 acres and some day breeders will be invited to visit Iva Allen and look over his purebred stock.

Deming Ranch of Oswego, Kansas, contains 3,500 acres of exceptionally good land. The improvements are durable and commodious. This ranch is fast gaining prominence as the home of strictly high class purebred livestock and for its production of purebred seeds. The farm is under the management of L. S. Edwards. C. H. Hay, formerly an extensive breeder of Poland Chinas, is superintendent of the swine department of this ranch. The first sale of purebred stock was held last February and resulted in a very satisfactory average. On October 24th there will be a draft sale of some 60 head of Poland Chinas made at this place.

A. H. Cooper of Natoma, Kan., one of the leading breeders of Shorthorn cattle in the short grass region, has a nice bunch of 16-months-old bulls just the proper age for good service, for sale. Having been raised in a high altitude in the western part of the state where the best feeders are developed assures the buyer of actual service. These cattle are rugged enough for the range, high enough bred to go into the very best of herds and at a price that is worth the coin. Mr. Cooper is not scanty in his purchases, attends the very best sales and buys the best offered and therefore is in a position to guarantee satisfaction and make good what he offers.

An Exceptionally Good Offering.

Youdon Eckman of Vinland, Kansas, a short distance from Lawrence, on the A. T. & S. F. Ry., has a perfect right to be called one of our splendid Duroc breeders although less than three years in the purebred hog business. He has one hundred beautiful pigs now ready to ship; they are by Eckman's Special 124663 and Gold King 126195. The first one was bred by J. O. Hunt of Maryville, Kansas. Gold King won his fame as a State Fair champion. The sows in the herd are sired by Grand champions of many states, such as B. & C's Col. 80587, Buddy K. 4th 20861, Chief's Martial 115277, Bell's Chief 2nd 63801, White House King 69543, Golden Goods 70513, Worthy Chief 114313, etc.; hogs that were used in the herds of Samuel Drybread, Elk

City, Kansas; J. O. Hunt, Marysville, Kansas; Samuelson Bros., Cleburne, Kansas; W. R. Huston, Americus, Kansas, and other prominent breeders. Mr. Eckman's offering is as good as the best. Write him if interested and mention Farmers Mail and Breeze.

Lavelock Offers His Best.

As there is such a demand for Hampshires and as they are so hard to find we are sure our readers will be glad to know that T. W. Lavelock has concluded to sell a few of his reserves and is now offering a limited number of young sows, both open and bred. Mr. Lavelock has the distinction of being one of the oldest and largest.

F.S.H. A Remedy For Sick Hogs and Chickens that has proven a success for the cure of worms in Hogs, and the Germ disease of chickens. If your dealer can not supply you send us \$1 for one bottle, enough for 30 hogs or 3000 chickens. If not satisfactory, your money refunded. The OLEPHEN CHEMICAL CO., Wamego, Kan.

LIVESTOCK AUCTIONEERS.

L. J. Calloway, Lebanon, Kansas
Livestock Auctioneer. Write or phone for dates.

Jas. T. McCulloch, Clay Center, Kan.
Reference: The breeders I am selling for every year. Write for open dates.

JAS. W. SPARKS Live Stock Auctioneer
MARSHALL, MO.

Col. D. F. Perkins, Concordia, Kan.
Up-to-date methods in the Auction business. Purebred stock sales and big sales generally. Write for dates.

Will Myers Beloit, Kan. Is already booked on leading breeders' sales in Central Kan. Choice dates still open. Write or wire.

CHAS. M. SCOTT Livestock Auctioneer. Thoroughly posted on pedigrees and values. Formerly of Scott & Singer, Poland China breeders. Hiawatha, Kan.

John D. Snyder HUTCHINSON, KANSAS
LIVE STOCK AUCTIONEER
Wide acquaintance and practical knowledge of draft horses and pure bred live stock, all breeds.

Col. N. B. PRICE Mankato, Kan.
LIVESTOCK AUCTIONEER
Phone or write for dates. Bonney K. heads my Duroc-Jersey herd.

Learn Auctioneering

at World's Greatest School and be independent. Write today for free catalog. **4085 NATIONAL SCHOOL OF AUCTIONEERING**, 14 N. Sacramento Blvd., Chicago, Ill. Carey M. Jones, Pres.

Col. J. R. LLOYD, ATHOL, KANSAS
LIVESTOCK AUCTIONEER.
Write for terms and dates, and reference

G. A. Drybread The Auctioneer
Elk City, Kan.
Live Stock and Farm Sales made anywhere. Prices reasonable. Give me a trial. Satisfaction guaranteed.

N. S. HOYT, Mankato, Kan.
Livestock Auctioneer. Big Horse and other Stock Sales a specialty. Terms reasonable. Special service to breeders.

FRANK J. ZAUN FINE STOCK AUCTIONEER
Independence, Mo., Bell Phone 675 Ind.
My References: America's best breeders for whom I have been selling for years.
Get Zaun He Knows How

Be an Auctioneer

Travel over the country and make big money. No other profession can be learned so quickly, that will pay as big wages. Write today for big, free catalogue of Home Study Course, as well as the Actual Practice School, which opens August 4th.

MISSOURI AUCTION SCHOOL
Largest in the World. W. B. Carpenter, Pres.
1400-04 Grand Ave., Kansas City, Mo.

DUROC-JERSEYS.

BRED GILTS I have an exceptionally fine lot of Duroc gilts bred to my prize winning boars for sale, bred right and fed right. Write for prices and description.
CHAS. L. TAYLOR, OLEAN, MISSOURI

Duroc-Jersey Spring Pigs
Dark cherry, sired by Bull Moose Col. 138255, he by King the Col. 89533 and out of large prolific sows, of popular breeding, priced reasonable, and f. o. b. your station if desired. **Arthur A. Patterson, Ellsworth, Kan.**

Deep Creek Herd Durocs!
Orders taken now for early spring pigs, dams either state fair prize winners or sired by prize winners. Write for low prices.
C. O. ANDERSON, MANHATTAN, KAN.

Good E. Nuff Again King 35203
Heads our great herd. Sale average: March 11, sows, \$77.50, sows and gilts, \$52.00. Write for prices.
W. W. OTEY & SONS, Winfield, Kansas

Duroc Pigs, Popular Breeding
I am offering 100 spring pigs, by Eckman's Special 124663 and Gold King 126195 out of sows by B. & C's Col., Buddy K. IV, Chief's Martial, Belle's Chief 2nd, Golden Goods, etc. Youdon Eckman, Vinland, Kans.

Dreamland Colonel
Summer and fall boars and gilts for sale. Everything imaginable. Nothing but desirable animals offered. Prices reasonable.
LEON CARTER, Asherville, Kan.

DUROC-JERSEYS.

Duroc March Pigs \$9.00 and up, by Model Again, Long Lad and Tatarax Boy. R. W. Baldwin, Conway, Kan.

Wanted--Duroc Jerseys

Three or four bred sows or gilts f. o. b. Wilroads or Dodge City, Kan. Give weight, registration, number in litter, etc. EYMAN BROS., WILROADS, Ford Co., Kan.

E. A. TRUMP, Formoso, Kan.

Breeder of fashionable Duroc-Jerseys. Stock for sale at all times. Write for prices and descriptions.

Duroc Boars For Sale

Zeke Col. by B. & C. Col. my great herd boar, also a few of his fall boars, price \$20. Good bone and thrifty. S.O. Buff Leghorn eggs \$1 per 15, \$4 per 100. JOHN FERRENOUD, HUMBOLDT, KAN.

HILLSIDE HERD

We offer spring pigs by Dandy Model 131733, pairs and trios not related. Write today about that young boar you need now. One 165-pound pig by J. R. Col. and a good one. W. A. Wood & Son, Elmdale, Kansas.

Big-Type DUROCS

Fall gilts bred or open. Booking orders for spring stock. Monarch, Wonder, Col. and Buddy strains. Fall sale Oct. 17. MOSER & FITZWATER, GOFF, KANSAS

Stith's DUROCS

Sows and gilts bred to and young boars and gilts by Model Duroc, one of the best sires of the breed. His half brother and sister were grand champions. His sire was a champion. Write today. CHAS. STITH, Eureka, Kansas

HANNA'S DUROCS

September boars, good boned, good backed stretchy fellows by Model Col. H. and Mos' Tat, a good son of Tatarax; also a few good open gilts by the same sire. Satisfaction guaranteed. A. J. HANNA, ELMDALE, KANSAS

Quivera Place Durocs

A few, choice summer boars and gilts, sired by Quivera 106614. E. G. MUNSELL Herington, Kansas.

BONNIE VIEW FARM DUROC-JERSEYS

Extra fine spring pigs, sired by Tat A Walls and S. & C. Col. Searle & Cottle, Berryton, Kans.

POLAND CHINAS.**Perfection Stock Farm!**

Fall boars and gilts, also orders booked for choice spring pigs by State Fair Champions. Pairs and trios not related. Prices right. CLASEN BROS., UNION CITY, OKLA.

TATARRAX HERD DUROCS

Good fall gilts, open or bred, by the grand champion Tatarax and G. M. Tat Col. In good condition and priced right. Write today for further particulars. Hammond & Buskirk, Newton, Kan.

A FINE OFFERING

Spring pigs sired by R. C. Buddy, Watson a Col. and Model Top. Prices \$20 to \$25. E. C. WATSON, Altoona, Kansas.

COLUMBUS

The 1050-lb. Grand Champion, 1912, Nebraska, Kansas, Missouri and American Royal, heads my herd Big Type Poland Chinas R. B. BAIRD, Central City, Nebraska

10 Duroc Jersey Boars

of summer and fall farrow. \$25 each to move them quick. Sired by Model Chief and out mature sows. Dana D. Shuck, Burr Oak, Jewell Co., Kansas

Bancroft's Durocs!

We hold no public sales. Nothing but the best offered as breeding stock. 12 choice September boars. September gilts open or bred to order for fall litters. 90 March pigs. Pairs or trios not akin. Prices right. Customers in 8 states satisfied. Describe what you want, we have it. D. O. BANCROFT, OSBORNE, KANSAS.

Albright's Fall and Winter Boars

and Gilts for sale. 40 head of nice, smooth individuals, sired by Cavett's Mastiff, by King Mastiff, and out of big type sows. Write for prices. A. L. ALBRIGHT, Waterville, Kansas

LARGE WITH PLENTY OF QUALITY!

Handsome young boars, gilts bred or open. Best of large type blood lines. Some boars, herd headers. Satisfaction guaranteed on all breeding stock. OLIVIER & SONS, DANVILLE, KANSAS.

Harry Hoak's Poland Chinas

Spring boars and gilts, pairs and trios unrelated. Fashionable big type blood lines. The finest lot of pigs we ever raised. Call or write today. HARRY HOAK, Attica, Kan.

POLAND CHINAS!

Bred sows at private sale. Also fall and spring boars. Sows bred to Tom Lipton, Welcomer, Iron Clad 2d and others. Priced right. Ask for prices and descriptions. JOSEPH M. BAIER, ELMO, KANSAS.

Dean's Mastodon Polands

Poland China hogs, the big-boned type, will weigh when mature, 800 to 1,000 lbs. Will sell a few boars of serviceable age, also choice brood sows and gilts, bred to my herd boars, for spring farrow. All

Immunized by Double Treatment

Herd headed by Mastodon Price, Columbia Wonder and Gritter's Longfellow 3d. Everything guaranteed and sold worth the money. Address CLARENCE DEAN, WESTON, MISSOURI

est Hampshire breeders in the state of Kansas and is the first breeder in the state to hold a public sale of this breed. He takes special pride in his business and is perfectly reliable. If interested write him at Princeton, Kansas.

Clarence White's Shorthorns.

Clarence White of Burlington, Kan., breeder of Shorthorn cattle and Poland China hogs, is fitting up a full herd of cattle for the fall shows. Mr. White is his own "Scotchman" this year and so far his cattle are taking on flesh in fine shape and we will expect them to be in prime condition by the time the circuit opens. In order to give his friends an opportunity to win at his own home fair this year, he has decided to go elsewhere with his fitted cattle on the week of the Burlington show. Mr. White has one of the richest and best bottom farms in the state. It not only grows fine cattle and fine hogs but the best of alfalfa, bluegrass and clover as well as great fields of corn.

Berkshires, Berkshires and Berkshires.

It's a sight to visit the great Berkshire breeding farm owned by E. D. King of Burlington, Kan. Mr. King is the Kansas king for Berkshires as he has 800 and has just started in to breed 135 for fall farrow. He breeds close to 1,500 a year, culls out about one-fourth for the market and sells the best to breeders. Buyers come from several states, often buying as many as 20, to twice that number, in one purchase. At this writing he is negotiating with a party from the East for 50 head. He thinks it no disgrace to send to the market the poorer ones. Looking over those now being put in shape for the market it looks like a pity to sell many of them when farmers and hog growers could use them and perhaps grow as much pork as from anything on the farm. If their noses are not bent enough and just a little too long to suit the Berkshire fancy off the hog goes to Kansas City; other ways they are worth just as much money as any he breeds. Mr. King is a national judge, having the honor of judging at the largest fairs in America, and he certainly culls closely. As he has so many hogs he will not attempt to describe any of them, but suggest that you write him for prices and particulars. Please mention Farmers Mail and Breeze.

Editorial News Notes.

Why waste 30 minutes unloading corn with a shovel when the work can be easily and quickly done with an elevator in four or five minutes? Think of the tremendous amount of labor and time saved by this wonderful piece of modern farm machinery, and labor and time mean money to the average farmer. You can build higher corn cribs at small additional expense. It looks like a money saving investment, doesn't it? If you are interested in getting your corn stored quickly, easily and economically, don't fail to write to the Portable Elevator Company, 120 McClun street, Bloomington, Ill., and ask them for their book on the "Little Giant" elevator. They will be glad to send you a copy. Write today while you think of it.

Hay Growers. Attention!

Here are two books which you want, because they are a chuckful of gold hard facts about getting the most money out of your hay crop. One of them tells about Whitman's "Steel Queen" hay press and the other about Whitman's "Sultan" engine. They are both free for the asking. The "Steel Queen" has for many years been recognized as one of the very best hay presses on the market; and the "Sultan" engine is universally known as a high quality farm power that has no superior. It will pay you to learn about these two machines. Send today for the books and get the maker's special proposition. Address Whitman Agricultural Works, 6916 South Broadway, St. Louis, Mo.

The Pioneer Tractor Awarded Gold Medal Abroad.

James T. Code, traveling state representative for the Pioneer Tractor Co. of Winona, Minn., is now located at Hutchinson, Kan. He recently came from Texas where he succeeded in establishing several agencies for this well known gas tractor, and his work in Kansas will be along similar lines. A part of his time will be spent at Wichita and other points in the farming sections of the state. Mr. Code is very enthusiastic over a recent showing made by the Pioneer tractor abroad. It was a plowing and hauling test conducted in Roumania, under government auspices, with English, French and German tractors competing. The Pioneer was awarded the gold medal.

Important Improvement on Helder Tractors.

In another part of this paper appears the advertisement of the Helder Mfg. Co., Carroll, Iowa, announcing an important improvement on Helder tractors, namely, a simple device which permits the using of either gasoline, motor spirits or kerosene. As a gasoline tractor, their machine was an unquestioned success, easily leading as a practical, economical, one-man tractor. With the kerosene device which from now on becomes a part of every Helder tractor, the operating expense is not only greatly reduced, but it enables every owner of a Helder tractor to use the kind of fuel best adapted to his needs. Speaking of reduced operating cost, actual tests have proven that one gallon of kerosene now does more work than a gallon of gasoline and develops the same power. Those of our readers who expect to look into the tractor proposition should by all means investigate the Helder tractor. An illustrated descriptive catalog and full particulars will be sent free to all who write the Helder Mfg. Co., 455 Main St., Carroll, Iowa.

Farm Accounting Now a Business College Course.

The more the farmer becomes a live factor in the success of the modern commercial world, the more friendliness he seems to be shown by modern business institutions. This is true not only in a general way but the modern educational institutions of the country are voluntarily exerting themselves to co-operate with and assist the farmer in his own business. The Gem City Business College, Quincy, Ill., recently established a course of "Farm Accounting" for the sole

POLAND CHINAS.**BIG BARGAINS—BRED SOWS.**

6 of our herd sows, bred and safe to Gold Mine, for July and September farrow. 5 last fall gilts, safe to Best Price. Best bunch of spring pigs we have ever offered. Priced right. DIETRICH & SPAULDING, Richmond, Kan.

NEBRASKA TYPE POLANDS Choice summer and fall boars and gilts, by Haden's Big Hadley 2nd, Fan Wonder, and Nebr. Chief. C. C. INGRAM, Bloomington, Neb.

Polands, with Size and Quality Bred sows and gilts; also boars all ages for sale, sired by Waechler's Referee, Quamo and King Hadley. Lambert Bros., Smith Center, Kan.

Sunny Side Poland Chinas Sows bred for summer and fall farrow. Stock priced right. Satisfaction guaranteed. J. G. BURT, SOLOMON, KANSAS.

Klein's Tabor Valley Herd

Big type Poland China fall gilts bred or open, sired by my Iowa boar and out of my big matured sows. Write for prices. L. E. KLEIN, ZEANDALE, KANSAS.

DUROC-JERSEY BOAR

Fine October boar, will weigh about 215 lbs., good breeding condition, at \$30. Satisfaction guaranteed or money refunded. J. R. JACKSON, Kanopolis, Kansas.

THURSTON & WOOD'S Poland Chinas

The large, smooth kind. Fall boars, handsome fellows by U. Wonder by A. Wonder, also gilts by this great son of A. Wonder and bred to Orange Lad by Big Orange. Thurston & Wood, Elmdale, Kan.

Schneider's Poland Chinas!

20 head of good fall gilts. Some bred for September farrow, others offered open. A few good fall boars that I am pricing cheap to move them. JOE SCHNEIDER, NORTONVILLE, KAN.

Special 30-DAYS OFFER

Choice Poland China spring pigs, either sex, \$20, express paid. Certificate with every pig. Satisfaction guaranteed. Howard R. Ames, Maple Hill, Kan.

John Harter's September Boars

25 selected Sept. boars to pick from. Sired by Mogul's Monarch, Long King, Prince Hadley and Gebhart. Well grown and desirable as herd boars. Prices right. Satisfaction guaranteed. J. H. HARTER, WESTMORELAND, KAN.

Bred Sows and Gilts.

15 choice last Sept. Poland China Gilts bred and safely passed over to Blue Valley Oak, by Blue Valley. Also some choice mature sows bred for last of Aug. and Sept. farrow to same boar. Prices reasonable. Good size with show yard quality. Write John L. Naiman, Alexandria, Neb.



Royal Scion Farm Durocs

The great Graduate Col., assisted by Col. Scion, heads this herd. Spring and fall boars, some of them show and herd header material; also a few gilts and spring pigs, either sex. G. C. Norman, R. 10, Winfield, Kan.



MAMMOTH IDEAL BOARS and GILTS

Mammoth Ideal 54550, one of the biggest and best boars of the breed, in service, assisted by Expansive B. by Expansive. I can supply your wants in herd boar material, in choice breeding gilts. Get my descriptions and prices before buying. M. T. WILLIAMS, VALLEY FALLS, KANSAS

PLEASANT HILL STOCK FARM POLANDS

Long King's Best, Sampson Ex and Moore's Halvor, a trio of unusually fine big-type boars in service. Booking orders now for spring boars and gilts—over 100 head to select from. These are bred right, fed right and priced right. HENRY GRANER & SON, LANCASTER, KANSAS.

Robinson's Mammoth Poland Chinas!

My herd boars weigh from 800 to 1,025 lbs. Now have for sale, two good tried boars and a few extra good last fall pigs of both sexes. My terms are: if you are not satisfied return the hog and I return your money. F. P. ROBINSON, Maryville, Mo.

BIG TYPE BRED SOWS FOR SALE

Daughters of Long Wonder (a double bred A Wonder) and King Mastodon 2nd, bred for May and June farrow, to Orange Model 2nd, by Big Orange and out of a Pawnee Lad dam and to Expansive Wonder, by Expansive. These are extra good, strictly big type with quality and will please. Write or call. W. E. LONG, Meriden, Kansas

BIG TYPE UNPAMPERED BERKSHIRES

200 sows bred to Fair Rival 10th, King's 4th Masterpiece, Trustype, King's Trustype, and the great show boar King's 10th Masterpiece. All long large and heavy boned. Sows farrow all through April, May and June. Open gilts and boars ready for service. Not a poor back or foot. Every man his money's worth. E. D. KING, Burlingdon, Kansas

EX B. by EXPANSIVE

one of the greatest breeding boars of the day heads my herd of over 250 head. Two extra good boars by him, August farrow, for sale. Also choice line of fall gilts, open. Booking orders for spring pigs. Write or call. W. R. WEBB, BENDENA, KANSAS.

Big Orange, Big Sensation & Ott's Big Orange

in service in my herd of POLAND CHINAS. For sale—Pigs of both sexes, and boars of most all ages of the correct type that will please you.

J. O. JAMES, Braddyville, Iowa

**Pleasant Valley Stock Farm! Big Boned Poland Chinas**

H. C. LOOKABAUGH, Prop. We are now offering a few choice fall boars at choice prices. They are the kind that make good. Satisfaction guaranteed. Address L. W. CUTRIGHT, Mgr., Watonga, Okla.

MULE FOOT HOGS.

Mule-Footed Hogs The coming hogs of America: hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, \$30 pair. Circular free.

DR. W. J. CONNER, LABETTE KANSAS.

Mule Foot Hogs Bred gilts for spring farrows all old. Some choice hogs for sale. Am now booking orders for pigs of February and March farrow, in pairs not related. ZENE G. HADLEY, Box D, Wilmington, Ohio

O. I. C. SWINE.

O.I.C. Boar Pigs HARRY HAYNES, Meriden, Kansas.

Maple Leaf Improved Chester Whites All ages, the whole year round. Priced to sell. R. W. GAGE, Garnett, Kan.

GOOKIN'S O. I. C. HOGS. Booking orders for spring pigs by five different hogs, out of sows not skin. Priced to sell. F. C. GOOKIN, RUSSELL, KANSAS.

RUSSELL'S O. I. C.'s February and March pigs ready for shipment. The large prolific type. Satisfaction guaranteed. H. R. RUSSELL, Sedgwick, Kan.

50 O. I. C. Pigs for Sale

Sired by my leading herd boars. Also two nice gilts bred for Aug. farrow. Write for prices and descriptions. Andrew Kosar, Glasco, Kan.

Neef's Cholera Immune O. I. C's.

Twenty fall boars and gilts, over 100 head of spring pigs and a tried boar for sale. NEEF'S OAK, NEEF'S KEEP ON and PINK OAK, sons and sires of prize winners, in service. Can furnish pairs and trios not related. I also maintain a select Shropshire flock. Riverside Farms, J. H. NEEF, Beonville, Mo.

HAMPSHIRE.

WRITE J. F. PRICE,

Medora, Kans.

For prices on Pedigreed Hampshire Hogs

Write Dr. E. G. L. Harbour, Baldwin, Kan., for prices on good, thrifty, well-belted Hampshire pigs, either sex. Priced to sell.

PURE BRED HAMPSHIRE Breeding stock all sold. Booking orders for spring pigs. ALVIN LONG, Lyons, Kansas

REGISTERED HAMPSHIRE

Well Bred Well Belted
SUNNY SLOPE FARM,
Frank H. Parks, Prop., Olathe, Kan.

Pedigreed Hampshires of various ages. Boars at weaning time only. Every hog properly vaccinated. C. E. Lowry, Oxford, Ka.

CLOVERDALE HAMPSHIRE!

Special prices for thirty days only. Open and bred gilts. Spring pigs in pairs and trios, sired by my FOUR herd boars. T. W. LAVEROCK, PRINCETON, KANSAS.

BERKSHIRES.

LEON A. WAIT'S
Berkshires

A good herd at Winfield, Kan., headed by Lord Duke 84, 132802.

Hazlewood's Berkshires! Choice spring boars and gilts priced to sell. Write today. W. O. Hazlewood, R. 8, Wichita, Kansas

New York Valley Berkshires

30 gilts bred for August and September farrow. Some show prospects in open gilts and boars ready for service. 75 pigs, either sex, ready for shipment in May and June. J. T. Bayer, Yates Center, Ka.

Bred Berkshire Sows

25 head of young tried sows, representing the best Robinhood strains and bred for May and June litters to Ajax, a son of Rival's Lord Premier and Longfellow's Duchess 4th. These are extra good and are priced to sell. They won't last long. Write at once.

W. J. GRIST, Ozawie, Kan.

HEREFORDS.

KLAUS BROS.' HEREFORDS

Two choice yearling bulls, herd headers for sale, sired by Fulfiller 3rd, Fulfiller 25th and Beau Onward. Our calf crop is the best we ever had. KLAUS BROTHERS, BENDENA, KANSAS.

HOLSTEINS.

Bonnie Brae Holsteins

For sale, about 80 head of high grade young cows, 2-year-olds and bred yearlings. These cattle are strictly first class, with many heavy springers. Come and see them. IRA ROMIG, Sta. B, TOPEKA, KANSAS.

PUREBRED HORSES.

Truman's Pioneer Stud Farm

America's Largest Importers

Shire, Percheron and Belgian Horses

Write for Illustrated Catalogue.

TRUMAN'S, Box E, BUSHNELL, ILLINOIS

purpose of meeting the demand of the increasing number of young men from the farm who have no notion of deserting the business of farming, but who do recognize the supreme importance of a business education. In a recent interview D. L. Musselman, president of Gem City Business College, remarked that "farming is becoming not only one of the most successful, but one of the most scientific business propositions in America, and in the future our school shall devote special attention to farm accounting, or in other words the work of the counting room of the modern farm." It is unquestionably true that while the farmer boy may never contemplate making use of typewriting, stenography, and other features of a business course, he would find the farm accounting course at Gem City worth more than the cost of a complete course in all departments.

CHICAGO HOUSE WRECKING CO.
Now Known as Harris Brothers Company.

In 1893 the Chicago House Wrecking Company was incorporated and since that time, and continuously for 20 years, its executive officers have been the four Harris Brothers. This company in 1894 bought the complete World's Columbian Exposition of Chicago and in the succeeding years the Trans-Mississippi Exposition of Omaha, the Pan-American Exposition of Buffalo and the Louisiana Purchase Exposition of St. Louis. During the past 20 years this company has gained national fame and repute as being the largest institution in the world devoted to the sale of lumber and building material supplies direct to the consumer. The public have benefited greatly by the operations of the Chicago House Wrecking Company.

In writing the publisher of Farmers Mail and Breeze about this change in the firm name, Harris Brothers said:

"In our earlier career we confined our business mainly to the building lines, but as the years passed, other lines of merchandise were added and our business gradually included practically every known manufactured article, such for instance as plumbing, heating, hardware, machinery, paint, harness, sporting goods, groceries, furniture, floor covering, roofing, fencing, clothing, etc. The building material, general merchandise and supplies that we now handle is new, first class, up-to-date material and as good as it is possible for you to buy from any reputable concern anywhere.

"Early in our business life we were taught that the direct road to the human heart is via the pocketbook, and how surely we have learned our lesson is evidenced by the wonderful success and growth of our company.

"Our business is successful itself because it was founded on principles so true and correct that nothing on earth can stop its progress. The first idea with us, is low prices; the second, quality, and the third, service. Our constant aim has been to give at least 100 cents worth for each dollar invested with us. You take such a combination—price, quality and service—and you can easily see we cannot help but succeed.

"As time passed we felt that our name, Chicago House Wrecking Company, was a drawback and a misnomer. We have spent millions of dollars in advertising that name to the public and in acquainting it with the nature of our business and the opportunities afforded to save money in the purchase of supplies. And yet as our business became more and more famous and our volume of sales increased farther and farther into the millions and as the number of our customers and patrons began to range into the hundreds of thousands, we recognized that we were incumbered with a name that failed to give due justice to the business in which we are engaged. And so after much consideration, we have determined to take a step forward and to use as the title of this company the names of the men who have built up this great commercial enterprise; that's why we changed our name. We feel, furthermore, that the new name will put that touch of personality into this institution to which it is so justly entitled.

"The four Harris Brothers are men imbued with the idea of conducting a commercial institution second to none, of selling goods to the public of a known given quality, selling them at a price that means a material saving and of giving personal service in connection therewith that cannot help but win public favor.

"We do not intend to discard the name, Chicago House Wrecking Company. It has been the means of building up this business and of bringing us that acquaintanceship which must be a source of gratification to any business man. We shall retain as our slogan the 'Great Price Wreckers.' We are justly entitled to it because we have wrecked prices continuously and shall go on and on playing this vocation. Harris Brothers Company shall remain forever a safety valve between the public and high prices.

"The economic principle of merchandizing consists in delivering to the consumer goods at as near the cost of manufacture as possible. This has been our constant thought in merchandizing and next to that, we have recognized the virtue of personal service. Each of the Harris Brothers individually pledges himself to give you all the personal service possible.

"We are not ashamed of our past, or of our old name and from time to time you will still see it used. We shall not give it up.

"As a matter of fact it would hardly have been necessary to give this public announcement of the change of our name from Chicago House Wrecking Company to Harris Brothers Company, as practically everyone knows that the Harris Brothers own the Chicago House Wrecking Company. Mail addressed to either name will reach us as before."

Shorts for Cabbage Worms.

[Prize Suggestion.]

Mr. Editor—The time will soon be here when cabbage worms will attack the cabbage. I want to recommend a very simple way of getting rid of them. Just sprinkle shorts on the leaves in the evening. The worms will fill up on this and then it's goodbye Mr. Worm. Mrs. N. Davidson.

R. 4, Logan, Kan.

Lookabaugh's Shorthorns

Sold on Time at Private Treaty

Six or nine months if desired. What we want is your trial order. Young Heifers and Bulls at \$50, \$75, \$100 and up. Two Heifers and a Bull, not related, \$200 for the three—Others higher.



Over 200 Head From Which to Select

A great variety of prize winners and prize winning blood. If you want breeding stock don't miss this opportunity. As many good Shorthorns cannot be seen on any other farm in the whole Southwest.

COWS WITH CALF AT FOOT AND RE-BRED.
RICHLY BRED YOUNG THINGS, SHOW PROSPECTS.
HANDSOME YOUNG BULLS, HERD HEADER MATERIAL.
RUGGED YOUNG BULLS, THE FARMER AND STOCKMAN KIND.

In fact a splendid array of foundation Shorthorns, that carry the blood of the best families and the most noted sires of the breed. Don't wait, but come and get your first pick. Visitors always welcome at Pleasant Valley Stock Farm. Write your wants today. Address

H. C. LOOKABAUGH, Watonga, Blaine Co., Okla.

Registered GALLOWAY CATTLE

We Breed Market Toppers." JAS. & W. R. CLELLAND, New Hampton, Mo.

Oldenburg German Coach Horses

We are the oldest and largest breeders of the Oldenburg German Coach west of the Mississippi River. Our 1912 winnings at the leading western shows exceeded those of any other individual horse exhibitor. We have stallions and snares of serviceable ages for sale. Write us. JOS. WEAR & SON, Barnard, Kan.

ABERDEEN-ANGUS.

DENTON'S Angus Bulls all sold but a fine lot coming on for fall trade. Write your wants. W. G. DENTON, DENTON, KANSAS

ANGUS CATTLE

Bulls and females for sale; singly or in carload lots. Address SUTTON & PORTEOUS Lawrence, Kan.

POLLED DURHAMS.

Polled Durham Bulls

Six well bred young bulls and a limited number of cows and heifers for sale. C. M. HOWARD, HAMMOND, KANSAS.

GALLOWAYS.

G. E. CLARK. W. W. DUNHAM. CAPITAL VIEW GALLOWAYS. 12 Miles West of Topeka.

Can furnish car of good bulls ranging in ages from calves to 2-yr-olds. Can suit your wants. Write CAPITAL VIEW RANCH, Silver Lake, Kan.

GALLOWAY CATTLE and OXFORD DOWN SHEEP

Imported and home-bred, absolutely equal to the best. C. S. HECHTNER, Box 66, Chariton, Iowa

SHORTHORNS.

SHORTHORN CATTLE POLAND CHINA SWINE and CLEVELAND BAY HORSES. All stock pedigreed. Prices reasonable. Thos. B. Murphy & Sons, Corbin, Kas.

Six Shorthorn Bulls

Fifteen months old, sired by Armor Prince 6th and out of cows sired by Vice President. Priced to sell. A. H. COOPER, Natoma, Kansas

Glenwood Farms Announce

Shorthorn Sale, bulls and cows, June 6, 1913.

Can spare no more bred sows. Have a few choice boars left. Plenty of Shorthorns, always. We build the most complete concrete silo yet offered the public. Have several on our place. They are a success. Write for particulars. Address,

C. S. NEVIUS, CHILES, KAN.

DAIRY CATTLE.

FOR SALE 35 choice young Holstein dairy cows, fresh and springing. Special price on herd. Jack Hammel, 215 Adams St., Topeka, Kan.

Holstein-Friesian Bulls Prices right. H. N. HOLDEMAN, Meade, Kan.

HOLSTEINS FOR SALE 50 head registered Holsteins, 93 head milking and coming fresh grade heifers and cows. M. P. KNUDSEN, Concordia, Kansas

Holstein Bred Cows and Heifers

"EIGHTY HEAD" Choice individuals personally selected, Wisconsin bred, tuberculin tested, pure bred, unrecorded and high grade females, recorded bulls. Grade bull and heifer calves. ARNOLD & BRADY, Manhattan, Kas.

HOLSTEINS —CHOICE BULL CALVES H. B. COWLES, TOPEKA, KANSAS.

OAK HILL HOLSTEINS

Bulls ready for spring service by Shadybrook Gerben Sir Korndyke out of A. R. O. dams. Heifers bred. Also a few fresh cows. All tuberculin tested. BEN SCHNEIDER, NORTONVILLE, KAN.

BANKS' FARM JERSEYS

Quality with milk and butter records. One of the best sons of CHAMPION FLYING FOX, imported, at head of herd. Stock for sale. W. N. BANKS, Independence, Kan.

Register of Merit Bull—Jersey

Year old. Solid fawn. Son of Flora's Golden Fern, 4 in R. of M. Dam Sultan's Beauty, 512 lbs., 1 year, when 23 months old. \$150.00. Bargain cannot be equalled. R. J. LINSOTT, Holton, Kansas

RED POLLED CATTLE.

Red Polled Cattle Cows and heifers for sale. No bulls over six months. Poland China big type registered fall boars. Write CHAS. MORRISON & SON, Phillipsburg, Ks.

Foster's Red Polls Write for prices on breeding stock. C. E. FOSTER, R. R. 4, Eldorado, Kansas.

Red Poll Females

of all ages, choice individuals, show animals, priced to sell. A few choice bulls, also Duroc-Jersey swine, sows and gilts, bred for early fall farrow. Boars any age by our choice herd boars. Ask for testimonials. GEO. W. SCHWAB, CLAY CENTER, NEB.

Running the Cultivator

BY HARLEY C. HATCH
Of the Mail and Breeze Staff.

THE fingers of one's two hands would not begin to number the different kinds of cultivators. Nearly all the combination tools are used on listed corn, especially during the first two cultivations. It is on listed corn that the work of the disk cultivator is seen in its perfection, for the disk, while it works well in many cases on top-planted corn, is better adapted to lister ditches.



H. C. Hatch.

On this farm we use a disk cultivator mounted on wheels, a combination disk and knife cultivator mounted on runners, a two-row shovel cultivator and two one-row shovel cultivators. The sled disk cultivator we use for the first and second cultivations of listed corn. The first time over the disks are set to throw the dirt away from the corn; the second time the disks are reversed and the dirt thrown to the corn. By throwing the dirt away from the corn the first time, better work can be done in the following cultivations. If the dirt is all thrown to the corn from the start, before long the loose dirt is all piled in the row and little good can be done by after cultivations.

With the riding disk cultivator mounted on wheels the dirt can be thrown away from top-planted corn the first time. If the team is a steady one and the disks are set right one can get very close to the corn and one of the best jobs of weed killing in the world can be done. But the dirt should soon be moved back to the corn either by the cultivator or harrow. When the corn is worked in this way it can be given two cultivations and the ground will still be level. After that two more workings may be given and the ground still be left in good condition, if one of the cultivations is done with the disk and the other with the shovel cultivator. Where the disk is used all the time there is a tendency to leave the middle of the row bare and pile all the loose dirt around the corn.

One of the best corn raisers we know does all his cultivating the first time. He and his boy start in together, one having a shovel cultivator and the other a disk. They take alternate rows all through the field. Then when it comes time for another cultivation they just swap rows and, all through the field, take the rows the other took the time before. By so doing they never follow disk with disk, or shovel with shovel. That it is a good plan, may be seen by anyone who rides along their field in the growing season or when the corn is being picked.

We have found the two-row cultivator a success, especially the late models. And one will be surprised how quickly he can learn to handle them. The shovels are worked by treads, leaving both hands free to drive the horses. Some makes are for three, some four and some for five horses. If the horses are of ordinary size four will be plenty, and if draft animals are used, three will lug it along all day pretty easily. The gangs may be spaced exactly as wanted and only one row need be watched. The cultivator should take through the field the same pair of rows the planter did. After starting aright each new land should be made by counting off even rows. If the one row you are watching is right, the other is bound to be.

What Pump Irrigation Cost

(Continued from Page 9.)

best opportunities for profitable development. To stimulate this development, local irrigation associations should be organized for co-operation in the production of specialized farm products peculiarly adapted to that particular locality. Canning factories centrally located in some of these irrigated districts would be of great benefit.

On the uplands, dry-farming with stockraising will prevail for many years to come. This does not mean irrigation will not be practiced, because every farm, no matter how deep it is to water, should have an irrigated lawn and garden. In many cases this may not be

more than one-fourth of an acre, while in some instances, 5, 10 or even 20 acres of land can be brought under irrigation. These little irrigated areas will insure a good living for the farm family and the products from the remainder of the farm, produced by the ordinary dry-farming methods, can be turned into the bank account.

The prospective irrigator in Kansas should carefully study his conditions before making a beginning. 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 confine his efforts to 40 or 80 acres. More attention should be given to high yields and growing potatoes, alfalfa, sugar beets, and similar crops.

Farmers Choose a City Adviser

The Coffey county Pomona Grange created the office of city adviser at its meeting held May 22 at Burlington. So reports its secretary, H. L. McIntyre, to Farmers Mail and Breeze. Joseph M. Baker of Center Hill Grange was elected to the office and the commercial club of Burlington at a later meeting promptly

made Mr. Baker an honorary member of that body.

"It is hoped," adds Mr. McIntyre in his letter to the Mail and Breeze, "that the new officer can accomplish much in getting the farmers and townspeople to work together where their interests are common."

If he can, the Mail and Breeze is for the appointment of a city adviser from the country, for every town in Kansas.

Why wouldn't it be a fine idea for every commercial club in this state and every other to have one or more practical farmers in its membership to represent the farming industry in that locality? Joking aside, here is something that promises results. What Kansas town will be next to ask for or accept a city adviser? Burlington shouldn't be permitted to have the only one on earth when so many are needed.

Winners in Farm Office Contest

First Prize, the Smith-Premier typewriter, to M. F. Williams, Valley Falls, Kan.

Second Prize, roll top desk, to Harold Robinson, Sumner, Okla.

Third Prize, vertical filing cabinet to C. W. Newby, Alden, Kan.

Fourth Prize, card filing cabinet, to W. H. Steuart, Winchester, Kan.

THE three judges of the 600 letters submitted in the Mail and Breeze's Farm Office contest have handed in the decision recorded above. The letters of the prize winners are to appear a little later. Many readers of the Mail and Breeze who have been wanting to bolster up the business side of their farming with a simple, practicable sys-

tem of bookkeeping will find some good ideas 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. As the judging committee comprised persons who work from 9 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 committee pleads this excuse for its delayed decision.

None Better Built At Any Price!!

Get WHITMAN'S Hay Press and Engine Books Before You Invest a Dollar in Any Other Make!



Forty-Two Years' Successful Experience Makes The "Whitman"

THE "WORLD'S STANDARD" HAY PRESS!

You don't expect to buy a hay press every year. You want the very best when you do buy because you expect and ought to have from it a lifetime of satisfactory service.

Then you will agree that you can't afford to experiment with an unknown make.

It's money in your pocket to buy the best the first time you buy and be sure that you will never have to buy again.

That is the assurance that you get when you invest your money in a Whitman.

Back of every Whitman Hay Press is an experience of 42 years—42 years of learning the "how" of perfect hay press construction.

Whitman Hay Presses are built in the largest hay press factory in the world—with an output running into the thousands of presses every year.

We have shipped Whitman baling presses into every

county of every state in the Union where hay is baled as well as into every civilized country on the globe—and the constantly increasing demand for Whitman Presses is conclusive proof that they combine the utmost in high-grade materials, expert construction and general utility.

The Whitman Press is the standard press of all the world—long ago it became known wherever hay presses are used as the world's standard—a title backed up by the winning of gold medals and grand prizes in all the world's great fairs and expositions for more than two-score years!

Whitman's World's Standard "Steel Queen" Hay Press is the ideal hay press for all general use—that is the verdict expressed in the hundreds of letters in our files from the most successful American farmers.

It is the press that we want you to investigate before you invest a dollar in any other make!

It Will MAKE Money and SAVE Money for Y-O-U!

The Whitman "Steel Queen" will very soon pay for itself in the money it will make and save for you. Not only can you practically double the value of your own hay crop by the use of a Whitman Baler—but you can count on from \$10 to \$15 a day every day this season by baling hay for others in your locality.

So you see the purchase of a Whitman Hay Press is not an "expense." It is a profit-paying investment—an investment that should easily return the principle and more the very first season.

And it will keep earning you money every year that you use it—and it is guaranteed for a lifetime of satisfactory service.

No modern farmer can afford to be without his own baling machine—and it is very poor economy to buy anything but the best.

We sell the Whitman on an absolute make-good proposition.

We guarantee that it is the best hay press that money can buy—and a Whitman salesman's sale until each buyer says he has received his money's worth and more.

If you are farming for all the money there is in it, you must have a hay press—and in your own interest and for your own profit we ask you to get our proposition on the Whitman before you invest a dollar of your hay press money.

GET OUR FREE BOOKS TODAY!

We can't begin to tell you all that we want to tell you and all that you would like to know about the Whitman Press and our new Sultan Engine in this limited space. The whole story is told in two big illustrated books which we want to send you free and postpaid.

In sending for these books you do not obligate yourself in any way. If you are in the market for a hay press or a gasoline engine we know that we have a proposition that will appeal to you. We will take our chances on convincing you that we have what you want if you will simply sign and return to us at once the free book coupon printed below. Address

WHITMAN AGRICULTURAL COMPANY
6916 South Broadway, St. Louis, Mo.

Use This Coupon—Or Write Postal or Letter

WHITMAN AGRICULTURAL CO. 6916 South St. Louis, Mo.
Broadway

Gentlemen—You may send me, free and postpaid, the book or books checked below:

☐ Hay Press Book

☐ Engine Book

(Mark X in square opposite the book desired. Mark both squares if you want both books.)

Name

Address



The "SULTAN" Vertical

(Gasoline or Kerosene)

We are now delivering to our customers the most complete, most dependable and most efficient self-contained power plant ever designed—the Sultan Vertical Engine.

This engine is built from beginning to end in our own factory by the highest priced and most expert workmen to be found in any engine factory in the world.

We are producing an engine so good that we back it with the same iron-clad, quality-proving guarantee that we place behind the Whitman Hay Press.

We make the Sultan in all sizes from 2½ h. p. to 10 h. p. We guarantee every engine to generate 10% above the rated power—an engine that will give dependable service at all times in operating any and all kinds of farm machinery.

It is light and easy to move and yet it is the most substantially built and the most reliable engine ever designed for use on the farm.

Our free engine book which we want to send you illustrates and fully describes every part and feature of all the different sizes of Sultan engines and contains a line of argument in favor of the Vertical Engine which is indisputable.

We sell Sultan engines at the most reasonable prices ever quoted for an engine of the same high quality.

FACTS!

About Whitman's "Steel Queen" Hay Press

Built entirely of best quality steel and iron.
Built by expert workmen in the world's greatest hay press factory.
Sold with or without engine—can be equipped with 5, 6 or 8 h. p. gasoline engine.
Belt driven—no troublesome and unreliable chains used.
No complicated system of gearing—"Steel Queen" gearing is built on scientific principles producing slightest possible wear and always working to perfection.
Capacity—10 perfect bales in 5 minutes.
Produces finest quality of work—instantly and easily adjusted to regulate size and weight of bale.
Bale chamber of great length—sets low, easy to feed.
Positive up-and-down motion of all-steel Parallel Bar Feeder.
Plunger cast into one piece of metal—no joints or bolts to loosen and cause trouble.
Very easy to feed and operate.
Sizes 14x18 and 16x18.
Sold at a price that you'll say is right.
Enthusiastically endorsed by hundreds of users.

FACTS!

About Whitman's "Sultan" Engines

Built from beginning to end by engine experts in our own mammoth factory. Produces maximum power at lowest known cost.
Easy to start in all weather, always ready for service, requires least attention.
Pump feed carburetor—regulates fuel for all speeds and all changes of load.
A new frost-proof cooling system.
A complete, self-contained power plant anywhere in a few minutes time.
Engines thoroughly tested under a brake. All parts are strong, simple and accessible. Enclosed crank case—mechanism running in oil.
Well balanced, smooth running motor. Gasoline supply carried in base of engine. No tank, no fan.
The Vertical Engine is admitted by expert mechanics to be the best type.
All forces applied downward and against the heavy base castings, thus preventing the bearings from leaving their seats. The valves are all vertical, seating centrally, and do not wear out of true. It takes up less floor space and allows easy attachments.
The best engine built for operating hay presses, cream separators, sprayers, cement mixers, feed grinders, grind stones, water systems, pumping water, wood sawing, corn shelling—and all light farm machinery.
Pure crucible steel connecting rod and removable diecast connecting rod bearings.