

Library

# KANSAS FARMER

For the improvement  of the Farm and Home

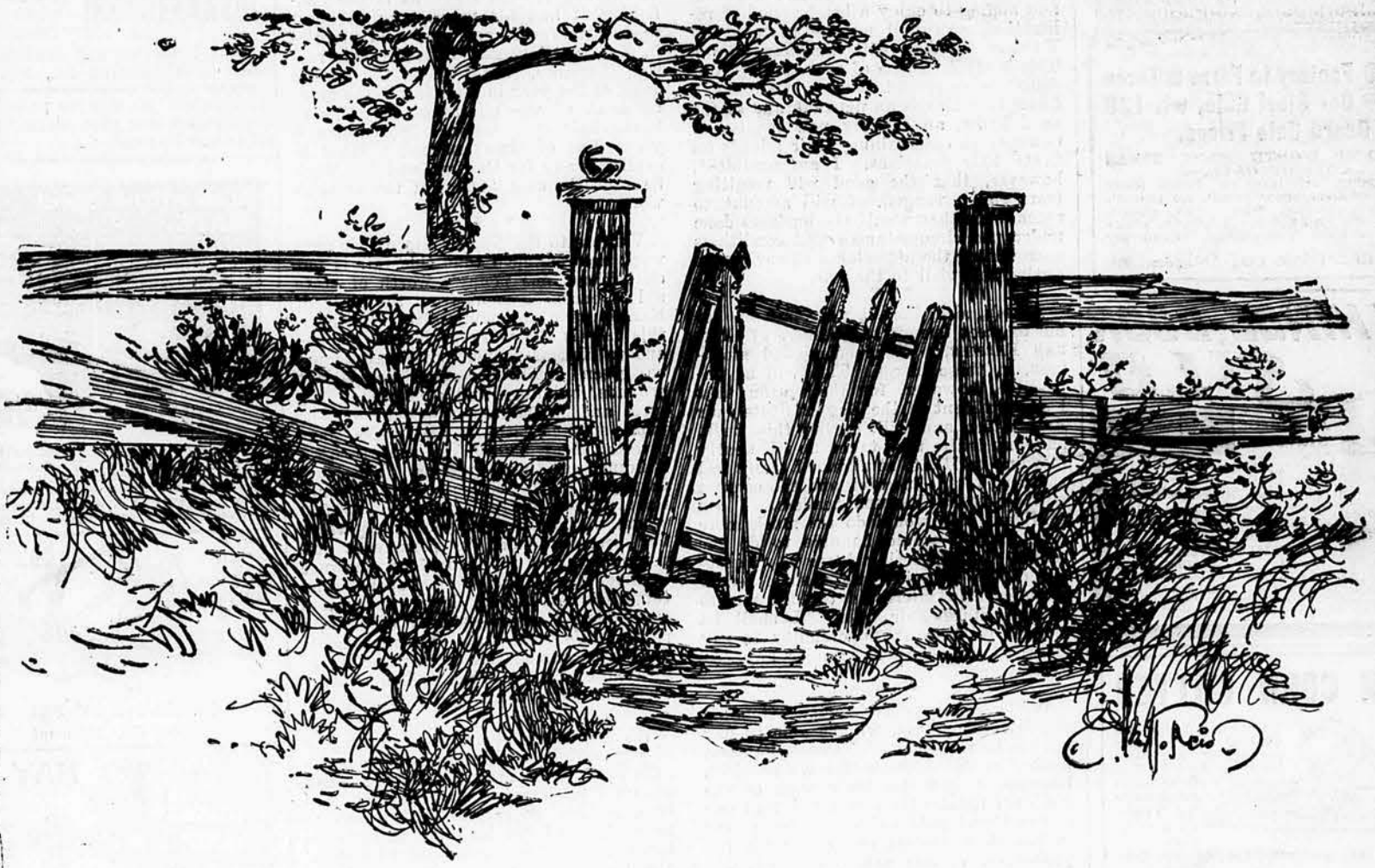
Volume 50, Number 36. TOPEKA, KANSAS, SEPTEMBER 7, 1912. Established 1863. \$1 a Year

**N**OTHING is so important as the thing that needs doing now.

The farmer who neglects his fences, allows the barn door to slam in the wind, leaves the garden to crab grass, winters his cattle in the open, pastures his pigs in the door yard, shelters his harvester under a tree, fixes his harness with wire and has to prime his pump, only dawdles with life and lacks "class."

He who works his brain, defeats trouble by anticipating it, has NOW writ large in his calendar, greases his plowshares, exercises the manure spreader, tests his seed corn, breeds good stock, believes in himself and his faith in paint, marches in the front rank of the battle of life where no man can hire a substitute.

Any man can live on a farm and learn to plow but it is only the man with "class," in both manner and method, who can now become a real farmer. —I. D. G.



*An Index to The Owners' Industry.*





**HOW TO BUILD CORN CRIBS**  
 BLUE PRINT PLANS FREE

You get practical hints for storing and handling ear corn and small grain. Our free book gives plans, lumber bills and itemized cost of building corn cribs and granaries—also full information about

**MARSEILLES**

**Portable Elevators and Wagon Dumps**

Underneath or Overhead Wagon Dumps in all-steel or wood. Elevator Outfits, Crib or Horizontal Conveyors in all-steel or wood. Our steel tubular elevator is the strongest and fastest made for all small grain and flax. Complete line of spouts, belt attachments, jacks and horse-powers. We can furnish an outfit for any style of granary or crib whether large or small.

"How to Build Corn Cribs and Granaries, with Plans"—free if you mention this paper. Ask for it as Book No. A 13

John Deere Plow Co., Moline, Illinois

**FISH BRAND "61" A NEW POMMEL SLICKER**

IN OLIVE KHAKI

Appearance and finish in advance of all others. Fitted with brass buckles and leather stays. Corduroy collar. Two "Stayfast" Pockets (pat'd) that will not rip. Inner sleeve adjustable at wrist. Durable, Waterproof.

Satisfaction Guaranteed.

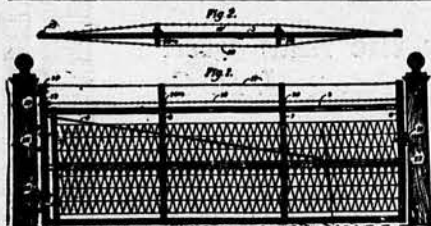
Could you ask for more in a Pommel Slicker?

Price, \$4.00



If not at your dealer's, we will supply you.

A. J. TOWER CO., BOSTON  
 Tower Canadian Limited, Toronto 612



**\$4.50 Factory to Farm a Three Bar Steel Gate, wt. 120 lbs., at Board Gate Prices.**

EQUIPMENT WORTH MANY TIMES COST OF GATE.

Self-closing, self-latching, holds itself open, raises over snow banks, no pull on hinge post, barbed wire stock guard. Notice frame and mesh. A strong, practical farm gate, guaranteed. Send for circulars.

U. S. STEEL GATE CO., Abingdon, Ill.

**THE HINGE-DOOR SILO**



ONE-PIECE STAVES—

half-inch tongues and grooves—heavy all-steel door-frame—hinges form ladder—billet steel hoops—a silo with every convenience and built to last a lifetime. Write for catalog.

NEBRASKA SILO COMPANY  
 Box 2, LINCOLN, NEBR.  
 Kansas Branch: Continental Creamery Co., Box 2, Topeka, Kan.  
 Missouri Branch: Bellows Bros., Box 2, Maryville, Mo.

**GREEN CORN CUTTER**



Cuts and gathers corn, cane, kafir corn or anything planted in rows. Runs easy. Long lasting. Thousands in use. Fully protected by patents. Send for free circulars.

J. A. COLE, Mfr., TOPEKA, KAN.



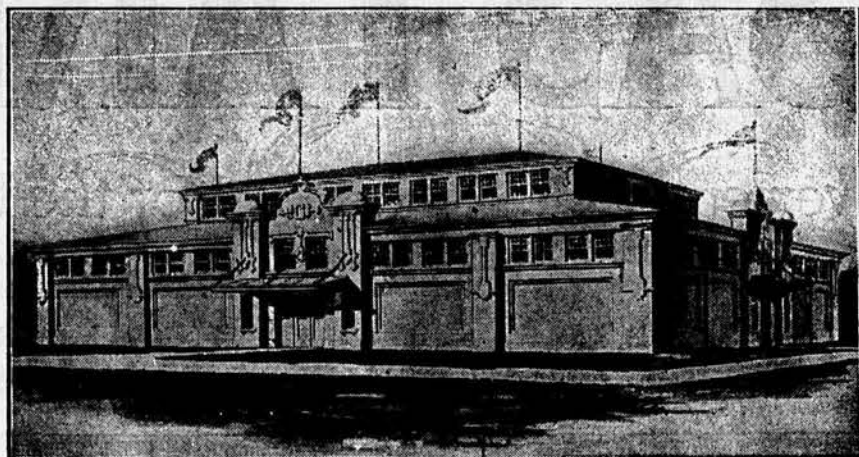
**BUTLER STEEL Grain Bin**

CONCRETE. CAN'T GIVE IN. Can be used for store house. Sectional. Capacity increased any time by additional sections. Keeps grain perfectly. Free booklet tells why bins should be corrugated.

BUTLER MANUFACTURING CO., 1209 W. Tenth St. Kansas City, Mo.

**Over the Editor's Table**

Just a Bit Personal By The Editor For KANSAS FARMER Folks



NEW ART AND MECHANICAL HALL, BUILT BY KANSAS STATE FAIR ASSOCIATION, TOPEKA, AND FIRST USED 1911. BUILT OF BRICK AND CEMENT, WITH 9,800 SQUARE FEET OF FLOOR SPACE.

Elsewhere in KANSAS FARMER this week are invitations to KANSAS FARMER folks and their friends, and to stockmen and breeders, to take advantage of the conveniences which KANSAS FARMER has arranged for them on the grounds of the State Fair, Topeka, during the week of September 9 to 13. I sincerely hope that these accommodations will be used by you. I consider that KANSAS FARMER is obligated and indebted to its readers and patrons to the extent of making them feel at home while they are visiting the Kansas State Fair. I want to say, further, that you will not be bothered by KANSAS FARMER representatives who seek to obtain your money and your subscription by the offer of premiums or other extraordinary inducements. If, of course, you desire to renew your subscription to KANSAS FARMER or to become a new subscriber, our representatives will take the subscription and your money, but I especially want you to rest assured that during this week, when you are visiting and hoping to enjoy a brief period of relaxation, you will not be pestered by KANSAS FARMER with business affairs. This is my own idea of entertaining "our folks" who are State Fair visitors. I know that this is an unusual, and so far as I know, an entirely new means, of newspapers entertaining their friends on State Fair occasions. I am confident, however, that the good will resulting from this arrangement will amount to much more than would the business done under the circumstances and conditions surrounding the attendance of our people during this visit to the fair.

I wish, also, that it were possible for me to meet friends and readers of KANSAS FARMER, also breeders and stockmen, in these places. This will be impossible, however, for the reason that I am president of the Kansas State Fair Association and will, during this week, have my entire time taken up from early morning until late at night. I really feel the need of the meeting and the contact with KANSAS FARMER readers. I am confident this would do me much more good than I would be able to do the reader. Such meeting, however, is quite out of the question unless some reader is sufficiently interested to look me up at the State Fair office. I shall be pleased to have an opportunity to say "howdy" anywhere and under any circumstances.

While you are in the city attending the fair I hope you will be able to pay a visit to the office of KANSAS FARMER, located at 625 Jackson street, and which location is just one block west of the National hotel. Here you will find one of the finest publication printing plants in the west, maintained solely for the production of one paper, and you are cordially invited to call and inspect this plant. KANSAS FARMER uses over 10,000 square feet of floor space, being three floors of one large building. It has the largest rotary printing press of its kind west of Chicago. This press will be in operation all day Thursday and Friday until noon, of State Fair week. It is one of the sights in Topeka well worth seeing. KANSAS FARMER is and has always been entirely separate from all other publications. Its owners, the KAN-

SAS FARMER COMPANY, do not own any other papers, and none of those interested in KANSAS FARMER have any interest in any other publication, except the Leavenworth Daily Post. I am hopeful of your making a visit to the KANSAS FARMER office and although I shall not be able to meet you there, others of the KANSAS FARMER COMPANY—either owners or employees—will be on hand to show you around.

Since the determination of Topeka people to build a real State Fair at Topeka, I have had something to do with the organization, first serving on the Board of Managers and the last two years as president. This is labor for love—purely. There is nothing in it for me except the satisfaction and gratification of helping in the building and the establishing of a state fair for this great state. This is a service and duty to agriculture fully as much in line with the development of improved methods of farming in this state, as is the publishing of and the printing of the best up-to-date farm experience and practice in KANSAS FARMER. It is for this reason, therefore, that I spend the busiest week of the year in assisting in the management of the affairs of the Kansas State Fair Association. It requires a great deal of time and much labor in getting ready for the fair, and fair week itself is the culmination of the season's work.

Visitors to the Kansas State Fair next week are reminded that this fair is put on without one penny's worth of state aid or encouragement from the state of Kansas as a commonwealth. However, this fair is the work of Kansas people, and to Kansas people individually must be given credit for the magnificent grounds, buildings and educational features and entertainment provided. The public-spirited citizens of Topeka have invested near \$50,000 in spot cash in buildings on these grounds. The loyal taxpayers and citizens of Shawnee County two years ago voted \$50,000 worth of bonds, every dollar of which has been expended in permanent improvements, so the people of Shawnee County, the citizens of Topeka, and thousands of other loyal supporters throughout Kansas—each of whom is a part of this great state—are responsible for the accommodation of this most magnificent exposition which will open at 9 o'clock Monday morning, September 9.

While reading about the fairs, many of you will be wondering how your affairs may be so arranged that you can attend. With many farmers this will be a problem so serious that it cannot be solved, and the inability to satisfactorily arrange for a one or two days' absence from the farm is one of the things that makes farming uninviting and drives many a man and his family to town. If help cannot be secured, I do not know how you can leave for a visit to anything or anywhere. But an effort should be made to get away occasionally—even at some sacrifice. I can't tell you how to arrange it—but the arrangement should be made, just the same.

*J. A. Roman*

**COLONIST EXCURSIONS**

to California Mexico and the Northwest

Tickets on Sale September 25 to October 10

From Kansas City, Leavenworth, Atchison, St. Joseph, only.

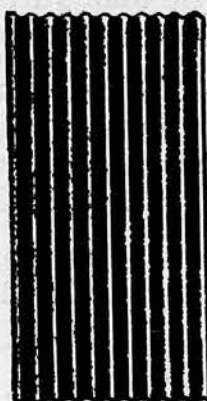
**\$30**

For fare from your station and information about train service, apply to the undersigned. Colonist tickets will be accepted for passage in Pullman tourist sleepers on payment of regular Pullman fare.

Liberal stopovers will be permitted.



Descriptive literature, free, if you write  
**J. M. CONNELL,**  
 General Passenger Agent,  
 Topeka, Kansas.

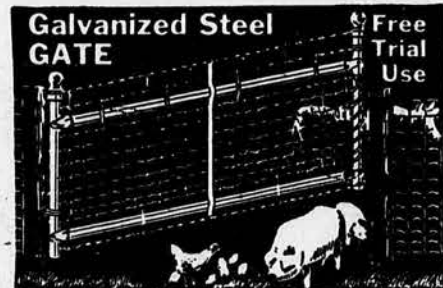


**ROOFING Galvanized Corrugated Steel**

"Direct from Factory to Farm." Will last for years. No painting. We cut to fit any roof. Easily put on. LIGHTNING PROOF. Prices are now low, but will soon be higher. Write at once for catalog, sample, price and full information.

Steel Roofing and Stamping Works, 516 S. W. Second St., Des Moines, Ia.

You run no risk to patronize persons or firms whose advertisements appear in KANSAS FARMER.



Try this galvanized adjustable farm gate 60 days before buying it. No deposit, no payment until you say you want to buy the gate. Send for our Free Use Order Card and big Farm Gate Book. Address IOWA GATE CO., 48th St. Cedar Falls, Iowa



TUTTLE HAY PRESS CO. Box 609, Pleasanton, Kan.

Ask for Auto-Fedan Catalogue  
**HAY PRESS**  
 The Auto-Fedan Self-Feed, Auto-Fedan Belt Power Press, 2-stroke Horse Press and one horse press. The Auto-Fedan Hay Press Co., 1564 W. Twelfth St., Kansas City, Mo.



Cheap as Wood. We manufacture Lawn and Farm Fence. Sell direct shipping to users only, at manufacturers' prices. No agents. Our catalog is free. Write for it today. UP-TO-DATE MFG. CO., 916 10th St., Terre Haute, Ind.



### SUBSCRIPTION PRICE

\$1.00 per year; \$1.50 for two years; \$2.00 for three years. Special clubbing rates furnished on application.

### ADVERTISING RATES

30 cents per agate line—14 lines to the inch. No medical nor questionably worded advertising accepted. Last forms are closed Monday noon. Changes in advertising copy and stop orders must be received by Thursday noon the week preceding date of publication.



# KANSAS FARMER

With which is combined FARMER'S ADVOCATE, established 1877.

Published weekly at 625 Jackson St., Topeka, Kan., by THE KANSAS FARMER COMPANY. ALBERT T. REID, President, JOHN R. MULVANE, Treasurer, S. H. FITCHER, Secretary.

T. A. BORMAN, Editor in Chief; I. D. GRAHAM, Live Stock Editor.

CHICAGO OFFICE—First National Bank Bldg., Geo. W. Herbert, Inc., Manager. NEW YORK OFFICE—41 Park Row, Wallace C. Richardson, Inc., Manager.

Entered at the Topeka, Kansas, postoffice as second class matter. GUARANTEED CIRCULATION OVER 60,000

### OUR GUARANTEE

KANSAS FARMER aims to publish only the advertisements of reliable persons or firms, and we guarantee our subscribers against loss due to fraudulent misrepresentation in any advertisement appearing in this issue, provided, that mention was made of KANSAS FARMER when ordering. We do not, however, undertake to settle minor claims or disputes between a subscriber and advertiser, or be responsible in case of bankruptcy of advertiser after advertisement appears. Claims must be made within thirty days.



### A FARMER'S VACATION.

A few years ago the idea of a farmer taking a vacation would have been ridiculed, and by no one more strongly than by the farmer himself. Farming conditions have changed and with them has come a change in the farmer's way of acting and thinking. Now the modern farmer knows that a vacation for himself and family is just as necessary as is tillage for the production of crops. With a vacation he does more and better work, he keeps better health, he knows more and is more content than he could possibly be without it, and the only question for him to determine is just where and when this vacation shall be taken. Most people who have in mind a vacation think first of the enjoyment to be had out of it, and secondly, of its educational value. A vacation without the possibility of seeing and learning something new would not be a vacation, but mere drudgery. Whether the farmer decides to go to the mountains or the seashore, to travel in foreign lands or merely to visit the near-by city, the first thing necessary and the first thing that he demands, is a change of scene and environment, and this is determined by the possibilities of what he shall see and learn that is new and different from the things to which he is daily accustomed.

It is doubtful if the Kansas farmer can find a more delightful location in which to spend his vacation than right in his home state. As his daily life is more or less isolated, and as the first element of the vacation is a change of scene, a few days spent in the Capital City would seem to meet all requirements, and this would be particularly true if the time chosen for his vacation should coincide with the holding of the State Fair. Accustomed to seeing nature at home, with few people, the greatest change he could make would be to get into a crowd, and this he would do at the State Fair, where he would meet people from all counties and from other states and at the same time enjoy the advantages of the keen pleasures afforded by the exhibits in the various departments where he would see the best of everything that is produced in the state, and where he could alternate with the specially provided amusement features.

If it should so happen that he cannot leave the farm at this time of year then he could get as much pleasure and satisfaction from an attendance at the winter meetings of the Kansas Improved Stock Breeders' Association and the State Board of Agriculture, which are also held in the Capital City during the second week in January. His vacation plans should always be made to include these meetings and at least one visit to the State Agricultural College and Experiment Station. If he cannot visit this institution during the cropping season, he need have no fear of a lack of interest from a visit at any other time. The state-wide institute is held at the College during the Christmas holidays, when farm work is at its lowest ebb and when special efforts are put forth by the College authorities for the entertainment and edification of the farmer visitors. There are a thousand other places in Kansas that are worthy of a visit, and the farmer who has an automobile could visit several or all of the state institutions with profit and a knowledge that he has discharged a duty to himself which every citizen owes. But in all the many places of interest and pleasure to be found in the state, they nowhere concentrate so much in a small space as at the State Fair, and a week's vacation spent here will bring every enjoyment that could be found in much more expensive trips and will insure a fund of knowledge that could be acquired in no other way.

Silo filling time will soon be here. We have recently printed all the information needed to make the filling in every way successful.

### SEEING THE FAIR.

It is quite impossible for the attendant to see all of value at a large fair in a single day. If it is possible, arrangements should therefore be made to permit an attendance of at least two days—three days would be better. If you can attend your fair only one day, determine beforehand, so far as possible, the things which you especially wish to see and investigate. Immediately upon arrival at the fair grounds, ascertain where these exhibits are located and go to them at once. You will be entertained as well as educated by a thorough investigation, and, inasmuch as you do not have time to take in everything, you must be content with what you can see in the limited time.

It must be remembered, too, that in all probability different members of the family will have a desire to see different things. No restraint should be placed upon this disposition. Make the several members of the family free to go their own way about the fair. Make some point your headquarters. At Topeka you are invited to make KANSAS FARMER's headquarters your meeting place. Each member having decided to visit a different department or exhibit, can then go his or her way with the understanding that you are to meet at your headquarters at an appointed time before noon, that the entire family may be able to eat together or to arrange for the afternoon's entertainment or to arrange for the time at which the family will leave the grounds.

There are many other things which can be figured out beforehand which will result in making the time spent the most profitable and pleasant, and mention has been made above of just a few.

It may be that the family will want to look around the city all together—possibly visit the state capitol, some of the big stores, the manufacturing plants, or possibly take a street car ride to some of the parks and other points of interest about the city. These should be arranged and the time for making the excursions can be agreed upon as designated above.

### BIG BANK CUSTOMER.

The American farmer has nearly \$40,000,000,000 invested in his business. He produces \$25,000,000 of new wealth every day.

He uses hundreds of millions of dollars of bank credit every crop season.

But, by reason of our antiquated banking system, the farmer bears the burden of dear money. He pays more for credit than the farmer of any other great commercial nation.

The lowest money rates in this country are paid by speculators in the financial centers; the highest rates are paid by the farmer.

The higher rates for agricultural capital, the higher the cost of production, the higher the prices of agricultural products and the higher the cost of living.

The farmer and the buyer of the farmer's products will both gain by a reform of our banking system, as proposed by National Citizen's League, the Kansas branch of which is maintained at Abilene, C. M. Harger, president, who will be glad to mail you literature regarding the detail of the proposed banking reform.

### GET SOMETHING FROM FAIR.

A fair is an educational exhibit of county and state industries. Year by year those who attend are demanding that better facilities for educational advantages obtain. Fewer people attend fairs for the simple purpose of an outing, for a day's excitement, and more are gleaned information from the exhibits. Support your county fair and your state fair by attending, and profit by carrying away at least one lesson. Ask questions, start discussions and absorb ideas from others. The day is wasted if spent visiting sideshows and just "looking around."

### DRY FARMING CONGRESS.

The third annual Dry Farming Congress closed at Hays, Kan., Thursday evening, last week. From the standpoint of interest and importance of subjects discussed, this was the most successful meeting held, although the attendance was disappointing.

This meeting, held in the center of a district to which dry farming methods are thoroughly applicable and of proven benefit, is one of the worthy institutions which should be attended by farmers from all parts of Kansas, and especially those of the western third. The opportunity to see the Hays Station and to investigate the numerous lines of experimental farming and the results accomplished, is in itself well worth attendance upon the meeting. The field demonstrations of engine plowing, deep tillage, prevention of soil drifting, construction of silos, etc., are at the Hays Station being worked out for the benefit of the farmers of the Hays Station territory.

Each of these is along lines of development which should demand the attention of the western farmer if he is to become permanently prosperous. One day of the meeting was devoted to the discussion of live stock problems, and how their solution will benefit the western farmer. On this day attention was given to the discussion of dairying under western conditions, and particularly a discussion of the growth of feed for the dairy herd. The program was provided by authorities along the lines above mentioned. Among these were John A. Widstoe, president of the Utah Agricultural College and president of the International Dry Farming Congress. Widstoe has accomplished, through the Utah Agricultural College, wonderful results along dry farming lines in Utah, and his address was of unquestionable practical value to the western Kansas farmer. Director Webster of the Kansas Experiment Station, O. E. Reed, Prof. Cochel, W. J. Gearhart and Frances L. Brown of the Kansas Agricultural College, and Prof. A. M. Ten Eyck, retiring superintendent of the Hays Station, each an authority in his field, were other speakers.

This is a delegate congress, it being intended that each Kansas county be represented by delegates appointed by the chairman of the board of county commissioners of each county. The mayor of every town in the western one-third of Kansas is also expected to appoint two or more delegates to the congress. The fact that more delegates were not present is due in all probability to the lack of interest by county commissioners and mayors and their failure to delegate men live enough to attend.

This annual Hays meeting is one of the big meetings of Kansas which deserves special attention at the hands of every one interested in the development of Kansas agriculture and those appointing delegates and the delegates appointed owe to themselves and the state the obligation of expending the time and money necessary to get from this meeting everything there is in it.

Southeastern Kansas communities are urged to place the orders for the organization of farmers' institutes with the Extension Department of Kansas State Agricultural College at the earliest possible date. The southeastern Kansas schedule of farmers' institutes will begin September 9. Thirty institute lecturers will be available for institute work in Kansas this year. The number of women lecturers has been considerably increased. Edward C. Johnson, who has recently been employed to exclusively superintendent farmers' institutes, as noted in KANSAS FARMER last week, is busy arranging his schedule, and more than 200 institutes will be conducted by the agricultural college before December 20. Through the Farmers' Institute Department the Kansas Agricultural College last year addressed audiences that aggregated 349,967 persons.

### CONGRESS PREPARATIONS.

It is our belief that a meeting of importance to the development of agriculture in general and of much interest and profit to the farmers of Kansas, was held in the office of KANSAS FARMER last Tuesday afternoon. This was the meeting of the executive committee of the Kansas Agricultural and Industrial Congress, the organization of which was effected by a meeting of 42 representative Kansans held at Hutchinson some three weeks ago, and which meeting was reported in these columns.

The following members of the executive committee of the congress were present: Edwin Taylor, president; George W. Plumb, vice president; J. H. Miller, chairman program committee; J. F. Jarrell, representing J. R. Kooz, the latter chairman of the finance committee, and T. A. Borman, chairman of the advertising committee. The dates for holding the meeting were fixed for November 19 and 20. The meeting place—Hutchinson, Kan.—had been previously fixed.

The big business of the committee was that of determining upon the organization of the association on the delegate basis and the apportionment of the delegates among the various organizations invited to participate in this congress. It now appears that if the organizations so invited take advantage of the opportunity that no less than 2,000 delegates will be in attendance. These, aside from the thousands of others who will attend, but who are not official delegates. It is well to add here that any one interested in the purposes for which the congress is organized, is urged to attend.

Each local grange, of which there are about 170 in Kansas, will be asked to send a delegate. Each commercial club or equivalent organization, of which there are about 100 in the state, is invited to send a delegate. Each local farmers' union in Kansas, of which there are about 400, is invited to send one delegate. Each local farmers' institute, of which there are about 380, is invited to send a delegate. Each fair association in Kansas, of which there are about 50, is invited to send a delegate. Each board of county commissioners and each township board in Kansas is asked to send one delegate. In addition to these, every state association which in any way is connected with the agriculture of Kansas or interested in the development of agriculture, in manufacturing, etc., is asked to send 10 delegates each. The secretary of the congress, W. Y. Morgan, Hutchinson, Kan., was ordered to ransack the records of Kansas for the purpose of learning of associations and organizations the names of which were not known offhand to the committee, and such overlooked associations and organizations as he may find are to be invited by him to send delegates and assist in making the first meeting of the congress a hummer.

The Kansas Agricultural and Industrial Congress begins its work under as favorable auspices and as well manned as any similar organization of which we have had any knowledge. KANSAS FARMER will be disappointed if the people of Kansas generally do not participate in and receive much good from this organization.

With prime steers selling last week in Kansas City at \$10.50 per hundred, there is little chance for an immediate drop in the price of the best beefsteak. When you recall that a first class steer weighing 1,324 pounds dresses 812 pounds of meat, or only about 60 per cent, and of this there is slightly less than 36 pounds of loin and round steak, you can come near figuring why prices of these cuts are high.

There is more fun in hunting with a kodak than with a gun. Post your land and don't allow anybody to shoot anything at any time on your farm.

When a fellow is down, he is "up against it," and when he is down and out he is "all in." What's the answer?



# GENERAL FARM INQUIRIES

An early morning fire in a livery barn at Trenton, Mo., last week, burned the champion mule, weighing 2,010 pounds, which animal was the property of W. B. Carpenter, president of the Missouri Auction School. The mule was valued at \$4,000, and insurance of \$1,000 was carried.

## Moss in Water Tanks.

Our subscriber, N. L. H., Abilene, Kan., writes: "I had great success in keeping down moss in stock watering tanks for long intervals by the liberal use of all-slacked lime sprinkled on the bottom of the tanks, after thoroughly cleaning the tanks. No fear need be aroused by the use of lime, for it not only does not injure the stock, but it also keeps the water in a highly purified state as long as its strength lasts."

## Tax For Fly Traps.

Our subscriber, Mrs. Belle Michaels, Madison, Ind., writes that the inconvenience and the danger from flies can be almost wholly overcome by the liberal use of fly traps. She is in favor of legislation providing a tax for the number of fly traps necessary to supply every family, both in the city and country, with all the traps needed.

## Destroying Hedge.

Subscriber, J. S., Morehead, Kan., says that to kill hedge, the stumps should be covered with hay or straw 6 or 8 inches deep and enough brush thrown on this so that the wind will not blow the covering away. He says the sprouts will not come through, and in one season the hedge will be dead. The brush and rubbish can then be burned.

He also says that a piece of unslacked lime as large as the fist placed in a five or six barrel stock tank will keep the tank clean and free from moss for a period of three to four weeks.

## Breaking Alfalfa Sod.

Answer H. B., Lancaster, Neb.: Plow alfalfa field this fall while plant is still growing. Plow ground an inch deeper than it has heretofore been plowed. Plant the alfalfa sod to corn next spring, listing or surface planting, whichever is regarded as the best practice in your locality. Keep the field clean while the corn is growing. You should have little trouble in doing this. Drill to wheat next fall, drilling, of course, between the corn rows. This will bring the alfalfa land into the same crop rotation you have on other fields of your farm.

## Farm Machinery at Fair.

The manufacturer of a most excellent and worthy agricultural implement, in a conversation with the editor recently, stated that he would not exhibit his machine at a fair because Kansas farmers were more interested in flying machines than in farm machines. We know that, generally speaking, this statement is in error. We know also that in many instances the statement is correct. The farmer should attend the fair for the purpose of a good time, but also to learn of the best there is going in his line, and we know that this is the attitude taken by a large percentage of the farmers who visit fairs. Farm machinery manufacturers who maintain the attitude as described above are standing in their own light if they do not make fair exhibits.

## Moss In Stock Tanks, Again.

Prof. Haacker, of Nebraska, writes to help KANSAS FARMER readers on the matter of keeping stock watering tanks free from moss: "An easy way to rid the tank of this moss or slime is to make a practice of cleaning it at least twice a month, and after a thorough scrubbing out, it can be put in good condition by using a little copper sulphate or blue stone. This can be obtained at any drug store and is cheap. A teaspoonful of the crystals placed in a pail of water and dissolved will make a most excellent rinse water for the tank and kill all germs and spores of the water slime.

"Copper sulphate is a most powerful disinfectant, and is especially valuable in water, as it readily mixes or goes into solution, and a very small particle will destroy nearly all kinds of bacteria. By rinsing the tank when it is empty with this copper sulphate no slime or moss will grow within it until the effect of the copper sulphate is entirely lost.

"A very small per cent of the copper sulphate in the water will not injure the animals in any way. Of course, it would not be wise to have this solution put in the tank in large quantities,

## Something For Every Farm—Overflow Items From Other Departments



HORSE BARN, CENTRAL FAIR ASSOCIATION, HUTCHINSON. SCENE 1911 FAIR.

but use it as you would soap, rinsing it out with the water in the last rinsing. Copper sulphate will destroy typhoid germs, also many other disease germs. It is a common treatment for typhoid fever and is altogether a safe disinfectant for mangers, water tanks and pig troughs."

## Demand for Stockers and Feeders.

"For some time it has been generally conceded by those in close touch with both country and market conditions that there was a big shortage of stocker and feeder cattle in this country—east, west, north and south," said a representative of Clay, Robinson & Co., who was in this office recently. "However, few realized that the supply of such cattle had reached the acute scarcity stage. But it has. And there is no relief in sight for those who would produce a late fall or winter crop of beef.

"To get authoritative and up-to-date information on the prospective supply of stocker and feeder cattle at the leading markets for this season, we wrote our houses on the ten leading markets of this country with regard to this subject. The replies all tell the same story—a big decrease, with emphasis on the 'big.' They report a prospective falling off of anywhere from 25 to 75 per cent from last year, mostly 40 to 50 per cent."

It is apparent the demand for stockers and feeders will be of the hungry, insistent kind this season. Those who contemplate buying should be in the market early.

## Time to Plan the Work.

Our subscriber, H. L., Rock Elm, Wis., writes: "An old and prosperous farmer told me yesterday that at every harvest he begins to figure on the cash crop he will grow next year. If any change is to be made in fields and in his rotation, he figures it all out a year ahead. All the factors in his farming are in sight at harvest except market prices, and all questions of importance in relation to fertility of soil as well as in getting an early money return for the farm management and labor can be determined in advance. He said different crops require a different treatment of the soil in the fall. He thought deep plowing a necessity for a perfect seed bed next spring, and thought that plowing must be done early, too. Again, a two-inch

deeper cut and thus turn up a slice of the subsoil will do for some crops and will be a detriment to others. Foul weed, special manuring, insects, etc., may require a change in the general rotation. If so, now is the time to plan the work. Thought and labor make a strong team."

## Bermuda in Leavenworth County.

Early last spring J. M. Gilman, Leavenworth, stated in KANSAS FARMER that his Bermuda, which was going through its first winter, had winter-killed to the extent of 50 per cent. Upon our request for information regarding the present condition of his Bermuda, Mr. Gilman says: "My Bermuda meadow is located on a western slope, where the northwest winds last winter had full sweep, and as a consequence the ground was bare the greater part of the winter. The thermometer went very low and the ground froze to a greater depth than for several years. It will probably be a long time before such a severe test will occur again. In regard to its value as a pasture grass, my plot is not located where pasturing it is at present convenient, but it makes a good growth in competition with weeds and crab grass, and this competition in favor of Bermuda is more effective when the meadow is mowed. If Bermuda should prove as hardy as it seems to be, I will grow it more extensively, and have every reason to believe it will prove valuable."

## Drainage in Kansas.

When the activities of H. B. Walker, state draining engineer, are known, there can be little question but that the subject of drainage is attracting the attention of land owners who, for years, have been paying taxes on fertile land, but which, through lack of drainage, has failed to produce crops. A few weeks ago the Delaware river drainage district near Perry at the instance of those interested, was brought to the attention of Mr. Walker. It is planned to drain 10,000 acres of very rich land. The work will consist in straightening 39 miles of river channel and excavating a half million cubic yards of dirt. The old dam at Ozawie, which has been blocking the water-way, was bought for \$300 and destroyed by dynamite.

Walnut Creek, near Great Bend, will be straightened under Walker's direction

to prevent its spilling each year over about 3,000 acres of valuable land and destroying the crops thereon. An old irrigation reservoir at Great Bend will also be drained, and so to do will require excavation of 2 million cubic yards of dirt and the changing of the courses of two small creeks. This and other operations will drain 40,000 acres of waste land in Barton County, which land is rich and specially adapted to alfalfa.

Recently, Mr. Walker gave the preliminary instructions for laying 10 miles of tile on the ranch of Harry Price, near Reading, Kan.

## Corn and Kafir in Same Silo.

Our subscriber, M. M., Princeton, Kan., writes: "I have 12 acres of corn that is early and hurt by the drouth. The fodder is heavy, but the grain yield will not be in excess of 20 bushels per acre. I also have 20 acres of Kafir that is just heading. I have a 150-ton silo. Had I better put the corn or the Kafir in the silo? How would it do to put the corn in and cut and shock the Kafir and put it in the silo along about December 1 after a part of the corn has been fed out?"

The corn you have cannot be fed to better advantage than by putting it in the silo. If there is any argument against putting corn in the silo, it would be in the case of extremely heavy yielding corn. We would put this corn in the silo as soon as the grain is in the dent. If extremely dry weather prevailed and the blades were drying up rapidly and the tonnage becoming less and less each day, we would put it into the silo at once, the idea being to save all the feed possible.

Under any condition the corn will be ready for the silo before the Kafir. Put into the silo all the corn and finish filling with the Kafir. The corn will have time to settle before the Kafir is ready, and this will have the effect of better settling and will result in filling silo to its maximum capacity.

The Kafir should not be cut and placed in the silo until the grain has passed the dough stage. If you need silage after you have put your corn in the silo and the Kafir is not yet ready to go in, begin feeding the corn silage and feed such of it as necessary before filling with Kafir. Under the circumstances, with abundant feed in sight, we would feed all the silage the live stock will consume, beginning as soon as it is needed.

Such Kafir as is not required to fill the silo should be allowed to mature for grain. Cut and shock and feed this fodder along through the winter to the young stock, and in feeding the young stock regulate the quantity of silage fed per head so as not to run short on silage and thereby skimp the milk cows. You can feed about 40 pounds of silage per day to your 20 head of milk cows and an average of about 20 pounds per day to your 30 head of young stock and have enough silage in your 150-ton silo to feed 240 days—a long feeding season. If the feeding season is shorter than this, you can feed young stock more than 20 pounds. Your milk cows will in all probability not eat more than 40 pounds each.

The editor has had no experience in placing shocked Kafir in a silo. I do not know of anyone else who has. Shocked corn is frequently placed in the silo, and with the addition of water in the proper quantity makes a more palatable and more economical feed than shocked corn. I would think that the same condition would prevail with reference to Kafir. It is certain, however, that the silage from the green plant is much better than the feeding of the dry plant, consequently would advise filling silo with the green Kafir. The shocked Kafir can be fed during the winter to young stock with satisfactory results. In fact if you can feed young stock only 20 pounds of silage per day, it will need additional roughage.

Your milk cows, even though they eat 40 pounds of silage, will require some additional hay to properly balance the ration, and that should be alfalfa hay. Given 40 pounds of silage per day, the milk cow will not eat more than 10 pounds of alfalfa or other hay.

In case you have a larger acreage of Kafir than is needed for fodder under the above plan, we would cut and shock only such as was required. We would head the Kafir either with a heading machine or with a knife, and stack it and thresh when ready, leaving the stalks of the topped Kafir on the field to be cut with stalk cutter and plowed under.

## To Kansas Farmer Folks and Their Friends

Kansas Farmer will maintain a rest room for its folks on the grounds of the Kansas State Fair Association, Topeka, during the week of September 9 to 13. All readers of Kansas Farmer, their families and their neighbors are invited to make use of the accommodations. This rest room will be in charge of J. E. Spaulding, circulation manager of Kansas Farmer. Easy chairs, tables and reading matter, looking glass, drinking water, and other things for the convenience and comfort of those who visit us, will be furnished free. Private quarters will be provided for the mothers who desire to change the baby's clothes or to put the little one to sleep. While enjoying the comfort of this arrangement, visitors will not be pestered by subscription agents, the selling of premiums, or in other ways embarrassed or inconvenienced.

Make appointments to meet your friends here. Mail your post cards and letters from here, and leave your packages. Have mail sent to you in care of Kansas Farmer Headquarters, State Fair Grounds, Topeka, Kansas. You can here obtain such information as you may desire regarding the city in general.

Enter at main gate. Follow main walk two hundred yards. Look to the left. You will see KANSAS FARMER sign.



# THE FAIRS OF KANSAS



CROWD OVERFLOWING FROM GRANDSTAND, AND "SEEING THE RACES," AT TOPEKA, SEPTEMBER, 1911. CATTLE BARN IN BACKGROUND.

The county fair in Kansas the past few years has experienced an unusual revival and this condition, with reference to fairs, prevails throughout this country. There may have been a time in Kansas when a larger number of county fairs were held than at present, but if so, it was many years ago. The early day county fair, as we recall it, was not so successful in holding the interest of visitors as is the fair of today. The reason was largely because the entertainment features were neglected. The early fair was characterized as a "pumpkin show," meaning that it was a show only of the products of the farm, and there was little aside from the showing of these products to attract, and nothing aside from the races to entertain the people. Of recent years the entertainment feature has come into prominence and so has swelled the gate receipts and, as a consequence, the fair of today is more liberally supported. It requires 50-cent pieces at the gate to make the fair go. The American people are long on entertainment, and likewise Kansas people. This is not a fault, either. Those who attend a fair are entitled to recreation and a few days of diversion from the things of the farm, for both mind and body, if they so elect. Some people have the faculty of having a good time and relaxing themselves, even though they are studying their own business. Such will find the "pumpkin show" entertaining. There are other people who weary at thinking of their own business and seeing products of their business, and this class requires entertainment. The present day fair is constructed with a view to pleasing each of those two classes and, having succeeded in doing this, the county fair is on the upgrade, popular in the favor of the attendant and so better supported is bigger and better than heretofore.

There are in Kansas about 52 associations holding annual fairs. These are for the most part, county organizations, and the annual meetings are designated as county fairs. These are well distributed throughout the state, the larger number, however, existing in the counties of the middle third of the state from north to south. Elsewhere in this issue of KANSAS FARMER is a list of Kansas fairs yet to be held. This is not a complete list of Kansas fair organizations, for the reason that a number of the expositions have already held successful meetings. The officers and managers of these fairs maintain an organization known as the Kansas Association of County, District and State Fair Managers. This association meets annually, the last meeting having been held January 9, 1912. The organization was conceived by H. L. Cook, secretary of Kansas State Fair Association, Topeka. It is his idea that the county fair needs encouragement, that the county fair fills a local need which cannot be supplied by a state fair, and that the local fair encourages the fair spirit and the exhibition of agricultural products and live stock to the extent that good local fairs will contribute to the success of a state fair. It was his knowledge, too, that the county fairs of Kansas were not conducted on a basis of uniformity and that much benefit would result from an annual getting together of the managers, with the result that a better understanding in fair management would be accomplished. The achievements have been wonderful, and officers of county fairs in Kansas regard this organization as an important essential to their welfare. The officers of this organization are: I. D. Graham, Topeka, president; M. F. Garrity, Norton, vice president; H. L. Cook, Topeka, secretary. The execu-

## Regarding Local and State Fairs— Kansas Well to Front in Expositions

utive committee is composed of the above named three gentlemen, in addition to L. G. Jennings, Anthony, and Elliott Irvin, Coffeyville.

Every county in Kansas should hold a fair, and it is within the possibilities of every county to hold an annual exhibit of agricultural products and live stock, and in addition contribute enjoyable and wholesome entertainment for its people. Aside from what is seen at the county fair, the annual bringing together of the people from all parts of the county is well worth while. If there is one thing, more than another, wrong with our make-up in Kansas it is our lack of sociability. The "get together" spirit in a social way, needs cultivating. There is no better method for cultivating this spirit than to load the whole family into a wagon and drive to the fair, taking a picnic dinner, if this would be enjoyed more than a dinner at some of the eating places on the ground. The meeting of other people has an all-around good effect. We tire more or less of our own surroundings and finally, by living to ourselves, come to think that we are not doing as well as we should. Nothing will blot out this feeling like a visit with other people and to find that we are getting along as well as others in other parts.

Speaking of the organization of local fairs, and referring to statement that each county should have a fair, it is possible for two, three or four counties to join in the organization of a fair association and by the concentration of finances and effort hold a better fair than could each county separately. There is one such fair held in Kansas. The organization is the Four County District Agricultural Society, and comprises the counties of Allen, Neosho, Wilson and Woodson. These, by the way, are wealthy and thickly populated counties, and if such four counties find co-operation advantageous in the fair business, we are certain there are other counties not so well-to-do and not so thickly populated which could well afford to follow this example. The annual exhibition of this association is held at Chanute, Kan. The stock of the association is owned almost wholly by farmers and the management is in the hands of farmers. W. W. Stanfield, R. F. D. No. 4, Chanute, is secretary, and the third

annual fair will be held September 10 to 13, inclusive, this year. We have no doubt Secretary Stanfield will be pleased to give information regarding the organization of this fair to any interested persons. This society has held very successful exhibitions. The Woodson County Live Stock Breeders' Association is an important factor in the live stock exhibit of this society. The plan of this breeders' association has been reported in KANSAS FARMER, and the live stock breeders of Woodson County, through their organization, have done themselves a great deal of good. G. A. Laude, Rose, Kan., is secretary of this breeders' association. The breeders of live stock of several other counties of Kansas, through their organizations, have not only been of great help to their own business, but have contributed much to the success of fairs in their counties.

The two big fairs of Kansas are those of the Kansas State Fair Association at Topeka, which will next week hold its annual exposition, and that of the Central Kansas Fair Association, which will hold its annual meeting at Hutchinson, September 16 to 20, inclusive. These are the big fair events of the state, and each is on the circuit of the middle west state fairs. The circuit begins at Des Moines the last week in August, at which point the live stock exhibitors of the west get together for the first showing of the season. From Des Moines the exhibitors divide—a part going to Minnesota and continuing over a circuit of eastern state fairs, the other part coming over the western circuit, first to Lincoln, Neb., then to Topeka, thence to Hutchinson, thence to Oklahoma City, and closing the season at the International, held yearly in Chicago. Each of the above named Kansas fair associations has accomplished wonderful results in the expansion and development of the expositions given each year. In each the educational and entertainment features have been so well combined as to make an institution fully as educational and entertaining as any of the state supported fairs. There are fairs in the west which altogether have a larger showing of live stock and agricultural products than either of these, but in quality of exhibits, the editor has not seen the Kansas showing surpassed. It must be kept in mind that neither of these associations receives one

cent of support from Kansas by taxation. The support all comes from the public spirited citizens of Kansas who pay their admission and others who have given of their money to assure success. It should also be remembered that the profits of the annual expositions is immediately invested in improvement of the ground toward extending the facilities for making the expositions larger and better. It is not out of place to say that it requires a great deal of money to run each organization, inasmuch as approximately \$50,000 worth of premiums are offered by each, and this is the obligation, aside from the expense incurred in getting ready and conducting the fair—by way of help, supplies, etc.—which confronts each management the minute the gates open. The conduct of such an exposition is a tremendously large business undertaking, requiring liberal patronage to maintain and an original investment of much money. For example, the Kansas State Fair Association, Topeka, has no less than \$200,000 invested in its lands, buildings and equipment. While the exact figures for the Central Kansas Fair Association Hutchinson, are at just this minute not known to the editor, it is reasonable to assume that a corresponding investment is required.

A letter from Secretary Sponsler, of the Central Kansas Fair Association, Hutchinson, says: "We enjoy the distinction of conducting the largest fair in the United States in a town of this size. It is the only great opportunity afforded the people of this section for few days' outing during the year. People living in the center of a great agricultural territory like this, have the same desire for rest, recreation, entertainment and enjoyment, that the people of the mountain, lake or ocean regions have. We aim to make the fair of real educational value, giving our visitors something to take home with them for their benefit, material and social. I do not know of a territory in the country that is making more rapid advancement than the territory about Hutchinson. We try to acquaint the people with these facts, and think they are generally well pleased with the results from year to year. We are never actuated by motives of enviousness or jealousy, but simply plow our own furrow, with 'malice toward none and good wishes for all'."

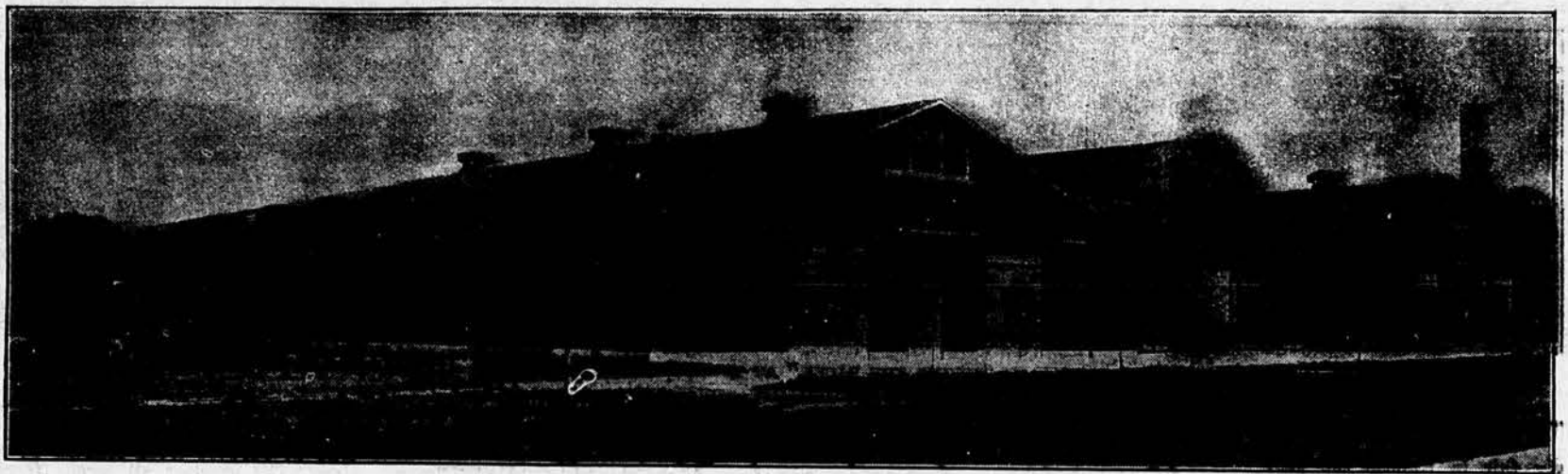
A letter from Secretary Cook, of the Kansas State Fair Association, Topeka, says: "This association has reflected the glory of the Sunflower State in thousands of non-resident visitors who annually attend, and who come and believe from having seen. The 710 head of show cattle, 300 head of draft horses, 1,200 head of show hogs and 600 head of show sheep, exhibited at our 1911 fair, gives us fifth place in the big state fairs in the United States from the standpoint of live stock entries. The amusement features, races, music and special attractions have ranked alongside the biggest of state fairs, and the people of Kansas have shown by their liberal attendance their appreciation of the advantages offered in seeing not only a mammoth exhibit of Kansas products, but witnessing the really big amusement features and musical attractions of the world, at the popular priced admission. With spacious grounds located within the city, ample transportation facilities, handsome new brick and concrete buildings constructed specially for the purposes for which they are used, and the best possible railroad connections in every direction, there is all to make the big Kansas State Fair the ideal exponent of the best that's in Kansas."



AGRICULTURAL HALL, CENTRAL KANSAS FAIR ASSOCIATION, HUTCHINSON, KANSAS, 1911 SCENE.



# THE IOWA STATE FAIR



HORSE BARN, AT IOWA STATE FAIR GROUNDS, SHOWING EXTENSIONS.

Quality has always characterized the Iowa State Fair. One of the oldest of the greater fairs of the middle west and located in one of its richest states, this fair has always been an illustration of what an able and enterprising people could do in maintaining such an institution.

Founded and supported by the state and managed by the State Board of Agriculture, this fair has acquired a permanence, a stability and a quality that seem almost the despair. While the older buildings are of wood and partake of the nature of temporary structures, as the means increased and the people became better acquainted with and more appreciative of this great institution, the buildings assumed an architectural style which has made a great state park of the fair grounds, while their quality is of the best that pressed brick and steel can make and speaks loudly for permanency.

Thursday is generally the big day at any fair, though just why this should

## Larger Attendance and a Greater Field of Exhibits Than Ever

be so no one seems to know. Fair managers depend upon the receipts of Thursday to go a long way towards meeting expenses and putting a little profit in the till. If they can open the gates on Thursday morning with all bills paid, there is joy in the manager's office, because the balance of the week's receipts will be pure "velvet." This year the Iowa fair opened on Thursday morning with a total of 9,431 more people and \$11,508.66 more money than they had last year, and a good feeling prevailed.

The crowds of visitors always have reason to feel good. They are given the biggest show in the state for their money and it is a show of value to every one of them. Here, gathered and arranged in order, are the first fruits of the land—cattle, hogs, horses, sheep

of a quality seldom equaled; grains, grasses, fruits, vegetables from above the earth and minerals and their products from below it.

Manufacturers vie with each other in showing of their products, while artists, artisans and musicians combine to make both place and exhibits things long to remember after the price of the admission ticket is forgotten.

Although Des Moines is the state capital and a city of considerable manufacturing and market importance, and although the state fair brings an unusual crowd of all kinds of people, the fair is characterized by its moral cleanliness and the city by its freedom from crooks, pickpockets and such like objectionable people. Whether this is due to police efficiency, as is claimed by the

officers themselves, or whether it is due to the innate moral decency of the farmers and business men who make up the bulk of the crowds and who will not "stand for" that sort of thing, may be a divided question, but the weight of evidence is in favor of the latter.

In one thing the Iowa fair excels, and that is in the transportation facilities with which she handles the crowds. In addition to an excellent street car system, the Rock Island railroad runs shuttle trains to and from the grounds every few minutes, thus insuring safety, speed and comfort.

Amusement features were there a plenty, and chief among them were the long string of high-class races and the Cheyenne cowboys, both of which will appear in Topeka at the Kansas State Fair.

It is impossible to give all the premiums awarded or to even hint at the contests and honors of the show ring. A few of the more important classes are reported upon only.

## A New Horse Disease

During the past few weeks numerous reports of the death of horses from some mysterious cause in the central and western counties of Kansas have been made, and later advices show that this trouble is becoming acute and the losses very severe.

In Ness county alone, where we first heard of it, the loss of horses is said to already have exceeded two hundred, and other counties are reported as suffering more or less severely. Veterinarians who have been on the ground and examined the animals are wholly at a loss to determine either the cause or the remedy, and it is understood that the working force of the State Veterinarian's office is now employed in seeking the cause, determining the remedy, if any exists, and finding preventive measures, if possible.

Another important discovery was that if the animals which show symptoms of this new disease are treated with proper doses of purgatives and diuretics in its early stages and are kept in the stables on dry feed with good care, they rapidly recover. It is found necessary, however, to thoroughly cleanse out the digestive system before any hope of recovery can be entertained, and this is true only in the earlier stages of the disease.

Perhaps the most important discovery made is that the disease is due, apparently, to the consumption by the animals of the second growth grasses which are found on the margins of prairie ponds and, believing that this is the true cause of the disease, the doctor ordered the animals taken out of the pastures or the water holes fenced, in as preventive measures. While the time which has elapsed since this order was given is too short to enable a statement of positive results, the indications are that the recommendations are the correct ones and that no trouble may be experienced where these instructions have been carried out.

It seems that there have been manifestations of a similar trouble in the earlier history of Kansas and other prairie states, but these occasions are very rare and occur only at long distances apart. Many years have elapsed

since a previous trouble of this kind has been experienced and it seems to be due to the peculiarities of the season.

It is a well known fact that there are many plants which are commonly used as animal feeds which will, under certain conditions, develop toxic properties and in many cases most virulent poison. The second growth of the sorghum is a case in point. Under certain climatic conditions the second growth of several varieties of sorghum will develop hydrocyanic, or prussic acid, which is one of the most deadly poisons known. Animals which have fed upon such sorghum die very quickly.

The well-known corn stalk disease is supposed to have its origin in some toxin developed by the peculiarities of its growth. This, however, has not been determined definitely, nor has a remedy been found. Corn stalk disease is most common in years when there is a heavy growth of the stalks and after the stalks have dried. This disease appears to be most severe during cold and wet weather. Young cattle apparently suffer more from it than do older ones, and the disease appears more frequently when cattle are first turned into a stalk field, or when they are changed from one field to another. The disease comes on so suddenly that it has been very difficult to study it. The scientists have determined that corn stalk disease is not caused by corn smut or by bacteria. They have also found that the popular belief that it is caused by impaction is erroneous, as this is only a manifestation of the disease. While it is not known that this disease is due to acute indigestion as the result of too much coarse, indigestible feed, it is generally believed that it is due to some poisonous substance developed in the corn stalk.

During the summer of 1911 cases were reported in which large numbers of hogs were lost by a supposed poisoning by alfalfa. It was positively stated by one farmer of large experience, who was thoroughly familiar with the fact that the sorghums developed an active poison in their second growth, particularly if they have been stunted by dry weather, and who was also familiar with the corn

stalk disease, that his alfalfa, which made a very slow growth after the first cutting, had developed an active poison which killed his hogs almost instantly after drinking water. These hogs came in from the pasture apparently in good health, went to the water trough where they drank heartily seemingly because of internal fever, and where they immediately fell over dead, or died in a few minutes. Investigation showed that the volume of dry alfalfa which the hogs had eaten had produced more or less of indigestion, but no impaction was apparent, and the rapid death of the hogs seemed to indicate that an active poison had been developed in the alfalfa by reason of the adverse weather conditions.

Everyone is familiar with the loco weed and its effect upon live stock. While this weed is never used for feed, it was formerly eaten by animals which were tempted by its fresh and green appearance in the winter months, and which suffered from the disease popularly known as loco. Dr. Sayre, of the University of Kansas, has devoted a great deal of attention to the loco weed, and has succeeded in extracting an alkaloid which may or may not be the active agent of the disease known as loco. Since the pastures and ranges of western Kansas have been pretty well cleaned up of loco weed there is very much less trouble from this cause than formerly.

In addition to the corn stalk diseases, it is a well-known fact that moldy corn is especially fruitful of a diseased condition of the brain and nerve system, which is usually called blind, or mad, staggers. The same thing is true of oats, hay and forage crops, and is mentioned here simply to show that the molds which sometimes form on these grains and grasses are actively poisonous, and when present they should be destroyed and never fed to live stock. There seems to be a popular belief that the horse should have clean hay and grain, while anything is suitable for cattle or hog feed. The severe experience of many farmers in the loss of live stock has taught them to be more careful in the feeding of moldy corn or hay, and

in the prevention of conditions which will produce them.

Cottonseed meal, while one of the most valuable of concentrated feeds, seems capable of developing an active poison if fed in too large quantities or for too long a period. Just what this poisonous principle is has not yet been discovered, but it is known to affect the nerve centers and through these the eyesight of the animal. It has also been discovered that moldy ensilage is poisonous, or at least capable of developing an active poison in the digestive system of animals to which it is fed, and this seems to apply to horses and hogs, as well as to cattle and sheep, although the digestive apparatus of the first two is entirely different from those of the last. It is also well known that flax straw and chaff will poison animals under certain conditions, and with ergotism very many are familiar. The ergot is a fungus disease developing on the rye, wild rye and other grasses of that family, and ergotism is a form of chronic poisoning having the most serious results.

These cases are all cited to show that the commonest forms of grains and grasses used for live stock feeds may, and do under certain conditions, develop toxic properties, either in the form of a virulent poison, as in the case of the sorghum, or of a slower acting toxin affecting the general health of the animal and less frequently causing its death, as in the case of cottonseed meal and the loco weed. There is nothing unreasonable, therefore, in the contention that prairie grasses may also develop toxin under certain conditions.

As an ounce of prevention is worth a ton of cure, the farmers who are losing horses in the central and western counties should fence up the prairie ponds and the grasses which surround them, or place their horses in dry feed lots or prairie pastures where they can have no access to pond water or the grasses which grow about them. It is vastly better to drive the horses to the windmill than to run any risk of losing them by allowing them to pasture over ground to which a suspicion attaches.



# Capons Are Profitable

No Other Fowl or Meat of Any Kind Sold on the Open Market Sells so High as Capon

By G. D. McCLASKEY

In the poultry department of KANSAS FARMER for August 3, appeared a brief comment on the caponizing branch of the poultry business. The writer of the item once experimented with capons in a small way and was not satisfied with the results. He says that three of his acquaintances also tried the capon business, with a dozen or so cockerels, and they did not find a market for them in their home town, so decided that capons were not profitable.

While, no doubt, a number of people have been unsuccessful in producing capons and marketing them, yet there are other people who have worked along the same line and have met with the greatest success. The first thing is to know how to produce capons, and the next thing is to locate your market. In the East there are plenty of good markets, but out here in the mid-West only a few good markets exist at the present time. Only a few years ago there was no western market for capons, but gradually the demand for capon meat is increasing, and along with this demand new markets are opened.

As an illustration that the capon business can be made to pay, and pay big,

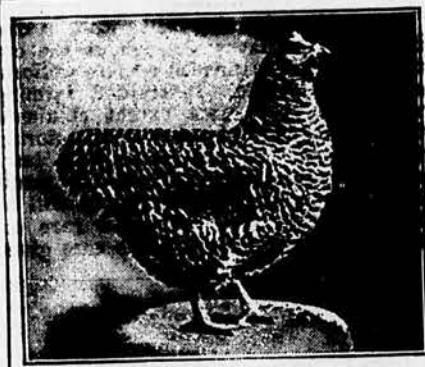
have come into general use, the capon industry has forged to the front, and I predict will soon become the most profitable part of the poultry industry."

The produce company's notice, which Mr. Beuoy refers to, reads as follows: "We want capons, and will pay highest market price, ranging from 15 to 25 cents per pound, dressed, according to quality. The larger and fatter they are, the more they will bring. Slips not wanted, but will handle at reduced prices. Live, 2 to 3 cents per pound less than dressed."

One of the secrets of Mr. Beuoy's success in the poultry business lies in the fact that he learned right at the start that a combination of the commercial and so-called fancy sides of the business would pay best, and so he not only sells large quantities of eggs for table use and chickens in the form of capons for market, but he also does a good business every year in eggs for hatching and fowls for breeding. He handles only one kind of chickens—Barred Plymouth Rocks—which he believes are the best farm chickens on earth. He exhibits every year at the Kansas State Poultry Show and never fails to win on the birds



A 3-year-old Percheron, sold in order to get into the chicken business. This was only one of the many good ones that were let go to make the Dingley Dell Chicken Ranch the best in the state.



George Beuoy's first prize pullet at Kansas State Show, 1910, daughter of first hen, same show. Two highest scoring Barred Rocks in the show. At 1911 show Mr. Beuoy made only two entries, cockerels, winning 2nd and 3rd.

one need only refer to the success of George Beuoy, of Dingley Dell Farm, Cedar Vale, Kan.

Mr. Beuoy was engaged in general farming. He raised Barred Plymouth Rock chickens and thought he saw great possibilities in the poultry business. He investigated poultry conditions in Kansas, looked up the best markets and learned the demands of these markets. When satisfied with his investigations, he laid plans for building up a poultry business. He started right, and kept going ahead.

Mr. Beuoy sold a 3-year-old Percheron in order to get into the chicken business. This, turning out all right, he sold another good horse, and still others, to enable him to enlarge his poultry plant. Now, the poultry end of the business at Dingley Dell Farm is the big paying thing on the farm. And a great deal of Mr. Beuoy's success with poultry is due to the fact that he makes capons out of his cockerels, and then sells his capons where there is a demand for them. He finds a good market in Kansas City for all he can produce and more, too. In a recent letter to KANSAS FARMER, Mr. Beuoy says:

"The supply for capons has never, in late years, been equal to actual market requirements, as I positively know. I enclose a slip sent out last spring by one of the best known commission houses in Kansas City. This slip speaks for itself. There are four or five other produce merchants in Kansas City that buy finished capons at any and all times. The price for them has not been less than 15 cents per pound, live weight, and 20 cents, dressed, in the last three years, as I positively know, having sold capons almost every month during that time, my average price for the three years being in excess of 20 cents per pound, live weight. No other fowl or meat of any kind sold on the open market sells so high as capon. Under the old methods and old style tools, real capons were hard to make and were not extra profitable on account of the large number of slips that usually resulted. However, under modern methods, and since the perfected automatic capon tools

he enters. Only the very finest cockerels in shape and color points are reserved each season to be sold as breeders. All the rest are caponized and fattened for the Kansas City market, where they bring more money than the average poultryman gets for his cockerels as breeders.

On August 26, Mr. Beuoy again wrote KANSAS FARMER about his work with capons. We quote from this letter:

"More than 2,000 letters have reached me on the capon subject recently. Any person who would look over even a few of them could not for a moment doubt the coming importance of the capon industry. As you know, I am making the new style tools that work automatically, and I have been unable to supply the demand for them. I mention this to show the great interest that is being taken in capons.

"We have 100 capons now that are coming fine, and will work about 50 more of my own this week. I find that they are much profitable than selling \$3 cockerels. I have just received a letter from a man at Dover, Kan., who says he has made 500 capons with our tools and only lost four birds. The agent for the Orient Railroad at Longsdale, Okla., writes me that he has operated on 100 birds and only lost one. Both of these parties had no previous experience."

It is not a difficult matter to bring a capon to 10 pounds in weight, which means that he will sell for at least \$2. Although the market price of young chickens is good now, yet not many of the farmers of Kansas are receiving \$2 for a single chicken on the market.

It is the writer's opinion that poultry associations should do more for the commercial side of the business than they have been doing in the past. At every poultry show classes should be provided for live and dressed capons, live and dressed cockerels not caponized, also live and dressed pullets and hens, and fresh eggs. This, we believe, would be of much benefit to the farmers in helping them to produce better poultry products for market and in getting better prices than they usually obtain for such products.

**REMINGTON-UMC**

**AUTOLOADING SHOTGUN**

For singles—trap or field—just toss in a shell, press the button and—"PULL." The side bolt makes it easy. You don't have to tug at the barrel or watch an on-and-off device. The action stays open after each single shot is fired.—It always stays open when the magazine is empty. Five shots—three to get the cripples—each under absolute control of the trigger finger. The recoil reloads for you—kicks another shell in; takes the strain off the gun—the discomfort out of the kick—all without diminishing the drive behind the shot.

Simple take-down—a few turns of the readily handled magazine screw-cap makes cleaning, carrying and interchange of barrels quick and easy.

Send for a motion picture booklet telling how the kick is used—how a friction device found only on the Remington-UMC Autoloading Shotgun takes the punishment out of heavy loads.

Write to-day.  
**REMINGTON ARMS-UNION METALLIC CARTRIDGE CO.**  
200 Broadway 7 New York City

## The Magic of Deep Tilling Told in This Book!

The results of deep tilling on a thousand farms are condensed in an 80-page "Bulletin" (illustrated) which we want to send you free. It discloses the magic in deep-tilled farms—tells what deep tilling does and why. It shows how yields of all kinds of crops are often doubled by it. Note the letter below.

We have thousands of letters like these from owners of Spalding Deep-Tilling Machines. This is the only machine in the world that plows from 12 to 36 inches deep, pulverizes and mixes the soil completely, all in one operation.

The results of its use on all kinds of lands are like magic. It leaves a perfect, garden-like seedbed over the entire farm just as if it were spaded by hand. And the work is done easier and quicker than plowing and harrowing are done now. No other machine ever even approached the effect of a Spalding.

The machine is insurance against any drought, for this seedbed holds winter rains like a sponge. Time and again, in drought sections, Spalding users have raised bumper crops to the wonder of neighbors whose crops have burned. Our books contain reasons, figures and facts. Cut out this ad as a memo to write for them—now while you think of it.

Auburn, Ill., November 25, 1911.

In 1909 we plowed or deep tilled two strips of 10 acres each to a depth of 22 inches in a 45-acre field, and one strip in a 20-acre field. At the end of July the following year, 1911, all the corn in the two fields was fired badly, except on the deep plowed ground. The difference was so marked that in adjoining rows one was fired badly and on the other row the foliage was green to the one field and the shallow plowed averaged 67 bushels per acre; the deep plowed 76 bushels per acre. The other plants were not weighed, but I can safely say that there was easily 10 to 12 bushels per acre gain for deep plowing in each instance.

**Spalding Deep Tilling Machine**

Left half of drawing by courtesy of North Dakota Agricultural College.

**FRED W. LADAGE**  
Spalding Dept. Co.  
Gale Mfg. Co.  
Albion, Mich.

**Rubber Roofing**

Warranted For Twenty-Five Years.

**ONE-PLY** ... Weighs 25 lbs., 108 Square Feet, \$1.10 per roll.  
**TWO-PLY** ... Weighs 45 lbs., 108 Square Feet, \$1.35 per roll.  
**THREE-PLY** ... Weighs 65 lbs., 108 Square Feet, \$1.50 per roll.

**TERMS CASH.** We save you the wholesalers' and retailers' profit. These special prices only hold good for immediate shipment.

**Indestructible by Heat, Cold, Sun or Rain**

Write for FREE SAMPLES or order direct from this advertisement. Satisfaction guaranteed or money refunded. We refer you to Southern Illinois National Bank. (East St. Louis, Ill., or 100 Century Manufacturing Co., DEPT. 616 (E. 11th St., Kansas City, Mo.)

**BETTER ENGINES-LOWER PRICES**

(The days of big profits are past) Our big new modern factory is turning out the Best Engine money can buy, guaranteed 5 years, with every advantage at big reduction in prices, no risk, guarantee fulfilled or money refunded. Use distillate, gasoline and many other fuels. All sizes, 1-2 to 40 H.P., any style. Write quick for free catalog and new special prices, stating size wanted.

**WITTE IRON WORKS CO.**  
1627 Oakland Avenue. KANSAS CITY, MO.



# YOUR FALL PLOWING IS IT DONE!!!

**I**F NOT, buy a Hart-Parr Oil Tractor and get it done at once. It is the only way you can get your land all plowed before winter catches you. You know what happened last year. The wet weather delayed threshing and plowing, and that awful freeze early in November caught you with most of your land unplowed. Then you had to plow it this spring in a cold, wet, slow season. Your seeding and planting was held up until it was late, and much of it was poorly done. Consequently you are losing a wad of money. Money that would have been saved if you had bought a Hart-Parr Oil Tractor last fall. Probably enough lost to have paid for the tractor.

Don't get caught that way again! Protect yourself. Buy a

## Hart-Parr Oil Tractor

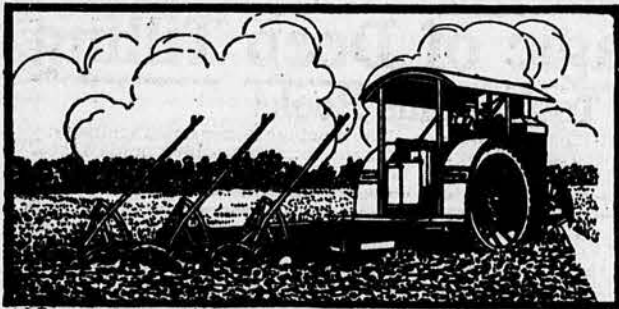
so one or two men can plow 20 to 30 acres a day. If necessary, run it day and night and plow 40 to 60 acres in a day. But, above all things, do it right now. Buy in time and save next year's crop. If you buy a Hart-Parr now and get all your land plowed this fall, you will deserve a big crop next year. And if you sow good seed next spring, and do it with that same engine, you will get that big crop. If you don't, you won't.

**We have Tractors in stock at all our branches**

Take the next train to our nearest Branch House. Give your order for immediate delivery. Then you can go back home and not have to worry about your plowing and next year's crop.

**Run perfectly in the coldest weather**

Hart-Parr Oil Tractors are **One Man Outfits**. Their fuel is the **Cheapest Kerosene**. Their Oil Cooler is **Absolute Insurance Against Freeze Ups**. They will work 24 hours in the day and seven days in the week.



**HART-PARR COMPANY**

212 Lawler St.  
Charles City, Ia.

**Be Sure to Say** When you write **I Saw Your Ad** our Advertisers  
In this paper. Our advertisers like to know from which papers their orders come.



### The Best Boot For the Farmer

Every farmer wants the rubber boot

That **Fits Right**, when he tramps over hummocks, or spades a ditch.

That **will not leak** when he has to wade a brook, or slosh through a low meadow. That keeps his feet warm, even in the cold, frozen yard at dawn.

Then here it is:

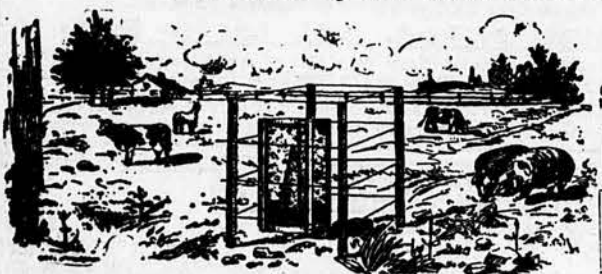
### Woonsocket ELEPHANT HEAD Rubber Boots

They are made to fit *any* foot, just as carefully as a fine shoe. They are given extra reinforcement at all wearing points. Positively waterproof under the roughest kind of working conditions. Wade and tramp all day through brooks, mud and slush and still your feet are warm and dry. Lined with thick, warm, high grade wool.

**LOOK FOR THE ELEPHANT HEAD**

Back of every boot bearing this trademark is nearly half a century's boot making experience. Your dealer can supply you—order your pair today. Ask for **Woonsockets**. **WOONSOCKET RUBBER CO., Woonsocket, R. I.**

Endorsed by All Who Use Them.



### EFNER'S SOLID STEEL FLY TRAP

The Greatest Foe to Flies

The fly is the most destructive insect known today. Save your stock from the agony of fly-bites by using Efner's Fly Trap, with specially prepared bait free with each trap. Can be used anywhere for the extermination of the deadly pest. Address all inquiries to

**CHAS. CLARKE, 334 Kansas Avenue, Topeka, Kansas.**

# THE FARM



Intensive farming does not apply alone to 20 or 40-acre farms, but has equal application to a 160-acre farm or larger. Intensive farming means better farming of as much land as it is possible to farm well. It is practical to employ intensive farming on 160 acres if the help is available.

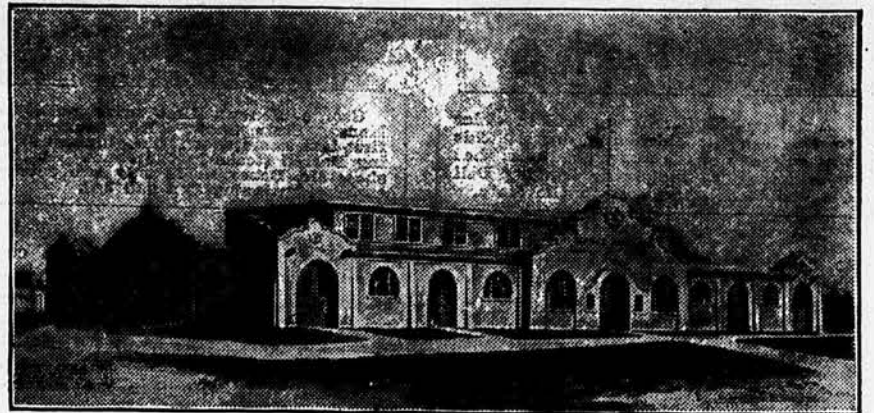
The corn binder is a labor-saving implement in the cutting and shocking of corn when done on a considerable scale. About the hottest work that can be done on the farm is that of cutting corn with a knife. The corn binder, however, does not add to the feeding value of an armload of corn fodder except as the binder may expedite the work and cut the corn before it has dried up and so becomes too ripe. The same situation prevails with reference to a number of other farm implements. The improved implement increases the capacity of the farmer, but the lack of up-to-date farm implements does not stand in the way of good work on the farm. The modern farm implement has increased the capacity of the farmer more than it has improved the quality of the work done.

Diversified farming will result in distributing the labor throughout the entire year and so furnish a more uniform amount of work. Diversified farming will to a very great extent eliminate the extreme rush of a few months during the summer. It will result in a busy summer, nevertheless. It will also result in a busy winter, because there will be live stock to feed and take care of. Under a diversified plan the care given

crease the crop yield. There is plant food in the new soil which food has not heretofore been available, but in its raw state that plant food is not easily assimilated by the roots of the growing crop. Deep plowing, therefore, can be carried to the extreme with temporary disastrous results.

If the growing stock has had good pasture and plenty of water during the summer it should now be in fine condition. It is money in the pocket of the owner to maintain this condition during the fall and winter. This can be done by growing and storing plenty of the right kind of feed and by employing good feeding methods. It will be a rare occurrence on the average farm for the cattle to be in as good condition in the dead of winter as they were September 1, but the effort should be made to keep the stock growing and to maintain good flesh. If this is not done from September 1 to May 20, when pasture again gets good, then eight months of the animal's time has been fooled away and the animal has been kept eight months for the four months' growth and gain it is to make next summer. The right principle is to keep the animal growing and if it does not grow it is not making profit and its owner is losing money. Feeding should begin in the fall of the year just so soon as the pastures become too short and dry to maintain the good condition of the animal already obtained.

We have just finished reading a labored discussion as to whether in



CATTLE BARN, KANSAS STATE FAIR GROUNDS, TOPEKA, BUILT OF BRICK AND CONCRETE, AND STALLS 550 HEAD. NO FINER CATTLE BARN IS FOUND IN U. S.

live stock in the fall and winter will enable the farmer to convert the winter time into a kind of labor which can be converted into cash, whereas under crop farming the fall and winter is a period of comparative idleness.

In conversation with a KANSAS FARMER reader recently the editor was asked as to the difference in the value of soy beans and cow peas for plowing under for green manure. Soy bean stubble and roots leave more organic matter in the soil than cow peas. On a sandy soil low in humus, cow peas will generally make more growth than soy beans. In the eastern third of Kansas it is our opinion that cow peas are more valuable for green manure. In the western two-thirds of Kansas soy beans are more valuable than cow peas. In handling for hay there is less loss of leaves in the case of soy beans than with cow peas. Cow peas are better adapted for growing in corn for silage than are soy beans. Soy beans contain more protein than do cow peas and so make a more valuable feed.

While the idea of deeper plowing is taking a considerable hold on the farmers of Kansas, the mistake of turning up too much heretofore undisturbed and new soil must not be made. New soil to the amount of one-half inch is plenty to expose at one plowing. We have known of instances in which the productivity of fields has been much decreased on account of being plowed abruptly deep. The new soil is, as a rule, devoid of bacteria and humus, and no more new soil should be plowed up than will mix thoroughly with the old soil and to such an extent as will not de-

irrigating an inch of water to the acre is too much or whether an inch to eight acres is enough. The conclusion finally reached is that the amount of water necessary to produce a crop by irrigation depends upon the land and upon the man. While Kansas has a large and prosperous irrigated area, we know that the conclusion drawn applies to success in that area and that it is necessary for some irrigators to use twice as much water as others, this being the result of the difference in land and the difference in methods of handling the land. With irrigation—when plenty of water is available—the irrigator can handle his land as he pleases and consequently irrigation is made to fit the peculiarities of each farm and farmer. Not so, however, with the man who depends upon the rainfall and snows. However, some men grow better crops than others, while all have had the same precipitation or rainfall. From this point, the conclusion arrived at in the article on irrigation is the same. The farmer, however, who depends upon precipitation, must study the means by which the best use of the moisture can be obtained, and entering into this are the matters of plowing and other cultivation to make the soil receptive to and enable it to hold the precipitation. Then follows the cultivation required to conserve the moisture in the soil. This cultivation applies not only to the condition maintained in the field while the crop is not growing, but as well while the crop is growing. Consequently in the use of water which falls upon our fields the good or poor use depends upon the ability of the man in conserving and making the moisture available for the growing crop.



# FARM AUTO

For the Farm Auto Owner  
Inquiries and Suggestions Solicited

### Battery Gas Inflammable.

Subscriber D. E. C., Ottawa, Kan., asks if there is danger in handling storage battery. It is by no means safe to bring a naked flame near a cell or battery that is gassing freely. Battery repair shops and charging stations are extremely careful in this respect. Practical experience has demonstrated that battery gas is highly inflammable.

### Dirt in the Carburetor.

Dirt in the carburetor which cannot be accounted for in any other way, may get in through the small hole that sometimes is drilled in the float chamber cover. A small piece of fine wire gauze soldered over this hole will keep out particles of grit large enough to make themselves felt and will at the same time give the desired air vent.

### Indication of Worn Needle Valve.

Answer subscriber, C. T. S., Falun, Kan.: The fact that your carburetor persists in dripping when the throttle is closed, is probably due to the needle valve refusing to set itself, due, possibly, to a grain of grit which may have settled into the seat or the point of the needle may have become worn and does not seat. Be sure that the seat is free from grit, then grind the valve with compound until the valve is in perfect condition.

### Drive With Glasses.

If you wear spectacles in your everyday work, they should be retained when driving the automobile. The news press reports the arrest of a driver in Chicago for failing to wear his glasses. When the driver applied for a license he wore glasses and he said that glasses were necessary for his best sight. In motor driving, safety is an important factor to consider, and the eyes should then be equipped for the protection of both owner and public.

### Bending Copper Tubing.

Subscriber, C. T. B., Ottawa, Kan., asks how copper tubing can be bent without breaking. To prevent breaking and flattening in the curves, it should be heated to a dull red before attempt is made at bending. After heating, allow the tubing to cool before bending. Much copper tubing is made soft enough to take moderate bends successfully. Tubing which does not, is too hard and should be softened by heating. This may be done by passing the tubing slowly through the flame of a gasoline torch or gasoline or gas stove.

### Emergency Tow Devices.

Just to show the resourcefulness of the farmer, this incident is reported: A farmer's Ford automobile went "dead." A neighbor came along and expressed a willingness to tow the machine home. Neither had a rope. A fence post and two small pieces of wire were made to answer the purpose. One end of the post was wired to the auto, the other wired to the lumber wagon, and the auto drawn in. Tire chains make a good emergency tow rope. The two chains may be fastened together, end to end, and used with satisfactory results. If the chains are light, care should be taken to have the strain come equally on both sides.

### Relation of Burners and Reflectors.

The trouble with the head lights of subscriber, C. D. B., Winfield, Kan., is that the reflectors are not designed for the burners in use. We would advise using the same type of burner as was supplied with the car originally. We are told that in the construction of the motor car headlights, the reflectors are designed with reference to the burners to be used in them and owing to certain optical laws which refuse to change, the use of a burner of larger size than that for which a reflector is designed, results in so little improvement in the amount of light projected that a larger burner is not worth while. This rule applies equally to acetylene and to electric lights.

### Lubricating Oil for Motors.

A competent automobile motor repairer says that the use of poor lubricating oil is responsible for more motor troubles than any other one thing. It is his idea that the best oil should be used, and this is oil which has the least

tendency to carbonize and which has the smallest amount of acids. When a good oil has been found, continue its use, and if possible do not mix with other oils. He cited an instance in the case of one owner who in six years had no engine troubles, and this satisfactory condition was attributed to the use of only one kind of good lubricating oil.

### Graphite for Leather-Faced Clutches.

Practically all leather-faced clutches give some trouble from slipping, and which is usually the result of the anxiety of the owner to give the clutch extraordinarily good care, which results in his oiling too frequently and too much. Ordinary machine oil should never be used on leather. Neat's foot is the oil which will keep the leather soft and in good condition. Graphite belt dressing is also satisfactory. A slipping leather clutch results from the use of too much oil or from the use of too little, and in the latter case the leather burns out and the surface becomes sleek. If the leather is kept soft and without a smooth surface, little trouble from slipping should be experienced.

### Fan Speed Deceptive.

Answering subscriber, M. D. S., Humboldt, Kan., be sure that your fan belt has the right tension. Do not run the belt so tight that it has a tendency to bind on the pulleys. Get the right tension and keep the belt treated with dressing. It is impossible to know the effectiveness of a fan by watching it in motion. The fan may rotate at a speed that seems high to the eye and it may be handling much less air than it should, because of the slackness of the belt. When the belt is slack it is apt to slip so much that the fan will gather speed much more slowly than the motor, and on the other hand it will continue to spin after the motor has stopped. The fan should pick up speed with the motor. If it does not, the belt is too loose.

### What May Affect Valve Action.

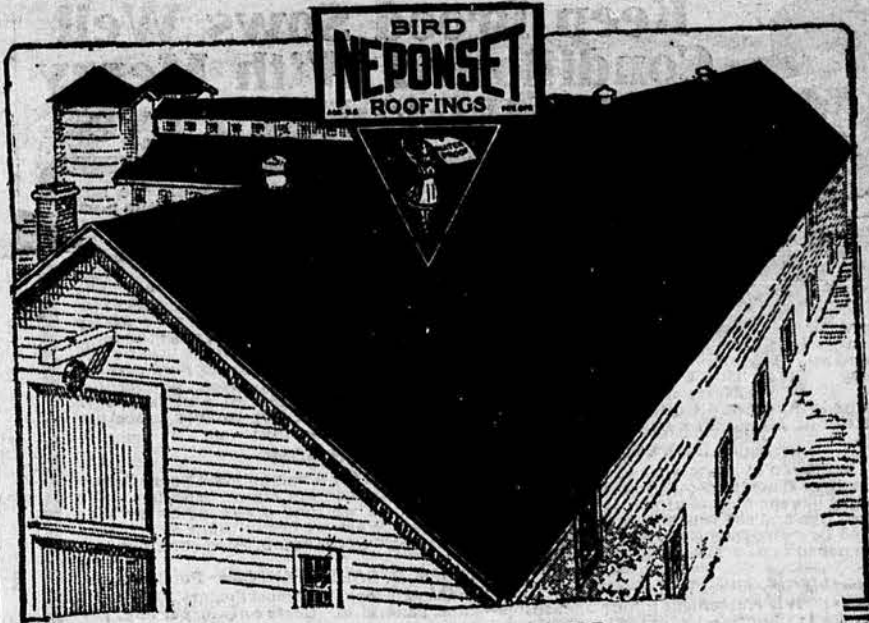
The action of the valves of the automobile motor is, to a great extent, dependent upon the condition of the valve spring. If the spring is too weak, irregular running is the result, but when the springs are of the correct tension the valve action is affected if the base and top of the spring are not perfectly square with the sides. Special attention should be given to the springs to see that they set vertically and so are able to do the work imposed upon them. Freedom of the valve movement is of extreme importance. Accumulations of oil on the stems and guides will affect free movement of the valves. The occasional use of a little kerosene squirted on valve stems and guide will cut the gummy accumulations. Immediately following the use of kerosene, however, a thorough lubrication of machine oil should be given.

### Oil Damage to Tires.

It is well known that the effect of oil on rubber is to cause disintegration, and that auto users in general will not allow the tires to stand in oil while the machine is being housed. Much damage is done casings, however, from oil which oozes through the hubs and drips on to the inside walls of the casing. Little attention is given to the removal of the oil dropping on to the casings from this source. Too much oil in the differential housing results in this leakage, or the methods of holding back the oil may have become ineffective, and in either case the source of the trouble should be remedied. It is not too much trouble to moisten a bit of rag with gasoline and at the close of the day's run wipe off the accumulation of oil from these or other sources. This will cause tires to wear longer.

A high grade, guaranteed durable live rich red barn paint is sold by the Sunflower Paint & Varnish Co. of Ft. Scott, Kansas, direct to the consumer at only 85c per gallon in 5 gal. cans, freight prepaid. This is a paint proposition worth considering by every farmer. This is a reliable company and now is paint season. Try this paint.

The world owes you a living, but you will have to go after it with a hoe or an ax to make it "come across."



Not a Leak in 13 Years

John R. Tupper, now of Florence, Ala., built a lumber shed at Iowa City, 13 years ago, and roofed it with

## NEPONSET PAROID ROOFING

This year he returned to Iowa City and saw the shed. This is what he says about it: "The building is now partly pulled down and the roof has sagged. There are low parts where the water stands after a rain, but the water evaporates without going through the roofing. No attention has been given to the repair of this roofing for 13 years, and still it does not leak."

The economical roofing is the one that you *show* will last. Actual records prove that NEPONSET Paroid Roofing is the real rival of best shingles in long wear. It costs less to buy and less to lay—in addition, gives fire protection.

The U.S. Government has used over a million square feet of NEPONSET Paroid Roofing on the Panama Canal work. Farmers are buying it for their biggest and best barns.

Remember the name, NEPONSET Paroid, the roofing with a record. Make sure that you get it. Sold only by regularly authorized NEPONSET dealers, leading hardware and lumber merchants.

Send for Our FREE Booklet on Roofing

NEPONSET Paroid Roofing makes a handsome red or green roof for houses.

and the name of a NEPONSET dealer near you. He's a good man to know. Send postal today.

F. W. BIRD & SON, 355 Neponset St., E. Walpole, Mass. (Established 1796)

New York Chicago Washington Portland, Ore. San Francisco Canadian Plant: Hamilton, Ont.

### Double Your Crops

**I GUARANTEE THAT THIS PULVERIZER, PACKER AND MULCHER.**  
Three Machines in One—WILL DO IT, LET ME PROVE IT.

Do not compare our machine with any machine that you have ever seen or used. The principle, work and results produced are entirely different. It pulverizes and packs the soil and leaves a loose granular mulch on top to retain the moisture. It will make a more perfect seed bed for fall wheat, alfalfa or any other crops than any machine ever invented.

Send for Free Illustrated Circular, whether you are ready to buy or not. It will pay you well. It quotes price direct to you. It explains the principle and construction, what the machine will do and is adapted for, what it has done for others and much valuable information on how to prepare soil for better results; to get perfect stands of alfalfa with six pounds of seed per acre; to prepare your ground for Fall Wheat and other grains and get a perfect and healthy stand with one-third less seed. SEND FOR IT TODAY.

Made in eight sizes—straight or 3-sections.

**WESTERN LAND ROLLER COMPANY, HASTINGS, NEBRASKA. Box 119**

## Mend Your Own Harness

WITH A KANSAS FARMER SPEEDY STITCHER SEWING AWL.

This Speedy Stitcher Awl is the latest and best hand sewing tool on the market. The regular price is \$1 everywhere. Finished in highly polished rock maple handle and nickel metal parts. Provided with a set of diamond-pointed, grooved needles, including a special needle for tapping shoes. All parts inside the handle. Convenient to carry—always ready to mend a rip or tear. Anyone can operate the Speedy Stitcher. Mends anything made of leather or canvas.

**OUR OFFER.**

We will send one of these Speedy Stitcher Awls to anyone sending us one new subscription to KANSAS FARMER for one year at our regular subscription price of \$1. or will send it free to any present subscriber sending \$1 for a renewal subscription, and 25 cents extra for shipping.

**THE KANSAS FARMER, Topeka, Kansas.**

When writing our advertisers, say you saw the advertisement in KANSAS FARMER. That insures to you the full benefit of the publishers' guarantee. See top of editorial page.





## Keep Brood Sows Well Conditioned With Merry War POWDERED Lye

E. Myers, President, E. Myers Lye Company

Every hog raiser knows the importance of giving special care and attention to the health of his brood sows; for these animals are the pork producing plant of his farm. He knows he cannot expect strong, healthy litters from sickly, scrawny, poorly nourished brood sows. By feeding a small quantity of Merry War POWDERED Lye with the rations, the bowels are kept in normal condition, the blood at an even temperature, and at farrowing time fever will be allayed. The chances for a fine litter of healthy pigs will be greatly increased. From weaning until marketing hogs should be kept on a Merry War POWDERED Lye diet—just a small quantity mixed with the feed. It protects hogs against cholera, destroys hog worms, keeps the hogs keen in appetite, adds weight—in short—increases pork profits. Don't experiment with ordinary lye. It might prove dangerous. Merry War POWDERED Lye is specially prepared and is a safe hog remedy and conditioner. The experiences of thousands of hog raisers prove my claims about Merry War POWDERED Lye. Here is a fair sample:

### It Saved The Life of This Brood Sow

"I want you to know what Merry War Powdered Lye did for a valuable red Duroc Jersey sow of mine. When our sow took sick we did not know what was the matter with her. She looked just like the picture of the skinny hog in your ad., so we used a can of Merry War Powdered Lye and she was able to stand up in three days. When we began using Merry War Powdered Lye we expected to find her dead at any moment. She is now in good condition and I expect her to farrow at least 10 pigs the first of August."

MRS. A. P. SORENSEN, Otter Pond, Ky.

Prove this for yourself. Merry War POWDERED Lye is for sale at most dealers, 10c per can (120 feeds). It is convenient to buy in case lots—4 doz. cans, \$4.80. 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, 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 \$4.80) if your dealers won't supply you.

E. MYERS LYE COMPANY, Dept. 12 St. Louis, Mo.



Which Kind Do You Want?



# LIVE STOCK



Oscar Bloomquist, of Brookville, Kan., recently marketed a shipment of 1,347-pound steers for which he received \$8.30, the highest price he ever received. The merit of this transaction lies in the fact that Mr. Bloomquist raised these cattle on his own farm, and so cleaned up a larger per cent of profits than he could have done had he been obliged to pay some one else to raise them for him. The beef of the future must come from the farm, and such men set the example.

In 14 ounces of water and give one table-spoonful three times a day. Feed no grain for a few days, then mix corn chop and bran and feed one quart three times a day. Let her run on prairie pasture if you can do so, but not when the dew is on. Your cow needs exercise. There is no danger to the milk.

### Some Cattle Figures.

While the census reports may be dry reading, at times it furnishes some very interesting and valuable facts which serve to show where we are at. From these reports is shown the cattle situation in a most forceful manner. In 1850 the number of cattle per thousand of population was 766.6. Ten years later the number was 814.8, and 30 years later, in 1890, the number was 915.8. From that time the number began to run down hill until the present shortage was reached. In 1910 the number was 665.7, a decrease of 250.1 cattle per thousand population in 10 years. Now, as a matter of fact, the number of cattle in continental America increased 16.8 per cent in that same 10 years, but the population increased 21.3 per cent, so, while we actually had 8,736,000 more cattle in 1910 than in 1900, we had 15,978,000 more people, and consequently a smaller number of cattle per thousand of population.

Some of the best silage we have seen was made of alternate loads of field corn, sweet corn, Kafir, cow peas and sorghum. It was believed by the owner that the small amount of sorghum used gave a sweet taste to the silage which added to its palatability and that the cow peas added a protein element which increased its feeding value. Certain it is that his cattle are eating this silage in August while on pasture, and they are in the pink of condition.

In 1850 we had about three-fourths of a steer and a hog and a half to each citizen of these United States, young and old. In 1890 we had over nine-tenths of a steer and the same part of a hog for each man, woman and child, while in 1910 we only had two-thirds of a steer and a smaller part of a hog to each, and since that census was taken things have got rapidly worse. Do you wonder that meat is high in price?

Kansas this year finds herself in the peculiar position of having a world of feed—alfalfa, prairie and tame hay, Kafir, corn and fodder, and no live stock to feed it to. This is one of the most serious conditions that Kansas has ever faced. It means that Kansas farmers will have to buy live stock very rapidly and at high prices or else that all this feed must be put on the market. If the latter thing happens, the prices will go down and the returns from the year's crops will be very small compared with what they would be if fed to live stock. When everybody has large quantities of any commodity to sell the market price is sure to go down.

### Cuts Alfalfa For Feeding.

Out at Athol, in Smith County, Kan., about 250 farmers have maintained a shipping association for about 20 years, thus disproving the frequently made statement that farmers cannot maintain a co-operative organization for any length of time. That this association is successful is proved by its long life and the satisfaction of its members. These farmers hire a manager, and all stock is shipped in the name of the association. This association has always been profitable to its members or it would not exist. Here is an example for other communities. P. A. Livingood, of Athol, Kan., can tell all about it.

On the farm of E. B. Merriam, near Topeka, where one good dairy cow is kept for each acre of land, in addition to a few calves and the work stock necessary to farm the 30 acres, the alfalfa hay is all put through the silage cutter before feeding. On this farm soiling and silos are employed and are necessary for such intensive operations. The farm foreman, Mr. Wood, insists that it pays to cut the alfalfa hay. The cows waste less, the hay is cleaner and they seem to eat it with a greater relish. The gasoline engine which furnishes the power for cutting silage when the silos are being filled and which furnishes other power required, cuts the alfalfa. A load or two of alfalfa hay is cut at one time. Last spring the editor visited the barn of Watson, Woods Brothers & Kelley, at Lincoln, Neb., and all the alfalfa hay fed to the horses in their barns was cut with the silage cutter. These gentlemen claimed that the operation paid well.

### Chronic Indigestion.

About two months ago one of my cows refused to eat. Think she may have been foundered on new alfalfa. Since that time she will eat fairly well for a day or two, after which she refuses to eat for about the same length of time, when she gradually resumes eating again. Her milk flow always falls off when she refuses to eat. Is there any danger of the milk being unhealthy? This cow is kept in confinement, has almost no exercise at present and is fed on oats, bran and a small amount of oil meal and salt, with prairie hay and freshly mown crab grass and alfalfa for roughness. Before the first attack she was fed one gallon, twice a day, of shorts and corn meal, with alfalfa hay.—S. KAUFFMAN, Hutchinson, Kan.

We do not believe it would be profitable to make the purchase of a gasoline engine and cutter for the exclusive use of cutting alfalfa hay on the moderate sized farm, but where the gasoline engine and the silage cutter are already a part of the farm equipment, we believe it would pay to cut the alfalfa hay fed. In large alfalfa feeding operations, cutting would also pay.

Your cow has chronic indigestion. Give about a pound of Epsom salts, and follow this two days later with a half pound. Feed alfalfa hay only, and keep crab grass away. Mix 2 ounces of iodine

"Charity begins at home." Sometimes it ends there.

It is said that money talks, but it is a dead language to most of us.

### To Stockmen and Breeders

Adjoining the magnificent cattle pavilion on the Kansas State Fair grounds, Topeka, Kansas Farmer will maintain headquarters for you, September 9 to 13. These headquarters will be in charge of I. D. Graham, live stock editor of Kansas Farmer, who will extend to breeders, farmers and others interested in live stock, every courtesy and favor possible. Make this tent your meeting-place for your neighbors and brother stockmen. Have mail sent to you in care of Kansas Farmer Headquarters, State Fair Grounds, Topeka, Kansas.

O. W. Devine, Jesse Johnson and W. J. Cody, field representatives of Kansas Farmer, will maintain their headquarters here and will be pleased to meet their friends and acquaintances and extend to them every courtesy.

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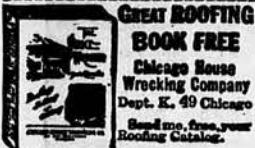
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PERCHEERONS.

William Bell, Wooster, Ohio, Judge. Stallion, Four Years or Over—1, H. G. McMillan & Sons, Rock Rapids, Iowa, Incruste; 2, Truman's Pioneer Stud Farm, Bushnell, Ill.; Interpreter; 3, W. W. Seeley, Stuart, Iowa, French Premier.

CLYDESDALES.

William McKirdy, Napinka, Manitoba, Canada, Judge. Stallion, Four Years or Over—1, Alex Galbraith & Sons, DeKalb, Ill.; Dreadnaught; 2, J. Leitch & Sons, Lafayette, Ill.; Rinaldo; 3, Frank Shekelton, Lawler, Iowa, Westward Ho.

ENGLISH SHIRE.

R. B. Ogilvy, Chicago, Ill., Judge. Stallion, Four Years or Over—1, Truman's Pioneer Stud Farm, Bushnell, Ill.; Dunsmore Wellington Boy III; 2, Truman's, Ashbeach Excelsior; 3, Truman's, Modlar Duke.

BELGIANS.

Alex Galbraith, DeKalb, Ill., Judge. Stallion, Four Years or Over—1, Henry Lefebure, Fairfax, Iowa; Jules Remi; 2, Charles Irvine, Ankeny, Iowa; Robt. De Rune; 3, Truman's Pioneer Stud Farm, Bushnell, Ill.

SHORTHORNS.

A. J. Ryden, Abingdon, Ill., Judge. Bull, Three Years or Over—1, White & Smith, St. Cloud, Minn.; Ringmaster; 2, Bellows Bros., Maryville, Mo.; Diamond Goods; 3, E. E. Watts & Son, Miles, Iowa, Scotch von.

ka Farms, Waukesha, Wis. Sultan Stamp; 2, Rookwood Farm, Ames, Iowa, Count Avon; 3, H. H. Powell & Son, Linn Grove, Iowa, King Cumberland 3d.

Senior Yearling Bull—1, Anoka Farms, Gloster Fashion; 2, G. H. Burge, Mt. Vernon, Iowa, Silver Sultan; 3, H. G. McMillan & Sons, Gay Lord.

Junior Yearling Bull—1, H. G. McMillan & Sons, Bandmaster; 2, R. E. Watts & Son, Red Marshall 2d; 3, Rapp Bros., Village Pride.

Senior Bull Calf—1, Anoka Farms, Gloster Line; 2, H. H. Powell & Son, Cumberland's Pride; 3, Anoka Farms, Good Fashions.

Junior Bull Calf—1, C. A. Saunders, Manilla, Iowa, Village Cumberland; 2, W. E. Graham, Prairie City, Iowa, Scotch Goods; 3, Anoka Farms, Clipper Stamp.

Cow, Three Years or Over—1, George J. Sayer, McHenry, Ill., Fair Start 2d; 2, J. H. Miller, Peru, Ind., New Year's Delight; 3, H. G. McMillan & Sons, Columbia 10th.

Heifer, Two Years and Under Three—1, George J. Sayer, Mary Ann of Oakland 2d; 2, George J. Sayer, Queen Mildred; 3, Anoka Farms, Sultan's Acotie.

Senior Yearling Heifer—1, George J. Sayer, Mildred of Oakland; 2, F. H. Ehlers, Orange Choice; 3, H. G. McMillan & Sons, Mayflower IV.

Junior Yearling Heifer—1, Geo. J. Sayer, 78th Dutchess of Gloster; 2, C. A. Saunders, Touch Me Not; 3, D. Teitjen, Her Excellence.

Junior Heifer Calf—1, C. A. Saunders, Bonnie Cumberland 8th; 2, D. Teitjen, Hill Krest Lassie; 3, G. H. Burge, Victoria of Wayside.

HEREFORDS. Frank Van Natta, Lafayette, Ind., Judge. Bull, Three Years or Over—1, J. P. Cudahy, Belton, Mo., Fairfax 16th; 2, Cyrus A. Tow, Norway, Iowa, Standard; 3, J. H. and John W. Van Natta, Lafayette, Ind., Tippecanoe.

Bulls, Two Years and Under Three—1, O. Harris, Harris, Mo., Prince Perfection; 2, J. P. Cudahy, Corrector Fairfax; 3, J. P. Cudahy, Scottish Lassie.

Senior Yearling Bull—1, J. H. and John W. Van Natta, Graceful Lad 3d; 2, Robert H. Hazlett, Bonnie Lad 26th; 3, O. S. Gibbons & Son, Carno.

Junior Yearling Bull—1, O. Harris, Prize Winner; 2, J. P. Cudahy, Beau Fairfax; 3, J. H. and John W. Van Natta, Diamond Donald.

Senior Bull Calf—1, O. Harris, Harris, Mo., Repeater 7th; 2, Cyrus A. Tow, Dismora 3d; 3, J. H. and John W. Van Natta, Tippecanoe 7th.

Junior Bull Calf—1, Warren T. McCray, Duke Real; 2, Warren T. McCray, Consumption; 3, O. Harris, Gay Lad 13th.

Cow, Three Years or Over—1, J. P. Cudahy, Scottish Lassie; 2, J. H. and John W. Van Natta, Prime Lady 2d; 3, Warren T. McCray, Gay Lass 5th.

Heifer, Two Years and Under Three—1, J. P. Cudahy, Perfection Lass; 2, Cyrus A. Tow, Disturber's Lassie; 3, J. H. and John W. Van Natta, Amy Folly.

Senior Yearling Heifer—1, Warren T. McCray, Donald Lass 9th; 2, O. Harris, Princess Repeater; 3, O. Harris, Harris' Princess 215th.

Senior Heifer Calf—1, J. P. Cudahy, Pearl Donald; 2, O. Harris, Miss Gay Lad 7th; 3, J. H. and John W. Van Natta, Finella Canoe.

Junior Heifer Calf—1, O. Harris, Miss Repeater 11th; 2, Warren T. McCray, Gertrude Fairfax; 3, J. P. Cudahy, Anita Donald.

Senior Champion Bull—J. P. Cudahy, Fairfax 16th.

Junior Champion Bull—O. Harris, Repeater 7th.

Senior Champion Cow—J. P. Cudahy, Scottish Lassie.

Junior Champion Cow—O. Harris, Miss Repeater 11th.

Grand Champion Cow—J. P. Cudahy, Scottish Lassie.

ABERDEEN-ANGUS. C. J. Martin, Jefferson, Iowa, Judge. Bull, Three Years or Over—1, A. C. Binnie, Alta, Iowa, Kloman; 2, W. A. McHenry, Denison, Iowa, Erwin C.; 3, W. J. Miller, Newton, Iowa, Ever Black.

Bull, Two Years and Under Three—1, A. C. Binnie, Black Fridge 2d; 2, W. J. Miller, Peer Fan of Alta.

Senior Yearling Bull—1, W. A. McHenry, Proud Thick Set; 2, W. J. Miller, Rosegay 6th.

Junior Yearling Bull—1, R. M. Anderson & Son, Joubert; 2, Charles Escher & Son, Botna, Iowa, Prince Felzer; 3, R. M. Anderson & Son, Enus 3d.

Senior Bull Calf—1, Charles Escher & Son, Bromo; 2, R. M. Anderson & Son, Provest; 3, W. A. McHenry, Quality Prince 2d.

Junior Bull Calf—1, A. C. Binnie, Era-man; 2, W. J. Miller, Everlex.

Cow, Three Years or Over—1, W. J. Miller, Barbara Woodson; 2, A. C. Binnie, Ellen of Alta; 3, W. A. McHenry, Barbara McHenry 24th.

Junior Champion Bull—W. A. McHenry, Proud Thick Set.

Senior Champion Cow—W. J. Miller, Barbara Woodson.

Grand Champion Cow—W. J. Miller, Barbara Woodson.

Heifer, Two Years and Under Three—1, W. A. McHenry, Blackcap McHenry 84th; 2, W. A. McHenry, Blackcap McHenry 88th; 3, A. C. Binnie, Abess of Alta.

JERSEYS. W. L. Hunter, Lincoln, Neb., Judge. Bull, Three Years or Over—1, Smith & Roberts, Beatrice, Neb.; Stockwell's Fern Lad; 2, E. Bruins, Fairwater, Wis.; Beau-vol's King; 3, G. A. Chaffee, Minneapolis, Minn., on Combination Golden Prince.

Bull, Two Years and Under Three—1, E. Bruins, Ibsen's Glory; 2, Nelle Fabyan, Geneva, Ill.; Ocean Blue; 3, H. C. Young, Duke's Raleigh.

encls's Prince; 5, E. Bruins, Raleigh Ibsen Cow, Four Years or Over—1, Smith & Roberts, Warder's Proud Beauty; 2, E. Bruins, Couline; 3, Smith & Roberts, Golden Maid's Princess Lady.

Heifer, Two Years and Under Three—1, Smith & Roberts, Belmont's Silverline; 2, E. Bruins, Fontaine Clearview Beauty; 3, Cotta & Williams, Jessie Plymouth.

Senior Yearling Heifer—1, Smith & Roberts, Oxford's Lady Wonder; 2, Smith & Roberts, Oxford's Lady Sultan; 3, H. C. Young, Shylock's Golden Fern.

Exhibitor's Herd—1, Smith & Roberts; 2, E. Bruins; 3, H. C. Young. Breeder's Young Herd—1, Smith & Roberts; 2, G. L. Chaffee; 3, E. Bruins. Calf Herd—1, E. Bruins; 2 and 4, Smith & Roberts; 3, H. C. Young; 5, G. A. Chaffee. Get or Sire—1, E. Bruins; 2 and 3, Smith & Roberts; 4, H. C. Young; 5, E. Bruins.

HOLSTEINS. Dr. M. E. Wood, Mankato, Minn., Judge. Bull, Three Years or Over—1, Iowa Farms, Davenport, Iowa, Rockdale Perfection DeKol; 2, Frank White, Hampton, Iowa, Groveland Inka Hijaard; 3, Frank White, Cornucopia Pontiac Johanna Lad.

Bull, Two Years and Under Three—1, C. (Continued on page 15.)



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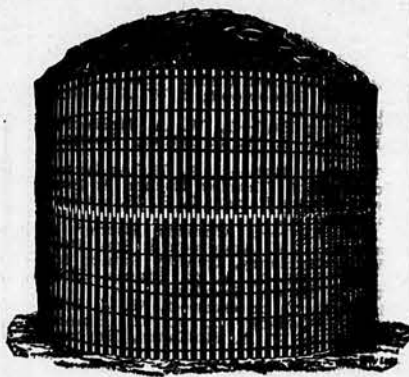
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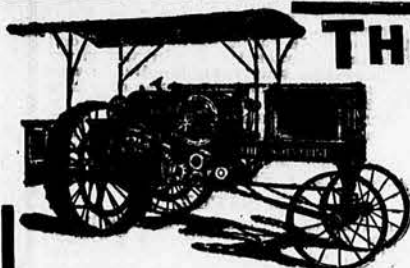
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# DAIRY



Practical, not fancy dairying, is what we talk in these columns. All there is to practical dairying—which is money-making dairying—is a cow which will supply a good quantity of milk, with the feed to produce such milk, and reasonable care.

The president of the Vermont cow testing association remarked recently that his association was "as much a man test as it is a cow test." His actual experience was that a herd of cows kept on the same farm for several years increased their yearly average of butter fat from 175 pounds to 316 pounds a year by the change of owners.

"Handsome is as handsome does." The farm dairy cow is not much for looks from the beef man's standpoint. She is beautiful, however, regardless of her appearance, if she fills the milk pail. A full milk pail has a cash value and is realized twice per day. A smooth frame—made so by feed converted into meat—can be cashed only once in the life of the animal.

Keep in mind that a cow must have feed enough to maintain her in good physical condition and the surplus over and above that so required can be made into milk, yielding butter fat for sale. The essential to dairy success is to keep a cow which maintains her body in a vigorous condition but without surplus fat, thereby supporting herself economically and having a large surplusage of feed with which to fill the pail.

The mule does not cut much of a figure in poetry or sculpture or at the horse show, but when it comes to furnishing the power required to draw the plow, the mule is "there with the goods."

As a rule, the old cow that fills the milk pail night and morning, does not cut much of a figure at the fat stock show, but she is a much greater factor in the economical feeding of our population and in the prosperity of her owner, than the bullock. Each, however, is good in its place.

The organizations representing the different breeds of dairy cattle will have a "hot time" at the Panama Exposition. The dairy breeds of the United States have made great progress in the development of large producing animals since the Chicago and St. Louis world's fairs. The meeting of the dairy breeds at Panama will eclipse all other meetings. It will be well worth while for the man who is interested in dairy breeding to watch the Panama show and results.

Last week KANSAS FARMER made mention of the raising of \$200,000 by the Commercial Club of Colorado Springs to be used as a revolving fund in loaning money to farmers of eastern Colorado for the purchase of dairy cows. We now note that the citizens of Caldwell, Idaho, have made a similar arrangement. Each of the institutions named will buy good cows and sell these to farmers at cost, same to be paid for by a percentage of the cream check.

The cream separator is a high speed machine, the bowls running from 7,000 to 12,000 revolutions per minute. Necessarily there must be some high speed gears to produce such speed in the bowl. The parts should be kept well oiled, thoroughly cleaned and the separator set on a firm foundation. Under these conditions the separator will do the best work. It is easy enough to lose the butter fat from one cow by improper operation of the separator, and so it is well worth while to keep the machine in perfect condition.

If the dairy herd is not doing what you think it should, in milk production, look first to the feeding. Be sure that it is right. If the cows are getting plenty of the right kind of feed and they are not yielding milk in profitable quantities, then look to the cow. The Babcock test and the scales furnish the only means by which you can know the worth of the individual cow. The chances are that you will find some cows are pro-

ducing two times as much butter fat per month as others and that in milking the poor cows you are practically fooling your time away. The poor cows replaced by good ones will change the dairy from a losing and unsatisfactory condition to a profitable and gratifying condition.

The dairy farmer who sells whole milk because his market demands it, is, as a rule, the man who most appreciates the value of the skim milk. This is another instance of a man appreciating most the thing he does not have. The Kansas farmer who has skim milk fresh from the separator each morning and evening, is the man who least appreciates its value. Under any kind of haphazard feeding methods skim milk is worth 15 to 20 cents per hundred, while under reasonably careful feeding methods it is worth 30 to 40 cents. The skim milk is worth taking care of, and it should be fed while it is warm and sweet. There is no good reason why it should be permitted to stand around in pails and cans from one separation to another before it is fed. It will be fed at some time, and the quicker it is fed the better.

We do not know that any harm comes from the pernicious sucking of ears by calves drinking skim milk. We are satisfied, however, that the common practice results in no good, and the practice is disgusting in the extreme. If the calves are tied at feeding time far enough apart, this can be prevented. The use of calf stanchions will also prevent this habit. The confining of the calf in some manner or other while drinking will save the waste of considerable skim milk and will make feeding enough more easy and satisfactory to justify the expense of arranging for tying and the time consumed in tying. This will also permit the feeding of calves individually, giving the calf that needs milk most, opportunity to drink without interference. If the calves are fed grain, tying or placing in stanchions will give each calf a chance to get his share, and the small calves are not robbed by the larger ones. As a rule, it pays to do things methodically and in the best manner. In the feeding of skim milk to calves there is no exception to this rule.

It is a safe prediction that within a few years the summer silo will come into use on those Kansas farms where the pasture is not sufficient to well feed the dairy herd or the herd of stock cattle. Silage put up in the fall when the harvest is on, can be so conveniently and cheaply provided and so economically stored that the feeding of live stock in summer will become thoroughly practical. Silage from the summer silo will be fed in bunks specially constructed therefor, so that the feeding of 15 to 25 head of cattle night and morning will become an incident only in farm operations. When this condition prevails, milk, growth and meat will be produced on Kansas farms as it has not been produced since the days of open range. The summer silo is a thing to which we are coming. It must come in just the proportion that we are inclined to the production of the products of live stock and the increase in live stock products will follow the decrease in the acreage farmed to grain crops for market.

Not long since on a farm where about 45 cows are milked, we observed the poorest bunch of calves we have seen in many a day. There were 25 or 30 in the bunch, ranging in age from 2 to 8 months. These calves were not much heavier than a well fed 6-weeks calf should be, and each calf was the ideal cat-hammed and pot-bellied creature which we used to see and hear so much about 15 years ago, when we first began feeding skim milk in Kansas and did not know much about raising calves by hand. On the particular farm whole milk was sold, although enough milk was skimmed to give each half a gallon at a feed. The calves were running on good tame grass pasture, still they were in poor condition. The owner could well afford to feed these calves grain twice a



day. Two to three pints of corn or Kafir chop, would have supplied the deficiency in the calves' feed. These calves were getting absolutely nothing to supply the body with the fat required, and this was the weakness in the feeding. On this bunch of 25 or 30 calves the owner will lose at least from \$5 to \$8 per head if he sells at 8 to 10 months old. Skim milk and grass do not supply the feed required for the young calf, and some grain should be fed night and morning until 3 months old.

Without a fair proportion of feed fairly rich in nitrogenous matter, it is impossible for the cow to produce much milk. Nitrogen measures the price asked for all live stock feeds. It is the abundance of nitrogenous matter in alfalfa hay, clover hay, pea hay, pea meal, bran, cottonseed meal, etc., that makes a ton of these feeds sell for more money than a ton of prairie hay, corn fodder, timothy hay, corn chop, Kafir chop, etc. In the case of the dairy cow, it is only from the nitrogenous matter that the casein or cheesy part of milk can be made and the amount of milk produced is measured by the quantity of feed the cow gets and from which it is possible for her to make the cheesy part of milk. From the above will be seen the reason and the necessity for using feeds rich in nitrogenous matter to obtain a good milk flow. The individuality of the cow—her ability to convert feed into milk—is the other essential factor in profitable milk production.

Throughout Kansas thousands of cows will be fresh between September 1 and December 1. These cows will be depended upon to furnish the milk supply during the fall, winter and spring. In localities where pasture has been good, cows will be in good flesh at calving time in the fall. If pastures are not good before calving, it is well worth while to supply the cow with some green feed—green corn, green Kafir or cane. A liberal feeding night and morning is sufficient and this practice can be continued with profit so long as there is green feed for use. As soon as the green feed is gone then the winter system of feeding should at once prevail. The point is that the fall-fresh cow should be made to give her full flow of milk at freshening time, and that flow should be maintained by good feeding and handling throughout the fall and the winter. If the cow comes fresh in the fall on short pasture and has scant feed for a month or six weeks before winter feeding, the milk flow will shrink, and very rarely can a full flow be restored. It is much easier to have the cow in condition for a full flow of milk at calving time and maintain that flow than it is to build up the flow after calving or after a period of short feeding.

**Economy of Production Important.**

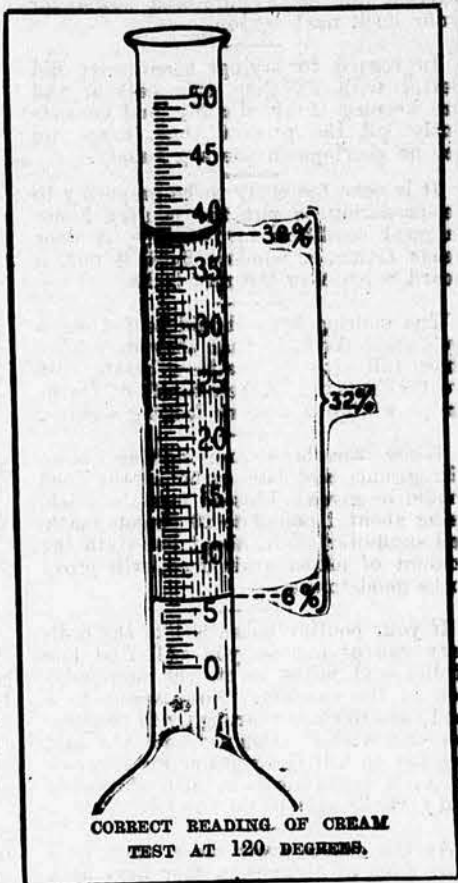
The primary factor in breeding, for either the dairy or for block, so far as the commercial side of the business is concerned, is economy of production. The best dairy cow is that animal which produces the largest quantity of dairy products at the lowest cost. The best beef animal is that which produces the most and best beef at the lowest cost per pound. The statement was recently made to the effect that economy of production in the dairy cow was not a primary factor, the individual making the statement saying that he could take a goat, fed on tin cans and pesters, and beat all of our specially bred dairy cows, the theory being that the goat would produce a pound of fat for less money than the dairy cows. The lame point in the argument is that it would require the goat a week or more to produce a pound of milk fat, and eight or ten goats to produce a pound in one day. The fact is that people are not looking for goats' milk, or butter made from goats' milk. Economical production is the paramount result striven for everywhere in the breeding and feeding of live stock, as well as in manufacturing enterprises. Economical production, as a rule, follows large output, and the breed of beef or dairy cattle yielding large output—either in the form of milk, or meat on the back—is the breed and the individual to be sought, and the goat is not in competition with either.

**Reading Cream Tests.**

The proper temperature at which cream tests should be read when the Babcock method of testing is used, and which temperature is now recognized throughout the dairy world as correct, was determined by E. H. Webster, now director of the Kansas State Agricultural

College, and C. E. Gray, who at the time was chemist for the Continental Creamery Company, and later an employe of the dairy division of the Federal department of agriculture. This temperature determination was made some ten years ago and the results have been checked and proven by the United States Department of Agriculture.

The contents of the cream bottle should be 130 degrees Fahrenheit at the time of the reading. Kansas cream receiving stations obtain this temperature by a hot water bath in which the test



bottles are placed after being removed from the tester.

In the accompanying sketch the total height of the fat column is from 6 per cent to 39 per cent. The meniscus, or curved portion, extends from 37½ per cent to 39 per cent, thus occupying a space of 1½ per cent. Four-fifths of 1½ is 1.1-5, which, deducted from 39 per cent, is 37.4-5, or 37.8. Adding .2 of a per cent of 37.8 gives 38 per cent, the proper height for reading the test. The lower line of the fat column is at the 6 per cent mark, thus giving a test of 32 per cent. For all practical purposes the test may be read, with the bottles now in use, from the bottom of the fat to the centers of the meniscus as shown by the dotted lines in the illustration.

**The Man and the Cow.**

A contribution to a dairy paper says: "A man cannot look at a cow and tell what kind of a cow he has, nor can a cow look at a man and tell what kind of a man she has, but if they will both get down to work together, you can take my word for it that the cow will find out what kind of a man she has, long before he will find out what kind of a cow he has." There is much truth in this statement. Our cows are not so poor as our feeders and our care-takers. We place too much blame on the cow. We find fault with the cow, when the fault is our own. The man who will make dairying profitable will place himself on very intimate terms with the cow, and not only find out what her capabilities are along lines of production, but will find out also how much she is able to eat, what her peculiarities are and how she should be best handled to obtain the results expected.

**Hired Help Situation in East.**

A New York exchange says that the farmers of that state are turning away experienced hired hands and that these men, unable to find work in the country, invariably find their way to the city as laborers. It is unfortunate that this help does not find its way to the west, where it can be employed and appreciated. There is no question but that these men working on the farms of the west could do much better for themselves than they can do in the city, and they would supply a longfelt want among western farmers. The situation is certainly paradoxical. Not long since we made the statement that a Kansas dairyman who made a visit to Wisconsin reported farm help there as plentiful, and brought several of these Wisconsin men to Kansas to help him operate his dairy.

**Source of Milk Fat.**

Eckles, of Missouri, has been making investigations concerning the effect of feed on the composition of cows' milk and has arrived at the conclusion that when a cow is losing in body fat the tendency is for her to give richer milk than under normal conditions, and that when she is gaining in flesh the tendency is to give milk poorer in fat than under normal conditions. This has also been demonstrated to be true in some of the many tests that have been made in recent years, and is of considerable practical importance. In other words, if a cow is fed heavily for a short period prior to calving she will yield more fat than she would under normal conditions, and a test of that kind would be no criterion as to the real value of the cow, especially not with reference to the percentage of fat in her milk. It is quite possible to increase the fat content of the milk of a cow giving 3.2 per cent under normal conditions to 4 per cent under what might be termed forced conditions.

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The difference between what it costs to bale hay and the increase you get in price per ton, gives you a bigger margin of profit on your work than anything else you do on a farm. You can bale easily from 8 to 16 tons a day and under certain conditions, several tons more. Baled hay can be made as much a big cash crop to you as your wheat, corn, or oats. All you need is the right kind of hay press. There is money in owning a

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I H C motor presses consist of a bale chamber and an I H C engine mounted on substantial trucks. The bale chamber of the motor press corresponds in size to the bale chamber of the horse press—14x18 inches, 16x18 inches, and 17x22 inches. No time is lost in setting up the machine. It can be moved easily from place to place, backed to the stack or barn, and started to work at once. The engine does not need a man to watch it and there is no danger from sparks. When not baling hay, the engine can be detached. Two extra wheels, an axle, and a belt pulley are furnished, so that with a little adjusting, you have a regular portable I H C engine ready for business 365 days each year. You can operate a small thrasher or corn shredder, saw wood, shell corn, grind feed, pump water, generate electricity, or run a cream separator. You thus purchase two useful machines in one. There is profit in the hay press and unlimited work in the engine.

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# POULTRY



While attending the fairs be on the lookout for some pure-bred fowls for your flock next season.

In regard to laying, hens never did better with us than this season, and are keeping it up steadily and consistently till the present time, hence we see no shortage in the egg supply.

It is none too early to be preparing to be preparing to put the poultry house in good condition for winter. A door needs fixing, a window light is out, a board is loose, or the roof leaks.

The molting hens should be fed extra well these days, so that they may have their full crop of feathers before cold weather sets in. A hen bereft of feathers in winter is a sorry looking sight.

While the hens are molting, more nitrogenous and less carbonaceous food should be given. Linseed meal in mash, using about 1 pound to 20 pounds mash, and sunflower seeds, about one-sixth the amount of mixed grain feed, will prove to be good tonics.

If your poultry house is like the ordinary run of houses, you will find lots of lice and mites in it, the accumulation of the summer. Now would be a good time to clean thoroughly in preparation for winter. Don't expect the cold weather to kill the vermin, for it won't do it; it takes kerosene and whitewash and carbolic acid to do the job.

As the chicks grow older, they need more room at night than they have been used to. They have overgrown the small coops in which they were raised, and ought to be removed to large quarters, and while you are removing them, it would be best to take them to their permanent winter quarters, then you will not be trouble with still another moving when cold weather comes.

The importance for the early separation of the sexes in the growing broods, admitted so freely, is not practiced as it should be. Hardly a farm home can be seen but the chicks are all running together, eating out of the common trough, and being fed with the thought of putting the cockerels in the best shape for market. The result can only be injury to the pullets. Looking over into a large yard where nearly 300 chicks were running together, we could but notice how generous was the feeding by the owner and how plump the pullets were. Strange it is that we cannot realize that the currents are set at an early age, and habits once formed are not easily broken. The dollars in early winter come from the pullets having the widest range today, not those running with the cockerels. Shut up most of the cockerels, give them fattening food for two or three weeks, and sell to the butcher, or use on your own table as fries or roasts. The surplus cockerels are not only wasting good feed, but are a decided nuisance on the premises, to the detriment of the growing pullets.

A subscriber, who desires to start a flock of pure-bred poultry next spring, wishes to know which is the better plan, to buy young, growing chicks at the present time, or wait till spring for mature stock? If he can buy chicks at reasonable prices we would advise him to buy now. Of course, he takes risks in buying growing stock over mature ones, but the difference in price will justify him in taking risks. A great many breeders of poultry do not like to sell their growing stock, for the good reason that they do not know exactly what they are selling while the chicks are undeveloped. They may be selling for one dollar a young cockerel that might develop into a twenty-five dollar bird. Maturity alone can decide this question. It is not always the large, early hatched chicks that develop into prize winners. Sometimes the ones that are much smaller take a sudden start and surpass the others. Oftentimes a breeder has more chicks than he wants to take care of during the winter and will sell some of them at reasonable prices. If the purchaser can find such a man, the chances are all in his favor in

buying the chicks at the present time and taking the risk of them developing into fine birds. The chances are that he will take extra good care of them and that they will turn out to be something extra fine. The purchaser of pure-bred poultry has a good chance at the present time to buy old stock from the poultry breeders at reduced rates, for he needs the room for his growing stock. Whether he purchases young or old stock it is much better to buy now than wait till spring, for when spring comes the chances are that the stock of poultry will be much smaller than it is now and the prices much higher. Besides, the breeder will then be in his very busiest season and cannot give as much attention to the purchaser's wants as he can in the dull season. Another advantage in buying now rather than in the spring: You will have had your chickens all through the winter and they will be at the right place in the spring, just when you want them for breeding purposes. So buy now, from a reliable breeder, and you will be all right.

### Milk-fed Chickens.

A subscriber, McLouth, Kan., writes: "I hear a great deal these days about milk-fed chickens, and my pocketbook has been made to bleed a little more freely in order to purchase them. Is there anything to this cry of 'milk-fed chickens,' over ordinary fed chickens, or is it simply another form of graft?"

Milk-fed chickens are a reality and a commercial commodity, and have been for a great many years. The real article can be purchased from reliable parties in most large cities, for all the large establishments engaged in fattening poultry use milk in the process. It would be well to beware of those persons who claim that milk-fed chickens are something new and who ask an exorbitant price for them, for the milk portion of the ration is the cheapest part of it. That a well-fattened fowl is better and worth more money than a lean and scrawny one, goes without saying, but when a person makes you pay for a phrase, "milk-fed chickens," not knowing whether they have been fed on milk or on swill, it would be well to inquire into their reliability before purchasing anything from them. According to information collected by the Department of Agriculture, the method used by most of the large establishments in fattening poultry in this country is to feed the chickens in crates from troughs. From six to ten birds are placed in each division of the battery, or feeding coop, depending on the size of the birds and the ideas of the feeder. Two or three chickens do better in a division together than when only one bird is placed in each compartment, and the cost of equipment and labor per bird varies inversely with the number of birds in each division. Another method which is used to a considerable extent on a small scale is pen fattening. This method is adapted for use on the farm, where the farmer does not care to go to the trouble of crate fattening, or where the price received for well-fed birds does not warrant the extra labor and feed cost of the crate method. Most milk-fed chickens are fed for fourteen days, but results indicate that a more profitable gain can be secured in a shorter feeding period, provided that the same price per pound can be obtained for the finished product. Practically all of the special feeding in this country involves the use of milk, thus producing milk-fed chickens. Milk, while the least expensive, seems to be the most essential constituent of the ration, and when a feeder can not get milk in some form, he generally does not attempt to fatten poultry commercially. Fresh buttermilk, condensed buttermilk, and skim milk are preferred in this relative order. The feed is mixed to the consistency of thick cream, or so that it will drip from the tip of a wooden spoon. Rations of 50 per cent corn meal, 40 per cent low grade wheat flour or oat flour and 6 per cent tallow, by weight, give very good results, producing gains which cost from 6.45 to 7.74 cents per pound. Low grade wheat flour is a more economical feed than oat flour at the present prices of grain.



# Live Stock Awards, Iowa State Fair

Continued From Page Eleven

2. Iowana Farms, Sir Korndyke Hengerveld  
A. Nelson, Waverly, Iowa, Hengerveld King;  
DeKol 28.  
Bull, One Year and Under Two—1, C. A.  
Nelson, Model Skyark; 2. Iowana Farms,  
Flossmore Canary Vale De Kol; 3. Frank  
White, Groveland Sir Pontiac Inka.  
White, Bull Calf—1, Frank White, Grove-  
land Aaggie De Kol; 2, C. B. McCanna, Jes-  
land Villetta Bergama; 3. Iowana Farms,  
Inka Colantha Sir Clyde.  
Junior Bull Calf—1, C. B. McCanna, Jes-  
land Gem Inka Son 8th; 2, C. A. Nelson, Wav-  
erly, Iowa; 3. Iowana Farms, Frysdale Sir  
Ormsby.  
Cow, Four Years or Over—1, Iowana  
Farms, Lady Ocean Queen DeKol; 2. Frank  
White, Netherland Tweet Pieterje; 3. Frank  
White, Pauline Witkop Netherlands.  
Cow, Three Years and Under Four—1, C.  
A. Nelson, Choice Artis Jewell of Cedar-  
side; 2. Iowana Farms, Lady Wayne Sar-  
castic; 3. Frank White, Groveland Idske  
Pontiac.  
Heifer, Two Years and Under Three—1,  
Frank White, Groveland Korndyke Cornu-  
copia; 2. C. A. Nelson, Colantha Johanna  
of Cedar side; 3. Iowana Farms, Miss Korn-  
dyke Daisy Mercedes.  
Netherland De Kol Pieterje; 5. Frank White,  
Groveland Pontiac Hijaard.  
Senior Yearling Heifer—1, Iowana Farms,  
Foekje De Kol Hengerveld; 2, C. A. Nelson,  
Jewell Abbekerk 3d; 3. Iowana Farms, Can-  
ary Princess.  
Junior Yearling Heifer—1, Frank White,  
Groveland De Kol Inka; 2. Frank White,  
Beauty De Kol De Vries 2d; 3. Iowana  
Farms, Miss Fyvie Plebe.  
Senior Heifer Calf—1, Frank White,  
Groveland Inka Netherland; 2. Iowana  
Farms, Iowana Colantha Vieman De Kol;  
3. Iowana Farms, Iowana Colantha Aaggie  
Burke.  
Junior Heifer Calf—1, Frank White, De  
Kol Minke Johanna; 2. Iowana Farms, Fry-  
sian Canary; 3. Frank White, Groveland  
Hijaard Korndyke.  
Senior Champion Cow—C. A. Nelson, Wav-  
erly, Choice Artis Jewell of Cedar side.  
Junior Champion Bull—C. A. Nelson,  
Model Skyark.  
Senior Champion Bull—Iowana Farms,  
Rockdale Perfection DeKol.  
Junior Champion Heifer—Iowana Farms,  
Foekje DeKol Hengerveld.  
Grand Champion Bull—Iowana Farms,  
Rockdale Perfection De Kol.

**GUERNSEYS.** Judge.  
Bull, Three Years or Over—1, Wilcox &  
Stubbs, Des Moines, Iowa, Holden IV.  
Bull, Two Years and Under Three—1, Wil-  
cox & Stubbs, Bob Rilma; 2. John H. Wil-  
liams, Waukesha, Wis., Park Caesar.  
Bull, One Year Old and Under Two—1,  
John H. Williams, Raymond of Sarnia; 2.  
Wilcox & Stubbs, Manoa's May Rose of  
Iowa; 3. Wilcox & Stubbs, Gallant Knight  
of Iowa.  
Senior Bull Calf—1, Wilcox & Stubbs,  
Queen's Prince; 2. John H. Williams, Park's  
Flossie King; 3. Cotta & Williams, Gales-  
burg, Ill., Katama Canto.  
Junior Bull Calf—1, Wilcox & Stubbs Co.,  
Alina's Holden; 2. Wilcox & Stubbs Co.,  
Bob Rilma II.  
Cow, Four Years or Over—1, Wilcox &  
Stubbs Co., Alina of Lawton 2d; 2. John H.  
Williams, Eagle Quill 2d; 3. Wilcox &  
Stubbs Co., Patricia of Sarnia.  
Cow, Three Years and Under Four—1,  
Wilcox & Stubbs Co., Princess Euphemia.  
Heifer, Two Years and Under Three—1,  
Wilcox & Stubbs Co., Daisy Bell of Sarnia;  
2. Wilcox & Stubbs Co., Bell Daisy of Sar-  
nia; 3. John H. Williams, Geneva Walter  
Maple.  
Senior Yearling Heifer—1, John H. Wil-  
liams, Park's Princess Rhea; 2. Wilcox &  
Stubbs Co., Sweet Lassie 2d; 3. Wilcox &  
Stubbs Co., Short of the Grandes Capelles.  
Junior Yearling Heifer—1, John H. Wil-  
liams, Rhea's Park May; 2. Wilcox & Stubbs  
Co., Manoa's May Rose of Iowa.  
Senior Heifer Calf—1, John H. Williams,  
Park's Isabelle 2d; 2. Wilcox & Stubbs Co.,  
Daisy Bell of Fairview; 3. Wilcox & Stubbs  
Co., Bell Daisy of Fairview.  
Junior Heifer Calf—1, Wilcox & Stubbs,  
Calla's Rilma; 2. John H. Williams, Park's  
Elizabeth.  
Senior Champion Bull—Wilcox & Stubbs,  
Bob Rilma 16141.  
Junior Champion Bull—John H. Williams,  
Raymond of Sarnia 19172.  
Senior Champion Cow—Wilcox & Stubbs,  
Alina of Lawton 2d 28158.  
Junior Champion Heifer—John H. Wil-  
liams, Rhea's Park May 26596.  
Grand Champion Bull—Wilcox & Stubbs,  
Bob Rilma.  
Grand Champion Cow—Wilcox & Stubbs,  
Alina of Lawton 2d.  
Exhibitor's Herd—1, Wilcox & Stubbs Co.;  
2, John H. Williams, Waukesha, Wis.  
Breeder's Young Herd—1, John H. Wil-  
liams; 2, Wilcox & Stubbs Co.  
Calf Herd—1, John H. Williams; 2, Wil-  
cox & Stubbs Co.  
Get of Sire—1, John H. Williams; 2, Wil-  
cox & Stubbs Co.  
Produce of Cow—1, John H. Williams; 2,  
Wilcox & Stubbs Co.  
American Guernsey Cattle Club Special  
Trophy—John H. Williams, Waukesha, Wis.

**GALLOWAYS.**  
Junior Bull Calf—1, Straub Bros., Aycoo,  
Neb., Handsome 4th; 2, C. S. Hechtner,  
Charlton, Iowa, Iva's Favorite; 3, A. O.  
Huff, Arcadia, Neb., Port Wallril.  
Cow, Three Years or Over—1, Straub  
Bros., Ladylike; 2, S. M. Croft & Son, Bluff  
City, Kan., Florence of Meadowlawn.  
**BROWN SWISS, CLASS NO. 37.**  
William Forbes, Lincoln, Neb., Judge.  
Bull, Three Years or Over—1, H. W.  
Ayers, Honey Creek, Wis., Zell; 2. Allyn-  
hurst Farm, Delavan, Wis., Casper C.  
Bull, Two Years and Under Three—1,  
Marion T. Anderson, Washington, Ia., Cas-  
per Delta; 2. Allynhurst Farm, Myone Boy.  
Bull, One Year and Under Two—1, H. W.  
Ayers, Zell; 2. H. W. Ayers, Chris; 3.  
Ayers, Zell.  
Junior Bull Calf—1, H. W. Ayers, Zell's  
Traveler; 3. Allynhurst Farm.  
Cow, Four Years or Over—1, H. W. Ayers,  
Upland Cuma; 2. Allynhurst Farm, Ariene;  
3. Allynhurst Farm, Myone Baby.  
Cow, Three Years and Under Four—1,  
Allynhurst Farm, Betty of Allynhurst; 2.  
Marion T. Anderson; Florida A.; 3. H. W.  
Ayers, Browney.  
Heifer, Two Years and Under Three—1,  
Allynhurst Farm, My-one of Allynhurst; 2.  
H. W. Ayers, Susan Arrand 2d; 3. Allyn-  
hurst Farm, Princess Errima.  
Heifer, One Year and Under Two—1,  
Allynhurst Farm, Delavan, Wis.; 2. H. W.  
Ayers, Sultana Crocus; 3. H. W. Ayers, Zell's  
Ada.  
Heifer Calf, Under One Year—1, Allyn-  
hurst Farm, Delavan, Wis.; 2. H. W. Ayers,  
Sultana Crocus; 3. H. W. Ayers, Zell's Ada.  
Heifer Calf, Under One Year—1, Allyn-  
hurst Farm, Delavan, Wis.; 2. H. W. Ayers,  
Zella Crocus; 3. H. W. Ayers, Miss Collier.  
Senior Champion Bull—H. W. Ayers, Zell.

Junior Champion Bull—H. W. Ayers,  
Junker 2d.  
Senior Champion Cow—H. W. Ayers, Up-  
land Cuma.  
Junior Champion Heifer—Allynhurst  
Farm, Delavan, Wis.  
Grand Champion Bull—H. W. Ayers, Zell.  
Grand Champion Cow—H. W. Ayers, Up-  
land Cuma.  
Exhibitor's Herd—1, H. W. Ayers; 2, Al-  
lynhurst Farm.  
Breeder's Young Herd—1, H. W. Ayers;  
2, Allynhurst Farm.  
Get of Sire—1, Allynhurst Farm; 2, H. W.  
Ayers; 3, Allynhurst Farm.  
Produce of Cow—1, Allynhurst Farm; 2,  
H. W. Ayers; 3, H. W. Ayers.  
**RED POLLED.**  
J. W. Wilson, Brookings, S. D., Judge.  
Bull, Three Years or Over—1, Haussler  
Broo, Holbrook, Neb., Teddy's Best; 2,  
Frank Davis & Son, Holbrook, Neb.; 3,  
Frank J. Clous, Barnum, Iowa, Ruperta's  
Goda.  
Bull, Two Years and Under Three—1,  
Thomas L. Leonard, Breadwinner; 2, J. W.  
Larrabee, Earlsville, Ill., Sir William; 3, A.  
P. App, Eldridge, Iowa, Bryan.  
Senior Yearling Bull—1, Frank J. Clous,  
Paul; 2, A. P. App, Luna Lad 15th; 3, J.  
W. Larrabee, Jay Ross.  
Junior Yearling Bull—1, Fred W. Lahr,  
Maller; 2, J. P. App, Luna Lad 14th; 3,  
Thomas L. Leonard, Cosy's Napoleon Apple.  
Senior Bull Calf—1, Frank Davis & Son,  
Kansas City Lad; 2, Frank J. Clous, Jimi;  
3, Thomas L. Leonard, Brownie.  
Junior Bull Calf—1, Frank J. Clous,  
Ikea; 2, J. W. Larrabee, Marlon; 3, Charles  
Graf, Imperial.  
Cow, Three Years or Over—1, Frank J.  
Clous, Lena; 2, A. P. App, Lisa; 3, Charles  
Graf, Inna.  
Heifer, Two Years and Under Three—1,  
Haussler Broo, Gazelle; 2, Frank J. Clous,  
Polka; 3, Frank Davis & Son, Lady Dorothy  
2d.  
Calf Herd—1, Fred W. Lahr, Broka, Ia.;  
2, Thos. L. Leonard, Beaver Crossing, Neb.;  
3, Frank J. Clous, Barnum, Ia.  
**AYRSHIRE, CLASS NO. 38.**  
Bull, Three Years Old or Over—1, Adam  
Seitz, Waukesha, Wis., Barenoch Gay  
Caveller.  
Bull, Two Years and Under Three—1,  
Adam Seitz, Waukesha, Wis., Peter Pan.  
Bull, One Year and Under Two—1, Adam  
Seitz, Cack-A-Bendie.  
Bull Calf, Under One Year—1, Adam Seitz,  
Oldhall Rising Star; 2, Adam Seitz, Bar-  
enoch Spice John; 3, Adam Seitz, Bar-  
enoch Perfection.  
Cow, Four Years or Over—1, Adam Seitz,  
Waukesha, Wis., Silverpet of Spring City;  
2, Adam Seitz, Muir Rosalie's Last; 3, Adam  
Seitz, Kilnford Bell 3d.  
Cow, Three Years and Under Four—1,  
Adam Seitz, Hillhouse Maud 2d; 2, Adam  
Seitz, Oldhall Sarah 3d.  
Heifer, Two Years and Under Three—1,  
Adam Seitz, Benchan Dorothy; 2, Adam  
Seitz, Kilnford Bell 4th.  
Heifer, One Year and Under Two—1,  
Adam Seitz, Dutchess Croft; 2, Adam Seitz,  
May Queen C. 2d.  
Heifer Calf, Under One Year—1, Adam  
Seitz, Barenoch Queen; 2, Adam Seitz,  
Barenoch Silverpet; 3, Adam Seitz, Bar-  
enoch Licesee Lindsay.  
Bull, One Year and Under Two—1, G. A.  
Chaffee, Minneapolis, Minn., Viola's Elm-  
hurst Prince; 2, Smith & Roberts, Stock-  
well's Rloter; 3, Cotta & Williams, Gales-  
burg, Ill., Kinloch's Golden Jolly.  
Senior Bull Calf—1, Smith & Roberts,  
Stockwell's Champion; 2, Smith & Roberts,  
Oxford's Sultan Lad; 3, E. Gruins, Isben's  
Noble Lad.  
Junior Bull Calf—1, Smith & Roberts,  
Warders Stockwell; 2, E. Bruins, Baron's  
Isben; 3, G. A. Chaffee, Minneapolis, Minn.,  
Leda's Champion Lad.  
Junior Yearling Heifer—1, Cotto & Wil-  
liams, Belle Delle Rosette; 2, E. Bruins,  
Majesty's Ethel; 3, Smith & Roberts, Ox-  
ford's Silverine.  
Senior Heifer Calf—1, E. Bruins, Isben's  
Glory Couline; 2, G. A. Chaffee, Combina-  
tion's Prince's Lady; 3, H. C. Young,  
Jamont's Queen Y.  
Junior Heifer Calf—1, H. C. Young,  
Raleigh's Brown Baby; 2, Smith & Roberts,  
Stockwell Lady Fern; 3, H. C. Young, Raleigh's  
Victoria.  
Senior Champion Bull—Smith & Roberts,  
Beatrice, Neb., Stockwell's Fern Lad.  
Junior Champion Bull—Smith & Roberts,  
Stockwell's Champion.  
Senior Champion Cow—Smith & Roberts,  
Warders Proud Beauty.  
Junior Champion Heifer—E. Bruins, Is-  
ben's Glory Couline.  
Grand Champion Bull—Smith & Roberts,  
Fern Lad.  
Grand Champion Cow—Smith & Roberts,  
Warders Proud Beauty.

**SWINE.**  
**POLAND CHINA.**  
Harvey Johnson, Judge.  
Boar, Two Years and Over—1, R. W. Hal-  
ford, Manning, Ia., Mabel's Wonder; 2, Fred  
Selver, Audubon, Ia., Big Wonder; 3, Henry  
Lauer, Eldorado, Ia., Chief Prince Again 2d.  
Boar, 18 Months and Under Two Years—  
1, J. E. Meharry, Tolono, Ill., Comptroller's  
Boy; 2, D. H. Paul and A. T. Wilson, Laurel,  
Ia., Hgh Ideal; 3, J. L. Blesley, Ames, Ia.,  
Gnat Wonder.  
Boar, One Year and Under 18 Months—  
1, S. A. Roberts, Knoxville, Ia., A. Model; 2,  
Fred H. Hassler, Manning, Ia., Fashion's  
Chief; 3, S. R. Reed, Monteith, Ia., Choice  
Look 2d.  
Boar, Six Months and Under One Year—  
1, Charles H. Kramm, Chief I Know; 2, F. G.  
Paul, Mastodon Hadley; 3, W. Z. Swal-  
low, Waukeo, Ia., Columbia Chief.  
Boar, Under Six Months—1, E. S. Barker,  
Doon, Ia., Mabel's Grant; 2, E. N. Paul,  
Laurel, Ia.; 3, Henry Lauer, Eldorado, Ia.  
Sow, Two Years or Over—1, F. G. Paul,  
Marshalltown, Ia., Chief Modesty; 2, Wig-  
stone, Bros., Stanton, Ia., Black Maid; 3,  
J. E. Meharry, Tolono, Ill., Louise Har-  
vester.  
Sow, Under Six Months—1, E. S. Barker,  
Doon, Ia., on Jessie's Pet; 2, S. R. Reed,  
Monteith, Ia., Miss May 1st; 3, E. S. Barker,  
Doon, Gentle Jessie 2d.  
Sow, Under 18 Months and Under 2 Years  
—1, Joe Kramer, Val's Spellbinder; 2, J. E.  
Meharry, Nannie 9th; 3, F. G. Paul, Bal-  
anced Queen.  
Sow, One Year and Under 18 Months—  
1, J. E. Meharry, Louise Model; 2, J. E.  
Msharry, Bashful Model; 3, F. G. Paul,  
Smooth Giantess.  
Sow, Six Months and Under One Year—  
1, J. E. Meharry, Perfect Model; 2, McHarry,  
Perfect Modest 2d; 3, E. M. Metzger, Fair-  
field, Ia., Long Queen.  
Boar and Three Sows, Under One Year—  
1, J. E. Meharry; 2, E. M. Metzger; 3, J. F.  
Leahy.  
Boar and Three Sows, Under One Year,  
Bred by Exhibitor—1, J. E. Meharry; 2, E.  
M. Metzger; 3, E. S. Barker.  
Produce of Sow—1, J. E. Meharry, Perfec-  
tion Lady 2d's pig; 2, E. M. Metzger, Big  
Queen's pigs; 3, E. S. Barker, Gentle Jessie

National Poland China Futurity, by the  
Chicago Daily Live Stock World.  
Boar Pigs, Under Six Months—1, E. S.  
Barker, Doon, Ia., Mabel's Grant; 2, Henry  
Lauer, Again Chief Price; 3, L. C. Burford  
& Sons, Monticello, Mo., Monticello Boy.  
Sow Pigs, Under Six Months—1, E. S.  
Barker, Jessie's Pet; 2, S. R. Reed, Miss May  
1st; 3, E. S. Barker, On Litter—1, E. S.  
Barker; 2, Henry Lauer; 3, W. Z. Swallow.  
Boar and Three Sows, Over One Year—  
1, J. E. Meharry, Tolono, Ill., Banker's  
Model 2d; 2, F. G. Paul; 3, D. H. Paul,  
Laurel, Ia.  
Boar and Three Sows, Over One Year,  
Bred by Exhibitor—1, J. E. Meharry, Bank-  
er's Model 2d; 2, D. H. Paul, Laurel, Ia.;  
3, M. H. Corey, Lookridge, Ia.  
**BERKSHIRES—CLASS NO. 49.**  
N. H. Gentry, Sedalia, Mo., Judge.  
Boar, Two Years or Over—1, Rookwood  
Farm, Ames, Ia., Rival's Champion Best; 2,  
The Farmer Farm, Farmington, Minn.,  
Julia's Duke; 3, Iowana Farms, Davenport,  
Ia., Masterpiece Rival 2d.  
Boar, One Year and Under 18 Months—  
1, Rookwood Farm, Laurel Champion; 2,  
The Farmer Farm, Sunrise Attraction; 3,  
Rookwood Farm, Ames Rival 20th.  
Boar, Six Months and Under One Year—  
1, The Farmer Farm, Robin's Baron Value;  
2, F. S. McPherson, Stuart, Ia.; 3, Rob Roy  
10th; 3, Iowana Farms, Peerless Master-  
piece.  
Boar, Under Six Months—1, The Farmer  
Farm; 2, Iowana Farms; 3, Iowana Farms.  
Sow, Two Years or Over—1, Iowana  
Farms, Robin's Girl; 2, Iowana Farms,  
Rival's Black Girl 2d; 3, The Farmer Farm,  
Robin's Corrector.  
Sow, 18 Months and Under Two Years—  
1, Iowana Farms, Value's Duchess 2d; 2, C.  
A. Evans, Model Gem 251st.  
A. Sow, One Year and Under 18 Months—  
1, Rookwood Farm, Rival Lady 33d; 2,  
Iowana Farms; 3, The Farmer Farm, Sun-  
rise Attraction.  
Sow, Six Months and Under One Year—  
1, The Farmer Farm, Robin's Baroness Value  
3d; 2, The Farmer Farm, Premier's Master  
Princess; 3, Iowana Farms, Masterpiece  
Duchess.  
Sow, Under Six Months—1, A. G. Fersbeck,  
Black Diamond; 2, The Farmer Farm; 3,  
Iowana Farms.  
Senior Champion Boar—Rookwood Farm,  
Rival's Champion's Best.  
Junior Champion Boar—Farmer's Farm.

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CUTS SEVEN ACRES A DAY



The cut illustrates the only ma-  
chine that will successfully head  
and elevate Kafir corn. It weighs  
about 300 pounds.  
Can be attached to any ordinary  
wagon bed, and by means of a  
lever can be raised and lowered  
to gather uneven heads while in  
operation.

Here is a good letter from one of our many customers. William T. Gardner,  
of Kremlin, Oklahoma (December 2, 1907), writes: "I bought of the Hunter  
Hardware Company, on November 9, one of your Kafir Corn Headers, and started  
working on the 10th. In seven days I harvested 52 acres, and it did fine work.  
When my neighbors saw what it did they all wanted me to cut for them, but  
being so busy, I could not go. I rented the machine to them, and it has been  
on the go ever since, and has over 50 acres yet to cut. I think it is as near  
perfect as it can be made. It will cut this season anyway 150 acres."  
Every farmer who raises Kafir should have one of these machines. For  
full description write

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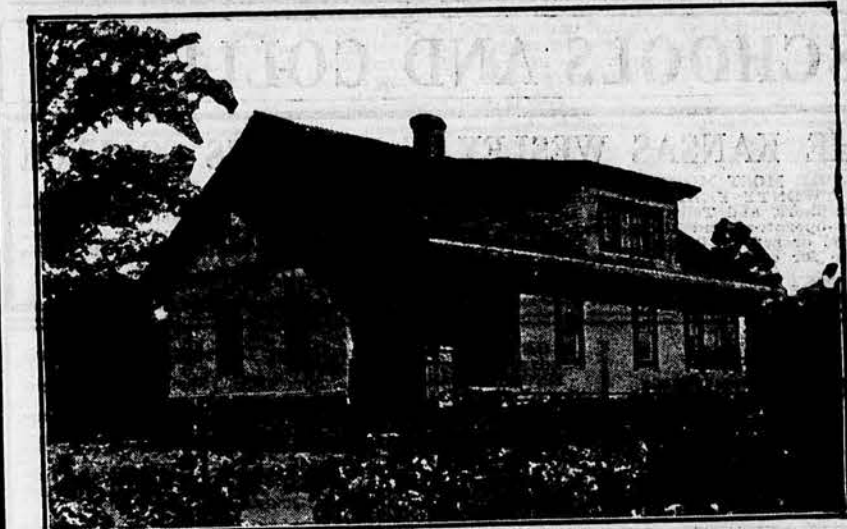
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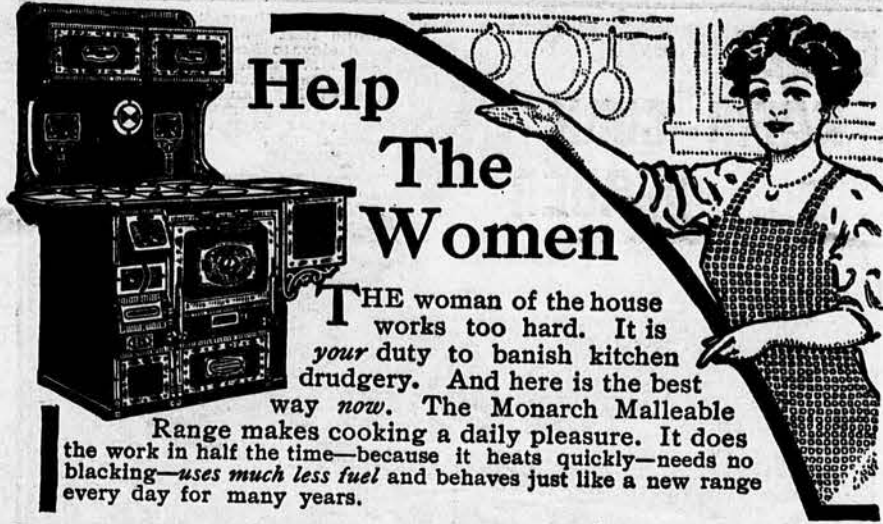
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Senior Champion Sow—Iowana's Farm,  
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Junior Champion Sow—Farmer's Farm,  
Robin's Baroness Value 3d.  
Grand Champion Boar—Rookwood Farm,  
Rival's Champion Best.  
Grand Champion Sow—Iowana Farms,  
Robin's Girl.  
Boar and Three Sows, Over One Year—1,  
Rookwood Farm; 2, Iowana Farms; 3,  
Farmer's Farm.  
Boar and Three Sows, Under One Year—  
1, Farmer's Farm; 2, F. S. McPherson; 3,  
Iowana Farms.  
Boar and Three Sows, Over One Year,  
Bred by Exhibitor—1, Rookwood Farm; 2,  
The Farmer Farms; 3, C. A. Evans, Correc-  
tion's Best.  
Boar and Three Sows, Under One Year,  
Bred by Exhibitor—1, Farmer's Farm; 2,  
F. S. McPherson; 3, Iowana Farm.  
Get of Sire—1, Rookwood Farm; 2, Farm-  
er's Farm; 3, F. S. McPherson.  
Produce of Sow—1, Rookwood Farm; 2,  
Farmer's Farm; 3, F. S. McPherson.  
Specials offered by the American Berk-  
shire Association:  
Best Herd, Consisting of Boar and Three  
Sows, Under One Year, Owned by Ex-  
hibitor—1, F. S. McPherson, Stuart, Ia.  
Boar and Three Sows, Under One Year,  
Bred by Exhibitor—1, Willie Essig, Direct  
View and herd; 2, I. Martin, Lancaster, Mo.,  
Brookview; 3, Mike Sharp & Son, Shanker  
Get of Sire—1, Willie Essig, Comper's  
pigs; 2, Mike Sharp & Sons, Cline's Duke;  
3, W. J. Bringer, Blythe Dale Duke.  
Produce of Sow—1, Willie Essig, Pearl K's  
pigs; 2, Mike Sharp & Sons, Vinte; 3, I.  
Martin, Lady Lancaster.  
Special prize offered by the American  
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Quire; 2, C. A. Brook; 3, Clayton Mes-  
senger.  
**HAMPSHIRE.**  
A. L. Goodenough, Morrison, Ill., Judge.  
Boar, Two Years or Over—1, Clay-  
ton Messenger, Keswick, Iowa, Mes-  
senger Boy; 2, Willie Essig, Tipton, Ind.,  
Comper; 3, J. E. Beckendorf, Walnut, Iowa,  
Lad For Me.  
Boar, 18 Months and Under Two Years—  
1, Willie Essig, Dr. Scott; 2, Mike Sharp &  
Sons, Round Up; 3, W. J. Bringer, Byrdine  
Carter. (Continued on page 22.)





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# HOME CIRCLE



A good way to prevent the waste pipe in a sink from becoming clogged is to keep a large lump of soda in the sink and allow the water to run over it.

Every one who does much crocheting, especially with coarse thread such as carpet warp, knows what a nuisance it is to keep the ball of thread from rolling around the floor. A good solution of the difficulty is to get a paper file spike with a standard, and place the spool upon it.

When putting a new oilcloth cover over your table, paste some cotton cloth on the under side where the table corners will come. This will keep the corners from rolling up and will keep the oilcloth from wearing out so soon.

Proper feeding is not simply what kind of food you give, but how you feed it. Good grain may be fed so that it will produce bad results rather than good. Have a method of feeding and stick to it. Variation in feeding is a good thing, but carelessness is not variation, and is injurious to the welfare of the birds.

When spraying the roosting poles be sure to get to the underside of the poles. Lice will be found there, if anywhere, and if you get at them with a sprayer they will be exterminated. If the poles set in sockets so that they may be removed, take them out and spray or pour a little of the lice killer in the socket. Any lice or mites hidden away will get an unpleasant dose and you will soon be rid of them. The place to fight vermin of this kind is right on the roosting platform. Keep at it and you will soon be free from these troublesome pests.

**A New Definition.**  
"Mary," said the teacher, "what is the spinal column?"  
"The spinal column," said Mary, "is what my head sits on one end of and I sit on the other."

**Nut Bread.**  
Two cups graham flour, 2 cups white flour, 2 cups sour milk, 2 teaspoons salt, 1 cup boiling water, 1/2 cup sugar, 1/2 cup molasses (New Orleans), 1 teaspoon soda, 1 cup walnuts or pecans. Mix and let stand 20 minutes; bake in moderate oven from 45 minutes to one hour.

**Let Them Do It.**  
A farmer's wife who had no very romantic ideas about the opposite sex, and who, hurrying from churn to sink, from sink to shed, and back to the kitchen stove, was asked if she wanted to vote.  
"No, I certainly don't!" she said. "I say if there's one little thing that the men folks can do alone, for goodness' sake let 'em do it!"

**A False Alarm.**  
"You ought to have seen Mr. Marshall when he called upon Dolly the other night," remarked Johnny to his sister's young man, who was taking tea with the family. "I tell you he looked fine a-sitting there alongside of her with his arm —"

"Johnny!" gasped his sister, her face the color of a boiled lobster.  
"Well, so he did," persisted Johnny. "He had his arm —"  
"John!" screamed his mother, frantically.  
"Why," whined the boy, "I was —"  
"John," said his father, sternly, "leave the room!"

And Johnny left, crying as he went: "I was only going to say that he had his army clothes on."

**Father's Grace.**  
A young lady, who taught a class of small boys in the Sunday school, desired to impress on them the meaning of offering of thanks before a meal. Turning to one of the class whose father was a deacon in the church, she asked him:  
"William, what is the first thing your father says when he sits down to the table?"  
"He says, 'Go easy with the butter, kids; it's 40 cents a pound,'" replied the youngster.

**Train As You Would Have Them.**  
One of the great lessons to be taught to the children is neatness and orderliness. It is essential to the comfort not only of the child, but of every person around it that it be taught early the habit of keeping its belongings in place. The following methods of a mother seems to me a good one:  
"I have three dear little tots, and I'm trying to raise them to be real ladies and gentlemen. Sometimes we blame children for mussing up the home. Did you ever think that it is often our fault instead of theirs? Don't you believe we should be more interested in their belongings and furnish places to put them in? My little ones have hooks on which to hang their wraps, nails near the cabinet to hang their dish-washing aprons on, and a certain handy place for sandals, etc. They also have a low desk and table for their books, papers and pencils. Then there are boxes for paper dolls, post cards and the bushel of things they are so intensely interested in just now. I make them feel that these things are strictly theirs and that they alone are responsible for the appearance of that part of the home. This gives them a feeling of ownership and pride, and they try to be as good housekeepers as some older ladies."

"Our children will be what we want them to be if we are strong enough in our desire. That is, strong enough to sacrifice time, energy and patience in teaching them."

**Getting Ready for School.**  
This is the time of the year mothers have to be getting the children ready for school. Experience has taught most amateur dressmakers that it is waste of time and money to buy lawns and thin materials for school dresses. Of course, they are very much reduced in price at this season, and the temptation is strong to buy them, but very soon the mornings are cool and the thin dresses would be insufficient for the children's tender bodies.

Garments made in the fall should have deep hems so they can be let down in the spring. Also, there should be ample material laid away for new sleeves.

By washing the new piece a few times and hanging it in the sun to dry it will fade out to match the half worn garment, and the child will not be conspicuous in a "two-color" dress.

The best materials for boys and girls are the heavy galateas, stout gingham, sensible cambrics—all wear-resisting fabrics that hold starch and look well to the end of the chapter.

Light jackets and wraps are needed for school in the early fall and should always be at hand. These can be made from the best parts of the old coats or from the worn out dresses of the older members of the family.

Then with stout shoes and stockings ready, and plenty of dark bloomers for the girls and overalls for the boys the school preparations will be out of the way until winter comes.

**Home Circle Readers and Farmers' Wives.**  
KANSAS FARMER is this week extending invitations to stockmen, breeders and farmer readers, their family and friends, to make themselves at home at KANSAS FARMER headquarters. Home Circle editor wants to especially invite its readers to make use of these accommodations. We urge every farmer's wife to visit the fair. Maybe the "man of the house" can't leave—but you can. Let him get his own meals for a day or two. He can do it, and will be pleased to give you the chance to attend the fair. Bring the youngsters, too, and make KANSAS FARMER headquarters yours. Enter at the main gate. Follow the main walk two hundred yards. Keep your eye to the left and you will see our sign.



**Food Value of the Human Body.**  
Washington, Aug. 10—At the Department of Agriculture, where statistics are the habit, there is a daily flood of printed matter from every quarter of the globe, which statistical information for the most part is as dry as dust, but the mail has just brought in a human interest contribution from France. It was printed in an editorial in the Bulletin Des Helles, the Parisian retail market register. It follows:

**CONTENTS OF THE HUMAN BODY.**  
“The compilers of statistics know no bounds. One of our most brilliant physicists, whose speculations in the region of human chemistry have led him to make most exhaustive researches, has analyzed the human anatomy into its convertible components. He reports as follows:

“A normal man of 150 pounds contains in reducible nutritive principles the equivalent of 12,000 hen's eggs.

“The gas of the human organism is sufficient to inflate a balloon of 10,000 cubic feet capacity.

“A human body contains sufficient iron to make four nails of 5 centigrams weight.

“A man of this weight contains enough of fats to make 75 candles and leave over enough grease to make a cake of Marseilles soap.

“There is sufficient phosphorus to make 8,045 boxes of parlor matches.

“The hydrogen portion of the human gas contents would fill a balloon that would lift the weight of the contributor.

“In addition to the foregoing, the human body contains also six teaspoonfuls of salt, a basin of sugar and 32 quarts of water.”

“What's the use? When all's said and done, the human organism with all these valuable contents could not be pawned at the Monte de Piete for 3 sous.”—Leavenworth Post.

**Domestic Science for Girls.**

The girls who know how to teach cooking and sewing are not long idle these days. The Kansas Agricultural College was not able to supply more than one-half the teachers required in 1911 and 1912. Six hundred and seventy-five girls were enrolled in the domestic science course at the college, but only a few of these intended to leave home. Fewer than 100 had any desire to teach school, and still there was a constant call for girls to fill positions paying from \$40 to \$100 a month and this, notwithstanding the fact that home economics or domestic science is taught also at Pittsburg, Emporia, Hays and at Lawrence. Forty-five young women were placed, this summer, by the Kansas Agricultural College as teachers of domestic science.

It would be hard to imagine more practicable instructions than the girls receive. In the domestic science course the students learn the laws of health, and get an understanding of the sanitary requirements of the home; they learn how to use things, how to prepare food property, how to spend money wisely, how to save time, how to plan their work for themselves and for others, and

how to care for children. Such training results in contentment, industry, order and cleanliness. They do their own marketing, their own cooking, their own waiting on tables, and their own dish-washing. They buy materials, make their own patterns, cut the goods and make their own clothes. They buy straw in bundles and make and trim their own hats. After they have done these things acceptably, they know how to teach others, or they can go to their own homes or their parents' homes and make life happier for someone.

**Country School Work.**

The following article on the “Industrial Work In Nebraska Schools,” is worth thinking about. In our city schools we have manual training and domestic science courses, and they are very popular with the students. There doesn't seem to be any reason why our rural schools shouldn't have the same advantages. Now is the time to think about it, when the plans for another year have to be made. This is by Anna V. Day:

The rural schools in Nebraska have been giving special attention to industrial education during the past five or six years. The work for the girls has been in cooking and sewing under the direction of the department of agricultural extension of the state farm. Bulletins have been issued giving directions and suggestions for this work, both to the teacher and pupils and so popular have they been that it has been impossible to keep them in stock. The most popular has been a bulletin called “A Course in Cookery.” This contains material on the purpose and classes of food, composition of the body, nutritive value of different kinds of food and recipes for 50 different dishes. It is the work of Miss Gertrude Rowan.

The result of the work in sewing has been more in evidence in contests as it is much easier to send sewing to a county seat or to the state capital and have it arrive in good shape than to send cooking. Many of the contests have shown work done by the girls in school which would be a credit to their mothers.


The effect on the children in school and at home has been particularly interesting. It is a common thing to find the girls, and boys, too, in many schools with their fancy work or their patching and darning at recess or noon intermission.

The work for the boys has been chiefly along the line of raising better corn. So great has the interest become in many parts of the state in this matter that it is said that the yield of corn in certain counties has been increased five bushels to the acre.

It is an interesting sight to see boys of 9 and 10 years old with their contest corn around them studying over which ears will make the best exhibit at the contest. Choosing first one and then another ear and arranging them all so that they shall be the best ears of about the same size that he has raised.

The work has now reached the point where there is a demand for a regularly outlined course of study and a text of some kind. The people of the state will not consent to having the work given up. It has already meant too much to them in developing their boys and girls.

The **Mystery** of a **Shoe**



SOLE LEATHER HEELS  
SOLE LEATHER COUNTER  
SOLID LEATHER SOLES

Show this Advertisement to Your Dealer.

Before wearing a shoe you judge it only by its appearance and by what the clerk tells you about it. You can't see what is hidden by the inside lining and the outside finish.

A vast number of the shoes made today have heels, counters and insoles made of imitation leather. Convict labor makes eight million pairs, many containing low grade leather or leather substitutes.

But you can always be sure you are getting honest shoes by demanding Star Brand shoes with our well-known Star on the heel.

Here is a “Star Brand” shoe—cut up—to show HOW it is made and WHY it outwears other shoes sold at the same price. It is one of “Our Family” line made in several styles for all the family.

The “Our Family” shoe has sole leather counters and soles. Every piece in the heel is of sole leather. The upper is of high grade box calf leather, specially tanned for comfort and service.

TAKE THIS ADVERTISEMENT to the “Star Brand” Dealer in your town and ask to see the cut shoe. Examine it carefully. Then cut up an old shoe made by somebody else and sold for the same money. You'll then know why “Star Brand Shoes Are Better.”

You can cut up any “Star Brand” shoe from the finest to the lowest in price and you will find every pair honestly made of good leather.

“Star Brand” shoes are made in over 700 styles in our own modern factories. Always ask for and insist upon having “Star Brand” shoes. The Star on the heel insures good leather shoes and legitimate values.

You can get the “Our Family” shoe for men, boys and youths at \$2.00 to \$3.00. You can get the “Our Family” shoe for women, misses and children at \$1.35 to \$2.25.

For the price you'll find the “Our Family” the best every day shoe you have ever worn.

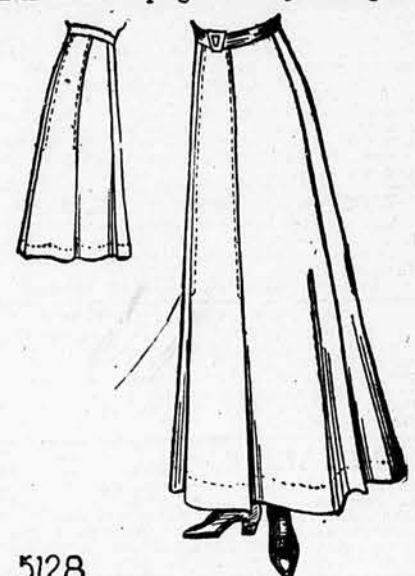
If your dealer doesn't sell them, it will pay you to change dealers. Don't let any dealer sell you something else. Write for name of nearest dealer and sample of leather used in “Our Family” shoes.

Address Dept. F 17

**ROBERTS, JOHNSON & RAND**  
MANUFACTURERS Branch of International Shoe Co. ST. LOUIS



2654  
No. 2654. Child's Apron.—This little apron may be used as a house dress for the little girl, as it closes all the way down the back much after the manner of a regular frock. To protect the child's dress while at school or play an apron of this style is admirable. The garment is cut plain at the front, but the backs are gathered on a small square yoke. There is a pretty turn-down collar, divided both front and back, and the long, full sleeves have a neat band, finished with a narrow ruffle. Gingham is the best material to use, but galatea or percale is available. The pattern, No. 2654, is cut in sizes for 2 to 12 years. To make the garment in the medium size will require 3 1/4 yards of 27-inch goods. Price of pattern, 10 cents.



5128  
No. 5128. Ladies' Six-Gored Skirts.—We show in this number a six-gored trotter skirt an excellent model and one simple to construct. The garment closes at the left side of the front. At each front seam and at the lower part of the side-front seams there is a backward turning plait and a forward turning plait at each back seam. The lines of the skirt are good and the garment is up-to-the-minute in style features. The pattern 5128, is cut in sizes 22 to 32 inches waist measure. Medium size will require 4 1/4 yards of 36-inch material. Price of pattern, 10 cents.

Important—In ordering patterns, be sure to give date of issue in which they appear, number and size wanted.

**Clean Fruit Jars For Preserving Time**



Fruit and preserve jars take on a new lustre—an air of inviting cleanliness, when cleaned with Old Dutch Cleanser. The fine porous particles go into every corner and rout out the small stuck-on particles—quickly and easily. It will also clean the hands of stains.

Many other uses and full directions on large sifter can—10c.

**Old Dutch Cleanser**

**TEN WEEKS FOR TEN CENTS**

We will send KANSAS FARMER on trial 10 weeks for ten cents. Could you do five of your friends a greater favor than to introduce them to KANSAS FARMER by sending it to him for 10 weeks? To anyone sending us five trial subscriptions we will send, free, one of our three-page wall charts, containing a large map of Kansas, the United States, World, Insular possessions, a fine new map of the Panama Canal, and hundreds of statistical facts of interest, last census of cities, towns, countries, etc. Send us your club today.

**KANSAS FARMER, Topeka, Kan.**



# BARGAINS IN LAND

## "BIG FOUR COLONY"

### Big Wells—Dimmit County—Southwest Texas

The foremost artesian irrigated colony in Southwest Texas, if not all Texas. The colony with the soil, the water, the climate, health and transportation. The section where development materializes actively, surely and substantially. The home of the biggest and best farmers from the biggest and best states. The country that is noted for its big wells, big fields, big crops, big yields. The place that attracts the homeseekers who inspect and compare it with others. The project that carries with it no gaudy, glittering, uncertain guarantees. The locality which is championed by its many satisfied owners and residents. The crops that make Big Four famous are alfalfa, corn, cotton, cow peas, oats, millet, milo maize, Kafir corn, Bermuda onions and all vegetables. The town of Big Wells, 20 months old, is a better town than some 20 years old. The S. A. U. & G. R. R. almost completed into San Antonio—operating in 60 days.

The \$60,000,000 worth of new railroads, deep water harbors, irrigation projects and other high-class developments now in full swing in Southwest Texas is making a great country—is sending land values up.

The man with the means, the ability, the know-how and the love of honest profits never fails to see big value in Big Four Colony and Big Wells.

The time to come to Southwest Texas is NOW. Good lands will never be cheaper.

The homeseeker's excursion leaves September 17, good for a fine 25-days trip. The agent at your station will give you full particulars as to route and rates. The main lines of the big systems lead to San Antonio and Southwest Texas. The weather is delightful and the trip will do you a world of good. Come.

**LITTLE FARMS ON EASY PAYMENTS**  
**LARGER FARMS ON LIBERAL TERMS**  
**LOTS IN BIG WELLS, \$10 A MONTH** Everybody Else Does"

For Literature, Maps, Testimonials, Prices and Terms, Address  
**State What You Want and HOWELL BROTHERS COMPANY,**  
Mention KANSAS FARMER. 215 Frost Bldg., San Antonio, Tex.

## DICKINSON COUNTY BARGAINS

We have many fine river and creek bottom lands and also fine upland farms for sale. Good wheat, corn and alfalfa lands at reasonable prices. Write for lists. Mention this paper. **BRINEY, PAUTZ & DANFORD, Abilene, Kansas.**

**WE MATCH TRADES FOR OWNERS—** List your property with us and let us match it. **OWNERS' EXCHANGE, Salina, Kan.**

**FARM BARGAINS—Sales and trades.** Restaurant and bakery for sale cheap; rents for \$300. **W. T. DEWESE, Neodesha, Kan.**

**IF YOU WANT to buy, sell or trade farm, city property or merchandise, list with us.** **TOMISON & COOVER, Topeka, Kan.**

**STEVENS CO. KAN., WANTS YOU—** New railroad building, fine water, fine climate, improved farm land, \$19 to \$20 per acre. **J. A. THOMPSON, Niagara, Kan.**

**FARM BARGAIN.** 235 acres, 4 miles from Garnett, Kan., \$5 miles to K. C. A snap at \$36 per acre. Must go in next 30 days. **SEWELL LAND CO., Garnett, Kan.**

**BARGAINS.** 160 acres.....\$25 per acre  
160 acres.....\$20 per acre  
80 acres.....\$20 per acre  
**J. D. RENAULT,**  
La Cygne, Kansas.

**THE OPPORTUNITY**  
To buy or exchange for wheat, corn and stock ranches. Write Teed & Orblson, Jetmore, Kansas, describing what you have to exchange or what you want to buy. They have the stuff.

**KAY COUNTY—THE GARDEN SPOT OF OKLAHOMA.**  
Fine stock farm, worth \$10,000, for only \$7,500. Easy terms. Fine \$5, \$5,000. List free. **E. E. WOOD, Newkirk, Okla.**

**COME QUICK**  
and look this one over: 160 acres, well located, good soil, 130 under cultivation, well and mill, fenced. Price, only \$14 per acre. Terms to suit. Other bargains. List on request. **MARES & DAY, Meade, Kan.**

**240 ACRES WHEAT LAND—\$37.50 per a.** 160 acres hay land, \$22.50 per acre. Other lands. Write for list. **Hills & Morgan, Coffeyville, Kan.**

**WRITE for free booklet, describing over 100 farm and ranch bargains in Greenwood County, Kan.** **A. E. SHAW, Eureka Kan.**

**123-ACRE FARM,** 1/2 mile of good town in Franklin County, Kansas. Good 8-room house nearly new, good barn and other outbuildings, all fine smooth tillable land, 20 acres bluegrass pasture, 40 acres timothy and clover, 20 acres native mow land. Price, \$70 per acre. Will loan \$6,000 five years. **MANSFIELD, Ottawa, Kansas.**

**Buy This One and Get a Bargain—**160 acres, 13 mi. from Genoa, in good farming country. Has R. F. D. mail service. Small improvements and balance long time at 6 per cent. **W. M. HOFFMAN, Genoa, Colo.**

**IDAHO LAND**  
On the famous south side of Twin Falls tract. Right prices and easy terms. The land where crop failures are unknown. Reliable water right and plenty of water. The coming fruit country. Mild climate. No severe storms. We need you and you need us. Come. **F. C. GRAVES, Filer, Idaho.**

**160 ACRES, 3 miles Harris, Kansas;** 110 acres cultivation, balance pasture; buildings poor. Price, \$12,000; mortgage, \$3,000. Wants merchandise. **80 acres Colorado, 3 miles town.** All can be irrigated. No improvements. Price, \$6,000. Wants hardware. **SPOHN BROS., Garnett, Kansas.**

## FOR SALE

**8-room, modern residence, in good town on main line Santa Fe.** Rent, \$20 per month. 1/2 section, improved, 2 miles of Cimarron, Kan., \$2,000. Good terms. Also, one hundred other bargains. **THOMAS DARCEY,**  
Real Estate Agent, Offerie, Kan.

**FREE HOMESTEADS IN ARKANSAS** under new 3 year law. 500,000 acres now open near railroads and markets. Our Homesteader's Guide Book tells just how to locate, acquire title, number of acres vacant in each county and full text of new law. Price, 25c. **Farm Pub. Co., Little Rock, Ark.**

**EVERYBODY ELSE DOES"**

## FOR SALE.

**A good 160-acre, well improved, creek bottom farm, running water, 10 acres timber, good stock and grain farm, 1 mile from Coffeyville. Price, \$75 per acre. Write for list. **J. K. BEATTY, Coffeyville, Kan.****

## SOUTHEASTERN KANSAS

is the place to go for good homes, low prices, and easy terms. Send for full information. Address, **The Allen Co. Inv. Co., Iola, Kan.**

**BARGAIN COUNTER.**  
Improved Osage County, Kan., farm, \$28 per acre, net cash; no trades. **J. W. WATKINS, Quenemo, Kan.**

## SUBURBAN HOMES

of 32 1/2 acres, 18 acres alfalfa, 13 acres cultivated, good house, new barn, fruit, etc. Price, \$6,000. **COOK & FRANCIS, Newton, Kan.**

**HARDWARE AND IMPLEMENT** stock for exchange—Stock consists of shelf goods, harness and implements. Invoice about \$2,000. Lot and a half with 38x80 building. Price, \$2,000. Total stock and building, \$4,000. Will exchange for clear land. **W. E. KNIGHT, Traer, Kan.**

**BARGAIN—560 a. stock farm, 2 mi. from town, 150 a. bottom land, 50 a. alfalfa, balance pasture and hay land. Located in rich Solomon Valley, Smith Co., Kan. Terms. **EBERSTEIN & LEEPER, Kensington, Kan.****

**40 ACRES, CLOSE IN, \$50.**  
80 a. near town, \$30. 120 a., 6 miles out, fine as silk, \$65. Other bargains, great and small. Best of terms. **McCARTY, La-Cygne, Kan.**

**395 ACRES, adjoining county seat of Jefferson County, Kansas; good soil; fair improvements; good barns and outbuildings; 290 acres cultivation, balance blue grass; young orchard. Price, \$65; terms. **FORD & WEISHAAR, Oskaloosa, Kan.****

## FOR TRADE.

**160 acres, for merchandise or rental property, 1 1/2 miles from town, all good creek bottom, well imp., 25 acres alfalfa, nicest home in the county. Price, \$12,000; mtg., \$5,000, runs 5 years. **W. C. BRYANT, Elk City, Kan.****

**Get an Oklahoma Farm on Payments.** Oklahoma farm lands to actual settlers, with or without cash payment down, balance in yearly payments. Over 100 farms to select from. **Joseph F. Loche, Wynnewood, Okla.**

**AUTOMOBILE BARGAIN—**Will sell my 6-cylinder toy-tonneau Matheson automobile for \$1,475 cash, as I am getting a new one. Cost new, \$4,100. Is the cleanest, fastest and one of the most powerful machines in Topeka. Come in and drive it home. No trades considered. Address, Matheson, care Kansas Farmer.

**200 Acres** 10 miles city, 110 a. cult., 40 new buildings, good water, R. F. D., phone line. Price, \$50 a. Exchange for east Kansas or Nebraska. Will assume. 400 a. close to city, half grazing, balance farm land, good farm buildings, creek and timber. Price, \$30 per a. Take part in western Kansas land, carry balance long time, low rate interest. **I. R. ELDRED, Phillipsburg, Kan.**

## READ THIS.

**240 ACRES, well improved dairy farm, 2 1/2 miles railroad town, phone, R. F. D. Owner leaving. Will sell farm, crop and all at a great bargain. Don't answer unless you mean business. Money talks. Everything clear—no trade. Price, \$35 per a. Address **W. L. MORRIS,**  
Owner's Agency, GARNETT, KAN.**

**CORN AND ALFALFA FARM FOR SALE** by owner—400 acres of choice land in milk belt surrounding Mulvane, Kan., where the condensing plant of the Helvetia Milk Condensing Company is paying out \$20,000 a month for milk. Either as a grain or dairy proposition this farm is hard to beat. If you are looking for a farm, do not delay writing. **B. B. Beery, Owner, Lawrence, Kansas.**

**CHEAP HOMES** in the Beautiful Ozarks. Finest springs, healthiest climate, and the cheapest good lands on earth. No droughts, no hot winds, nor cyclones. Raise anything that grows out of the earth, except tropical plants. Look at those bargains: 160 acres, 3 miles from railroad, 3-room house, barn, two fine springs, 70 acres cultivation, for \$1,500. 40 acres, some improvements, \$300. 80 acres, 30 cultivation, 3-room house, fine spring, \$300. Write for list of bargains. **Globe Realty Co., Ava, Mo.**

**BUTLER COUNTY, KANSAS, BARGAINS.** Two smooth improved half sections, \$32 per acre. One smooth improved half section, \$36 per acre. These farms are worth \$40 to \$45 per acre now. Let me show you a real snap in these. Cash only. Exchange book free. **H. H. Bersie, El Dorado, Kan.**

## Actual Farmers Wanted

Do you want a farm in Texas? Do you want to know how to get one for \$20 an acre, and with 20 years to pay for it? I am going to put into the hands of good white farmers only, 8,000 acres of good level prairie land, in Mitchell County, Texas, on just such terms. I don't care about having the money for this land in cash, but I want a fair return from the investment, and this can no longer be had by running it to range cattle. 160 acres of it will make you a good farm, and I will sell in 160-acre tracts. I will sell for one-tenth cash, balance on your own terms up to 20 years. If you are a land agent looking for commissions, or a land speculator looking for a place where you can plant a little money and watch it grow into more money through the work of other men, this is not intended for your consideration; but if you are a farmer, especially if you are one who has grown tired of working land for some other man and paying to him a large part of the result of your year's work, and if you want to know how and where you can get a home and a farm of your own at a price and on terms which you can meet, it will pay you to write, and write promptly, to **HARRY HYMAN,**  
451 Gunter Building, San Antonio, Texas.

**557 ACRES, CHEAP, GOOD TERMS;** 450 acres in cultivation, entire farm can be cultivated, two good houses, plenty of good water, alfalfa land, three miles Chillicothe, Texas. **J. W. Dodson, Chillicothe, Texas.**

**12,000 ACRES** Logan, Gove and Thomas County lands; 160 to 2,000-acre tracts; \$7 to \$20 per acre. **Attwood Real Estate Co., Oakley, Kan.**

## Eastern Kansas Farm Bargain

Eighty acres, located 4 1/2 miles from Osage City; 50 acres in cultivation; 2 acres orchard and grove, balance native grass, farm all smooth; 5-room house in good condition, good barn with loft, cow barn, corn crib, hen houses, implement shed, good water; R. F. D. and phone. Price, \$5,600, if sold in 30 days. This is a great bargain. **J. C. RAFF & CO., Osage City, Kansas.**

**BUY FROM OWNER.** We have a list of farmers who wish to sell. Will introduce you, and you buy direct from them. If interested, write **H. M. Burdick & Co., Humboldt, Allen County, Kansas.**

**SMALL FARM—BIG BARGAIN.** 20 a., near Rogers. Smooth land, fine for fruit or crops, new 6-room house, good barn, 3 wells, all fenced, hog wire, 1/2 mile to good school and church. Only \$1,900. Act now. **ROGERS LAND CO., Rogers, Ark.**

**OUR BEST.** 365 acres, 4 miles from town, two quarters, 1 mile apart, owned and operated by one man. Two good sets improvements; every foot tillable. Price, \$65. Must be sold to be appreciated. **DONAHUE & WAL-LINGFORD, Mound Valley, Kan.**

**"EVERYBODY IS DOING IT."** Doing What Listing their merchandise for trade. We make offer by return mail. **OWNER'S SALE AND EXCHANGE, Independence, Kan.**

**Will Carry 500 Cattle** 2,000 acres, 4 miles from Kingman, Co. seat, 900 in cult., 3 sets improvements, 150 acres alfalfa. Price, \$55, half cash. **JOHN F. MOORE LAND CO., Kingman, Kan.**

**\$500 FOR ONE ACRE OF CORN:** To prove to the land buying public of the wonderful crops we can grow and to induce immigration, we will give \$500 for the corn grown from the one acre that grows the most bushels of corn in the crop of 1912. Write us for particulars. If you will visit us we believe you will agree with us, that our rich drained lands are the greatest corn, wheat, alfalfa and truck land in the United States. We own and control thousands of acres of these unimproved lands. **EDWARDS BROS. REALTY CO., New Madrid, Mo., or Coffeen, Ills.**

**COME TO HUMBOLDT, KANSAS.** Let me show you good farms with from 50 to 75 bushels of corn to the acre, selling at \$50 to \$60 per acre. Natural gas and oil on most farms. **JAMES PEERY, Humboldt, Kansas.**

**GOOD FARM CLOSE TO TOWN.** 160 acres, 65 acres in plow, balance mow land and pasture, 40 acres alfalfa land, 10 acres now in alfalfa, timber for fuel and posts, running water. House of 6 rooms, barn 24x40x12, 1/2 mile from Madison. Price, \$45 per acre. **P. D. STOUGHTON, Madison, Kan.**

**FOR SALE** in Allen Co., Kan., near county seat, high school, 160 a., at \$65 an a., well improved. 80 a. well improved at \$50 and \$80, near town. A 240-acre farm that belongs to an estate that is a bargain at \$40 per acre. This is 5 miles from town. Good 2-story house, large barn, good orchard, fine shade, plenty of water, 140 acres in corn, 100 in pasture. For more information write **SMITH & SON, Box 733, Moran, Kan.**

**BUSINESS CHANCE.** Open for middle aged man with good reputation and ability. Would require an investment of \$10,000 to \$15,000, which would take half interest in established real estate and loan business in one of the best towns in Kansas. This money would not be invested in blue sky, but would take a one-half interest in approximately \$25,000 in good, saleable real estate in the town and county. I need a good man as partner. Business will pay not less than \$2,500 a year cash. Address **O. H. McQUARY, JR., Lawrence, Kan.**

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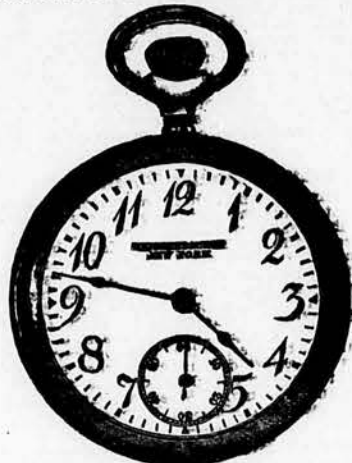
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To Head Off Chinch Bug Damage.

The Shawnee Alfalfa and Farmers' Institute has started war on the chinch bug. At its meeting last Saturday, H. H. Wallace, master of Shawnee County Pomona Grange, secured the passage of a resolution urging all farmers' organizations to consider the matter of sowing wheat only on such land that the migrations of the chinch bugs could be most easily prevented. In the discussion of the resolution, the facts were brought out that in many cases, damage done this year by chinch bugs to corn fields contiguous to wheat fields, amounted to the loss of many times the value of all the wheat produced on such fields. Farmers, generally, can well afford to study the chinch bug situation and take such reasonable measures as may be necessary to check its ravages. KANSAS FARMER will next week have something to say along preventive lines.

Operating under the approval of the State Grange of New York, Past Master E. N. Godfrey has established a State Grange purchasing agency for the handling of such goods as the farmers desire to buy and the selling of their products without the intervention of the middleman. A charge of 1 1/2 per cent commission is made on all transactions and all goods are purchased for members of the Grange at actual wholesale rates plus this commission only. Farm products are sold on the same basis.

Mr. Godfrey writes to How. George Black, Master of the Kansas State Grange, to learn if he cannot make arrangements to purchase alfalfa, grain and other farm products from the farmers of Kansas in carload lots with which to supply the membership in that state. If he can arrange to buy Kansas alfalfa and other farm produce here in Kansas, he will pay as much to the Kansas farmers as they would otherwise receive, but at the same time he will deliver to the New York farmers at a much lower cost than they would otherwise have to pay. Kansas farmers who can supply alfalfa or other products wanted by the New York patrons are asked to notify State Secretary O. F. Whitney, North Topeka, Kan.

Good Sense Here.

There is much sound common sense in this note from an exchange, and around it might be builded a good outline for a Grange evening—in comparing the equipment of the farmer 50 years ago and now. The notion that a farmer must be a jack of all trades, that he must be able to do every conceivable thing instead of calling on the services of others, that he must use time on petty repairs that might better be spent for larger things—all this false idea is rapidly being supplemented by better sense. Still there are those who reject the thought of farm specialization and insist on the "all-around know-how" as the proper equipment for a farmer. The editorial in question is very timely and covers the case exactly. Take up the subject in the next Grange meeting, draw out the different views and get a mighty instructive and entertaining meeting out of it. Here is the "common sense":

"The oft-heard contention that the farmer boy of today does not know even the rudiments of many of the simple things that the farmer boy of a generation or two ago knew is offset by the fact that the present boy on the farm knows much more about scientific farming crop rotation, the relative values of seeds, dry farming and stock judging. The making of an ax handle, the shoeing of a horse or the cobbling of a worn boot are things not so essential for him to know as it once was, because those things can be done by others in such businesses while he continues to improve himself in that which is of more vital importance to him as a farmer. It is well to know how to make simple repairs on the farm, but things that can be cheaply fixed by others while the farmer boy is devoting the time to his profession—for farming is truly a profession and an important one—are non-essential to his training.

Classified Advertising

Advertising "bargain counter." Thousands of people have surplus items or stock for sale—limited in amount or numbers hardly enough to justify extensive display advertising. Thousands of other people want to buy these same things. These intending buyers read the classified "ads"—looking for bargains. Their advertisement here reaches over 300,000 readers for 4 cents a word for one week; 3 cents a word for two weeks; 15 cents a word for three weeks; 10 cents a word for four weeks. Additional weeks after four weeks, the rate is 3 1/2 cents a word per week. No "ad" taken for less than 50 cents. All "ads" set in uniform style, no display. Initials and numbers count as words. Address counted. Terms, always cash with order. SITUATIONS WANTED ads, up to 25 words, including address, will be inserted free of charge for two weeks, for bona fide seekers of employment on farms.

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A few choice bulls, ready for service, priced reasonable.  
**I. W. POULTON,**  
 Medora, Kan.

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**High Class Angus Bulls**

Six Angus bulls and a few females for sale. Choicest breeding. 230 in herd headed by Undulata Blackcap Ito 2d, Black Lad 2d and Woodlawn Blackbird Prince, all Blackbirds. None better. Prices right.  
**C. D. and E. F. CALDWELL,**  
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 Write or wire for date. Hutchinson, Kan.

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**LAWSON, MO.**  
 Pure-bred Stock Auctioneer and General Salesman. A number of years experience. Terms reasonable. Write me for dates for fall sales.

**HAVE YOU A GOOD SHROPSHIRE RAM? If Not You Cannot Afford to be Without One**

Our unequaled facilities for breeding sheep enable us to offer biggest values. American-bred yearlings at \$25, imported yearlings at \$35, well-matured January lambs at special prices. Also a choice selection of ewes, all ages, to be bred and shipped this fall. An early order insures choicest individuals, so write us today. We guarantee satisfaction.

**HENLEY RANCH, 8000 Acres, Greencastle, Mo.**



**HORSES AND HOGS FOR SALE**

Have sold my farm at Alden, Kan., and will locate at Sterling, Kan. Must sell my herd of Poland Chinas, consisting of 10 extra good tried sows, 10 fall gilts and 50 spring pigs, all eligible to register. They are from the best herds of big type Polands. Also, will sell 10 head of imported Percheron stallions and 10 head of Tennessee and Missouri Jacks. They are extra good, and from 2 to 5 years old. Come and see me. I mean business.  
**GEO. B. BOSS, ALDEN, KAN.**

**800 - FOUR - YEAR - OLD STEERS**

Good quality. Will sell from carload up. 700 head Shropshire breeding ewes. 100 head horses, including ponies and good draft mare. Good bunch of mules. Will sell worth the money. Aikin Station on farm. Marysville branch U. P. **AIKIN'S RANCH, F. T. GRIMES, Manager. P. O., Emmett, Kan.; Station, Aikins, Kan.**

**DUAL PURPOSE SHORTHORN CATTLE**

Evergreen Home Farms, Lathrop, Mo., J. H. Walker, Prop.—Breeder of dual purpose Shorthorn cattle, Oxford Down sheep, Berkshire hogs and Burbon Red turkeys. Breeding stock for sale at all times. Prompt attention to mail orders. Write us for milk and butter records of our Shorthorn herd.  
**J. H. WALKER, Lathrop, Mo.**

**AMERICAN AND DELAINE MERINO SHEEP**

We are offering 40 rams for 1912, also a few young ewes. Could furnish carload of rams on short notice. Foundation stock from famous Shattuck flock.  
**E. B. WILSON,** Clear Springs Farm, Stanberry, Mo.

**Crystal Herd O. I. C. Swine**

Herd headed by Frost's Buster. A number of extra good boars, ready for service, for sale. Also a number of choice gilts. This stock is priced to sell.  
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**Missouri Auction School.**

(Largest in the World.) The school that gives you practice in actual sales in their own auction rooms. Next term October 7, at Kansas City. Address **W. B. CARPENTER,** 14th and Grand Ave., Kansas City, Mo.

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The Missouri Big Type Hog Auctioneer. Write for date and terms.  
**WINDSOR, MO.**

**J. R. Triggs** LIVE STOCK AUCTIONEER  
 Valley Falls, Kansas.

**Col. L. R. Brady** Live stock auctioneer. Manhattan, Kansas. Ask about my work.

**Col. L.H. Grote** Live Stock and General Auctioneer.  
 Morganville, Kan.

**HAMPSHIRE HOGS.**

**HAMPSHIRE SWINE.**  
 Some fine spring boars and a fine lot of summer pigs, all registered stock.  
**T. S. BURDICK,** Route 3, Inman, Kansas.

**HAMPSHIRE HOGS.**  
 Bred sows, spring pigs, in pairs or trios, not akin. Pat Malony, General Allen blood lines. Prices reasonable.  
**F. C. WITTOEFF,** Medora, Kan.

**ECLIPSE FARM HAMPSHIRE.**  
 A choice lot of spring pigs; pairs, trios, no akin, for sale; prices reasonable.  
**A. M. BEAR,** Medora, Kansas.

When writing advertisers please mention **KANSAS FARMER.**

**THE STRAY LIST.**

**JASPER T. KINCAID, COUNTY CLERK,** Johnson County. Taken Up—On August 6, 1912, by Raymond Houghland, Olathe, one bay horse, 5 ft. tall, bay, collar marks. Appraised value, \$25.00.

**FIELD NOTES.**

**Marsh Creek Durocs.**

This week we start advertising for Mr. R. P. Wells, proprietor of the Marsh Creek Duroc Jersey herd, located at Formoso, Kan. Mr. Wells offers a choice lot of spring boars, sired mostly by his herd boar, "Pat's Chief," a grandson of the noted Tatarax. Others by Prince Wonder, Bell's Prince Wonder and Waldo's Vindicator. The pigs are well grown out and are most excellent individuals. When writing, kindly mention Kansas Farmer.

**Sanitary Poultry Roosts.**

Every farmer and chicken raiser should be interested in the sanitary roosts advertised in this issue of Kansas Farmer. These roosts are made at Belleville, Kan., by the "Only Sanitary Roost Co." They are of different sizes and so arranged as to be put in use with the least trouble. Each perch is lined with wicking and connected with a can of lye killer at each end in such a way that the roost and perch becomes and stays thoroughly saturated with the preparation. Hundreds of satisfied poultry raisers are using these roosts and adding dollars to their income from poultry. When writing about this roost mention Kansas Farmer.

**Thompson Brothers' Three Sales.**

Thompson Brothers, prominent Poland China breeders, located at Marysville, Kan., authorizes us to claim February 26 as the date for their second bred sow sale, also, to make mention of the fact that the first bred sow sale will be held January 2; the fall date is October 3. The brothers write that the pigs are going well and conditions are greatly improved in their part of the state. They have an unusually choice lot of spring boars and will sell a few privately, or invite prospective buyers to remember their fall date. If interested in as good as the breed affords, get in touch with the Thompsons.

**Homeseekers, Attention.**

We call attention to the advertisement of Harry Hyman, of San Antonio, Texas, who is desirous of locating actual farmers on a tract of 8,000 acres of land in Mitchell County, Texas, west of Fort Worth. Mr. Hyman owns some 30,000 acres in that section, and in order to dispose of this pasture of 8,000 acres he makes a most liberal offer. The time having passed when this land will pay a fair interest on the investment as a pasture, Mr. Hyman proposes to cut it up into farms in tracts to suit the purchaser, take a small cash payment, and give 10 to 20 years to complete payments. The price is \$10 per acre. This appears to be about the prevailing price of farming land in that section. This should prove a good chance for farmers of small means to get farms of their own. When writing mention Kansas Farmer.

**Get the Catalog.**

The Missouri Water & Steam Supply Company, of St. Joseph, Mo., issues a catalog illustrating a complete line of plumbing and steam fitting supplies. They manufacture their own goods and sell direct from factory to user. Their line embraces hot water heating plants, acetylene lighting boilers, pipe and fitting, gasoline engines, stock tanks, belting, valves, windmills, pumps, hydraulic rams, in fact everything in the water and steam supply line. Their business is conducted by men of integrity and ability, and being located in a comparatively small city, their operating expenses are lower than those of similar firms in larger cities, consequently their prices are said to be exceptionally favorable.



# SPRINGDALE FARM HOLSTEIN SALE

CRESTON, IOWA

SEPTEMBER 18th, 1912

Fifty head of pure-bred and high-grade Holstein cows and heifers. All in calf. Will be fresh this fall. Five outstanding good Holstein bulls, including the great herd bull Union Gerben Duke, one of the best Holstein bulls in the West. The cows in this offering have high records as producers. The bulls are herd headers. Catalogs now ready. Bids sent to auctioneer or fieldman in my care will receive careful attention. Address

**S. E. ROSS,** Creston, Iowa

H. S. DUNCAN, Auctioneer. W. J. CODY, Fieldman.

## DUROC JERSEYS

### DUROC HERD FOR SALE

Am leaving, and must sell right away the following pure-bred Durocs:  
12 tried sows, bred for September farrow, \$35 to \$50 each.  
7 fall and summer gilts, bred for September farrow, \$25 each.  
30 spring pigs, \$15 for one, two for \$25, five or more \$10 each.  
3 fall boars, \$25 each.  
Herd boar, "Chapin's Wonder," by Neb. Wonder, \$50.  
King's Col., by King of Cols. 2nd, \$50.  
In bunches will make sweeping reductions from these prices.

**GRANT CHAPIN**  
GREEN, KAN.

### EARLY SPRING PIGS

35 Duroc Jerseys of Tatarax, Wonder Chief and Colonel breeding.  
20 Berkshires of Berryton Dane 2d, Berryton Duke Jr., and Beau Brummel breeding. A few bred sows and yearling gilts.  
Also Southdown, Hampshire and Ramboillet yearling rams. Address  
DEPARTMENT OF ANIMAL HUSBANDRY,  
Manhattan, Kansas.

### 40 CHOICE DUROC PIGS

Sired by G. M.'s Col. and Carl Critic. Sows of Tatarax, Orion and Crimson Wonder breeding. Sale October 29.  
W. W. BALES,  
Manhattan, Kan.

### HIGGINS' BIG DUROCS.

We have spring boars by "Crimson Wonder Again," "King the Col," Golden Model Again, and many other sires of merit. Out of dams by Valley King, and others. Priced to sell, and guaranteed to please. Write or call. JOHN T. HIGGINS, Abilene, Kan.

### GOLDEN RULE DUROC JERSEYS

Choice bred sows and gilts for sale. Herd boars Dreamland Col. and L. C.'s Defender. Also spring pigs by the boars mentioned.  
LEON CARTER, Asherville, Kansas.

### VILANDER'S DUROC JERSEYS.

130 spring pigs, sired by Tatarax Chief, White House King, Carl Critic, etc. Out of mature dams. Pairs and trios not related. Ready to ship now. ALVIN VILANDER, Manhattan, Kan.

### GEORGE KERR'S DUROCS

lead in rich breeding and individuality. 120 choice spring pigs ready to ship. Plenty of herd boar material.  
GEORGE KERR, Sabetha, Kan.

When writing advertisers, please mention KANSAS FARMER.

### CHOICE DUROC JERSEY BOARS.

Last fall farrow, sired by Good E Nut Model by the Duroc wonder, Good E Nut Again, and out of sows by Crimson Jack by Crimson Wonder.  
E. H. GIFFORD, Lewiston, Neb.

### FALL DUROC BOARS.

Choice ones to select from. Fed and handled properly for good results. Choice breeding. Only the best saved for breeding. Reasonable prices.  
HOWELL BROS., Herkimer, Kan.

### FALL DUROC JERSEY BOARS.

GOOD ONES: Sired by Carter's Golden Rule, grandson of Pearl's Golden Rule and out of sows sired by G. C.'s Kansas Col. Also, 50 pigs, weanlings.  
J. W. WOHLFORD, Waterville, Kan.

### QUIVERA PLACE.

Headquarters for the best in Durocs. Herd headed by Quivera by Tatarax assisted by M. & M.'s Col. Choice spring boars for sale. Bred sow sale January 8.  
Munsell & Isenberg, Herington, Kan.

### OHIO IMPROVED CHESTERS

**MAPLE LEAF O. I. C.s.**  
Am booking orders now for spring pigs of the very best breeding. Also a few choice gilts for sale, bred or open. Prices reasonable. Write today.  
R. W. GAGE, Route 5, Garnett, Kan.

**O. I. C. PIGS**—Both sexes. \$10.00 each. Harry Haynes, Meriden, Kan.

## SNODDY Remedy (For Hogs)

HAS STOOD THE TEST.

Raise strong, healthy pigs. Protect your hogs from cholera and swine plague with the Snoddy Remedy. Fifteen years of satisfactory test in every state, and many imitators, indicate its value. Send your name and address for the seventh revised edition of "Snoddy's Treatise" on the care and treatment of diseased hogs, by Dr. J. H. Snoddy, the original discoverer of the "Snoddy Remedy." A hog saved is many dollars saved. Names of prominent hog men and farmers in Kansas who have used the remedy also sent on request.

**J. H. Snoddy Remedy Co.**

501 Schweiter Building, Wichita, Kan.

### BERKSHIRE HOGS.

**BUY THE BEST  
IT PAYS**

Sows bred for summer farrow. A splendid lot of young boars. Write  
SUTTON FARMS,  
Box 133 Lawrence, Kansas.

## POLAND CHINAS

### JENSEN'S BIG MOGUL POLANDS

Have been making good for years. None bigger, none smoother. No dissatisfied customers, nothing shipped that is not worthy. Forty tops selected for the season's trade. If this kind suits, write us.  
CARL JENSEN & SON, Belleville, Kan.

**Poland Chinas** 225 head in herd. Spring boars and gilts for sale, priced at farmers' prices. Write at once.  
**E. J. MANDERSCHIED,**  
St. John, Kan.

### HOME OF CAPTAIN HUTCH.

**200 Spring Pigs** for immediate sale Pairs and trios not related. The blood of the biggest Poland; new blood for these parts. Write for private sale catalog and prices.  
C. W. JONES, Solomon, Kan.

### FALL BOARS.

A few choice ones sired by First Quality 60266 and out of Expansion dams, at \$25 each. **JAS. ARKELL,** Junction City, Kan.

### BIG, SMOOTH POLANDS.

Headed by Model Look and Young Billy. Sows of biggest strains; 30 choice pigs ready to ship; pairs not related. **BROWN HEDGE,** Whiting, Kan.

### SOWS FOR SEPTEMBER FARROW.

Daughters of M.'s Giant Wonder and bred to Pfander's King and Expansive's Metal. Others bred to M.'s Giant Wonder. Low prices for quick sale.  
**JOHN T. CURRY,** Winchester, Kansas.

### COLOSSUS PAN POLAND CHINAS.

Forty choice spring boars and gilts sired by this great boar. Big and smooth. Public sale November 2.  
**HUBERT J. GRIFFITHS,** Clay Center, Kan.

### Miller Poland Chinas

Fifty head extra good spring pigs in pairs or trios for sale. Prices very reasonable. A few choice herd boars, sired by King Darkness. Write me at once.  
**F. J. MILLER,** St. John, Kansas.

### HARTER'S MAKE GOOD POLANDS.

Headed by "Mogul's Monarch," assisted by boars of equal merit. Mated with sows that have made my herd well and favorably known. Bred gilts and spring pigs, both sexes for sale. **J. H. HARTE,** Westmoreland, Kan.

### NOLL'S MASTADON POLANDS.

Headed by Pfander's King by Long King. Mated with sows of immense size that carry the blood of the famous Mastadon, and Wonder families. I have topped the best sales having this blood for sale. Fall sale, October 22.  
**JOHN W. NOLL,** Winchester, Kansas.

## POLAND CHINAS

## POLAND CHINAS

### MAMMOTH POLAND CHINAS

25 Bred Sows For Sale

Twenty-five mammoth sows bred for fall litters, to the greatest breeding boar in the state of Iowa, the 1,000-pound Pawnee Nelson. A few bred to the mammoth two-year-old, Big Sampson. Spring pigs by the above named boars and out of mammoth sows. Size, big bone, ruggedness and quality characterize our herd. Write your wants. Prices reasonable. Address **WILLIAMS BROS.,** Box 83, Villisca, Iowa.

**Dean's Mastodon Polands.** The big-boned type, will weigh when mature 800 to 1,000 pounds. Bred sows all sold. ALL IMMUNIZED BY DOUBLE TREATMENT AND ARE IMMUNE. Phone, Dearborn; station, New Market, and Postoffice, Weston, Mo. Address  
**CLARENCE DEAN, WESTON, MO.**

### PLAIN VIEW STOCK FARM

The home of the 1,000-pound grand champion Pawnee Chief Hadley and Big Bill Taft. We are offering 80 big-type spring boars and gilts sired by the above-named and other large-type sires, also two herd boars and 25 fall gilts either bred or open. We believe in size, quality and prolificacy, and we have a line of hogs now on which we can guarantee these essential features, and on this basis we solicit your trade.  
**DR. JOHN GILDOW & SONS,** Jamesport, Missouri.

### FULKERSON STOCK FARM POLANDS.

An extra good lot of early spring pigs, both big and medium type. Pigs sired by Washburn's Perfection, others by Pfander's Big Ben. Pairs or trios no kin, priced right.  
**F. D. FULKERSON and E. A. SMITH, BRIMSON, MO.**

### BASKETT'S BIG-BONED POLANDS.

I now offer a few good sows and gilts bred for September farrow to such boars as Capt. Hadley and Missouri's Best. Some good spring boars by Capt. Hadley, Grand Leader and Expansion Wonder. Sows priced at \$30 to \$40. Boars at \$15 to \$25.  
**ROBERT W. BASKETT,** Route 4, Fayette, Mo.

### WALLACE'S MAMMOTH POLAND CHINAS

A splendid offering of big type young boars for sale, from the strongest collection of big type brood sows, and by the GRAND CHAMPION BOAR, EXPANSION WONDER, and GRAND LEADER. Size with quality is my policy.  
**W. B. Wallace,** Bunceton, Mo.

### WRAY & SON'S BIG TYPE POLAND CHINAS

Herd headed by Sterling Prince, one of the largest and best 2-year-old boars of the breed. Assisted by Chief Price's Wonder, one of the best sons of the great breeding boar, Chief Price Again. Young stock for sale. Better than your grandpa ever raised.  
**B. T. WRAY & SONS,** Hopkins, Mo.

### BEERY'S JUMBO PROSPECT OFFERING

A few fall boars, spring boars and gilts sired by Jumbo Prospect 53806. Also summer pigs, both sexes, sired by Jumbo Prospect and Long King's Equal Again, to go at weaning time. Satisfaction guaranteed. Prices right.  
**ERNEST W. BEERY,** Shambaugh, Iowa.

### MADISON CREEK POLANDS

Twenty-five Spring Boars, ready to ship at 2 months. Buy the best in big type breeding and save money on shipment. Inspection invited.  
**J. L. GRIFFITHS,** Riley, Kan.

### Faulkner's Spotted Polands.

The Old, Original, Big Boned Spotted Kind,  
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**homa City**

State Fairs.  
For the kind of our forefathers, write  
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Box K, Jamesport, Mo.

### VINECROFT POLAND CHINAS

Bred for quality and size. Address,  
**ALVIN LONG,** Lyons, Kan.

### Poland Chinas With Quality

For Sale 30 Spring Boars and 30 Spring Gilts, not akin. Sired by Ware's Hadley by Big Hadley and Miami Chief. Prices reasonable and everything guaranteed. Write today.  
**P. L. WARE & SON,** Paola, Kan.

### GOLD METAL HEADS

our herd, and leads in point of size and producing ability, assisted by Long King's Best, by Long King. Choice fall boars for sale, sired by the only EXPANSIVE.  
**H. B. WALTER,** Edinham, Kan.

### STRAUSS POLAND CHINAS.

Big, smooth kind, headed by Model Bill 54634, and Model Wonder, descended from A Wonder. Sows of equal merit. Stock for sale.  
**O. E. STRAUSS,** Milford, Kan.

### Hildwein's Poland Chinas

combines the blood of Expansion, Long King's Equal, Big Victor, Gold Metal, and other great sires. Sixty spring pigs to choose from.  
**WALTER HILDWEIN,** Fairview, Kan.

### BIG, SMOOTH POLANDS.

FOR SALE—Choice fall boars. Gilts bred for October farrow, and spring pigs, both sexes. Pairs not related.  
**FRANCIS PROCKISH,** Westmoreland, Kan.

### SATISFACTION OR MONEY BACK.

For sale, 12 young boars, will make herd headers; 30 choice gilts; 100 spring pigs. Prices reasonable.  
**W. A. BAKER & SON,** Butler, Mo.

### PECKHAM POLAND CHINAS

Headed by "Blue Valley Gold Dust," the best breeding boar we ever owned. Ninety good spring pigs, mostly by this boar and out of 700-pound sows. Pairs and trios not related. **R. J. Peckham,** Pawnee City, Neb.

### GREEN LAWN STOCK FARM.

100 head of March and April pigs, sired by Majoh B. Hadley, the 1000-pound champion at the American Royal, 1911, and Giant Wonder, the best sow of A Wonder, out of a Giant Wonder sow. Spring boars and gilts priced reasonable for quick sale. Write at once.  
**A. J. ERHART & SONS,** Adrian, Mo.

### Langford's Big Type Polands

Have 90 head spring pigs ready to ship. Out of big, motherly sows with stretch, and strictly big type boars. C. Wonder, Spotted King and other noted boars. My hogs have the stretch.  
**T. T. LANGFORD,**  
Box A, Jamesport, Mo.

### LARGE POLAND CHINAS

Choice boars, bred sows and gilts for sale. Sired by King Hadley, John Ex. and John Long 2d. Prices right.  
**W. Z. BAKER,** Rich Hill, Mo.

### HARTMAN TYPE POLANDS.

Choice November and December boars, sired by Blue Valley, Jr., and Hartman's Hadley; \$30 for choice and quick sale. **J. J. HARTMAN,** Elmo, Kan.

**POLANDS WITH SIZE AND QUALITY.** Waechter's Referee No. 61045 at head of herd. Stock for sale at all times. **Josias Lambert,** Smith Center, Kan.

**THE LARGE, SMOOTH POLANDS.** Fifty head of fall boars and gilts that have size and quality; also a few bred gilts. **L. E. KLEIN,** Zeandale, Kan.

### BIG POLAND CHINAS

—BLACK AND SPOTTED KIND. 75 spring and summer pigs for sale, priced reasonably. Public annual sale November 7, 1912. Send for catalog and come to my sale. I sell good hogs cheaper than any other breeder. Write today.  
**J. A. WINEBRENNER,** Tipton, Mo.

### RYDAL POLAND CHINAS.

Headed by Rydal Chief by Choice Goods. Sows of best strains. SPRING pigs for sale.  
**E. S. FABLEE,**  
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### VALLEY VIEW POLAND HERD.

Home of Tec. Hadley, first prize sow at Lincoln last year. Forty choice spring pigs sired by Hadley Hutch and Revenue Chief. Write for descriptions.  
**J. W. LEEPER,** Norton, Kansas.

### KOLTERMAN'S SPOTTED POLANDS

Headed by Onaga King, mated with big kind of sows. Twenty years of continuous breeding. This is the farmer's hog. Fifty spring pigs to select from.  
**CHAS. W. KOLTERMAN,** Onaga, Kansas.

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**Shropshire** Rams and Ewes from English and Canadian bred stock. Prices low to clear.  
**SUTTON FARM**  
Lawrence - - - Kansas

### ELLIOTT'S SHROPSHIRE

—Butter and Dakin rams at head of flock. Imported ewes from best flocks. A high-class lot of yearling lambs for sale. Also imported ram Butter \$42. Prices right.  
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### Shropshire Rams Cheap

Registered rams from imported rams. Get my Ram circular.  
**E. E. LAUGHLIN,**  
Rich Hill, Mo.

Shropshire sheep and Poland China hogs. Choice rams, ready for service, priced right. A number of extra good Poland China fall gilts, priced to sell quick. Write for prices.  
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### IOWA'S PIONEER BREEDERS AND IMPORTERS OF SHROPSHIRE SHEEP.

Choice yearling rams with size and quality. Also will sell our imported herd rams if taken soon. Prices reasonable.  
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A FEW Guernsey bulls for sale; butter-fat record 688 to 714 lbs. per year; prices reasonable. **Frederick Houghton,** Roxbury, McPherson Co., Kansas.



# KANSAS STATE FAIR TOPEKA

## September 9-13. 5-Days-5

### \$50,000 IN PREMIUMS and SPEED COMPETITION, open to the world

### FULL RACE PROGRAM EACH AFTERNOON

FOUR GREAT BAND CONCERTS EACH DAY—  
FIFTY PEOPLE.  
DAYLIGHT FIREWORKS MONDAY.  
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NATIONAL REPUTATION, EACH DAY.

ACRES OF RED MACHINERY.  
GREAT FREE ATTRACTIONS.  
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### CHEYENNE FRONTIER DAYS, A REALISTIC REPRODUCTION OF WILD WEST LIFE PAIN'S SPECTACLE PIONEER DAYS WITH WONDERFUL FIRE WORKS

T. A. BORMAN, Pres.

SPECIAL TRAIN SERVICE ON ALL RAIROADS.  
For Premium List and Information, Address,

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### FIELD NOTES

#### FIELD MEN.

O. W. Devine.....Topeka, Kan.  
Jesse R. Johnson.....Clay Center, Kan.  
W. J. Cody.....Topeka, Kan.

#### PURE BRED STOCK SALES.

- Oct. 15—James Strader, Irving, Kan.
- Percherons.
- Nov. 14—J. C. Robison, Towanda, Kan.
- Dec. 17—Lee Bros., Harveyville, Kan. Sale to be held at Manhattan.
- Holstein Friesians.
- Feb. 4-5—Henry C. Gillsman, Station B, Omaha, Neb.
- Herefords.
- Oct. 8—American Royal, Kansas City, Mo.
- Oct. 23—O. Harris, Harris, Mo.
- Shorthorns.
- Oct. 9—American Royal, Kansas City, Mo.
- Galloways.
- Oct. 10—American Royal, Kansas City, Mo.
- Angus.
- Oct. 11—American Royal, Kansas City, Mo.
- Red Poll Cattle.
- Oct. 11—J. B. Davis, Fairview, Kan.
- Oct. 25—Milton Pennock, Delphos, Kan.
- Poland Chinas.
- Sept. 27—John T. Curry, Winchester, Kan.
- Oct. 1—Thomas Patrick, Herman, Neb.
- Oct. 2—J. O. James, Braddyville, Iowa.
- Oct. 1—John C. Halderman, Burchard, Neb.
- Oct. 2—Williams Bros., Villisca, Ia.
- Oct. 3—Thompson Bros., Marysville, Kan.
- Oct. 8—J. D. Spangler, Sharon, Kan.
- Oct. 9—Herman Groninger & Sons, Bendena, Kan.
- Oct. 12—R. L. Pomeroy, Elk City, Kan.
- Oct. 14—Verney Daniels, Gower, Mo.
- Oct. 15—W. A. Burk, Trenton, Mo.
- Oct. 15—H. C. Graner, Lancaster, Kan.
- Oct. 16—H. B. Walter, Effingham, Kan.
- Oct. 17—J. H. Baker, Butler, Mo. Sale at Appleton City, Mo.
- Oct. 17—Conover, Stanberry, Mo.
- Oct. 17—M. T. Williams, Valley Falls, Kan.
- Oct. 17—Wayne Hudson, Hemple, Mo. Sale at Stewartsville, Mo.
- Oct. 18—W. E. Long, Meriden, Kan.
- Oct. 19—W. H. Charters, Jr., Butler, Mo.
- Oct. 19—Andrews' Stock Farm, Big Spotted Polands, Lawson, Mo.
- Oct. 19—T. W. Strickler, Craig Mo. Sale at Tarkio, Mo.
- Oct. 21—Roy Johnston, South Mound, Kan.
- October 22—Jacob Sparks, Pattonsburg, Mo.
- Oct. 22—John W. Noll, Winchester, Kan.
- Oct. 23—T. E. Durbin, King City, Mo.
- Oct. 23—Harry W. Hoak, Attica, Kan.
- Oct. 23—R. J. Peckham, Pawnee City, Neb.
- Oct. 24—L. E. Klein, Zeandale, Kan.
- Oct. 24—L. V. Okeefe, Stilwell, Kan.
- Oct. 25—D. M. Gregg, Harrisonville, Mo.
- Oct. 25—Hull & Bean, Garnett, Kan.
- Oct. 25—J. J. Hartman, Elmo, Kan.
- Oct. 26—Frank Michaels, Erie, Kan.
- Oct. 26—W. F. Rieschick, Fall City, Neb.
- Oct. 28—E. F. Gebhart & Son, Kidder, Mo.
- Oct. 29—N. E. Copeland, Waterville, Kan.

- Oct. 26—E. C. Jonagan, Albany, Mo.
- Oct. 31—J. H. Harter, Westmorland Kan.
- Nov. 1—Walter Hildwein, Fairview, Kan.
- Nov. 1—John Gildow & Sons, Jamesport, Mo.
- Nov. 2—Black & Thompson, Hopkins, Mo.
- Nov. 2—E. J. Manderscheid, St. John, Kan.
- Nov. 2—Hubert J. Griffiths, Clay Center, Kan.
- Nov. 7—J. A. Winebrenner, Tipton, Mo.
- Nov. 8—W. A. Baker & Son, Butler, Mo.
- Nov. 9—A. C. Lobaugh, Washington, Kan.
- Nov. 9—Lomax & Startet, Severance, Kan.
- Nov. 13—Herman Groninger & Sons, Bendena, Kan.
- Nov. 14—Harry Wales, Peculiar, Mo.
- Nov. 15—O. R. Strauss, Millford, Kan.
- Nov. 15—William Watt & Son, Green City, Mo.
- Nov. 16—J. B. Dillingham, Platte City, Mo.
- Dec. 11—H. C. Graner, Lancaster, Kan.
- Jan. 16—H. B. Walter, Effingham, Kan.
- Jan. 24—Jas. G. Long, Harlan, Iowa.
- Jan. 30—C. W. Jones, Solomon, Kan.
- Jan. 2—Thompson Bros., Marysville, Kan.
- Feb. 5—J. L. Griffiths, Riley, Kan.
- Feb. 5—H. Fesenmeyer, Clairinda, Iowa.
- Feb. 7—J. O. James, Braddyville, Iowa.
- Feb. 8—W. H. Charters, Jr., Butler, Mo.
- Feb. 12—J. C. Kyle & Son, Mankato, Kan.
- Feb. 13—Carl Jensen & Son, Belleville, Kan.
- Feb. 26—F. J. Sexsmith, Orient, Iowa.
- Feb. 26—Thompson Bros., Marysville, Kan.

- Duroc Jerseys.
- Oct. 5—S. W. Alfred & Sons, Enid, Okla.
- Oct. 11—J. B. Davis, Fairview, Kan.
- Oct. 12—Fred W. Lahr, Brooks, Iowa. Sale at Corning, Iowa.
- Oct. 15—Dr. J. A. Larrabee, Barnard, Mo.
- Oct. 18—J. E. Constant & Son, Denver, Mo.
- Oct. 21—W. Z. Baker, Rich Hill, Mo.
- Oct. 29—W. B. Bales, Manhattan, Kan. Sale at College.
- Oct. 30—Thompson Bros., Garrison, Kan.
- Nov. 12—Lant Bros., Dennis, Kan.
- Jan. 8—Munsell & Isenberg, Herington, Kan.
- Jan. 11—Fred W. Lahr, Brooks, Iowa. Sale at Corning, Iowa.
- Jan. 17—E. H. Clifford, Lewistown, Neb.
- Jan. 30—J. W. Wohlford, Manhattan, Kan.
- Feb. 4—Alvin Villander, Manhattan, Kan.
- Feb. 6—Thompson Bros., Garrison, Kan.

- O. I. C.
- Oct. 10—J. S. Kennedy, Blockton, Iowa.
- Oct. 25—Milton Pennock, Delphos, Kan.
- Hampshires.
- Oct. 9—W. F. Davis, South St. Joseph, Mo.

**Winchester Goods Make Best Record**  
At Grand American Handicap, winning professional championship at singles, and amateur and professional championship at doubles; tying in the Grand American Handicap; being used by three out of the four men who tied in the Preliminary Handicap; making highest score in the Consolation Handicap and highest average for all targets shot at during the tournament; Winchester repeating shotguns or loaded shells achieved a far greater success at the big classic Grand American Handicap than any other make of gun or shells represented. In all it was a grand victory for the trust-worthy Red W Brand and forged another link in the long chain of evidence that proves the generally admitted superiority of Winchester guns and shells.

**Kafir Corn Header.**  
On account of the unprecedented increase in the number of acres planted to Kafir this season, the Eagle Kafir Corn Header will undoubtedly be in big demand. Kansas has 1,200,000 acres in Kafir which to head with

### TOO LATE TO CLASSIFY.

### CLOVER DALE STOCK FARM POLANDS

The Poland Chinas with size and quality. One yearling and one 2-year-old herd boar for sale. Also fall gilts. Spring gilts and boars. They are the kind with quality and are priced for quick sale.  
M. H. COBEY, Lockridge, Iowa.

### EAST VIEW SHROPSHIRE

Twenty-five registered yearling rams sired by an imported ram costing \$200 in England. Also 25 pure-bred rams, good growthy fellows of the right type. All rams priced to sell quick. Satisfaction guaranteed. Call on or address  
E. L. BITTERMAN, Mason City, Iowa.

a corn knife in the usual way would be almost an endless job. The Eagle Kafir Corn Header can be attached to any wagon box. It cuts the corn and elevates it into the wagon box as the team walks through the field, making the harvest an easy matter and a big time saver. It harvests seven acres a day. The header may be lowered or raised to suit the size of the corn. The Eagle Manufacturing Company moved to Muskogee last year from Kansas City, where it had been located for fifteen years. All readers of Kansas Farmer are acquainted with the Eagle Hay Presses and the other lines they put out. The move to Muskogee was made for the reason that most of their lines are sold in the South, being especially designed for that trade. Write the Eagle Manufacturing Company, Muskogee, Okla., for further information.

**Blue Sky.**  
The Kansas blue sky law has made good and is here to stay. Now it is expected that when the legislature next convenes in Texas a blue sky law copied after the Kansas law will be enacted. The prime movers for this law is the Texas Real Estate Dealers' Association. While Texas has had its land grafters, yet there are many firms engaged in selling out the big pastures who are perfectly reliable and who realize that no permanent development can come to the state except where the interests of the homeseekers and investors are safeguarded in every way. Kansas Farmer has been diligent in keeping land grafters out of its advertising columns. That Howell Bros., of Sam Antonio, Texas, are worthy of confidence is surely attested by the following quotation, taken from their booklet entitled, "A Plain Talk On Big 4 Colony." Perhaps no one thing has been more responsible for the failure of new towns and new communities in new countries than that class of unscrupulous, get-rich-quick exploiters and promoters who, with their glittering promises and worthless guarantees, have induced good people to invest, locate and—bust. We must have satisfied customers. Every representative of this company is required to accord our patrons fair, just and equitable business-like treatment, so that they absolutely may know, before they pay us a single dollar, that they are dealing with a reliable company, and that they are acquiring property worth the value. Howell Bros. will have several ads in Kansas Farmer this fall telling about their lands. When writing, mention this journal.

**Dr. E. A. Larrabee's Durocs.**  
Dr. J. A. Larrabee of White Cloud Stock Farm, Barnard, Mo., owner of one of Missouri's outstanding good herds of Duroc Jer-

### OXFORD DOWN SHEEP

Largest flock west of Mississippi River. Fifty rams, 100 ewes for sale. All stock sired by imported rams. 140 ribbons at the Iowa State Fair in last eight years. Call on or address, John Graham & Son, Eldora, Ia.

### 20 Yearling and Two-Year-Old Shropshire Rams,

sired by imported sire and out of registered ewes, priced right for quick sale.

ED. GREEN, HOWARD, KANSAS

**Shropshire Rams for Sale.**  
With this issue Col. Ed Green of Howard, Kan., is offering a choice lot of spring and yearling rams for sale. They are sired by imported sires and from registered ewes. All can be registered. Priced very reasonable for quick sale. Please read ad in this issue.

**Holstein Cattle For Sale.**  
J. P. Mast, of Scranton, Kan., is offering a number of young bulls for sale. They are sired by his great herd bull, Dutchland Cornucopia Sir Detsy No. 62567. This bull is a brother to a number of large record heifers, one of which holds the world's record as a junior 4-year-old, with her production of 551½ pounds of milk and 32½ pounds of butter in seven days. This bull also has a great record on his sire's side. The seven-day butter record of two of his sisters and his dam and grand dam of his sires averaged over 28 pounds each. Mr. Mast has a few bull calves for sale by this bull from heifers from the great Prince Ormsby Mercedes De Kol that he sold to head the Nebraska College herd. This bull was one of the best bred bulls that ever came to Kansas. Please look up advertisement in this issue and write Mr. Mast for prices. He has a number of good cows and heifers priced to sell. Kindly mention Kansas Farmer when you write.



# PUBLIC SALE

## September 19th, 1912

### I Will Sell My VALLEY VIEW FARM, LIVE STOCK and MACHINERY at Public Auction on Above

#### Named Date

### The Farm

Farm has 105 acres, 3 miles east of Beloit, on county road, Sunflower trail, telephone and electric light line, on R. F. D. Only one-half mile to school and church. One of the finest locations in the Solomon Valley. Has 25 acres alfalfa and 20 acres pasture, and a fine young orchard. The rest is all in cultivation. Farm is all fenced and cross-fenced, hog tight.

### Improvements

One 8-room house with bath—hot and cold water. Barn 36x50, cement floor. Hog house 20x50, cement floor, shingle roof, with 20 farrowing pens. Stock shed, 20x50. Fine chicken house and other buildings. 500-barrel reservoir giving 20 pounds pressure for house and barn. Water wherever necessary. 2,000 feet of pipe under ground. New windmill and never-failing well. 300-barrel cistern. All improvements are new.

### Live Stock and Machinery

Two Percheron mares and one yearling filly. 200 head extra good Duroc-Jersey shoats. Full line of up-to-date farm machinery, together with numerous other articles found on a farm of this character.

SALE COMMENCES AT 10:30 A. M.  
FARM WILL SELL AT 3:00 P. M.

All above described property positively will be sold to highest bidders. Reason for selling, I have bought land in Idaho and will move soon after sale.

EASY TERMS TO RESPONSIBLE PERSONS.

Sealed bids may be sent to either clerk or auctioneer, in my care.  
COL. R. E. MARTIN, Auctioneer. I. O. SEWELL, Clerk.

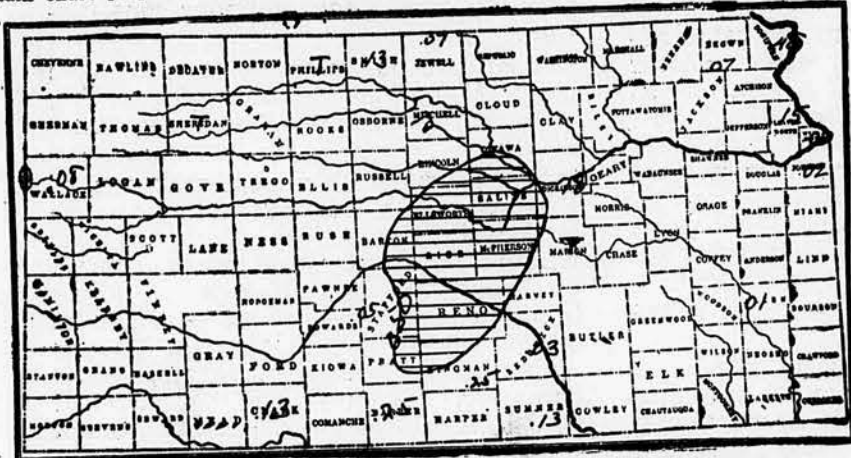
## E. P. GIFFORD

BELOIT MITCHELL COUNTY KANSAS

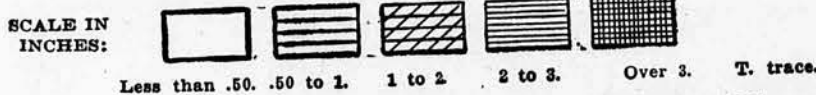
## KANSAS CROP REPORT

### FOR WEEK ENDING AUGUST 29

Rain chart prepared by T. B. Jennings from reports collected by the Weather Bureau.



UNITED STATES WEATHER OBSERVER'S REPORT BY COUNTIES.



Barber—Hot winds. Farmers plowing. Ground getting dry.  
Barton—Corn injured by hot wind. Early corn will be poor crop.  
Bourbon—The dry farming corn drying up; ground too dry to plow.  
Decatur—Very warm, but nothing suffering for rain.  
Elk—Needing rain. Kafir heading slowly. Farmers filling silos.  
Greeley—Milo, cane and Kafir heading nicely. Millet being harvested. All making good growth.  
Greenwood—Needing rain. Cutting third crop of alfalfa.  
Jewell—Good weather for corn. Potato crop good.  
Johnson—Fine growing weather. Good corn crop and good apple crop.  
Kingman—Ground getting too dry to plow. Late corn injured by hot weather.  
Lane—No rain this week and late feed crops are suffering.  
Leavenworth—All crops in good shape. Linn—Dry weather is damaging corn.  
Lyon—Corn crop well along. Hot weather has damaged vegetation.  
Mitchell—Wheat in stack and shock is spoiling. Corn looking fine.  
Nemaha—Dry and hot. Corn needing rain. Too dry to plow.  
Phillips—Needing rain. Very dry for late corn.  
Russell—Dry and hot. Needing rain.  
Sedgewick—Third crop of alfalfa out. Late corn in good condition.  
Sheridan—Lots of horses dying.  
Sumner—Farmers putting up hay. Will

not sow much wheat this fall. Strange disease among horses.  
Wallace—Corn is fine. All forage crops good.  
Wichita—Week has been hot and dry. Grass and feed needing rain.

#### Field Notes.

**Unusually Good Farm for Sale.**  
The advertisement elsewhere in this paper of the public sale of E. P. Gifford, Route 2, Beloit, Kan., presents an unusual opportunity for some one to buy one of the finest farms in the whole country for a competitive price. Mr. Gifford fixed up his farm for an ideal home place, and is selling it only because he is going to move to Idaho. It is very doubtful if any Idaho farm is better than this Kansas farm. However that may be, Mr. Gifford no doubt thinks he can make something by his change. Others have thought, in past years, that greener pastures lay beyond the Kansas border and have moved, only to come back again. Maybe the same will be true of Mr. Gifford. At any rate, he has determined to sell out, and the man who is fortunate enough to be the lucky bidder on this farm is going to buy something that will be a source of satisfaction and profit as long as he may keep it. A good Kansas farm is always a good buy, and in this case it is apparent that the bargain offered is one worth while making a special effort to acquire. Mr. Gifford will be glad to write further information about his farm to every one who may care to write before the sale date.

For the best in big, smooth Poland Chinas write Brown Hedge, Whiting, Kan. He has a fine lot of spring pigs for sale at farmer prices.

Charles Whitney, the veteran Duroc breeder at Agra, Kan., was visited recently. Mr. Whitney has a fine lot of Durocs on hand and the best crop of corn he has ever grown since his residence on the farm which he now owns. More about the pigs later.

J. E. Wills, the successful Poland China breeder, of Prairie View, Kan., was visited recently. Mr. Wills has about 80 very choice spring pigs, mostly sired by his great boar, Long Mogul, bred by Carl Jensen & Son, of Belleville. Their boar is an outstanding good one, and measures 82 inches heart girth, 80 inches at flank and is 71 inches from root of tail to center of forehead. He was sired by Blue Valley Blue and gets Mogul blood through his dam.

**The Big Spotted Kind.**  
James M. Andrews, owner of the Andrews Stock Farm herd of big, spotted Poland Chinas, at Lawson, Mo., says he is getting a lot of letters about these pigs since his article on "The Old Spotted Sow" appeared in Kansas Farmer issue of August 10. In some of these letters the writers wanted to know if Mr. Andrews breeds the big, spotted kind. He does. He has been doing it for a long time, and he has got the real thing in the big, spotted Polands, the kind of our forefathers, the prolific kind. His pigs are coming along in fine shape and everything prospers on the Andrews stock farm. The big, spotted Polands, the real, original Polands, are sure money makers, as they are bred for hog and not color of hair. Tell Mr. Andrews what you want. He has it.

**Harry Wales Has Good Poland Chinas.**  
A fieldman for Kansas Farmer called on Mr. Harry Wales, of Peculiar, Mo., and found one of the good looking herds of Poland Chinas as one will see in several weeks' travel. The herd boar, Wales' Missouri King, by Sunflower King, he by High Chief, out of a Design sow. This boar is a strong bone fellow with two good ends with a good spring of ribs and well arched back. We call him a splendid type for a herd header. His best qualities are shown in his get; all the crop of pigs by him look good. Wales' Missouri King is assisted by his son, a very promising fall yearling. The sows in the herd are sired by such boars as Nebraska King, Grantier, Expansion's Son, Expansion Over, Big Missouri Chief, Blain's Wonder and Mr. Radley. Mr. Wales is claiming November 14 for a sale date and will offer 15 bred sows, 15 spring gilts and 20 spring boars. Kindly watch for sale announcement in a later date of Kansas Farmer.

**A Careful Breeder of Poland Chinas.**  
One of our successful farmers and breeders in Kansas who chose and held to the middle ground in Poland Chinas, going to neither extreme, is F. J. Miller, of St. John, Kan. Mr. Miller bought a number of his foundation stock from the herd of H. E. Lunt, of Burden, Kan., and G. W. Roberts, of Larned, Kan., two herds that made history in our state. The quality of this herd is up to the standard, and Mr. Miller enjoys a profitable mail order trade, in addition to making two sales each year. The herd sows are the large, easy feeding kind from the blood lines of Peerless Perfection 2d, On the Spot, Meddler Sunshine, Impudence and other great boars. Mr. Miller has used the great breeding boar, King Darkness, and can price spring pigs in pairs and trios not akin to parties wanting to start small herds. Don't fail to look up advertisement in this issue, and write for prices. Please mention Kansas Farmer.

**Cloverdale Stock Farm Polands.**  
The attention of Poland China breeders and farmers wanting high quality Polands is called to the card of M. H. Corey of Cloverdale Stock Farm of Iowa's high quality Poland China herds and his show herd won their share of premiums in every class in which entries were made at the Des Moines, Iowa, fair this year, and were especially strong on yearling sows bred by exhibitor and on herd winning in one of the strong Poland shows of the fair. The head of this herd is The Baron 177653, sired by Correct Imp 158893, a full brother to The Harvester, first prize and junior champion boar at Des Moines in 1910. The Baron's dam was C's Forerunner, also a prize winner. The second boar of this herd is Darkness, sired by Perfection I Know and out of an A Darkness dam. Both boars are fine individuals and are extra good breeders. The sow herd is made up of daughters of The Baron, Correct Imp C's Forerunner and Big Nelson. The Baron is two years old, an outstanding good herd boar. Mr. Corey cannot use him any longer. He is for sale. Also a splendid yearling herd boar. A number of extra good yearling gilts and a high-class lot of spring boars and gilts. Mr. Corey is one of Iowa's most reliable breeders and is pricing his stock well worth the money for quick sale. Description of stock and satisfaction guaranteed. Please mention Kansas Farmer when writing.

**The Blackshere Sale.**  
On Saturday, August 31, J. K. Blackshere, of Elmdale, Kan., sold one of the best collections of useful brood sows and gilts that will go through a sale ring this fall. A number of breeders attended this sale and were a strong support. While the prices were not high, they were very even. The top sow sold to J. R. Smith, of Newton, Kan., for \$55, and the top boar went to W. A. Wood & Son, of Elmdale, for \$100. The entire offering should have sold for more money. The extreme hot weather and the corn prospect in many localities kept several prospective purchasers at home. Don't fail to see the Blackshere show herd of Duroc Jerseys at the Topeka Hutchinson and Oklahoman State Fairs. The following is a list of purchasers paying \$30 or more:

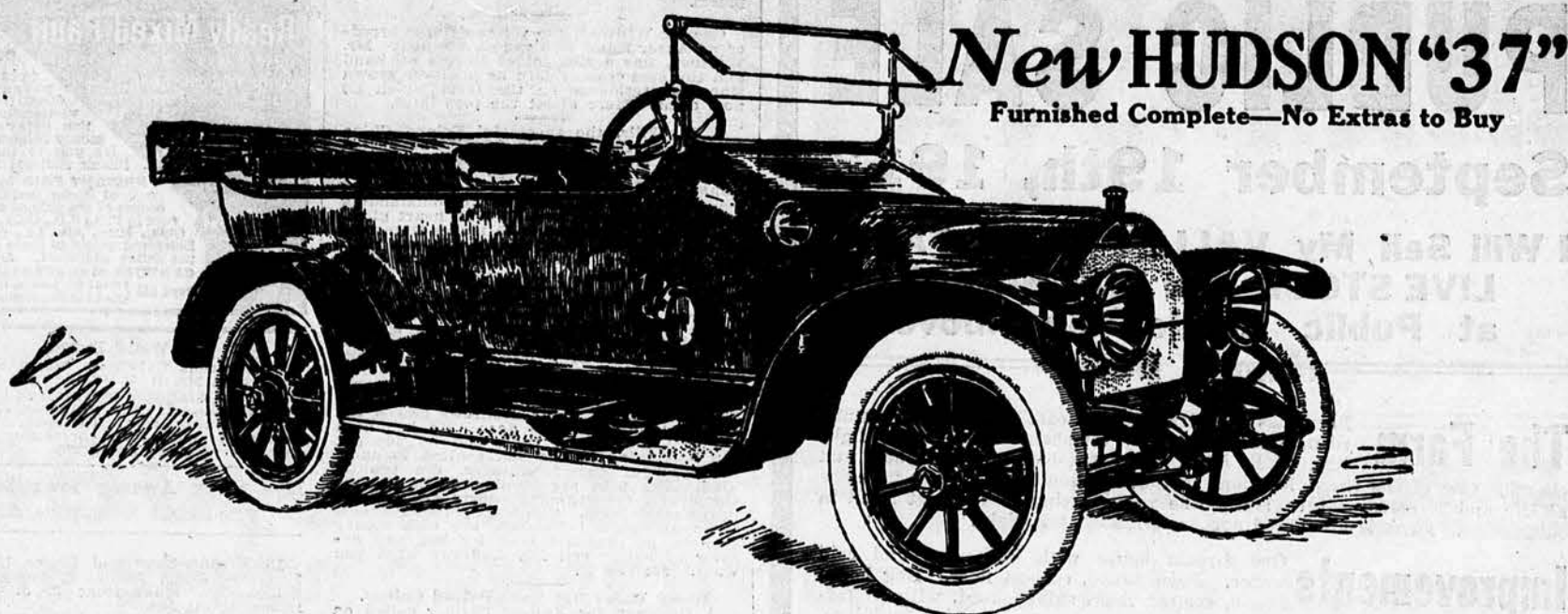
J. R. Smith, Newton, Kan.	\$55.00
Bert Campbell, Florence, Kan.	37.50
Fritz Alder	35.00
E. P. Allen, Elmdale	40.00
J. D. Johnson, Elmdale	32.50
A. J. Hanna, Elmdale	30.00
W. C. Woods, Elmdale	49.00
J. R. Smith, Newton	43.50
William Sherman	37.50
Fritz Alder, Florence	32.50
E. P. Johnson, Elmdale	38.00
Bert Campbell	31.00
Brooks Stewart	40.00
George Hammond	35.00
William Hamilton	34.00
William Hamilton	30.00
Brooks Stewart	50.00
George Hammond	52.00
Brooks Stewart	35.50
Bert Campbell	35.00
E. P. Allen	40.00
J. A. Jackson, Sewardville	40.00
V. W. Shaft, Florence	40.00
V. W. Allison, Florence	30.00
Dan McCarty, Newton	40.00
W. A. Wood & Son, Elmdale	100.00
Clarence Wood, Elmdale	50.00
Fritz Adler	30.00
William Hamilton	35.00

**Wells' Durocs.**  
In a recent field note the statement was made that Mr. R. P. Wells' herd boar, Tat's Chief, is a grandson of Tatarax Chief. This is a mistake. He is a grandson of the noted prize winning boar, Tatarax. Mr. Wells asks us to make this correction, and states that the pigs are doing fine.

### Live Stock Awards, Iowa State Fair. (Continued from page fifteen)

- Boar, One Year and Under 18 Months—1, Willie Essig, Dudley; 2, Perry C. James, Scioto, Ill.; Maxwellton; 3, J. H. Nissen, Lyons, Iowa, Joe.
- Boar, Six Months and Under One Year—1, Willie Essig, Direct View; 2, Willie Essig, Silko; 3, J. H. Nissen, Allen's Colofne.
- Boar, Under Six Months—1, Mike Sharp & Sons, Shanker; 2, I. Martin, Brookview Prince; 3, Mike Sharp & Sons, Ponia.
- Sow, Two Years or Over—1, Mike Sharp & Sons, Goldy; 2, Clayton Messenger, Sylvia; 3, Willie Essig, Utility Lass.
- Sow, 18 Months and Under Two Years—1, W. J. Brinigar, Missouri Best; 2, Mike Sharp & Sons, Bertha; 3, Willie Essig, Leepness.
- Sow, One Year and Under 18 Months—1, Mike Sharp & Sons, Mayflower; 2, W. J. Brinigar, Pretty; 3, Willie Essig, Progress.
- Sow, Six Months and Under One Year—1, Willie Essig, Veda; 2, Clayton Messenger, Wild Rose; 3, Clayton Messenger, Miss Taylor.
- Sow, Under Six Months—1, Isom Martin, Daisy Brookview; 2, Mike Sharp & Sons, Sadie; 3, Isom Martin, Orphan Ann.
- Senior Champion Boar—Clayton Messenger, Messenger Boy.
- Junior Champion Boar—Willie Essig, Direct View.
- Senior Champion Sow—Mike Sharp & Sons, Goldie.
- Junior Champion Sow—Willie Essig, Veda.
- Grand Champion Boar—Clayton Messenger, Messenger Boy.
- Grand Champion Sow—Mike Sharp & Sons, Goldie.
- Boar and Three Sows, Over One Year—1, Mike Sharp & Sons, Round Up; 2, Clayton Messenger, Messenger Boy; 3, Willie Essig, Dudley.
- Boar and Three Sows, Under One Year—1, Willie Essig, Direct View and herd; 2, Mike Sharp & Sons, Shanker; 3, J. H. Nissen, Allen's Colonel.
- Boar and Three Sows, Over One Year, Bred by Exhibitor—1, Mike Sharp & Sons, Round Up and herd; 2, Willie Essig, Dudley; 3, W. J. Brinigar, Blythedale Duke 2d; 4, J. H. Nissen, Joe; 5, Mike Sharp & Sons, Buster; 6, Clayton Messenger, Plunky Tom.
- Boar and Three Sows, Under One Year, Bred by Exhibitor—1, Willie Essig, Direct View and herd; 2, I. Martin, Brookview; 3, Mike Sharp & Sons, Shanker.
- sen, Allen's Colonel; 5, W. J. Brinigar, Todd B 2d; 6, Mike Sharp & Sons, Art; 7, C. A. Brook, Mars.
- Get of Sire—1, Willie Essig, Comper's pigs; 2, Mike Sharp & Sons, Gane's Duke; 3, W. J. Brinigar, Blythedale Duke.
- Produce of Sow—1, Willie Essig, Pearl K's pigs; 2, Mike Sharp & Sons, Vinie; 3, I. Martin, Lady Lancaster.
- Sons, Topsey; 5, Clayton Messenger, Edith; 6, J. H. Nissen; C. J. H. Nissen.
- CHESTER WHITE, CLASS NO. 48.  
N. H. Gentry, Sedalia, Mo., Judge.
- Boar, Two Years or Over—1, D. M. Boyer & Sons, Farmington, Ia.; Sweepstakes; 2, Barr & Rae, Ames, Ia.; Chickasaw Choice; 3, F. H. Sheridan, West Side, Ia. Allright.
- Boar, 18 Months and Under Two Years—1, W. J. Michael, Seima, Ia.; Charmer; 2, Thos. F. Kent, White Boy; 3, A. D. Andrew & Son, New London, Ia.; Pioneer Chief.
- Boar, One Year and Under 18 Months—1, W. H. Dunbar, Jefferson, Ia.; Medler; 2, E. L. Nagle & Son, Deep River, Ia.; Col. Evans; 3, Arthur Spear, Wellman, Ia.; Modeler S.
- OXFORD DOWNS.  
J. C. Duncan, Lewiston, N. Y., Judge.
- Ram, Two Years Old or Over—1 and 2, George McKerrrow & Son, Pewaukee, Wis.; 3 and 4, C. S. Hetchner, Chariton, Iowa.
- Ram, One Year Old and Under Two—1 and 2, George McKerrrow & Son; 3, C. S. Hetchner, Chariton, Iowa.
- Ram Lamb—1, George McKerrrow & Son; 2 and 3, C. C. Croxen.
- Ewe, Two Years Old or Over—1 and 3, George McKerrrow & Son; 2, C. S. Hetchner, Chariton, Iowa.
- Ewe, One Year Old and Under Two—1 and 2, George McKerrrow & Son; 3, C. S. Hetchner.
- Ewe Lamb—1, George McKerrrow & Son; 2 and 4, John Graham & Son.
- Champion Ram, Any Age—George McKerrrow & Son.
- Champion Ewe, Any Age—George McKerrrow & Son.
- Get of Sire—1, C. C. Croxen; 2, John Graham & Son.
- Flock—1, George McKerrrow & Son; 2, C. S. Hetchner; 3, C. C. Croxen.
- SHROPSHIRE.  
J. C. Duncan, Lewiston, N. Y., Judge.
- Ram, Two Years Old or Over—1 and 2, George McKerrrow & Son, Pewaukee, Wis.; 3, P. and W. Postle, Camp Chase, Ohio.
- Ram, One Year and Under Two—1 and 3, George McKerrrow & Son; 2, F. W. Harding, Waukesha, Wis.; 5, W. A. Taylor & Son.
- Ram Lamb—1, E. L. Bitterman, Mason City, Iowa; 2, George McKerrrow & Son; 3, F. W. Harding.
- Ewe, Two Years Old or Over—1 and 2, George McKerrrow & Son; 3, R. W. Postle.
- Ewe, One Year Old and Under Two—1 and 2, George McKerrrow & Son; 3, F. W. Harding.
- Ewe Lamb—1 and 2, E. L. Bitterman; 3, George McKerrrow & Son.
- Champion Ram, Any Age—George McKerrrow & Son.
- Champion Ewe, Any Age—George McKerrrow & Son.
- Get of Sire—1, E. L. Bitterman; 2, J. S. Fawcett & Son; 3, W. A. Taylor & Son.
- Flock—1, George McKerrrow & Son; 2, R. and W. Postle; 3, F. W. Harding.





## —The Composite Masterpiece of 48 Leading Engineers

*Men who have had a hand in building more than 200,000 automobiles of 97 well-known makes, offer now the car which all joined in building—the HUDSON "37."*

*It represents the best that each man knows. It is the composite of all these experts and expresses the development possible when the best engineering brains combine.*

### The Greatest Engineer of All—Their Chief

At the head of these experts is Howard E. Coffin, the foremost automobile engineer of America, recognized here and abroad as the most startlingly original designer the industry has produced.

His genius is an inspiration to his associates. From him they have gained in ability. On account of them he has become a broader and more versatile builder.

What one man lacked in experience, some one of his associates was able to supply. The problems one was unable to solve, others soon found the answer for.

That accounts for the completeness of this car. That accounts for the fact that you will find on it the very things that you have wished to find on an automobile. That explains why this car will do the things which other four-cylinder automobiles have failed to accomplish.

Imagine what strides, what advancement, men of such experience are bound to offer in the car which all have joined in perfecting.

It is all in the one car. It expresses as nearly the limit of four-cylinder construction as has been reached.

### Hadn't You Better Wait

Even if you are impatient to have a new car now, don't you think it better to see the New HUDSON "37" before you buy?

No other car you can get this year, regardless of price, has all the features that are offered in the "37."

Consider for a moment the rapid advancement that has been made in motor car building. It is almost as startling as are the changes in fashion. Think how strange are the open cars of two years ago. What proportion of their original cost do you think such cars now bring? It is not due to wear that their value has declined so much. No, it is the advance that has been made in automobile building since the open cars were put on the market.

With that thought in mind you must recognize the importance of choosing wisely now. Automobiles as now built should be of service for many years and

you don't want to feel that you will have to buy a new car in two, three or four years because the one you have just purchased will, at that time, be out of date.

### Your Safety in This Choice

No one is likely to soon have many new ideas to offer that these 48 engineers have not already anticipated.

They all combine in saying that the New HUDSON "37" represents the best that there is in four-cylinder construction.

They proved every move they have made through 20,000 miles of gruelling country, mountainous, mud and snow driving.

The most abusive treatment one of the most skilled drivers could give in the thousands of miles he drove the car, without developing a single weakness, or discovering a single detail in which improvement could be made either in design, construction, simplicity, easy riding qualities, responsiveness, safety or power, is a guarantee that you will find it expresses your ideal of what a four-cylinder car should be.

## Electric Self-Cranking—Electrically Lighted

### Comfort, Beauty, Luxury

Every detail of comfort, beauty and luxury is included. You will find no other automobile to excel the "37" in these particulars.

It is electric-lighted throughout. The successful Delco patented self-cranking system, at the touch of a button within reach of your finger, and the pressure of a pedal, turns over the motor, for 30 minutes if necessary. Oil and gasoline gauges are on the dash.

*There is not a single action in the operation of the car which cannot be done from the driver's seat.*

Actual brake tests show 43 horsepower. Its rear axle is full floating. The rain vision windshield, the speedometer-clock, demountable rims, 12-inch Turkish upholstery and every conceivable detail of refinement, make it the most complete four-cylinder automobile on the market.

**Models and Prices.** Five-passenger Touring Torpedo or Two-Passenger Roadster—\$1875, f. o. b. Detroit.

Go to see about this remarkable automobile today at the nearest HUDSON dealer. Write us for complete details, photographs, etc.

## HUDSON MOTOR CAR COMPANY

7441 Jefferson Avenue, Detroit, Michigan