KANSAS EA

For the improvement

of the Farm and Home

Volume 52, Number 3.

TOPEKA, KANSAS,

Established 1863. \$1 a Yea

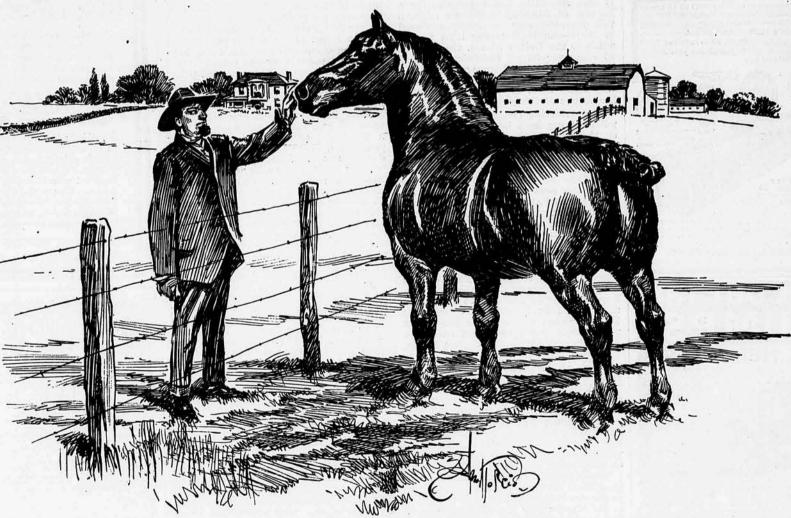
HE evolution of pure bred stock is the result of progressive minds. No man, not of a high order of intellect would think of improving anything.

The man who is satisfied with scrub stock must also be satisfied

with scrub prices and scrub profits.

Progression in aims, ambition and achievements, is a sure sign of culture and civilization, and the man who works along these lines is the man who succeeds.

Pure bred horses, pure bred cattle, pure bred swine, pure bred sheep, pure bred poultry and pure bred seed should be the ultimate aim of every farmer. When a man has these he is apt to have modern and correct methods of business, which inevitably lead to success and competence. Such a man will have a thoroughbred wife, and of necessity; thoroughbred -Thomas Owen children.



Only Pure Bred Stock Will Satisfy the Progressive Farmer

Beware of Crop-Killing Air Spaces!

Give your crop every chance to win by preparing the seed bed right. Get a plow that doesn't leave any air spaces—they are deadly. Air spaces between top-soil and subsoil cut completely the moisture from below. This means "burned up" crops with the first hot dry spell.

The Remedy

The Rock Island "C. T. X." Universal Plow Bottom is the only one that leaves no air spaces. It "walks" right through tame sod, trashy corn-stalks, tough gumbo, heavy clay, etc., and turns the slice clear over flat and smooth. It'll bury every scrap of trash. All solls are easy for the "C. T. X." Every furrow perfect, with a bottom as clean as a floor. Soll is better pulverized and saves one harrowing. The "C. T. X." is easier on the horses and lighter in draft than any plow with ordinary bottoms. It is easier for the user.

Rock Island (C.T. X.) Universal Plow

This wonderful plow is "different" from others. It's the greatest improvement since the first steel plow was invented. It has a bottom that is corkscrew-like in shape. Instead of throwing the dirt backward and wpward, it sends the dirt backward and DOWNWARD. No dirt is spilled; every foot of top-toil lies right against the subsoil—with no air spaces—nothing to cut off moisture.

Write for the Facts

The "C. T. X." saves man, horse, time and money—and gets perfect plowing results. Yet it costs about the same as ordinary plows. Join the army of farmers who are discarding old plows for the "C. T. X." and making money by doing it. Get all the facts. They're yours for a postal. Send your name and address today—now. (136)

ROCK ISLAND PLOW CO. 218 Second Ave. Rock Island, III.

MACHINES IN 1

A perfect seed bed is as important as to sow or pearl. The Western-Pulveriser, Packer and Mulcher makes a perfect seed bed and leaves a loose mulch on top to retain the moisture in one operation. It will double profits on crops, Made in 8 sizes. I and







When writing advertisers, please mention KANSAS FARMER.

HOG PRICES ADVANCE

Conditions Indicate Shortage of Fat Hogs Next Month-Stock Hogs now Safely Handled From Central Markets

A DVANCING prices for hogs and declines in the corn market are making feeders of hogs happy. Already the situation in the hog market Aiready the situation in the hog market is highly encouraging to producers. As indicated many weeks ago in these columns, the feeder who dumped hogs on the market prematurely the past fall now has plenty of reason for regretting his hasty action at that time. And there is a likelihood that the farmer who has no hogs to market in the part who has no hogs to market in the next six months will feel even more regret than now. Packers have been buying hogs rather eagerly, and the best advices obtainable on their attitude as regards the future market point to expectations of an important shortage beginning next

month.

That hogs have passed the \$8 mark in the face of the mild weather of this winter means that the situation is even more bullish than anticipated. "The market would be much higher now than it is if the weather were normal," said a shrewd hog salesman at Kansas City to the writer. "Mild weather restricts consumption of pork. As soon as a period of real winter comes, I expect to see the market take a spurt upward. Even under present conditions there is Even under present conditions there is a healthy demand for pork in the East, by the South, which is enjoying prosperity as a result of high prices for cotton."

According to official figures furnished exchanges, the aggregate stocks of provisions at Chicago, Kansas City, South Omaha, St. Joseph and Milwaukee at the opening of this month were 183, 265 401 payada company with 188 208 365,401 pounds, compared with 168,606,-170 pounds a year ago and 225,841,036 two years ago. While the holdings are apparently larger than a year ago, it should be remembered that the prospective supply of hogs the next six months is generally conceded to be much lighter.

In view of the action of corn, which is astonishing many grain dealers by its weakness, farmers ought to finish out the hogs on hand for market the next six months if possible. Argentine is pressing corn so heavily on American markets and the mild weather is making possible, such general accounts in ing possible such general economy in the use of the grain that all calculations regarding its price are being upset. It is said Argentine has a promise for a harvest of 240,000,000 bushels of corn this year—its crop is usually gathered in May—and it is trying hard to sell much to the United States, the duty of 15 cents per bushel heretofore imposed on imports having been removed. Argentine, it should be remembered, feeds very little corn, exporting the bulk of her output of this grain.

Of course, the farmer in Kansas who unloaded his hogs last summer or fall or the farmer who lost his pigs as a result of cholera may wonder what he can do now in order to get back into the hog business immediately so as to take advantage of the present outlook for prices the next six months. To these the KANSAS FARMER market correspondent would suggest the purchase of stock hogs at Kansas City, St. Joseph, Omaha or Sioux City—Each of these markets now handles stock hogs. At Kansas City, which is at present the leading stock hog market, prices of stock hogs range from \$8 to \$8.50. They can be bought of dealers at these prices. bought of dealers at these prices. These hogs, of course, conform to the strict state and federal regulations governing the movement of young porkers from public stock yards to farms, and have been vaccinated with anti-cholera serum.

Many farmers of the corn belt are still stock hogs at great public stock yards like Kansas' City. The Kansas City stock hog market was first established last May after the efficacy of anti-cholera serum had been demonstrated and after rules governing the trade had been agreed upon by state and federal veterinarians. Here are rules in effect on the Kansas City stock hog market:

The Kansas City Stock Yards Com-

pany shall set aside certain pens for the purpose of immunizing hogs, to be known as the Kansas City hog quarantine pens. The pens shall be under the control of the state authorities.

Pens shall be used as quarantine pens and for vaccinating such hogs.

Said stock yards company shall establish a suitable dipping plant for dipping hogs, which shall be under the supervision of state authorities.

All hogs must be dipped in the ap-

proved government dip before entering

All hogs shall be vaccinated with the serum-simultaneous method within 24

hours after entering pen.

All persons vaccinating hogs shall first obtain a permit from state author-

No serum or virus shall be used in said pens until the plant or company producing said serum or virus obtains

a permit from the above authorities.
Every person vaccinating in above yard or pens must immediately report in detail on blanks furnished for the purpose the condition of hogs at time of vaccination and results following therefrom.

All hogs entering the yards or pens must be held 21 days after vaccination. The owner or agent of said hogs shall report to the state authorities upon blanks furnished for the purpose the condition of said hogs at intervals of seven days.

Before removing any hogs from yards or pens, the owner or agent must first get a written permission to do so and must re-dip the hogs in an approved dip before removing them.

All such removed hogs must be un-loaded in cars or vehicles which have been thoroughly disinfected under the direction of state authorities.

If necessary, provisions must be made for feeding and watering hogs while en

Said hogs must be unloaded through non-infected chutes and not through common stock yards.

Every purchaser of hogs shall be requested to report to state authorities the condition of said hogs on the fifteenth and thirtieth day after reaching

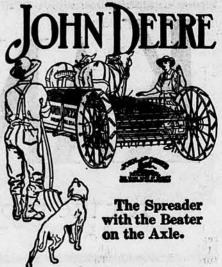
destination; report to be made on blanks furnished for the purpose.

"Too much 'red tape' in the foregoing rules?" Perhaps so, but even under these conditions Kansas City has already sent out thousands of stock hogs. Last sent out thousands of stock hogs. Last fall, when prices were much lower, dealers paid \$5 for pigs at Kansas City, immunized them to meet the regulations, and sold them at \$8 to \$9 per hundredweight. The stocks yards charges no yardage for the hogs while they are being held the required 21 days after vaccination, and the cost of feed is fully offset by the gain in weight the porkers made in this time. At present the thin hogs cost the stocker hog dealers around \$7 per hundredweight, so their profit is \$7 per hundredweight, so their profit is not so large. It is a noteworthy fact that the competition of stock hog buyers, made possible by the establishment of the new market, has advanced prices for unfinished porkers very perceptibly—sometimes as much as 75 cents per hundredweight.

That the new stock hog market is practical and that it promises to have a wonderful effect in stimulating hog production, careful students of the industry admit. dustry admit. Kansas City alone is sending stock hogs to Kansas, Missouri, Nebraska and Iowa. Some time ago Montana made a big purchase at Omaha. Eventually farmers may find it profitable to raise stock hogs for the Kansas City market. Havetafore the only de-City market. Heretofore the only de-mand for stock hogs was local, or from the few buyers in distant sections one was lucky enough to reach by accident.

Red Polled Butter Fat Record. A world's record Red Polled cow has been developed in Minnesota. During the year she yielded 13,000 pounds of milk and 605 pounds of butter fat. The latter is equivalent to about 726 pounds of commercial butter. The best previous record for one year was 515 pounds of butter fat, so that Pear's record is almost 100 pounds more than the previous one.

Improve Principal Roads First. Improve the roads first by which farmers must market their produce, then look to the betterment of the cross country roads. That is the advice of President Waters of the Kansas Agri-cultural College, who addressed a meet-ing of farmers at the state institute at Manhattan. "Ten per cent of the Kansas public highways carry seventy-five per cent of the total traffic," the presi-dent said. "Figures in the office of the State Highway Engineer show that it costs eleven million dollars every year to get the surplus products from the Kansas farm to the railway station. If this ten per cent of road were improved, a saving of three million dollars a year to Kansas farmers easily would be af-



Easy to load. Only hip high to the top and still has big drive wheels.

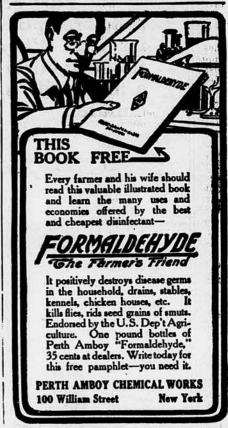
Here's the reason for the great strength, wonderful simplicity and good, everyday working qualities of the John Deere Spreader—

Beater and all driving parts mounted on the rear axle (patented). No strain on frame. No shafts to get out of line. No chains, no clutches, no adjustments. Only half the parts heretofore used on the simplest expeder. plest spreader.

Light draft because of few parts, the roller bearings and the beater and apron being driven directly from the

BOOKS FREE Every farmer who asks about the John Deere Spreader will also receive "Farm Manures and Fertilizers". This book tells all about manure, how to apply it and how to double the value of each load by a proper system of top dressing. To get it ask for our Package No. Y 13

JOHN DEERE, MOLINE, ILL.





Alfalfa Tiller That renovates, mulches, stim-ulates, without injury to plant. Catalog Free. Light Braft Harrow Co., Marshalltawn, In.

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 or questionably worded advertising accepted. Last forms are closed Monday noon. Changes in advertising copy and stop orders must be received by Thursday noon of the week preceding date of publication.



KANSAS FARMER

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

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

T. A. BORMAN, Editor in Chief; G. C. WHEELER, Live Stock Editor

CHICAGO OFFICE—604 Advertising Building, Geo, W. Herbert, Inc., Manager. NEW YORK OFFICE—41 Park Row, Wallace C. Richardson, Inc., Manager.

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

OUR GUARANTEE

EANBAS FARMER aims to publish only the advertisements of reliable persons or firms, and we guarantee our subscribers against loss due to frauduent 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.



THE WEEK OF INSTITUTES.

For years Kansas Farmer has been reporting the week of farmers' institutes at Manhattan through the use of a fea-ture page or two. To undertake to so fully report a week's meetings of each of the twelve or fifteen schools, is futile. of the twelve or litteen schools, is lattice. The good things taught could not all be printed in a half dozen issues of KANSAS FARMER if the paper should be wholly given over to such report. This Kansas Farmer if the paper should be wholly given over to such report. This year the report will be run through two or three months' issues and in which way much of the material may be presented more timely and in a more effective manner than heretofore.

This week of farmers' institutes is

the annual round-up, closing the spring and fall institute season, and is attend-ed by farmers and their wives and sons ed by farmers and their wives and sons and daughters from all parts of the state. The registered attendance was this year 934 persons, being only nine persons less than registered last year. Be it understood, of course, that each year several hundred people attend who do not register and who do not participate in the class work. The attendance this year compared with last indicates that the loss of a corn crop has little this year compared with last indicates that the loss of a corn crop has little effect on the Kansas farmer and his family when they recognize the desirability of acquiring additional information relative to their business. The week of relative to their business. The week of institutes this year was in every respect more successful than in past years. This is because the institute is each year better adapted to the practical needs of those in attendance and is the result of improvement as indicated by experience. Institute workers processes in their business. Institute workers progress in their business as do those engaged in other lines. It is evident, too, that those attending year after year have a determination to get more benefit from the week's pro-

get more benefit from the week's program and so do more consistent work and less visiting and sight-seeing.

The instruction given in all lines was thoroughly practical and represented the best thought of the time. Every conceivable range of farm practice was presented through the various schools. The best methods pertaining to better and best methods pertaining to better and more profitable farming, more intelligent animal breeding and better feeding and care of animals, the need for better seeds of farm crops and how to get them, the need for better adapted crops and a study of the conditions under which crops are to be grown, were some of the outstanding topics in which instruction

was given.

was given.

There is no agency in the state or without in such close touch with Kansas conditions as are those untiring workers employed in the several departments of the Kansas Agricultural College. The college has its men continually in the field investigating all those conditions which are important to the general farmer and stock grower. It is in touch with the thought and viewpoint of the farmer and it is absolutely necessary that the investigator and teacher know that the investigator and teacher know what the farmer is thinking about and why he does things after the methods the employs that the suggested changes in farm practice be most intelligently applied. The best investigational thought as well as the practical thought these men is presented in the work that he cannot, if he will, receive in benefit during a single year many, many times the value of the time and money expended in attending the institute. The farm woman is not forgotten,

either. As much attention is given her in this institute as is given the farmer and his son. All of those things close to the housewife's heart are given through brief practical courses. Some through brief practical courses. Some of these are cooking, sewing, home management, home decoration, pattern-making, care of children, diets, etc. Two hundred farm women were enrolled in

these courses this year.

KANSAS FARMER feels that the farmers' institute is of great value to the farmers of Kansas. The individual who gets the most out of the institute is he whose mind is receptive to those things someone else has been able to learn. The progressive individual will, if he can, always attend and take a part in his

local institute. If his time will permit, he will attend and get much from the state institute—more than anyone can put down on paper. This opinion is held, we know, by most of those who attend the annual meeting. The almost innumerable groups of those in attendance as they gather in the halls and on the grounds indicate the interest, the satisfaction and the pleasure obtained.

The farmers of Kansas should obtain Bulletin No. 191 which is the Kansas Agricultural College's latest publication relative to the life habits of the chinch bug and the methods of controlling the insect. This is a bulletin of seventy pages for general distribution among the farmers of Kansas. It is a summary of years of work done by the Kansas of years of work done by the Kansas Agricultural Experiment Station in in-Agricultural Experiment Station in investigating the chinch bug. It illustrates profusely the manner of constructing barriers for the protection of growing crops. This phase of protection against chinch bugs is dealt with in detail. The effectiveness resulting from the destruction of the chinch bug's winter quarters by burning as a means of control, is likewise fully explained. The essentails of the bulletin have been printed in Kansas Farmer from time to time, the facts having been given the press of Kansas by the Experiment Station. However, the subject is so thoroughly covered in Bulletin No. 191, and this being the first Bulletin No. 191, and this being the first time that the data have been brought together in one publication, warrants its careful persual by every Kansas

farmer. Readers will please note that this bulletin is the result of the investi-gational work of the Kansas Agricultural Experiment Station, that it emanates therefrom and not from the Entomologi-cal Commission of Kansas.

HOUSEHOLD LABOR SAVING.

If the women would demand more labor saving devices they would get them. "Women on the farm need labor saving devices as badly as do their husbands," says a writer in the Kansas Industrialist. "But perhaps no one realizes this so little as the women themselves. There is no need of the farmer's wife being old at the age of forty. If she will use her head, and perhaps her pocketbook, she can improve wonderfully pocketbook, she can improve wonderfully over the way her grandmother did

"How many women spend hours, that stretch into years in a life time, mixing bread. The man of the house in many cases would be glad to write a check to pay for a new bread mixer, if he only break its value. The way some women knew its value. The way some women do the weekly laundry work, with two or three boards and a tub, or with a or three boards and a tuo, or with a hand-run washing machine, is useless when there is a gasoline engine standing idle half the time. Some energetic member of the family can easily connect an ordinary washing machine to the belt of the engine and let the engine do the

"Then how often on a hot summer evening mother and the daughters stand in the kitchen and prepare a hot meal

for the men. If they would use a fire-less cooker—a 'sure enough' one or a homemade one—they could enjoy a pleasant evening without worrying about the meat and potatoes. Think about these things. And then buy some."

. . . SCHOOLS TO THE COUNTRY.

The farmers of the vicinity of Mulvane, Kansas, are to be congratulated upon the success of their efforts in securing the first extension school in agri-culture to be held in the state. Seventyfive farmers have enrolled for the week's school at Mulvane, January 19 to 23, inclusive, and have paid the required fee of \$1 each. All of the expenses of the school are to be paid from this fee and

by local contribution.

The school will be handled by the following: A. S. Neale will lecture on all those subjects pertaining to farm dairying; L. E. McCall will discuss soils and tillage during three of the five days of the school, and Dean W. M. Jardine will discuss crops and crop management will discuss crops and crop management two days; Dr. F. S. Schoenleber will discuss diseases of dairy cattle during three days of the school. Each of the above named gentlemen is a member of the Kansas Agricultural College force and it would be impossible for the Mulvane school to have more competent instructors.

Later a similar school will be con-ducted at Wakeeney for the benefit of farmers in the western section of the state. This school will be in charge of W. A. Boys, demonstration agent for west central Kansas, and Ray Gatewood, west central Kansas, and Ray Gatewood, assistant in the Department of Animal Husbandry of the Kansas Agricultural College. This school will be run for five days and Mr. Boys will handle the subjects of crops, soils and silos, and Mr. Gatewood will discuss feeding, breeding and management of beef and dairy cattle and hogs.

tle and hogs. There is no question but that each of these schools will be successful from every point of view. There is no doubt but that the attendance will be as large

but that the attendance will be as large as the facilities for giving thorough instruction will permit. These schools are typical of another step in the progress of carrying the best of agricultural teaching to the country. It is a constructive educational work which cannot fail to produce satisfactory results and which we hope can be extended within a few years to each county in the state.

While the people of Kansas are thinking about many, many thing to their advantage, they should not overlook the necessity for improving the rural school. There have been as great developments in the application of educational methods designed to improve rural school condidesigned to improve rural school conditions, as there have been in methods looking toward the improvement of agriculture or other big things which touch the farmer closely. In other states the one-room school is rapidly passing. It will pass in Kansas. Professor E. L. Will pass in Kansas. Professor E. H. Holton of the Kansas Agricultural College, says: "The day of sentiment for the little red school house on the hill is past." He defines the rural problem in Kansas as "the problem of creating and keeping alive out in the open country, conditions and institutions which will make the young people willing to stay on the farm." He believes this is to be accomplished through the rural school—not as it is found today—but as it will be found in the future. He favors new and practical courses of study and consolidated school system, Kansas acting also as a rural center. ranks twenty-fourth in the efficiency of her schools among the other states and twenty-fifth in the salaries she pays her teachers. We do not know of a locality in which the consolidated rural school is in operation, the school patrons of which locality would return to the one-room school. We are confident that the consolidated school is the school of the future. Sentiment in favor of a school for each district as now organized, must give way for a better school and a better education. Eventually it will.

"Peanut Politics" - Sure Enough

HE newspapers of Kansas need not worry. There are no instructions to the heads of departments or others of the Kansas Agricultural Colto the heads of departments or others of the Kansas Agricultural College which will have the effect of reducing the amount of news or other matter emanating from that institution for the information of the public through the press of the state. There is no order which will withdraw from any Kansas paper any information or cut off any source of information which it has heretofore enjoyed.

Last week's Mail and Breeze, carrying out its policy as a political paper, contained an article under the heading, "Peanut Politics," from which these extracts are made:

extracts are made:

"No state employe of the college is to be permitted hereafter to appear

"The Mail and Breeze regrets this action—it regrets it exceedingly, but it does not intend to let politics prevent it from giving the farmers any information it can obtain for them from the college. This may not be very much, because the heads of the college departments frankly confess them selves embarrassed by the board's attitude."

For years the Mail and Breeze has carried at the head of its editorial page the names of a considerable number of the heads of departments of the Agricultural College as "contributing editors," and, as stated, were claimed by it as a part of its "staff."

Those Kansans interested in the administration of public matters and in the actions of its public men, should understand that the members of the Agricultural College and Experiment Station force carried as a part of the Mail and Breeze editorial staff were not members of such staff more than as a contributor to this paper."

Mail and Breeze editorial staff were not members of such staff more than-they were members of the staff of any other Kansas paper to which their

The Mail and Breeze, in so far as this part of its "staff" is concerned. The Mail and Breeze, in so far as this part of its "staff" is concerned, has been for years operating under false pretenses—it has assumed the right to use the names of these men as editors and in so doing has imposed upon and taken advantage of those whose names it used. This much should be said in defense of those untiring workers of the Kansas Agricultural College who supply, through the press of the state, much information of value to the agricultural interests of Kansas.

The use of these names was evidently a matter of considerable importance to the Mail and Breeze. It has been said that its agents solicited subscriptions on the strength of this important part of its editorial force, representing that through these men it had great advantage over other publica-

senting that through these men it had great advantage over other publica-

senting that through these men it had great advantage over other publications in securing valuable matter.

It is not a matter of surprise that the Mail and Breeze feels keenly the loss of this assumed privilege. It is manifestly just that it be denied the improper use of the names of those men who, by their acts, have shown that their duty is to the whole Kansas people.

The Mail and Breeze says, "The heads of the college departments frankly confess themselves embarrassed." We fail to see how embarrassment resulting from such cause can be greater than that which has existed for years. What could be more embarrassing to these men than to find their articles, written for and mailed to the Kansas press generally, being featured by the Mail and Breeze as "written expressly for" that publication. If there is any embarrassment on the part of these gentlemen, it is such as has been brought on by the Mail and Breeze intimates that in the future it may get little editorial material from the Agricultural College. Such intimation is pure buncombe and is made only to elicit sympathy on account of an alleged great injustice. If the Mail and Breeze ignores the material it receives, free of

injustice. If the Mail and Breeze ignores the material it receives, free of cost, from the Agricultural College, such action will be for no purpose other than that of creating political thunder and incidentally making good its bluff.

GENERAL FARM INQUIRIES

Something For Every Farm-Overflow Items From Other Departments

ONE of our correspondents from Clark County, Kansas, writes to ask what Holstein cows not over six years of age, to be fresh in the spring, should cost.

There is probably no class of live

spring, should cost.

There is probably no class of live stock in Kansas in such active demand at the present time as well-bred dairy cattle. The basis of this demand undoubtedly is that there is no domestic animal which will so quickly begin to return an income on the money invested as the milk cow. Lack of ready money in years in which the ordinary cash crops have fallen short of their normal yield invariably directs attention to the crops have fallen short of their normal yield invariably directs attention to the revenue-producing possibilities of the milk cow. Owing to the great demand for well-bred milk cows the price is bound to be high. They are being shipped in by the carload from other states.

At a recent farm sale it has been reported to us that 18 head of ordinary dairy cows sold at an average of \$100 per head. One cow in this sale brought \$146, another \$145. Perhaps these values may be a little exceptional, as this

ues may be a little exceptional, as this sale was reported as having been one of the best farm sales ever held in that part of the state, the location being Sedgwick County. Dairy stock is in exceedingly active demand through this territory, and probably the prices paid were as high or higher than would have been received in other communities where the local interest in dairying is not quite so great as it is in this territory surrounding Wichita.

Pure-bred cows of the Holstein breed of course sell for much higher prices. It would be impossible to buy carefully selected registered young cows for less than from \$300 to \$500.

At the recent dairy meeting in Manues may be a little exceptional, as this

than from \$300 to \$500.

At the recent dairy meeting in Manhattan, when the high-producing cows of the Agricultural College dairy herd were being shown in the rank, Professor Reed was asked what values could be placed on one of the cows having a phenomenal record. Professor Reed answered by saying, "A cow like that would pay interest on a \$2,000 investment." Of course these are exceptional cows.

Our correspondent is interested also in knowing what is the average butter fat production of cows of the Holstein breed when given good care. The Holstein-Friesian Register has compiled some of the records of Holstein cows, and these figures show that the 25 highest records of aged cows showed annual butter fat records of 725 pounds to 1,058 pounds. The 25 highest records of four-year-olds showed annual butter fat productions reaching from 511 pounds to 962 pounds.

There are low-producing cows in all breeds, but in the well established dairy breeds, of which the Holstein is repre-sentative, the number of unprofitable cows is much lower than in breeds which have not been bred for milk production for so many years.

It would not be a difficult matter to It would not be a difficult matter to get together a herd of Holsteins having the capacity to produce 300 to 400 pounds of butter fat per year, and there are dairy herds which have attained that mark. Cows having the capacity for producing these large quantities of butter fat only make these returns when provided with a sufficient quantity of proper kinds of feed and given the proper care.

Kafir Seed for 1914 Crop.
One of our correspondents, C. E. O.,
of Saline County, writes to inquire
where to obtain the best kafir seed for

this year's planting.

The seed of kafir and other spring grains will be extremely scarce this year. Only a few here and there over the country succeeded in maturing seed last year. In all probability the seed which was produced here and there over the country will be largely used locally. Our correspondent has been referred to parties having seed this year.

Our correspondent reports that he has some old seed raised in 1912 which will germinate, but that the heads are rather small. In all probability he cannot do better than depend upon this seed for better than depend upon this seed for his 1914 crop. In order that he improve the type of the kafir he is growing it would be a good plan to try every way possible to secure a small quantity of seed which has been carefully selected and bred for better type and yield.

Correspondence with the Manhattan

and Hays experiment stations will undoubtedly enable our correspondent to secure small quantities of improved kafir seed which may be used in this

improvement work. Our correspondent is undoubtedly interested in the improving of the sorghums, since he is securing a copy of Kansas Farmer sorghum book which has been prepared by Mr. Borman. There are wonderful possibilities along the line of improving the kafir and other sorghum crops. The farmers of Kansas sorghum crops. The farmers of Kansas have been greatly neglecting their operations along this line.

Those interested in making progress can undoubtedly accomplish much by making a careful study of the subject and starting on improvement work on their own farms. The book referred to will be a wonderful help along this line.

Molasses Feeds and Tankage.

J. F., one of our correspondents in Jewell County, writes concerning a comparison between Champion molasses feed and tankage. He also wishes informa-tion on oil meal as a purchased feed for hogs. Feeds of this kind purchased on the market should be studied largely from the standpoint of the digestible

in the form of sugar instead of starch as in the case of corn, and for that reason molasses has an appetizing effect in connection with the other feeds with

which it is commonly fed.

Tankage, which our correspondent asks to have compared with the molasses feeds, is a feed of entirely different character. No tables are available giving complete analysis of these packing-house by-products, such as the tankage or meat meal which are being sold for feeding purposes. These feeds as they feeding purposes. These feeds as they have been analyzed have been found to have been analyzed have been found to be fully up to the guaranteed composi-tion. This guarantee in the case of some of the products is 60 per cent crude protein and from 8 to 10 per cent fat. Some furnish a guarantee also on the amount of mineral matter contained, varying from 6 to 15 per cent. It will be seen that these feeds contain very large amounts of crude protein. Such a feed cannot be used as a substitute for a feed having the composition of the Champion molasses feed. The tankage and there need be no apprehension that the ration containing tankage will be

the ration containing tankage will be lacking in that respect.

The different producers of feeding tankage or meat meal make different guarantees on the per cent of mineral contained in their products. Some guarantee as high as 15 per cent mineral matter, while others guarantee a minimum of 6 per cent.

imum of 6 per cent.

The hog which has had a diversified diet, such as should be the case on every well established hog farm, will secure an abundance of mineral matter in the foods commonly supplied. Where alfalfa hay is kept continually before hogs throughout the winter, and where they have access to clover, alfalfa or other pasture, there need be no fear that they will fail to develop sufficiently strong bones. Only where hogs are shut up in a dry lot and kept on a diet consisting largely of corn is there danger of their failing to develop sufficient strength of bone. well established hog farm, will secure

Landlord and Tenant Again.
Our correspondent, H. H. G., of Osage County, writes to Kansas Farmer regarding some of the articles we have been printing on the relations existing between landlord and tenant. We are very glad indeed to receive letters along this line.

Many wrong practices have resulted from the systems which have gradually developed in the handling of rental farms. Our correspondent believes that farms. Our correspondent believes that one of the reasons the short term lease has become so prevalent is that the Kansas law permits a party holding a lease on a farm for longer than two years to sublease, thus giving a tricky or dishonest renter the opportunity for defrauding the landlord in the payment of his rental. Perhaps there may have been some cases where the owner lost money in this manner, due to the dis-honesty of the tenant. We hardly be-lieve, however, that this provision of our law is responsible for the great prevalence of the one-year lease which is so universal in the handling of farm

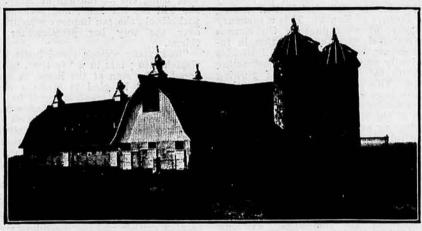
we certainly ought to have a better we certainly ought to have a better system, whereby the landlord would be protected, and such a system as will give the intelligent farmer, who may of ne-cessity be a renter, opportunity to real-ize the largest return from his ability as a farmer. With the one-year system in effect there is little opportunity or incentive for the well trained farmer to incentive for the well trained farmer to use to the fullest extent his ability in that line. The result has been that neither landlord nor renter has received the fullest returns from their mutual investments.

KANSAS FARMER would like to hear more as to the views of those who are giving this important subject consider-

Cattle and Meat Imports.
Imported cattle inspected by the Bureau of Animal Industry, U. S. Department of Agriculture, during October and November, 1913, numbered 209,327 head, as compared with 72,420 for the corresponding period of 1912. All came from Canada and Mexico except 447 head of pure-bred cattle, for breeding purposes, imported from Great Britain. The imimported from Great Britain. The imports were classified as follows: October—for immediate slaughter, 73,166; as stockers and feeders, 54,565; for dairy and breeding purposes, 739; total, 128,470. November — for immediate slaughter, 39,098; as stockers and feeders, 41,548; for dairy and breeding purposes, 223; total, 80,857. The bulk of the slaughter cattle came from Canada, while Mexico furnished over four-fifths of the stockers and feeders.

of the stockers and feeders.

Imported meats and meat-food products inspected during October amounted to 6,000,735 pounds, and in November to 11,792,576 pounds, making a total of 17,793,311 pounds for the two months. The bulk of this consisted of fresh and refrigerated beef, 16,082,578 pounds. There were 275,847 pounds of other fresh and refrigerated meats. The remainder consisted of cured and canned meats, consisted of cured and canned meats, 1,169,517 pounds, and other products (sausage, compound, and oleo stearin), 265,369 pounds. Of the total, Canada furnished 8,098,197 pounds, Argentina 6,209,700 pounds, Australia 2,725,142 pounds, Uruguay 559,843 pounds, and other countries much smaller quantities. Of these imports there were condemned in October 4,690 pounds, and in November 14,123 pounds, or a total of 18,813



NEW DAIRY BARN, ST. MARYS COLLEGE

HE unusually handsome and well constructed dairy barn which is shown in the cut above has recently been completed at St. Mary's College, located at St. Mary's, Kansas. This barn occupies a splendid site on the brow of a hill, from which the surrounding country can be seen for many miles in every direction. Also the barn can be clearly seen from almost any point in the surrounding countryside.

This building is of solid concrete up to the second story, plastered smooth inside; the second story being of frame.

The main cow barn is 108 feet long by 42 feet wide, an extra wide feeding alley being provided, the purpose being to drive through and feed from the wagon. The other section of the barn is of the usual width—36 feet—with a length of 104 feet.

The cow barn proper has provision for 56 steel cow stalls; the other portion of the barn has 48 cow stalls—104 in all.

Plenty of light, a thorough system of ventilation, and a carrier outfit of the most up-to-date kind, help to make this barn one of the best in the country. shown in the cut above has recently been completed at St. Mary's

The college authorities write that they could not do without the silos, having used one of 500 tons capacity for the past ten years. The two new silos are 16 x 56 feet in size and are constructed of vitrified hollow clay tiling carefully reinforced. They were filled this year with very green immature corn, but there was no spoiled silage outside the usual amount on top. Over 60 cows are being milked at the present time, most of them Holsteins. Alfalfa and ground corn with the silage is the ration fed them Holsteins. Alfalfa and ground corn with the silage is the ration fed.

nutrients which they contain. The Champion molasses feed is claimed to contain 50 per cent molasses. With this molasses is combined several kinds of grains and concentrates. The following analysis of this feed has been made at one of our experiment stations: Water, 3.69 per cent; ash or mineral matter, 7.91 per cent; crude protein, 9.67 per cent; fiber, 6.75 per cent; carbohydrates, 65.09 per cent; fats, 6.87 per cent. This feed, as will appear from this analysis, is approximately balanced correctly for feeding as a complete grain ration for cattle

Large use is being made of the molasses feeds this year on account of the shortage and high price of corn. In the character of the nutrients it contains the character of the nutrients it contains molasses very closely resembles corn. According to the analysis given in Henry's "Feeds and Feeding," Porto Rico molasses contains 74 pounds total dry matter per 100 pounds, and in digestible nutrients 6.1 pounds crude protein and 68.7 pounds carbohydrates per 100 pounds. Corn contains in digestible nutrients per 100 pounds, according to the same authority, 7.8 pounds of crude protein, 66.8 pounds carbohydrates, and protein, 66.8 pounds carbohydrates, and 4.3 pounds of fat. It will be seen from these figures that in the protein and carbohydrates the two feeds are quite similar. The molasses, of course, does not contain any of the fat or oil found in corn. Its carbohydrates are largely

is used only as a means of supplying some additional protein to a ration lacking in that material. Oil meal is a more expensive source of protein than tankage, since 100 pounds of old process meal contains but 30.2 pounds of crude protein. This meal, however, contains 32 pounds of carbohydrates, which nutrient is entirely leaking in the tankage. is entirely lacking in the tankage. At the commonly quoted prices on the mar-ket and simply as a source of protein to balance the ration, the tankage will be the cheaper of the two feeds to buy, since a half pound of tankage would supply as much of the protein as a pound of the oil meal.

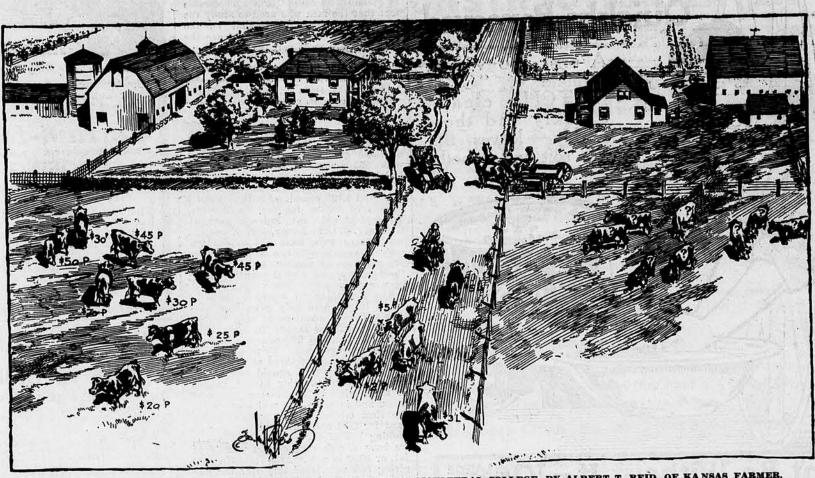
Mineral Matter in Tankage.

One of our correspondents writes to us to inquire concerning the mineral elements contained in tankage or meat meal, which is being used to a considerable extent in hog feeding. The pri-mary purpose in using tankage is to supply the protein necessary to properly balance a carbonaceous grain ration. The lack of protein in a straight corn diet is mainly responsible for its failure to pro-

duce the best results.

While it is true that a sufficient amount of mineral matter is of importance in a hog diet, lack of a proper amount of protein produces much more serious results than limiting the amount of mineral matter supplied. The tankage, however, contains mineral elements,

KEEP PROFIT MAKING COWS



DRAWN FOR THE EXTENSION DEPARTMENT, NORTH DAKOTA AGRICULTURAL COLLEGE, BY ALBERT T. REID, OF KANSAS FARMER.

FARMER A. (in auto) "Good morning neighbor! Fine day this!"

Farmer B. (in wagon) "Yes, tolerable. Going to quit milking?"

Farmer A. "No, not entirely. I'm just going to quit milking for fun."

B. "Well, how's that?"

"These cows are eating their heads off."

B. "They are, eh! But how do you know?"
A. "I just weigh and test the milk from the herd and keep a record. Each cow gets credit

for the milk she produces, also for the calf and the manure, then she is charged for the cost of

B. "But isn't that an awful lot of work?"

A. "Well, it does take a few minutes a day, but I believe I get a dollar an hour for this work. You see it makes all the other work count. Before I kept records I spent hours of labor on these cows and they didn't even pay for their feed. The labor was all wasted. It alone amounts to about \$20 per year for each cow, to say nothing of the feed she consumes."

B. "What is the matter with that brindle?

A. "Yes, she made a profit of \$5, but what is the use of keeping such a cow when you can just as well have one that nets \$20 or more? These cows I'm selling averaged a loss of \$2 each last year, while those in the pasture averaged \$39.37 profit. How much profit do your cows make?"

B. "Well, let me see; I really don't know, but I am going to."—W. C. Palmer of N. D. A. C.

A. S. NEALE, of the Extension Division of Kansas Agricultural College, gave a splendid address before the Kansas Improved Stock Breeders' Association. The theme of this attributed by the

Breeders' Association. The theme of this talk is strikingly illustrated by the heading of the poster shown above, which is being used by the Extension Department of the North Dakota Agricultural College. Mr. Neale said:

One of the first things for the man to learn who would build up a dairy herd is to know the dairy type. The man who neglects this can never expect to reach the highest success. The most successful breeders are the ones who are careful to stick most closely to type. Briefly, a cow of dairy type may be described as one having a long, deep, wide body, giving her large capacity for feed, combined with thin covering of flesh, light hams, thin shoulders, lean neck, wide loins, long level rump, and large, well-balanced udder with large, long, crooked milk veins. In addition to this she should have a bright, clear, prominent eye, a mellow skin, a soft coat of hair, and a medium fine bone. There are various so-called fancy points about hair, and a medium fine bone. There are various so-called fancy points about the different breeds which differ somewhat with each breed, but in general all high-producing dairy cows of whatever breed have this same general type. A cow of this type as a rule has the ability to consume a large amount of feed and a tendency to turn that feed into milk. IMPORTANCE OF PRODUCTION RECORDS.

In following the dairy type in developing the dairy herd we must not neglect the importance of selecting for produc-tion. It sometimes happens that cows of excellent dairy type are poor producers. This, however, is somewhat unusual, but the scales and Babcock tester are the dairyman's court of last resort, and they should form a part of the equipment of every dairy farm. Nothing will pay so large an income on the investment as will a pair of scales and a Babcock tester costing \$10. Along with this outfit must go a record sheet where records can be kept of the milk produced from each cow and the results of the butter fat test, which should be

made from two to four consecutive milkings, at least once a month. While it is not necessary to weigh each milking in order to arrive at a fairy accurate estimate of the amount of milk produced for the year, I believe the dairyman who takes the small amount of time necessary to do this will be amply repaid.

repaid.

One of the first things that every breeder should learn is the old law of breeding that "like begets like." It is individuals. not enough to consider the individuals not enough to consider the individuals alone with which we would make up our herd. We must go behind them to their ancestors. A well-bred dairy animal is one whose ancestors have, for generations back, been animals of the type which is ideal for the purpose of dairy production. The nearer these ancestors come to this ideal, and the further back such high-class ancestry can be traced. such high-class ancestry can be traced, the better the breeding of the individual. This means that we must look to the milk and butter fat production as well as to the breeding record of the animals studied. studied.

Development of the dairy breeds was comparatively slow until the establish-ment of advanced registry of official records, which followed the invention of the Babcock tester for butter fat 20 years ago. This made the keeping of records comparatively easy and led the different record associations to organize what has since become famous as advanced registry work. Previous to that time breeding had progressed very slowly, as there was no easy accurate way of establishing official records. The way of establishing official records. The average production of the pure-bred herds of the country today has been increased perhaps 25 per cent in the last 20 years, due to the advanced registry work, made possible by the Babcock tester, thus making possible the use of sires from the best cows.

There is probably not a herd in our state of any size that does not contain a considerable number of unprofitable cows. It has usually been found that when herds are tested out for the first time about one-third of the cows are not

time about one-third of the cows are not paying for feed, one-third are barely

doing so, and the other one-third are making the profit. That has been found to be the condition in the herds that are to be the condition in the herds that are now paying for feed and expenses. With many of the herds not doing this, we are quite sure that there is in those herds more than one-third in the non-paying class, and that probably only a small percentage of the cows kept in Kansas pay cost of feed and care.

WHAT ONE ASSOCIATION HAS DONE.

The man who is milking a cow cannot afford to milk and feed her unless she gives a sufficient amount of milk to

she gives a sufficient amount of milk to pay for the feed, care and labor he puts upon her. A pair of scales and a Bab-cock tester will reveal exactly this concock tester will reveal exactly this condition and will open the dairyman's eyes in a way nothing else can do. For example, a cow test association was formed in Dickinson County a year ago, with 379 cows included in the herds under test. Of these cows 133 completed a year's work, some having freshened during the year and so could not have a 12-month test, while a great many were sold during the year as not worth keeping. Those completing the year's work were divided into two groups at the end ing. Those completing the year's work were divided into two groups at the end of the year. Sixty-five produced an average of 7,400 pounds of milk and 311 pounds of butter fat each, consuming an average of \$40.66 worth of feed; 68 produced 4,872 pounds of milk and 186 pounds of butter fat, consuming \$30.99 worth of feed per cow. The best cow of this association produced 546 pounds of worth of feed per cow. The best cow of this association produced 546 pounds of butter fat, 13,698 pounds of milk, and consumed \$65.91 worth of feed. The poorest cow in the lot produced 59 pounds of butter fat and 1,418 pounds of milk, costing \$33.23 for feed. When of milk, costing \$33.23 for feed. you compare these two records, or compare the better one with the record of the average Kansas cow, producing, as near as can be estimated, 3,405 pounds of milk and 121 pounds of butter fat annually, you can get an idea of the annually, you can get an idea of the value, from the economic standpoint, of the better cow. Figuring her returns at 25 cents per pound of butter fat and 30 cents per hundredweight for skim milk, we have a net return of \$104.83 over feed cost, while in the case of the

other cow the return above feed cost is other cow the return above feed cost is \$8.61. In other words, it would require 12 cows of the latter class to produce as much profit over feed cost as this one best cow. If to the cost of feed we are to add all the other expenses, such as labor, interest on the investment, deterioration, risk, etc., which expenses do not amount to less than \$30 per cow per year, we would find that the poorest cow would leave us \$21.39 in debt, while the best cow would still give a profit of \$74.83. of \$74.83.

of \$74.83.

CASH VALUE OF BIG PRODUCES.

The question at once arises as to what the value of such a cow, the best one mentioned, is. I may say that the owner of this cow has refused \$150 for her, and she is only a grade cow. If we figure her value as an ordinary business investment is figured, we will find that it runs into an enormously high figure. If there were no risks attached to her life and she would continue living and life and she would continue living and life and she would continue living and producing this amount year after year, it would be possible to capitalize her at \$1,247.16, figuring on a basis of 6 per cent on our money. While there is considerable risk to run and this cow herself will only live a matter of five or ten years longer, yet it is perfectly safe to assume that she will reproduce herself at least once, if not several times. self at least once, if not several times, during her lifetime, and that she can be made a permanent investment if by judicious breeding we are able to produce from her daughters of equal value. Is it not reasonable then to estimate her value considerably above that at which she would ordinarily sell? On the other hand, if the average cow produces a loss of \$13 and over per year, is it not folly to pay more for her than she is worth for beef, and is it a good business proposition to keep a lot of such cows on our farms?

I realize that there are not enough of the better class to go around. This one cow was the pick of 379 head of cattle, but she is a grade cow, the result of not very many years' work in selection and breeding, and her equal can be pro-duced from cows found all over Kansas

[Continued on Page Six.]





Your Team Can Do More Work

Old Rellable Peter Schuttler Wagons

Stand Up in any Climate The One Best Wagon

Our Latest Improvement is The Peter Schuttler Roller Bearing Wagon that runs ½ Lighter.

Peter Schuttler Co. Chicago



The Hinge-Door Silo

Has no equal in quality of material used in its construction or in matter of safety and convenience in feeding.

Built of best wood staves obtainable. Strong, easy to climb ladder and a perfect anchorage system.

Doors Open and Close on Hinges Absolutely air tight and without friction. Prevents freezing in winter and drying out in summer. Makes better

quality silage. plains our offer on Lansing Silos and Silberzahn Silage Cutters.

Address nearest office, Dept. 21 . **Beatrice Creamery Company** Topeka, Kans.

WRITE FOR FREE BOOK NOW

MOLASSES FEED

A CATTLE FATTENER MADE OF CAME MOLASSES AND ALFALFA MEAL

ECONOMICAL - WHOLESOME THE BEST SUBSTITUTE FOR CORN

ASK FOR OUR SPECIAL PRICE TO FEEDERS.

U. S. STOCK FOOD CO.

Centropolis Station, KANSAS CITY, MO.

Save \$50 to \$300

I absolutely guarantee to save you \$50 to 500 on any Galloway gasoline engine. Made in see from 13-6 h.p. to 15 h.p. My famous 5 h.p. engine without an equal on the market—sells for \$39.50 for — without an equal on the market—sells for \$99.5 the mext 50 days only! Buy now! Same size \$225 to \$300 through your dealer. Think of it! Over Gallows! Offer I make you and all giving satisfaction, I saved states.

Get My Catalog and Low Direct Prices

Write me before you buy any
other style or make, Get my catalog and low, direct price on the
famous Galloway line of frostproof, water cooled engines. Free
Service Departmental your dissees. My special lift offer will hatp
oreast a memory price when with WILLIAM GALLOWAY COMPANY,

Keep Profit Making Cows (Continued from Page Five.)

today. If such cows as this can be preduced by a breeding up process, is it not the wise thing for every man who wishes cows for dairy purposes at all to begin to grade up at once? It is a deplorable to grade up at once? It is a deplorable fact that the men who need to study the breeding problems most—that is, the farmers with the poorest cows—are the ones who are most careless about it. I wish to refer you to what has been done along this line in Wisconsin. Two years ago a state-wide cow competition was ago a state-wide cow competition was beld in that state in which authentic held in that state in which authentic records were kept, under experiment sta-tion control, of 395 cows for one year. tion control, of 395 cows for one year. Fifty of these cows were grades; five were Holsteins; 24 Guernseys, and 21 Jersey grades. The average production of these grades was 16,879 pounds of milk, 555 pounds of butter fat for the Holsteins; 10,073 pounds of milk and 475 pounds of butter fat for the Guernseys and 6,890 pounds of milk and 264.5 seys, and 6,890 pounds of milk and 364.5 pounds of butter fat for the Jerseys. The cost of feed was: Holstein, \$101.26; Guernsey, \$71.12; Jersey, \$62.45, and the net returns were from \$50 to \$81 per control of the produced by cow. If such results can be produced by the grading up process in Wisconsin, there is no reason why it cannot be done here in Kansas.

The wise thing for a man to do is to retain in his herd only cows that produce sufficient amounts of milk to pay for the feed and labor. In most cases that will be about 200 pounds of butter fat annually per cow. By mating these cows with good pure-bred sires there is no reason why this should not be increased in the offspring to 300 pounds of butter fat in two accesses in most of butter fat in two crosses, in most cases, and in some this will result from the first cross. If 200 pounds of fat pays for feed and care, and the average milking life of the cow is eight years, we have a difference of 800 pounds of fat, or \$200 in net returns from the cow giving 300 pounds of fat, over the one giving 200 pounds of fat. In a herd of ten cows of this sort this would amount ten cows of this sort this would amount to a profit in ten years of \$2,000 over that of the original herd. These figures are not fancy, but have been obtained so many times that we know that they are very conservative. But that it not all; these 300-pound cows will produce calves worth much more than the 200pound sort.

VALUE OF HIGH-CLASS SIRE. .

What, then, is the pure-bred sire worth that will bring about such results, and is it not a fact that poorly-bred sires should not be used at any cost? Many farmers say they cannot afford to own high-class bulls, but the fact is they cannot afford to use any other kind. go on producing cows that will never pay for their keep when we can have the profitable sort? In selecting the sire to mate with grade cows it is fully as important to look for high breeding as in selecting the sire for the pure breed important to look for high breeding as in selecting the sire for the pure-bred herd. In fact I sometimes think it is more important. The man with the grade cows needs the improvement more than the man with the pure-breds, and the better the sire, the greater the improvement. Consequently he should not hesitate to pay a few dollars more and get the best. There are, in the state, a great many men who have only a few cows, and when they have used the scales and Babcock tester for a year will have still fewer, who do not feel that they can afford to buy a \$100 bull to have still fewer, who do not feel that they can afford to buy a \$100 bull to use in their herd. Suppose this sire only increases the production per cow 50 pounds of butter fat per year; that we only get five cows from him, and they are in milk six years each, our gain is 1,500 pounds of butter fat, worth \$375. We can afford to pay \$100 for him, give him away when through with him, pay interest on investment and cost of keep for five years, and still have \$100 profit. I believe that every man, even though he has not more than three or four cows and who is enthan three or four cows and who is endeavoring to build up his herd, can well afford to pay \$100 for a well-bred sire to mate with these cows. But, this is not necessary in most cases, as there can usually be found enough men in one community who will go together and purchase a sire to be used by the community, and in this way very much reduce the cost to each individual.

FEEDING MUST GO WITH BREEDING. I cannot close without a word on the subject of feeding. I believe that our cows that now produce 120 pounds of butter fat can, by good feed, proper shelter and systematic care, be brought up to 200 pounds of fat per year. The best of breeding will be useless if good feeding does not go along with it. It is especially necessary that this begin at the birth of the calf. More can be done toward making a profitable cow by feeding the heifer well than in any other way. Results have shown that



The blue sky isn't a good roof for farm machinery. Boof your barn and machine shed with

Certain-teed

ROOFING eranteed for 15 years and will last longer

There is no test by which you can know how long a roof will last. Your safeguard is the manufacturer's responsibility.

Your dealer can farmish Certain teed Boofing in rolls and shingles—made by the General Boofing Mfg. Co., world's largest roofing manufacturers. East St. Louis, III., Marseilles, III., York, Pa.

This Girl Could Not Walk or Stand -at the age of four

Pink Vosburg, daughter of Mrs. Sula Vosburg, Bedford, Ia. Mrs. Vosburg brought her daughter to this Sanitarium January, 1911, for treatment of Infantile Paralysis. The child could neither walk nor stand alone, but could only crawl on her hands and knees. She was here eight months; now walks, goes to school and gets about splendidly. Mrs. Vosburg will affirm the above.

This is not a selected case, nor are the results unusual.

The L. C. McLain Orthopedic Sanitarium

How To Buy

Davenport "Iowa" Silo

New Silo Book — Just Published — FREE

to engrone on request. Book hrimful of silare and silo facts ros cupit to know. Treats whole subject in a far, frank and impartial manner. Get it and be guided correctly in your silo purchase. Ask for new edition when writing. Address DAVENPORT BRICK & THE COMPANY

Manure Loader and Scraper



You can load 50 loads of anything in a day with one team Save your time and muscle. Indestructible steel frame. Reasonable cost. Soon pays for itself. Portable. Handles stack bettoms, stalks, mar description and price.

nure, sand. Write for description and price.

ANDERSON MANUFACTURING CO.,
323 Lord Street. Osage City, Kansas.

THEBESTO PURE HONEY

Delicious flavor, light amber in color, heavy body, just as it comes from the comb. One can, 60 pounds net weight, by freight, \$5.50, or two cans packed in a case, \$16.00, f. o. b. Denver, cash with order. Satisfaction guaranteed or your money back. Write for booklet and small sample which will be mailed to you free. Buy direct from the largest producers, a co-operative association of bee-keepers.

COLORADO HONEY PRODUCERS' ASS'N, 1447 Market St., Denver, Colorade.

When writing advertisers, please mention Kansas Farmer.

ERECT THIS SILO YOURSELF NOW AND SAVE COST OF CONSTRUCTION LATER

You Buy Everything of Your Local Lumber Dealer

The Thermos S

Only Silo Built on Principle of Fireless Cooker

A Combination Wood and Reinforced Concrete Silo, Possessing Best Features of Both.

DOUBLE WALL WITH DEAD-AIR SPACE BETWEEN. 25 per Cent Cheaper than any other good Silo now on the market.

The silo so constructed that all moisture contained in green ensilage and all heat of fermentation is retained in the silage, thus steam-cooking the feed and converting all nutrients contained in material into palatable and easily digested food.

NO LOSS OF SOUR SILAGE AROUND EDGES OF SILO due to air leakage.

NO HEAT CAN ESCAPE, hence no freezing of ensilage in severe winter weather, with consequent loss of feed or troublesome work thawing frozen silage.

Every pound of ensilage going into THER-MOS comes out a pound of 100 PER CENT FEED.

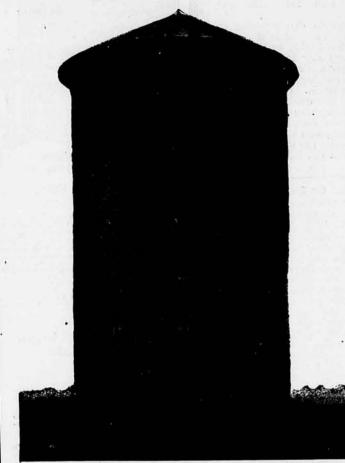
WE REFER YOU TO

Chas. Coffman - - - - Allen, Kan. J. F. Fleming & Son - Admire, Kan. Frank Crocker - - - Topeka, Kan. John McCloud - - Osage City, Kan. Henry Zimmerman Hiawatha, Kan.

All Satisfied Owners of Thermos Silos

Send for Circulars Describing THERMOS SILOS, It's Free THERMOS SILO MANUFACTURING COMPANY

609 Long Bldg. Kansas City, Mo., Western Office; Boise, Ida.



The THERMOS combines the heat-retaining quality of the wood-stave and the permanency of the concrete silos. six-foot door at base. No outside ladder to climb.

A Kalamazoo Direct to You" And Gas Stoves Too Quality **Prices**

This Free Book

shows why there is a Kalamazoo customer at every other post office in the United States. Don't pay fat profits to local dealers. Order direct from the largest direct dealing stove makers in America. Save nearly half what

dealers ask.

30 Days' FREE Trial Year's approv30 Days' FREE Trial Year's approvBank Bond-freight prepaid. Easy payments or cash.
Kalamazoo Ranges are most handsome, convenient,
economical and durable, with all latest improvements.
One of them is just your style at your price. Free
Book and low factory price prove it. Free Trial and
Guarantee make you sure. Write for book now anyway to protect yourself against poor quality or high
prices elsewhere. Ask for Catalog No. 189Kalamazoo Stove Co., Mfrs., Kalamazoo, Mich.
We make a full line of Stoves, Ranges, Gas Stoves
and Furnaces. We have three catalogs.

Please ask for the one you want.

264 Page Book On Silos and Silage

1913 copyrighted edition now ready. Most complete work on this subject published. Used as text book by many Agricultural Colleges. Gives the facts about Modern Silage Methods—tells just what you want to know. 264 pages—indexed—over 45 illustrations, a vast amount of useful information boiled down for the practical farmer. Tells "How to Make Silage"—"How to Feed Silage"—"How to Build Silos"—"Silage Systems and Soil Fertility"—"Silage Crops in Semi-Arid Regions." All about "Summer Silos" and the Use of Silage in Beef Production. Ninth edition now ready. Send for your copy at once. Enclose 10c in coin or postage stamps and mention this paper.

Silver Manufacturing Co., Salem, Ohio.

Ince Trees

Are grown right and sold right. Every department of our business is in the hands of careful and expert nurserymen. Every tree and shrub guaranteed true to name. Backed by the reputation and experience of the "ince Boys," Ince Trees are bound to produce profitable orchards. Send today for INCE NURSERY CO., LAWRENCE, KANS.

the most economical cows of all the breeds are the large cows of the breed. The heiter should be fed to enable her to develop into the largest and best cow of which she is capable.

In summing up this talk, I am con-vinced that what we need most is not more knowledge along these lines, but more enthusiasm. We need to see more forcibly the great opportunities we are missing and the necessity for immediate action. It is a fact that with our presaction. It is a fact that with our present cows and methods the dairy operations of the state are not on a paying basis. It is also a fact that the consumer who uses our dairy products is paying all he can afford to pay, and in many cases more than he ought to pay. The solution lies with the dairy farmers of the state, and is along the lines of better bred and better fed cows.

Improved Crop Men Meet.

The Kansas Crop Improvement Association is a state-wide organization, and held its meeting at Manhattan during farmers' institute week. It has for its purpose the promotion of the improvement of small grain and forage crops. Its aim is to encourage more profitable crop production and to interest the farmers of Kansas in applying methods of crop improvement. The association has helped much in the past ten years in the betterment of those crops grown by its members. All pro-gressive farmers of Kansas are invited to become members and take part in its activities. The meeting just past was one of the most successful held by the association. The exhibits in the various competitions were numerous and creditable. The winnings were as fol-

In the Farmers Exhibit. Class A. For ten ears of yellow corn—First, Charles H. Werner, Troy, Reid's Yellow Dent; second, John Brox, Atchison, Reid's Yellow Dent; third, F. C. Werner, Troy, Reid's Yellow Dent; fourth, H. Gronniger, Reid's Yellow Dent. Class B: Ten er, Reid's Yellow Dent. Class B: Ten ears of white dent corn.—First, E. C. Lembach, Erie, Johnson County White; second, H. Gronniger, Bendena, Boone County White; third, J. B. Gronniger, Bendena, Boone County White; fourth, Dee Shank, Mankato, White corn. Class C: Ten best ears of corn.—Sweepstakes—E. C. Lembach, Erie, Johnson County White. Class D: Ten heads of kafir.—First, Deming Ranch,

Oswego, Blackhull White Kafir. Class E: Display of twenty-five heads of one or more varieties of forage and grain sorghums.—First, Deming Ranch, Oswego, Sumac Sorghum.
Class F: One-half bushel Hard Winter Wheat.—Arthur J. Mahon, Clyde. Class G: One-half bushel Soft Winter Wheat.—No entries.
Class H: One-half bushel Oats, any variety.—First, E. C. Lembach, Erie, Red Texas.

Red Texas.
Class I: One peck Alfalfa Seed.—
First, F. M. Giltner, Winfield; second,
Deming Ranch, Oswego; third, Arthur
J. Mahon, Clyde; fourth, Harry Stone,
Winfield Winfield.

Winfield.

In the Boys' Exhibits. Corn grown in any part of the state of Kansas. Ten Ear Sample, any variety.—First Willie H. Gronniger, Bendena, Boone County White; second, Chester Craig, Erie, Calico; third, Joseph Brox, Atchison, Reid's Yellow Dent; fourth, Lawrence Gronniger, Bendena, Reid's Yellow Dent; fifth, Charles Gambull, Ottawa, Boone County White; sixth, Lewis Wyatt, Cottonwood Falls; seventh, Allen McGrath, Waverly, Boone County White; eighth, Albert Jones, Ottawa, Iowa Goldmine.

Feterita grown in any part of the state west of Jewell. Ellsworth and Kingman counties.—First, J. A. George,

Kingman counties .- First, J. A. George,

The hundred dollar silver loving cup

The hundred dollar silver loving cup offered by the Crop Improvement Association for the best ten ears of corn in the Boys' Exhibit was awarded to Willie H. Gronniger of Bendena, Kan. At the close of the meeting officers and directors were elected as follows: President, R. A. Willis, Manhattan; vice president, M. G. Hamm, Holton; secretary-treasurer, B. S. Wilson, Manhattan; inspector, C. C. Cunningham, Manhattan. For directors they elected J. M. McCray, Manhattan; H. Gronniger, Bendena, and L. E. Call, Manhattan.

It is much to the credit of Jewell County that it led all Kansas counties in the number of delegates in attendance at the annual farmers' institute in Manhattan the first week in this month. To this institute Jewell sent 56 delegates. These were organized and the Jewell County vell was much in evidence. The enthusiasm of the Jewell County attendants lent much interest to the week's



No Country-

is better than the one in which you live. Some parts of it may not suit you but there are many places along the Union Pacific System Lines where you can locate and be satisfied.

Write me and tell me what kind of land you want—Irrigated, sub-irrigated or dry farming, for general farming, stock raising, fruit raising, etc.,—In the climate that best suits. I will send you the information that will help you locate in the place best suited to your needs.

R. A. SMITH,

Colonization and Industrial Agent,
Union Pacific Railroad Co., Room
2427 Union Pacific Bidg.,
OMAHA, NEBRASKA.

SAVE YOURSELF FROM LOW PAY

Be an auto expert and make a salary of \$75 to \$200 per month. We teach you how. Our course contains no theory. It is practical, taking in all information on all makes of cars. Each pupil gets individual instruction under practical conditions on real automobiles. Don't delay, but write today for free information.

THE TOPEKA PRACTICAL AUTOMOBILE SCHOOL

1005 Kansas Avenue, Topeka, Kanss

SEEDS FOR SALE BY THE GROWER

Alfalfa, sumac cane, black-hull white kafir. Samples and prices on request. THE DEMING RANCH, Oswego, Kanssa.



WARFED—three to five it. high.
Straight Neeked—of great advantage in gathering, feeding
and cutting the heads.

Earlier than Kaffer or standard Mile
and will stand greater drought. Free Sample and big free of 112 perce vith hundred of illiquence of the perce vith hundred of illiquence of seeds and garden seeds given FREE as premium. (186 pages) BARTELDES SEED CO. Seed House West of the Mississippi.
Write to Reariest Reces:
Marie to Reariest Reces:
Main 8t., Cklahoma City, Okla.
Street, Denver, Colorado.

Salver South Salzer's Vegetable and Premini Flower Seeds Bigger and better than ever, Full of valuable information, worth money to you. One package each of Salzer's Radiant aweet Feas, Elegant Asters, Gorgeous scheeliotisies, Blue Cornflower, Brilliant Poples, Sunny Cosmos, all for 10c.

These six packages of yegetable seeds for 20c. essend 25c and get both collections and get both collections and our Nov-olity Red Riding Hood Tomato, Write right away for the catalog.

Trees At Wholesale

Salzer. 225 L. Byon St., La Crosse, We

and Save Agents' and Dealers' Profits.

Pears 15c. A complete list of varieties.

Pears 15c. A complete list of varieties.

SPECIAL TIES

egis Everteering Red Raspberry, \$4.00 per 100 k Pearl Black Easpberry . \$4.00 per 100 t Himalaya Blackberry, . \$5.00 per 100 ter Bunlap Strawberry, . \$2.75 per 1000 dina, Lombardy and Norway Poplar, \$3.00 for Concard Grapes, \$2.00 per 100. Many r Items egnally low in price. Quality the best.

Headquarters for Small Fruit Plants of all kinds— Flowering Shrubs, Roses, Perennials, Asparagus, Rhubarb, etc. We Pay the Freight on all orders amounting to \$10 or over. Free Catalog. HOLSINGER BROS. NURSERY, Box 200, Rosedale, Kansas.





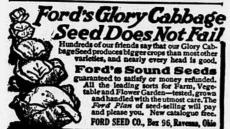
Big Catalog FREE Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

R. H. SHUMWAY, Rockford, Illinois



Tells all about our Dependable Grades of Seeds, Trees, Shrubs and Nursery Stock; also Poultry Supplies, Try our selected DRY FARMING SEEDS.

GOLORADO SEED AND NURSERY GO.
1510 CHAMPA STREET, DENVER, COLORADO



MECIRCLE

A veil will retain its freshness longer if it is rolled each time it is taken off instead of folded.

If you have difficulty in threading the machine needle, place a piece of white paper or cloth under it and the eye can more easily be seen.

Chloroform is said to be excellent for removing ink stains, especially from delicate laces, centerpieces, or from silk of any shade, as it does not injure the solor in the least.

If you wish to remove the lines from any stamped article, try an application of peroxide of hydrogen. This is a strong bleaching agent.

An oculist once told a woman who insisted that it was impossible for her to avoid eye-strain, to close her eyes when using the telephone. This not only helped her eyes but her nerves, as it gave a feeling of relaxation and enabled her to gain a clearer understanding of the message.

Those who crochet a good deal usually have trouble with the first finger of the left hand, as it becomes tender and sore. To overcome this take a small piece of court plaster and stick it securely on the finger where the hook passes back and forth.

Handkerchiefs with a colored border are very popular just now. Some have the edges rolled and are overcast with a colored thread working entirely around the handkerchief one way and then back again. Others have a narrow edge cro-cheted with a colored thread. A small design in cross-stitch in one corner is considered very good taste also.

If you wish to roll a narrow hem which is to be finished with lace, try this method: Place the lace from an this method: Place the lace from an eighth to a fourth of an inch from the raw edge and whip the latter closely, taking into the edge of the lace. This, when completed, will form a neat roll hem, which will be as durable as if rolled and hemmed in the usual way, and also will save much time.

To turn a hem in heavy goods or material that does not crease well, such as serge, turn the correct length and trim the hem the desired width. Instead of turning the second time, bind the edge with a bias fold of cambric or lawn the same shade and etitch there is the control of t same shade and stitch through the binding. The seam will be flat and make a much neater finish than if turned in the old way.

To cleanse a washable veil, fold it neatly and hold the folds in place with a thread. Wash the veil carefully in soapy water and rinse it in salt water soapy water and rinse it in salt water to set the color. Do not wring the veil, but fold it in a soft bath towel. Press out as much water as possible. Take out the bastings and with a moderately hot iron press the veil dry. Pass the iron over the edges first and then press the middle. This will keep the veil in better shape than pressing otherwise.

Cheese Croquettes.

These make a delicious hot supper dish These make a delicious hot supper dish and have the merit of being something entirely new to most people. Put into a saucepan one heaping tablespoonful of butter and two of cornstarch. Cook until bubbly, then add, little by little, stirring all the time, one cupful (scant) of rish milk or gream and gook until of rich milk or cream and cook until thick and smooth; have ready one pound of American cheese cut into dice; add to the hot cream sauce, together with the yolks of two eggs, beaten and diluted with a little cream to keep them from curdling; season to taste with salt, red and white pepper and a dash of nutmeg; put the mixture directly on the ice until cold, then shape into rolls or cones, roll in fine bread crumbs, then in beaten egg, then in crums again and fry in deep fat.

Some Hints on Dyeing.

If you have any good but soiled white blouses of which you have become tired, why not dye them to match some skirt for which you need a separate waist? To make the coloring a success, rip all

close plaits or trimmings so the liquid

penetrate into the folds and may

Do not attempt to dye a soiled or dusty article. Wash it first in the usual way, then rinse thoroughly and allow it to get three parts dry before dipping into the dye. Pour boiling water on the dye and stir thoroughly before placing the article in the liquid. When you lift the article out of the dye rinse it thoroughly in clean cold water and hence are oughly in clean cold water and hang out dripping wet in the open air. Do not wring it, whatever you do, and be very careful in hanging up the article so that the clothes line will not leave any mark on it.

A Cover for the Bathtub.

A covering for the bathtub made of some thin, inexpensive material will be found a great aid in keeping the tub clean. It may be made of white and blue cloth, or any color which predominates in the room, and of percale, calico or white cheese cloth, with the hem featherstitched in the desired color. It should be cut one-fourth of a yard larger than the tub and additional allowance made for the hem to permit of A covering for the bathtub made of larger than the tub and additional allowance made for the hem to permit of its being drawn completely over the rim and held close about the tub by means of a rubber elastic run in the hem. If a fancier finish is desired, space may be made in the hem by a second stitching half an inch below the other stitching, and the drawstring run through this space, which will leave a frill below.

If the tub is unusually wide, so that the material is not sufficiently wide to cover it, narrow material, such as print.

cover it, narrow material, such as print, works to good advantage; for two strips may be used; and, if this should prove to be too wide, an equal amount should be cut off from each side to bring the piecing in the center of the tub.

Such a covering will be appreciated by the one who is in a hurry for the plunge and does not want to stop to wash out the dust which may have accumulated through the night. In most houses the tub is placed under the window and accumulates a remarkable amount of dust. This cover will prevent this as well as This cover will prevent this as well as being a labor-saver. It may be made an ornament to the room, and is easily adjusted after the bath.—Needlecraft.



No. 6299—Ladies' Gown. A dress waist with a full vest, a small collar and a peplum is here joined with a two-piece skirt to form a costume. Plain and figured crepe, plain and figured linen, messaline both plain and figured or the light-weight woolen stuffs may be effectively developed by this design. The dress pattern, No. 6299, is cut in sizes 34 to 42 inches bust measure. Medium size requires 1% yards of plain material 36 inches wide and 3% yards of embroidered goods. In one material only 4% yards of 36-inch goods will be required. Price of pattern, 10 cents.

Play While Pay

We are the only house in Kansas City authorized to sell these good Pianos:

Steinway, Vose, Kurtzmann, Elburn



We Will Sell You a Guaranteed Piano on Easy Terms

No Piano house in this section of the country has sold as many good Pianos as we have. No other house carries a boughtand-paid-for stock as large as ours. We have twelve great stores in this great southwest territory. We have customers near you to whom we can refer. It pays to deal with a big, reliable house, near home, rather than send far away to a concern whom you or your friends never see or never know anything about. Right near where you live we have customers who will tell you about us. The probability is you yourself know of several probability is you yourself know of several photo that were bought from us.

Before you buy any plano anywhere at any price, get our offers.

As low as \$40 buys a used Piano

Remember, we handle great planes like the steinway, Vose, Kurtsmann, Elburn and others. We can suit you in price, for we have new planes from \$125.00 up, and we have a few samples and used planes from \$40.00 upward. Also we have a wonderful line of genuine player planes—new and used.

W.JENKINS SONS MOSIC CO. Value Street, MANSAS CITY, MO.

Send 10 Cents
cost of packing and mailing. Highe
prices reasonable; the collection:

eriot Reacty rpie Top White . ps Red reed Leaf

THE CHERRY SEED CO. Rockford, III.

Investigate now. White Wonder, most Wonderful Yielder ever originated. Bumper crop of prize-winning corn this year Outyielded Reid's Dent 40 bu. First year ever offered. Drouth reasting, ears enormous size, deep grains, fine quality. Early in maturity Write for Free Sample, 78-page Seed Corn Catalog, and circular describing this wonderful yielder.

A. A. BERRY SEED CO., Box 667 CLARIMOA, IOWA



GARDEN

HAYES SEED HOUSE, Topoka, Kan.

GREENWOOD COUNTY NURSERY ESTABLISHED 1890.

Write for catalog and price list of Fruit Trees, Grape Vines, Berry Plants, Rhubarb, Asparagus and Speciosa Catalpa. Certificate of nursery inspection with each shipment. J. W. HINSHAW, Prop., EUREKA, KANSAS

SEED CORN - Reid's Yellow Dent SEED OATS - Kherson Seed Oats Alsi Alsike, Timothy and Clover Seed. All seed guaranteed to please. Samples and prices named free.

F. M. RIEBEL & SON, ARBELA, MO.

SEED CORN Four varieties. Also garden and field seeds. Poland China Catalog free. atalog free. JOHN D. ZILLER, Hlawatha, Kansas.

When writing advertisers, please mention KANSAS FARMER.

The Gold is thin—

but the diamond still shines brightly

This picture illustrates a letter from one of our friends, which we quote below:

August 24, 1913.

"Since those days times have changed. Montgomery Ward & Company have grown from a small store room to a vast city by itself and I have grown from a family of five sons and a daughter and from a farm hand to a farmer of over 800 acres of choice land.

"Small profit, honesty and saving are what make people progress in this country.

"If you look over your filing list, you will see my name down every month for something, sometimes every week. And as long as God spares my wife and I you will find us on your list—also my son."

Yours respectfully,

(Name on request).

Is our latest Catalogue in your home? The great showing of thousands of bargains will absorb your attention. The pictures show home comforts you need. By comparing the articles and prices you will realize the economy there is for you in every purchase from this wonderful thousand-page bargain book. Fill out the coupon now and send for your Catalogue today.

Montgomery Ward & Co.

MONTGOMERY WARD

New York

Chicago

Kansas City

Fort Worth, Texas

Portland, Oregon



CHEWING TOBACCO (CHAMPAGNE) Sold Everywhere in 5c and 10c cuts

PIPER Heidsieck is the highest type of chewing tobacco in the world. Every leaf of ripe, golden brown tobacco used in "PIPER" is carefully selected from Nature's choicest crops, clean, sweet and mellow. The flavor of "PIPER" is different from all other tobaccos made—a rich, wine-like, delightful taste which never fails to make a friend.

We Want You to Try PIPER Heidsieck

Send 10 cents and we will send a full-size 10c cut of "PIPER" and this handsome leather pouch FREE.



ing tobacco.

In writing us please tell us the name of the dealer of whom you buy your tobacco.

THE AMERICAN TOBACCO COMPANY 111 Fifth Avenue New York Cit New York City



Horses merely draw machine. Engine does all operating. Runs reel and sickle, elevates, binds and delivers grain. Sickle continues to run when bull wheel skids or in turning. Does away with loose sheaves. Cuts heaviest grain—tangled grain. Binder won't choke. Easily attached to any binder. Has patented clutch pulley with sprocket for chain drive to double sprocket on binder. Throttling governor with Schebler carburetor prevents jerk on engine or binder. No waste fuel.

Original Binder Engine For all grains in any section. Weighs only 167 lbs. Tested and proved by 7,000 farmers on soft, sandy, hard and rough ground.

This Same Engine is also an All-Purpose Engine

Best for running the grindstone, pump, corn sheller, wood saw, feed grinder, washer, separator, etc. Runs at any speed. Change speed at any time without stopping. We also build 2-cylinder engines, 6 to 20 h. p., for silo filling, operating large balers, etc. See your dealer. Tell us your needs. Start the binder engine matter today. Catalog free.

CUSHMAN MOTOR WORKS 2048 N Street, Lincoln, Nebraska





HE FARM

It is high time that every Kansas Farmer reader begin thinking about seed for spring planting. We know that a great many have this seed on hand because many of our readers have so stated. It is certain, however, that a large number do not have seed and are waiting for an opportunity to obtain seed from dealers or seedsmen. It will hurry Kansas to this year supply her farmers with a sufficient quantity of suitable seed. There is plenty of seed such as it is, to plant the state several times over, but the best farmers have learned to know that there is a big difference in seed quality. Not every farm-It is high time that every KANSAS learned to know that there is a big dif-erence in seed quality. Not every farm-er is now satisfied with seed that will grow. Many want seed of pure-bred strains of corn, kafir and cane. They want to know that the seed is adapted to their localities, that it has been ac-climated, if possible, that it has early maturity and dry weather resistance maturity and dry weather resistance and that it will produce a stalk so vigorous as to withstand a cold, wet spring or a dry spring. Many farmers in Kansas have learned—as all should have learned by this time—that seed for the placeted for the part of the pa is planted for no other purpose than to produce a crop and that some seed is so low in vitality that it will not withstand adversity and so greatly dewithstand adversity and so greatly depreciate the crop prospects. There is as much difference in the seed of the various crops as there is in our herds. It is well known that certain breeds are more vigorous than others. It is well known that the same characteristics follow the individual animal. Just this is as it is not processory to why this is so, it is not necessary to know, but every observing farmer has noticed these differences in animals and has observed them in the field plant.

The farmer who has kept his eyes open has observed that in his corn field there are numerous stalks which produce no ears. He has made the observation that some kafir stalks are without heads or that some stalks produce a problem bade them. duce much smaller heads than others. To a very great extent this difference in stalks is due to the lack of vitality. The stalk is not capable of drawing upon the soil's fertility and moisture to the extent that it may produce. Seed taken at random from bins or corn cribs, does not give the farmer op-portunity to know that he is planting seed produced by a vigorous stalk or whether it comes from a "scrub" stalk. These things can be known only when the individual heads of kafir or ear of corn are selected in the field. In a corn are selected in the field. In a general way, these are the reasons that field selection is essential. By selecting from the field the seed gatherer has opportunity to observe the characteristics of the plant producing the seed he has selected and so is able to develop those characteristics which will increase his yield or make crop production more certain. It is now too late to select seed from the field, but it is not too early to take a vow that seed for next year's planting will be selected in the field with a view to improving the general avera view to improving the general average yield of farm crops.

The seed of many farms for spring planting must be obtained from various sources. It may be bought from a neighbor or from a seedsman. The farm-er has not done his best when he has paid his money and has a sufficient num-ber of bushels of the seed of the various field crops to plant his fields. Something of the germination of the seed should be known, if possible, before the seed is bought. It would be a good plan to obtain a sample of the seeds before the purchase is made. This sample will indicate whether or not the seeds will grow and also whether or not the seed is strong. It is essential that the seed ss strong. It is essential that the seed show strong germination. The sprout should be strong and should grow rapidly. The root system should be large. The difference between a seed of low vitality and one of high vitality will be readily recognized when the two seeds are sprouted side by side. A sample showing weak sprouts should cause the intending purchaser to besitate in buyintending purchaser to hesitate in buy-ing such seed. It will be worth his while to look further, and so see if he cannot obtain seed of better quality. We realize that this is a year when on account

of the scarcity of seed the purchaser cannot be too particular, and that it will be necessary for him to plant the will be necessary for him to plant the best seed he can get even though it is not to his liking. Nevertheless, this is no reason why he should accept just anything in the way of seed that may be offered. It is possible that the farmer cannot get all of such seed of such quality as he desires for planting his general field. It may be, however, that he can secure a small quantity of superior seed and which can be planted to itself and the crop of which will supply him with the seed he needs for the following year. We are a firm believer in the farmer growing a seed plat and giving it such special attention as will enable him to have the best possible seed grown on his own land and under the conditions peculiar to his locality.

Much 1912 corn will be planted this spring. We have no doubt that there is much good seed to be had from the 1912 crop, and that much of such seed will in every respect be superior to 1913 grown seed. The year in which the seed was grown is not material. The important thing is whether or not it will germinate as it should. We were recently advised by a farmer who has his germinate as it should. We were re-cently advised by a farmer who has his seed selected from 1912 corn, which had been stored in a crib, that while the kernels from each ear grew, the ger-mination of some ears was extremely weak and that he had discarded about twenty-five ears of each 100 that he originally selected. This man figured that he could not afford to take a chance that he could not afford to take a chance on the ears showing low vitality. He recalled that one ear of seed corn should on the ears showing low vitality. He recalled that one ear of seed corn should produce about ten bushels of crop and that to plant a poor ear of corn would result in a possible reduction of four or five bushels for each such ear planted. He said he could not take such chance. It is a fact, however, that should the planting season be favorable the ear of low vitality would not be at a serious disadvantage. The point is, however, that no man can say what will be the conditions of the early growing season. Should the weather be cold and wet seed corn of low vitality would not survive. On the other hand, should the weather be dry the plant would most likely die. Here is the difference between seed of low vitality and that which is vigorous. Here is the reason for paying attention to the manner in which the seed corn will grow, and this is one of the two important reasons for testing. The other reason is to enable the farmer to throw out those ears the germ of which is dead and which will not sprout at all. The point we the germ of which is dead and which will not sprout at all. The point we would impress upon every Kansas corn grower is that he go to testing seed corn at once. It can be done right away with greater convenience than at any other time. Besides, if it is at once discovered that the corn saved for seed is not good, there will be ample time in which to secure other

The same general principles set forth above apply to the grain sorghums which are to be planted this spring. Much of the kafir which may be used for seed was late in maturing and will lack vigor if it grows at all. The early frosts caught much of the kafir before it was fully matured and early freezes destroyed its seed value. An increased acreage of kafir and milo will be planted in Kansas this season if suitable seed in Kansas this season if suitable seed can be had. The grain sorghums will be depended upon for grain and forage to a greater extent than for some years past. This fact alone is sufficient argument for care in seed selection. If the grain sorghum seed selected has been grain sorgium seed selected has been found satisfactory, it should be carefully stored until planting time. If it is threshed, care should be taken that it does not heat in the sack or in the bin. It has an irresistible tendency to heat during warm spells of weather, and good seed may be spoiled by careless handling before planting time. If the seed is in the head, as it should be, the heads should be stored in an absolutely dry place and should be suspended in small bunches with the tips downward. Do not store in sacks, boxes or bin. If the seed is threshed, spread it out two

or three inches deep on a dry floor and stir it each week or ten days.

Since seed for the spring crops is more scarce than for some years past, it occurs to us that this is a good year in which to figure on greater care in planting methods, particularly so with planting methods, particularly so with reference to the amount of seed used. We have for a period quite too long, figured the amount of seed to be planted by pecks and bushels. This is in error. To be sure, it is necessary to approximate in pecks or bushels the amount of seed necessary to save or to buy for the spring planting, but when it comes to the actual planting the basis of determination should be the distance apart in the row the seed should be of determination should be the distance apart in the row the seed should be planted. Planting generally is to thick to give either the largest yield or to make the yield most certain. We really believe that for a ten-year period the upland farmer would grow more corn if he would plant one kernel of known germination each 16 or 17 inches. This would be equivalent to two kerknown germination each 16 or 17 inches. This would be equivalent to two kernels in a hill of check-rowed corn. If every kernel so planted should produce a moderate-sized ear, the yield would be surprising. There is no justification whatsoever, for planting corn so thick that the available moisture will be deficient for crop production. Should we have one stalk where we have heretofore had three stalks, that one will have three times as good chance to produce an ear of corn as had either of the three. an ear of corn as had either of the three. Bottom land farmers have made the same mistake as upland farmers relative to thick planting. In 1913 thin planting showed to better advantage than for many years past. This was only because the thinly planted field had more miosture available for the stalk growing thereon. Those farmers who, either through design or accidentally, planted thin in 1913, were those who secured the best corn, kafir and milo crops. We have seen fields of kafir and milo fully matured standing by the side of other fields which an ear of corn as had either of the three. of kafir and milo fully matured standing by the side of other fields which did not mature a single head and the difference was due to thinner planting. Our correspondence indicates that in every county in Kansas kafir matured a seed crop this year, and in following up this correspondence we find that almost invariably the maturing fields were thin planted. We have been much interested in a field of milo which this year produced not less than twenty-five bushels of grain per acre and which was grown in Thomas County. This milo was planted at the same time and on the same kind of land as was kafir. It was was planted at the same time and on the same kind of land as was kafir. It was planted with the same plate. The kafir was planted first and so soon as the planting was all done, milo was placed therein and the work continued. The milo made grain and the kafir did not. There was one stalk of milo in a hill to about three stalks of kafir. The milo seed being larger the plate did not plant it as thick as the kafir seed was planted. it as thick as the kanr seed was planted. It was thin planting, in our judgment, that more than anything else contributed to the general maturity of feterita in 1913 as compared with kafir. The seed of feterita is larger than that of leafing on cond the ordinary cane. kafir or cane and the ordinary cane planter plate will drop about one grain of feterita to three of either can or kafir. The situation with reference to thick and thin corn or kafir and mile on the uplands is not different from on the uplands, is not different from corn on the bottom lands. Many thin planted fields of corn about Topeka in the Kaw Valley, made a crop. The thick planted fields did not.

Determine upon how you will plant crops this spring—upon the kind of stand you want. Then get out the planter and the plates sufficiently in advance of planting time and see that those plates will drop kafir, corn, cane or feterita as you want it dropped. It will require some little time and some will require some little time and some patience to get the sort of plate that will give you desirable planting, but it is worth your while so to do. In the case of the grain sorghums it may necessitate your securing blank plates and having these drilled to meet your ideas. You will not get the first plate drilled as you want it, either, but it will serve as a starting point and other plates will be drilled to drop thinner or thicker. A milo farmer who grew a crop this year, advised that in years past he knew he had planted too thick. He used a John Deere lister and had that company's kafir plate. This did not meet his planting ideas. Accordingly, he plugged every other hole and ingly, he plugged every other hole and drilled the remaining hole just a bit larger. He attributes his crop of mile this season to thin planting more than to anything else. This instance is mentioned for no purpose other than to give an idea as to how you can make the start toward getting the rate of planting as you would have it. When

you have once determined upon the rate of planting and have the plates properly drilled for the several crops, this work is done until it is necessary to buy a new planting machine which may not be geared as was the old one.

We cannot dismiss this topic without a word of caution in the planting of Rafir for grain. We believe in planting kafir especially for grain and in planting it especially for forage. That is to say, that when grain and forage are both desired that they should not be sought from the same planting. A good head of kafir will produce as much grain as the average ear of corn, and the kafir grain crop should be planted with this general idea in mind. However, it will in actual practice bear just a bit thicker planting than corn. A kafir stalk each eight to ten inches is plenty thick provided there is one stalk only at each such interval. We would prefer one stalk of kafir in a hill at the above rate, rather than have two We cannot dismiss this topic without prefer one stalk of katir in a hill at the above rate, rather than have two stalks in a hill every 16 or 18 inches. Such planting for grain will allow the kafir to mature a large head, provided, of course, the seed planted is of true kafir. In the proportion that the seed may be mixed with cane or broomcorn may be mixed with cane or broomcorn the weight of the seed from each head will accordingly be reduced. When kafir is planted thin and the heads are of good size, hand harvesting is not tedious or objectionable. Thick planting with numerous small heads, makes harvesting of kafir by machinery necessary, and for the farmer who grows only 35 or 40 acres of kafir planted for grain as above indicated, the harvesting by hand is a pleasure. When kafir is planted for forage the grain crop is is planted for forage the grain crop is secondary and small heads are really desirable. Such kafir should be drilled desirable. Such kafir should be drilled in rows so that it can be cultivated, and on the uplands in the eastern third of the state, two pecks to the acre is a great plenty. If the season be wet the stalks will be coarse, but for a tenyear period such planting will give the best results as a forage crop. For the uplands in the central third of the state, a peck and a half drilled in rows is uplands in the central third of the state, a peck and a half drilled in rows is thick enough. For the western third of the state three quarts to the acre, also drilled in rows, will give the most certain results. When drilled in rows, this forage can be harvested with the corn binder or sled cutter which is the most convenient method for harvesting most convenient method for harvesting whether the forage is to be placed in a silo or whether it be fed from the shock. Row planting for forage crops is generally, we think, most satisfactory, both from the standpoint of harvesting and from the standpoint of crop surety.

In preaching thinner planting of corn and kafir, we realize that dangerous ground is being trod upon. This is particularly true if next season should be wet, because there is a possibility that the thicker planted will yield a heavier grain and forage crop than the thinner planting. However, no man thinner planting. However, no man dare say at planting time whether the season will be wet or dry. Since moisture is the limiting factor in crop production in Kansas, and since we are more likely to suffer from a dry spell than from a west small it is consistent. than from a wet spell, it is consistent to consider conditions from the standpoint of a dry spell during the growing season. The crop record of those farmers who are consistent and persistent planters, reveal the fact that thinner planting than is general will win more times than it loses.

"Don't smoke yet! Smoke after enjoying clean, pure, healthful WRIGLEYS You'll digest your meals and enjoy smoking a great deal more if you Chew it after every meal It makes you feel more like smoking because it cools and soothes your mouth and threat. It also aids digestionprevents or relieves heartburn. It brightens and preserves the teeth wonderfully purifies the breath instantly. It's real "springy" chicle gum -flavored with real juice of real mint leaves — if it's WRIGLEY'S" BUY IT BY THE BOX WRIGLEY'S THE SPEARMINI of twenty packages. It costs less of any dealer—and stays fresh until used. WRIGLEY'S

RUNNING AN ENGINE

EN or fifteen years ago almost no one but an engineer knew anything about running an engine. Now, the ability to start an engine and keep it running is almost as necessary on the farm as knowing

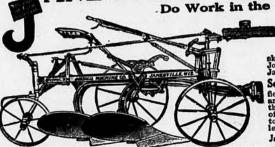
how to milk a cow.

Almost every farmer now has an engine, and many of those who have not are in the market—looking, studying, thinking and deciding. This fall and winter will see a great many engines purchased by farmers.

Permit us to make a suggestion. Before deciding, watch the advertisements in Kansas Farmer; get all the information possible, and then choose the engine that seems best adapted to your needs, regardless of price.



ANESVILLE PLOWS With S. & S. Auger Twist Mouldboards, Do Work in the Field That Makes the Crop



They leave the ground well broken — all stubble and trash buried and the surface smooth and clean. Send for the souvenir Booklet and look at the photographs of fields plowed with a Janesville Plow. See the results that can be had with the S. & S. Bottom. It does not take a skilled driver to get first class work with this plow. John Webber, a 14 year old-boy won first prize with a Janesville at Grant Park, Ill., Sept. 27, 1913.

Send in Your Name and learn how easy you can do fields with a Janesville. Light draft, flexibility, etc., are excellently taken care of -butit's the plow bottom that does the work and that's what counts. All makes of Janesville Plows can be equipped with S. & S. Bottoms, including walking plows. Write for the booklet and catalog. Address

Janesville Machine Co., 47 Center St., Janesville, Wis.

Janesville Machine Co., 47 Center St., Janesville, Wis.

This Beautiful Souvenir **Booklet Mailed** FREE

Look for the spear

to anyone who will write for it. Send in your name at once. See photographic views of field work that won prizes—also photographs of winners—their equipments, etc. Invaluable if you want good plowing. Write today.



In use for 42 years—and still going

FORTY-TWO years ago Mr. Balch of Coshocton, Ohio, bought a Studebaker farm wagon. He used this wagon for twenty-two years and then turned it over to his son, L. J. Balch. In a letter to Studebaker, ordering another wagon, Mr. Balch writes:

"My father used it for 22 years and I have used it for twenty years and can say that there has never been a spoke moved in any of the wheels and it has the same boxing and spindles that were put in it when made. Tires have been changed from narrow to broad, but axles, bolsters and singletrees are those originally furnished with wagon. Last summer I hauled 6,800 pounds of weighed material in it at one load."

NOT UNUSUAL FOR A STUDEBAKER WAGON

You can buy a Studebaker wagon today that will repeat the performance of the wagon owned by Mr. Balch. We are building wagons today with the same care and of just as good material as we did when Mr. Balch bought his wagon. In fact, Studebaker wagons, because of improved methods of making, are even better today.

When you buy a wagon don't judge it by its looks alone. Stop and think what isunderneath the paint. You may be offered a wagon that looks as good as a Studebaker and the price may be less—but when you stop and figure that the cheaper wagon will probably last you five or ten years whereas a Studebaker will last a life time there is only one answer—You want a Studebaker.

Whether it is a Farm Wagon, Buggy or Harness, Studebaker's policy is "build not the cheapest but the best."

Invest your money where you get the largest returns—buy a Studebaker.

See our dealer or write us

STUDEBAKER

NEW YORK
MINNEAPOLE
SALT LAKE CITY
SAN FRANCISCO
PORTLAND, ORE

Studebakers last a lifetime

READ KANSAS FARMER'S CLASSIFIED ADVERTISING PAGE FOR READY BARGAINS

International Harvester Cream Separators



THE 2 H C LINE
GRAIN AND HAY
MACHINES
Binders, Respers
Headers, Mowers
Rakes, Stackers
Hay Loaders
Hay Loaders
Hay Presses
CORN MACHINES
Planters, Pickers
Binders, Caltivators
Essiliage Catters
Shellers, Shredders
TILLAGE
Combination,
Peg and Spring-Tooth,
and Disk Harrews
Caltivators
GENERAL LINE
Oil and Gas Engines
Oil Tractors
Manure Spreaders
Cream Separators
Farm Wagons
Hotor Tracks
Threshers
Grain Drills

A DAIRY farmer who does not use a cream separator is losing up to \$15 per cow per year. Complete your dairy equipment by the purchase of an International Harvester cream separator—Lily, Bluebell or Dairymaid. These separators skim closely—leaving barely a drop of cream in a gallon of milk—and they will do it for years.

These machines are furnished with pulleys for the use of power. Belted to a small I H C engine, you have the best outfit it is possible for you to buy. Note the low supply can on I H C separators, the height of the milk spout which allows a 10-gallon can to be used for the skim milk, the strong frame with open base which can be kept perfectly clean, and the dozen other features which make these I H C machines the best.

Your local dealer should have one of these machines on sale. If he has not, write us before you buy and we will tell you where you can see one; also send you an interesting book on separators.

International Harvester Company of America
(Incorporated)
USA

Champion Deering McCormick Milwaukee



DAIRY



We think Kansas farm dairymen do not appreciate the opportunity for learning much about feeding, handling and breeding, through the meetings of the Kansas State Dairy Association held each year during farmers' institute week at Manhattan. While the meeting this year was better attended than heretofore, there was not present as large a number of dairymen as the program and the good things presented warranted. Kansas has had a dairy association for some 20 years. Until within the last two or three years the association was supported by creamerymen and creamery topics afforded the greater part of the discussions. Dairy farmers were not especially interested in the creamerymen's factory problems and so did not attend. The present organization was perfected after the former organization seemed to have served its usefulness, and the meetings of the present association are not only attended by dairy farmers, but the association is officered by them. It is plain, therefore, that the program topics would be along lines of helpfulness to the milker of cows. This makes a meeting of interest to cow owners. Aside from the meeting itself, the opportunity to look over the college herd and observe the methods of feeding and handling the cows and to compare the several breeds which make up the herd, cannot help proving highly interesting and educationally important. The fact is that a trip to the college at any time during the year is well worth while, if the dairy farmer will go with a receptive mind and keep his eyes open for those things along lines of general farming, dairy farming, and the feeding and care of live stock in general.

At the recent meeting George Lenhert, a member of the Dickinson County Cow Testing Association, gave a good talk on the benefits which had accrued to the members through the work of the association. He gave figures from the association's record which have already been printed in Kansas Farmer through the monthly reports published. He made the benefits quite plain. He was asked many questions as to the details of the association's work and which questions indicated a wide interest in the testing of cows through such associations. His statements were supported by A. B. Wilcox, also of the association. The latter is milking 15 to 20 cows and is satisfied with the cow milking business. On his farm he does not have an acre of pasture except such as is afforded by wheat, oats or rye planted therefor. During the summer time he cuts green alfalfa and feeds it after a day's wilting. In winter he uses a silo. He has discarded from his herd every cow which has not in twelve months produced 300 pounds of butter fat, and has set his mark for the 400-pound cow. He and Mr. Lenhert are admirers of the Holstein and will eventually keep pure-bred animals only. Mr. Lenhert is one of the early users of the silo in his county. He has been dairying for twenty years and has found it both pleasant and profitable work.

The editor of KANSAS FARMER said the testing of cows to determine their relative merits and to know those which are most profitable, could most conveniently be done through the organization of a testing association. However, since it is difficult to interest cow owners to the extent of registering the 500 cows necessary for such association, the dairy farmer who is desirous of realizing the greatest profit from his herd and in building up the herd to the point at which only the best money-making cows are kept, need not wait for an association. He can do the testing himself and make money by so doing. Under the association method a test is made of the night's and morning's milk for one day of each month and the weights are kept only of these milkings. The month's production per cow is averaged on these results. True, such method is only an approximation, but it has been found sufficiently accurate to give sufficiently reliable data regarding produc-tion as to enable the farmer to cull out his poorer cows and such as are not profitable. The farmer can apply the same practice at a labor expenditure of not more than two hours per month for a herd of 12 to 15 cows. Were he to do the testing himself, it would be necessary to invest not to exceed \$10 in a tester, scales and other necessary equipment. He might arrange with his creamerymen or cream receiving station operator to do the testing of the milk samples and so reduce the time he himself would expend. The creameryman or cream receiving agent might do the work without charge. At any rate, it seems that such dairy farmer as sees the necessity for testing cows need not depend upon an association. In the editor's day it was regarded as necessary to weigh each day's milk and take a sample of the night's and morning's milk not less than one day each week, and in this manner arrive at the cow's production. There was a good deal of labor connected with this manner of testing, but we can testify to the fact that for his herd it paid. We really believe that the time spent in testing each cow in the herd resulted in a greater actual profit than the same time expended in any other farm work.

In the absence of E. F. Kubin, a gradand the absence of E. F. Kubin, a graduate veterinarian who is now a dairy farmer at McPherson, Professor Reed, head of the dairy department of the college, discussed a subject the central thought of which pertained to the care Kansas dairy farmers should exercise in purchasing dairy cattle which are free from tuberculosis. It is well known that this disease has been found in certain this disease has been found in certain dairy sections of Kansas to an alarming extent, also it is believed that the cows were infected by tuberculosis at the time they were brought into the state. This is a condition which emphasizes that in some particular Kansas laws are such as will not protect the farmer from the importation of diseased animals. It is notably true that those sections in which tuberculosis has been found to the greatest extent are those sections to which dairy-bred cows have been shipped in largest numbers. Such animals have been accompanied by health certificates given by veterinarians of the territory in which the cows were bought, and it is believed that such certificates to a great extent have been tificates to a great extent have been bogus. It is well known that several eastern dealers in dairy cows have a eastern dealers in dairy cows have a reputation for dealing in animals which cannot pass the tuberculin test and which dealers have shipped many cattle to this state. Professor Reed emphasized the importance of those buying cattle outside the state studying the pedigrees of the men they buy from even more than those of the animals they buy. The state veterinarians of the various states keep a list of certified breeders states keep a list of certified breeders and dealers and also a list of suspicious breeders and dealers. The Kansas buyer should consult the state veterinarian of should consult the state veterinarian of the state in which he buys and learn something of the pedigrees of the men who have cattle for sale. Al Howard, of Mulvane, told of the results of testing for tuberculosis in his community. He said that already 102 animals had been slaughtered and more are being tested. He said that most of the cattle around Mulvane had been bought from men in Illinois and New York, and it is the opinion in that district that many of the animals had reacted before coming into this state.

A. S. Neale, of the extension division of the college, discussed the possibilities of farm dairying in a talk on "Dairy Farm Management." His was the most important dairy farmers' topic discussed at the meeting. Mr. Neale is a farm owner and a breeder of dairy-bred cattle and is a thorough dairyman. In his work as an institute lecturer he has become well known throughout the state, and readers of Kansas Farmer should not miss his talk when he appears on the program of their local institute. He believes that on every Kansas farm a few good cows should be milked, that these should be well cared for and well fed, and that silage is the most economical and most certain roughage. Ben Snyder, the veteran dairyman of Nortonville, and P. W. Enns of Newton, each a breeder of dairy cattle, recited their experiences, which were well worth hearing.

E. S. Rule, of Barber County, gave his

AMERICAN

Absolutely on Approval.
Gears thoroughly protected,
ifferent from this picture,
hich illustrates our large
upacity machines. Western
ders filled from Western
slatts. Whether your dairy is
urge or small write for our
andsome free catalog. Adrest:

95

CENSUS SILO KANSAS

N KANSAS FARMER of January 10 was printed a map showing the number of silos now in use in each county in the state. We have thought that our readers might appreciate the information in the form of the tabulation printed here. It should be understood that the siles reported are of all binds that the silos reported are of all kinds, and for all counties except those marked "E," the figures are regarded as reliably

conservative. The "E" indicates an estimate—that is, a figure given us by only one correspondent and who was unable to verify such figure. KANSAS FARMER is under obligations to its readers and friends who assisted in compiling this census. Many were so exacting as to give results by townships—showing a painstaking which is much appreciated and for which our thanks are extended.

County.	No. of Silos	County.	No. of Silos	County.	No. of Silos
	121	Greenwood	122	Pawnee	95
Allen	438	Hamilton .		Phillips	ie 81
Atobison	50	Harper	24	Pottawatom	E 10
Borber		Harvey	93	Pratt	E 12
Barber	24	Haskell	D	Rawlins	
Bourbon	75	Hodgeman	24	Reno	28
Brown	60	Jackson	E 70	Republic .	88
Butler	125	Jefferson .		Perce	
Chase	184	Jewell	E 60	Penely	E 75
Chantaugna	E 20	Johnson	E300	ROOKS	1
Cherokee	65	Kearny	10	Pussell	В 9
Chevenne		Kingman .		Calina	E 50
Clark	26		10	Soott	1
Clay		Labette	100	Gadewick	
Cloud	21	Lane			
Coffey			th145	Shownee .	
Comanche .	12	Lincoln			E 8
Cowley	65	Linn	£3 55	Sherman .	18
Crawford		Logan	168		
Decatur	Z9	Lyon			
Dickinson .	100			Stanton	0
Doniphan			50	Stevens	10
Douglas				Sumner	
Edwards			75		
Elk	130		86	Trego	30
Ellis	10		гу 94	Wabaunsee	87
Ellsworth .	4	Morris	120	Wallace	E 3
Finney				Washingto	n 50
Ford			90	Wichita .	
Franklin	20		60	Wilson	50
Geary	E 1	Ness	20		E 50
Gove		Norton	E 71		E 50
Granam	a	1 Osage	E200		
Grant	1	7 Osborne .	E 20	o Total	6,979
Gray		2 Ottawa .	E 50	0	
Greetey		1. No. 2012/1			

BURNHAM-MUNGER-ROOT DRY GOODS CO.,

AMERICAN SEPARATOR CO. BAINBRIDGE, N. Y.

"Many a man I know vol-unteers to lend a hand when he wouldn't think of lending a dime."

When writing advertisers, please mention Kansas Farmer.

s City. . Mis





I Guarantee to Do the Finest Custom Coat and Robe Work in the West.

One thing, I hold my trade, and I could not do so if I did not do their work on the square. My trade is increasing by recommendations of pleased customers. Write for my price list—it will suit you. We do not split the hide, but dress entirely by hand.

HENBY HOLM, Prop. LINCOLN TANNERY Lincoln, Nebraska

Topeka Business College,
26 years of centinued success
Graduates in every state in the
U. S. Most up-to-date school in
the West. We get you the position
Write today for catalog.
III-113-115-117 E. 8th St., Tepeka, Kansas

NURSERY STOCK, DOLLAR SPECIALS

50 Concord Grapes, \$1. 20 Apple, \$1. 20 Peach, \$1. Hardy, vigorous, thrifty. All guaranteed. Only best stock shipped. Catalog and 25c Due Bill sent FREE. FAIRBURY NURSERIES,

Fairbury, Neb. Box L.

STANDARD BOOKS Address, Kansas Farmer, Topeka, Kan.

experience with the milking machine, which machine he has been using for eight months and with which he is well pleased. Mr. Rule is a merchant, but owns a large dairy farm and which farm is conducted on the same principles of business as are employed in his mercantile business. He has been able to make his farms pay during the past two years an annual interest of 8 to 10 per cent on the investment after paying farm expenses, and so is a firm believer in business farm management, as typi-fied by his accomplishments. His farm is capitalized at \$150 per acre.

The creamery interests were represented by Frank Abke of the Concordia Creamery Company. He spoke concerning the prices of dairy products, particularly butter, as they were likely to be affected by the tariff. It was his opinion that the removal of the duty on butter would have little effect on our market. He said that there would continue to be a strong demand for good butter at a price at which the dairy farmer could afford to produce it.

At the business meeting A. B. Wilcox of Abilene was elected president, P. W. Enns of Newton, vice-president, and J. B. Fitch, Manhattan, secretary-treasurer. A legislative committee composed of P. W. Enns, William Newlin and O. E. Reed was appointed. The meeting will be held next year in Manhattan.

In the country butter contest there were 39 entries, and these came from widely separated sections of the state. F. W. Bouska of the Beatrice Creamery Company, Lincoln, Neb., who scored both the farm butter and creamery butter exhibits, pronounced the farm butter exhibit the best he had ever seen. The first prize, \$10 in cash, was won by Mrs. Arthur Child, Manchester, Kan. Mrs. William Wood, Manhattan, won second prize. The third, fourth and fifth prizes were won by Mrs. W. P. Barrow, Waverly, Kan.; Mrs. F. R. Berry, Manhattan, Kan.; and Mrs. J. O. Parker, Scott City, Kan., respectively. Roy R. Edelblute, Keats, Kan., won the \$10 Babcock tester given for the best five pounds of butter produced by United States cream separator. Kansas Farmers has contributed to the association. ER has contributed to the association a silver loving cup to be competed for by Kansas farm butter makers at the next meeting of the association.

In the creamery butter contest the Merritt-Schwier Company, Great Bend, Kan, won the first prize of \$10 in cash Kan., won the first prize of \$10 in cash and will hold for one year the loving cup given by KANSAS FARMER. The score was 96.5. The second prize, \$7.50 in cash, was won by the Continental Creamery Co., Topeka, Kan.; score, 96. The third prize was won by the Topeka Pure Milk Co., Topeka, Kan.; score, 95.5. The fourth prize was won by Belle Springs Creamery Company, Abilene, Kan.; score, 95. The fifth prize was

won by Clay County Creamery Company, Clay Center, Kan.; score, 91.

In the milk contest were 26 entries. This contest inspired much interest, showing that there are farmers in Kansas who know how to produce good milk. sas who know how to produce good milk. The awards in this contest were as follows: A. C. Jones, Olpe, Kan., score 93.5; J. R. Sterling, Abilene, 93; William Newlin, Hutchinson, 92.5; Mrs. George D. Page, Manhattan, 92; Doctor Bentley, Manhattan, 89.7; R. C. Krueger, Burlington, 89.25; George Randolph, Emporia, 89.

Careful Feeding Pays.

From a careful investigation the Minnesota Agricultural College finds that their common cows are capable of producing a much larger yield than is secured from the average common cow in the state. During the past decade the college has had in its dairy herd a the college has had in its dairy herd a number of common cows; that is, cows with no dairy heredity. The average yield from these common cows, for 23 yearly records, is 5,000 pounds of milk and 222 pounds of butter; which last, valued at 27 cents per pound, is equal in round numbers to \$60 for butter alone. The average receipt per common cow in the state is \$46.40; which shows that the average cow is yielding \$14 less per annum than she might easily yield if given the same care and feed as are given the cows at the college.

Save the Straw.

A ton of wheat straw contains approx-A ton of wheat straw contains approximately 220 pounds of nitrogen, 80 pounds of phosphoric acid, and 240 pounds of potash; a ton of oats straw has about 240 pounds of nitrogen, 80 pounds of phosphoric acid and 360 pounds of potash. In addition to the decrease of plant food elements, the soil also suffers when this material is also suffers, when this material is burned, by loss of humus, which is badly needed on most fields. Straw should be conserved and returned to the soil as soon as possible, either directly or in combination with animal manures.

Alfalfa Helped This Stockman. Gus Berg, a well known stockman from Riley County, Kansas, was at the Kansas City stockyards last week looking over the steer market, with the intent of buying 350 head of stock cattle to take out and rough through the bal-

ance of the winter on his farm.

"I have the feed for about 350 steers, weighing around 800 pounds," said Mr. Berg at the yards, and went on to expense at the yards, and went on to expense of the core of the same at the same and the same are of the same plain that his ability to take care of that number of cattle in this off year was due to the fact that he possessed

was due to the fact that he possessed a good field of alfalfa.

"Last season," he said, "I harvested 600 tons of alfalfa of very choice quality, from 400 acres, although the season was not favorable, which was not so bad. It is high grade, and will carry a good sized drove of cattle through the winter."

Buy Your LAST Separator FIRST

If you have never owned a separator don't buy carelessly, only to find that you need and want a really good machine. If you have a worn out or unsatisfactory separator, let your next be a lifetime investment. Get a

Great Western

first instead of "work-up to it." Get our free Art k on Separating Oream and dding Milk. Shows best shods, gives results of exten-experiments and informa-on found nowhere else. Make

\$10 to \$15 more per cow per year. Our book tells how. Write for it at once. Address Rock Island Plow Co. 2850 Second Ave., Rock Island, III.

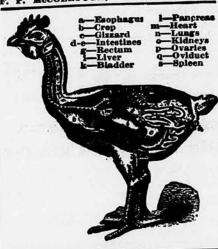
Save \$35 650

Yes sir, I'll save you \$35 to \$50 the first cost alone on the best, most modern, out sanitary and closest akimming cream parator ever built. When you buy New Galloway Sanitary

you pay just one small profit above total cost of materials and labor. Why is y dealer \$55 to \$110 for an inferior materials. Bay direct and savens half. Get my icial 1914 Offer and 90 Days FREE TRIAL
the new Calloway Stations of the same time of the same time right on your farm.
The new Calloway Stations yet in the same time of the same t

SELECT SEED CORN

Big White Diamond Joe 1912 crop. Shelled. \$2.50 bu.; also 100 bu. select alfalfa seed \$6.00 bu. F. O. B. F. P. McCOLLOUGH, Rossville, Kan.



You can find it in the I. C. S. Poultry or Agricultural Handbook—

The above illustration is one of the ninety-five shown in the I. C. S. Poultry Handbook.

This book contains 343 pages of the best ideas and working methods of the most successful poultry raisers in the country—boiled down and indexed for ready reference.

It treats of Poultry House Construction; Composition and Value of Foods; Feeding Chicks, Growing Fowls, Guineas, Geese and Pheasants; Natural and Artificial Incubation; Brooding; Forcing for Eggs and Market; Breeding; Diseases; Treatment; Judging; Poultry Show Rules; Marking Technical Terms, etc.

The I. C. S. Agricultural Handbook contains 381 pages and treats of Soil Improvement; Drainage; Tillage; Farm Crops; Fruit and Vegetable Culture; Live Stock; Feeding; Diseases; Dairying; Bacteria; Bee Keeping; Implements; Machinery; Agricultures ing; Diseases; Keeping; Implementural Tables, etc.

SPECIAL OFFER: time we offer the readers of this magazine either of these regular \$1.25 Hand-books at a special introductory 500 price of for each

	Bex 1138, Scranton, Pa.					
	I enclose \$for which please send me the following HandbooksPoultry					
١	Handbook Agricultural Handbook .					
	Name					
j	been sensen IT F III					





Here's the most reliable 5 H-P. engine in America. I absolutely know that it will wear longer and do more work than any other engine of the same size you over used, even though it cost twice the money. Sold under a positive iron clad guarantee. Don't pay two prices, but be your own dealer.

1½ H-P. \$24.75; 2 H-P. \$28.75; 3 H-P. \$56.50. Other sizes in proportion:

Big 48 Page Catalog

OTTAWA MANUFACTURING CO., 529 King Street, Ottawa, Kansas.











Don't rut roads or fields. Send today for fre llustrated catalog of wheels and wagons. tric Wheel Co., 34 Elm St., Quincy,

VE STOCK



It is much easier to put a bushel of silage into the manger than it is to hitch up the team and go into the fields to draw shock fodder for the cows.

Horse Breeders Seek Protection.

The Kansas Horse Breeders' Association held a two-day's meeting at Manhattan during farmers' institute week. By resolution the breeders declared that the stallion owner should be given more protection by law. He should hold a lien on the mare and offspring for 18 months from the time the mare is bred, they decided. It was suggested that there should be a \$20 to \$50 fine for anyone who should sell, or remove from the state, such mare or colt without the the state, such mare or colt without the consent of the stallion owner. They also expressed themselves as being in of more colt shows. They decided to boost this work through farmers' institutes and fairs.

The officers elected were: George B. oss. Sterling, president; C. W. Mc-The officers elected were: George B. Ross, Sterling, president; C. W. Mc-Campbell, Manhattan, secretary-treasurer. The eight vice presidents are B. P. Waggener, Atchison; A. E. Smith, Lawrence; Arthur Colegrove, Girard; J. H. Lee, Harveyville; W. H. Rhoades, Manhattan; John Evans, Asherville; A. R. Cantwell, Sterling; J. C. Robison, Towanda.

Proper Size in Drafters.

In securing proper size in draft horses Mr. J. H. S. Johnston, of Chicago, in his recent address at Manhattan, laid down the fundamental proposition that after being properly bred, or in other words after having been given the proper sire and dam, liberal feeding was absolutely essential in the production of the big draft horses. He stated that it could be laid down as a general rule that if we expect to produce a ton drafter, when in a reasonable condition of flesh, this horse must weigh in the neighborhood of 1.200 pounds the day he is one year old. The horse must develop during his first year of life somewhat over one-half his weight as a finished horse.

Another fundamental purpose laid down in this talk was that in order to produce big draft colts it was absolutely essential to have big mares. A draft horse of good size and proper conformation cannot be produced by the crossing of the extremely heavy stallion upon light mares.

Farmers who would produce high-class drafters must bear this in mind and secure as much size as possible in the mares which they use on the farm as work teams and for the production of

Mr. Johnston paid high tribute to al-falfa as a feed for developing size and stamina in draft horses. He advocated the working of the youngster at two years of age and argued that if the colt was carefully worked from the time he was two years old until maturity he would be a valuable draft horse and would not owe his owner a cent, having paid back all the cost of feed by the work performed after he was two years old.

Colt Show Leads to Good Horses.

At the recent meeting of the Draft Horse Breeders' Association of Kansas which was held at Manhattan during the State Farmers' Institute week, special stress was given to the value of the colt show in encouraging and stimulating interest in better draft horses. Some strong resolutions were drafted at this meeting asking that the Agricultural College authorities and the extension department in particular in every way possible encourage the colt show as a factor in developing better horses for Kansas. These resolutions urged the necessity for proper classifications and suggested the desirability of calling into consultation Doctor McCampbell, secretary of the Stallion Registry Board, in the interests of improving the classifications followed out at the various colt shows given over the state each season.

J. H. S. Johnston, editor of the Chicago Live Stock World, in giving an address at one of the evening sessions on the subject of size in drafters and how to obtain it, had something to say on the colt show as a factor in bringing

about this desired result. The futurity shows in draft colts which have been conducted at the state fairs of Iowa, Illinois and some of the other states and likewise at the International Stock Show, Chicago, have been the means of bringing out some remarkable entries in American-bred drafters. Mr. Johnston was of the opinion that something of this kind is absolutely necessary in order to encourage the proper feeding of the colts which are produced. In a very few years the colt classes at the big shows mentioned have developed from a showing of five or six improperly developed colts to rings of magnificent draft colts containing 30 or more individuals, many of them good enough to stand in the open classes above imported colts.

Alfalfa as Horse Feed.

Much prejudice has existed in the minds of many of our most prominent horsemen as to the value of alfalfa in a horse ration. Reference has already been made in these columns to the experiments under way at Kansas Experiment Station, having for their purpose the working out of satisfactory rations for developing the drafter without the use of oats.

In the sections of our state where alfaifa has been longest grown, its won-derful value as a feed for growing out horses of size and stamina has been well established. It is probable that in the feeding of work horses on alfalfa the most serious mistakes have been made. The prevailing practice of those who have long been accustomed to using prairie or timothy hay for roughage for horses was to give them all the hay they would consume. This rule cannot be followed successfully in feeding alfalfa to work by the successfully in feeding alfalfa to work horses.

From the standpoint of digestible nutrients, alfalfa is far superior to prairie or timothy hay. It is especially rich in digestible protein. Because of this fact and that fact that as a whole it is a more palatable and digestible roughage than the other kinds of hay mentioned, it must be fed to the horses more as a concentrate is fed. A series more as a concentrate is red. A series of three tests were carried out at Fort Riley. Reports of them have recently been published by the Kansas Experiment Station in a bulletin entitled "Feeding Work Horses." This series of tests, which involved 900 horses, developed the fact that a combination of corn and alfalfa made the cheapest work horse ration that can be used in Kansas. In these tests pats proved to be a better In these tests oats proved to be a better grain for work horses than corn when fed with prairie hay. This was espe-cially true in hot weather. The corn, however, when fed with alfalfa hay under proper restrictions, gave as good results as the ration consisting of oats and ordinarily the alfalfa and corn-ration is nearly a third cheaper than the ration of oats and prairie hay. Oats of high quality are almost invariably high-priced and difficult to obtain in Kansas, and the Kansas horse feeder should by all means learn how to feed alfalfa and corn

The old belief that oats are absolutely essential in order that horses have proper spirit and life proves to be but a fiction. This was successfully tested out with the artillery horses which were used in the experiments referred to.

The Nebraska Experimental Substation at North Platte has made a close study of the value of alfalfa as a forage ration for growing horses. In the tests conducted at this station the value of alfalfa pasture and alfalfa hay was studied in the growing of colts from weaning time to maturity. Cane hay and prairie hay were used in making com-parisons. Results of this test demonstrate that the alfalfa hay produced more increase in weight on colts during the winter period than either prairie hay or cane hay. Running on alfalfa pasture the colts were in excellent condition of flesh and finish and the alfalfa produced no injurious results. The flesh was in no way flabby or temporary. It seemed to be a solid flesh that endured work.

From these tests it was apparent that for developing drafters out to the fullest size, with all the bone and heavy muscular development so necessary in horses of this type, alfalfa was very superior to either cane or prairie hay.

Why We Make a Contract to Cure Mr. W. C. FRALEY, 502 Fisher St., Salisbury, N. C., Mar. 27, '13, writes: I used 2 bottles and cured two horses and one pony of bone spavins two years ago and they are sound as a dollar.

two years ago and they are sound as a dollar.

FOUR YEARS AFTER—STILL SOUND
Mr. H. G. PUTNAM, dealer in Coal, Danvers,
Mass., Oct., 6, '13, writes: Four years ago I
sent for Save-the-Horse for thoroughpin and
made a cure. The horse has done a good day's
work almost every day since on coal wagon.

WE ORIGINATED the plan of treating horses
Under Signed Contract to Return Money if
Remedy fails. You risk nothing by writing; it
will cost you nothing for advice and there will
be no string to it.

OUR LATEST Save-The-Horse BOOK is our 18

OUR LATEST Save-The-Horse BOOK is our 18
Years' Discoveries—Treating Every Kind Ringbone—Thoropin—SPAVIN—and ALL.—Shoulder,
Knee, Ankle, Hoof and Tendon Disease—Tells
How to Test for Spavin; how to locate and treat.
58 forms of LAMENESS—Illustrated.
OUR CHARGES for Treatment ARE MODFRATE. But write and we will send our—BOOK.—Sample Contract and Advice—ALL FREE to
(Horse Owners and Managers—Only).

TROY CHEMICAL CO. 65 Comerce Ave., Binghanter, R Druggists everywhere sall Save-The-Horse WITH CONTRACT, or we send by Parcel Post or Express, paids



PRICES! Give size of roof and

ever offered on STEEL Shingles. price ever offered on STEEL Shingles. And these are the genuine Edwards. Can't burn or rot. Can't rust (due to Edwards "Tightcote" Process and patent Interlocking Device). Many times easier put on than wood, cost less and last four times longer. Over 125,000 satisfied users. Sold direct from factory to user. Freight prepaid. Write Edwards at once. If you can't give roof size, get prices anyhow. Ask for Booklet 1363. (141)

This Brings Big Offer
THE EDWARDS MFG. CO.
1813-1363 Lock Street, Cincinnati, Ohio
Please send Book on your Steel Shingles, together with latest Freight-Fald prices.

ROYAL ONE HORSE GASOLINE-ENGINE

Handy, economical, reliable—
just the engine that thousands of
farmers need and want-small in price,
ligh in the engine that thousands of
farmers need and want-small in price,
ligh in the engine of the largest and
deet manufacturing firms in the west. Relia
dity positively grant as mall out with the force
to small engine the small out with the force
EFER DOLLAR SWANNE CONTROLLER. FREE ROYAL ET Smith & Sons Mig. Co.





882 Industrial St. PEORIA, IL



Forty Thousand Tons

of silage put up this year in Concrete Silos

Built by HOPPER & SONS, of Manhattan, Kan.

Feeder Cattle at Denver.

If all the cattle entered at the Denver Live Stock Show, which will be held January 19-24, get there, it will be the largest exhibit of feeder cattle ever before seen in Denver, and this means the largest of the kind ever held in the world. The quality of the cattle shown this year will be the best ever seen. For ten years now the big breeders of the Rocky Mountain section have been improving their cattle and every year they meet at the Denver show to compare results and measure up what pro-Feeder Cattle at Denver. pare results and measure up what progress they have made. The best cattle exhibited at the first show, nine years exhibited at the first show, nine years ago, would not be in the money at the coming show. The use of high class bulls and better breeding methods is responsible for the wonderful progress which has been made. There will be close to a million dollars worth of these fancy cattle sold at Denver during show weak cattle sold at Denver during show week and they will go to all parts of the country for finishing.

National Live Stock Association Meets
In Denver.

The American National Live Stock
Association will holds its seventh annual
convention in Denver, January 20-22,
during the Denver Stock Show. There are many questions which will come up for consideration at the convention,

among them the following:

Elimination of valuation clause in live stock contracts of railroads; speed minimum for live stock; cases pending before the Interstate Commerce Commission involving rates on live stock; delay in furnishing stock cars; railway service; meat inspection law; prohibitive service; meat inspection law; prombitive tax on oleomargarine; advance in com-mission charges for sale of live stock; and many other subjects of national im-portance to the stockmen of the West. The discussion of these questions will not be confined to the members of this association; any stockmen in attendance will be allowed to take part.

This organization has done much for

This organization has done much for the live stock in rests of the country. The new tariff the placing live stock and meats on the free list, was signed October 3, 1913, and went into effect on the following day. The organization, through its efforts, was able to secure a satisfactory amendment, providing for adequate inspection of all imported meats on substantially the same basis as now applies to our domestic production. The effect that free meats and free live stock will have on our home prices, the world supply of meat-food animals, live stock conditions in other surplus countries, and the probable volume of meat imports into this country, will be thoroughly discussed at the meeting by well informed officials of the government and representative stockmen.

T. W. Tomlinson of Denver, Colo., is secretary of the association.

Fattening Steers in Short Corn Years. Owing to the fact that corn is so scarce and high priced this year there is little full feeding of cattle on the farms of Kansas this season. Some of our feeders, however, are unwilling to drop out of the game and are using corn silage with cotton seed meal as a finishing ration. C. F. Henson of Miami County, has just reported to KANSAS FARMER the results of the first 45 days on a bunch of store which he has been on a bunch of steers which he has been feeding without corn. Mr. Henson filled his silo with corn, there being but little corn matured on the crop that he used in the filling. He also saved the first cutting of clover hay, getting it up at the right time so that the quality is

on November 15, Mr. Henson bought in the Kansas City Stock Yards 61 head of steers averaging 922 pounds in weight. They were rather plain, native cattle. On getting them home they were placed in a feed lot and for the first 15 days had free access to straw and were given three pounds of cotton seed meal daily per steer and all the silage they would clean up. Beginning on the first day of December these cattle were given a feed of clover hay during the middle of the day, each steer re-ceiving about 15 pounds; the cotton seed meal in the meanwhile had been increased to five pounds per head. The whole ration of cotton seed meal was fed with the morning feed of silage, fed with the morning feed of silage, and in the evening they were given another feed of silage, the total consummation daily amounting to about 30 pounds per steer. Mr. Henson reports that on the first day of January he weighed these cattle and found they had made a gain of 152 pounds per steer. Mr. Henson thought he should allow for a three per cent shrinkage which would make the net gain per steer 120 pounds for the 45 days since they were started on feed.

The plan is to continue feeding these

cattle for 30 days more without corn and then add some shelled corn to the ration for the next 30 days. So far the results in feeding this bunch of steers have been very satisfactory to the owner. C. M. Garver of Dickinson County, who has for a number of years used silage very extensively in finishing steers for the market, has likewise secured most satisfactory results: As a result of his experience along this line he has estimated that 20 pounds of line he has estimated that 20 pounds of silage in the steer feeding ration is equivalent to eight pounds of corn. It has been his practice to use about 20 pounds of silage per steer daily in the fattening steer ration. This 20 pounds of silage has not cost in the silo to exceed two cents under conditions prevailing in normal years. At the present vailing in normal years. At the present market price of corn, eight pounds of corn will represent a value of 10 cents. It is evident from this that the use of silage has affected great saving in the fattening of cattle. In the feeding of stock Mr. Garver has followed the pracstock Mr. Garver has followed the practice of allowing 30 pounds of silage and 15 pounds of silage hay per head, daily, and in summing up his experiences since he has been using silage he estimates that this amount of silage and alfalfa produces two pounds of beef. Estimating the silage at \$2 per top and alfalfa produces two pounds of beef. Estimating the silage at \$2 per ton and alfalfa hay at \$12 per ton this would mean that a pound of beef has been produced for six cents and this is allowing a good liberal profit on the production of the feed used. Mr. Garver writes us as follows. concerning his conclusions along lows, concerning his conclusions along this line: "I think this solves the problem of producing beef on high priced land, as the 30 pounds of silage and 15 pounds of alfalfa can be produced on \$125 land for six cents."

Mr. Garver reports that he has fed silage to brood mares and colts, like-wise with good results and has found that it was an excellent food for brood sows during the winter season.

Farmers Interested in Gasoline Engines.

That farmers are interested, more than a curious way, in steam and gas traction engines, motor cars, farm electric light plants, and waterworks for the farm, was evident during farmers' institute week at Manhattan when 199 farmers and their sons registered for the four days' instruction in engineer-Even such technical subjects as carburetion, and the ignition and cooling of gas engines, hold their attention.

The subjects were treated in such a manner as to be of special interest to the farmer. The use of steam and gas for form work road building and other the farmer. The use of steam and gas for farm work, road building and other heavy work, both with traction and stationary engines, was discussed. Sev-eral of the lectures were illustrated with lantern slides. Eleven manufacturing companies took part in the in-stitute. They sent machines, and stitute. They sent machines, and experts to set them up and demonstrate what they should do. The engineering building was open every afternoon, and the representatives of the various com-

Solid Comfort Vehicles

Our price for the splendid buggy illustrated below is \$61.90. It has triple panel auto seat, genuine leather upholstering, highest type body construction, triple braced shafts, best wheels made, full wrought fifth wheel, real long distance self oiling axle. Shipped from a warehouse near you.

If you want to read the complete description of this and many other vehicle bargains, turn to the vehicle pages of our big General Catalog. Compare the quality and prices with others and remember the guarantee of satisfaction we give you.

If you haven't our big General Catalog, simply say "Vehicles—65K69" on a postal card and mail to

REATER values than we have ever before been able to offer are shown this year in our complete line of Solid Comfort Vehicles as illustrated and described on the vehicle pages of our General Catalog. Our Leader, illustrated below,

is the biggest selling buggy ever manufactured. More than 50,000 are in daily use. But we offer equal values in other buggies, surreys, runabouts and spring wagons. Every vehicle we sell is guaranteed to give perfect satisfaction always. Our enormous vehicle business enables us to furnish the fullest measure of quality, style and workmanship, at prices a great deal lower than



Sears, Roebuck and Co., Chicago

Kansas Farmer is the Farm Owners' Paper

The classified advertising columns of KANSAS FARMER are read by over 60,000 of the best farmers in the country each week. It is their market place. They are the farm owners and the best buyers. If you have live stock, pet stock, poultry, lands, seeds, plants, implements, vehicles, automobiles, etc., to sell, or if you want to buy or exchange, remember that in these classified columns is the market place for these thousands and thousands of possible customers, and that the cost of reaching them is very small. See head of classified columns for rates.



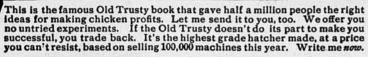
Why experiment with other remedies—when you know what Kendall's has done and can do. You can get Kendall's Spavin Cure at any druggist's, \$1.00 per bottle, 6 for \$5.00. Ask for free book. "Treatise on the Horse," or write direct to

Dr. B. J. Kendall Company.

Enosburg Falls, Vt., U.S.A.



This Key to Poultry **Profits Mailed FREE**



Makes Big Hatches in Coldest and Warmest Weather month after month, year after year!

Three or four times as many in use as any other. It's because it's practical—simple. Anyone can operate it. Highfalutin' instructions are not needed. For good average hatches in coldest winter as well as in summer. Old Trusty outranks all other incubators.

I give a 20 year guarantee —30 to 90 days' trial — pay the freight will ship your hatcher the same day your order arrives. Write y for the book — now is the time to start. Address: JOHNSON, Incubator Man, - Clay Center, Nebraska



SEEDS & TREES THAT

My 1914 Garden Book is now ready. It is full of instructions and information you need. It your season. Full assortment of Vegetable and Flower Seeds, Seed Corn, Oats, Barley, Millet and Sorghum, Alfalfa, Clovers of all kinds, Grass Seeds, and Minnesots grown Seed Potatoes. Can supply anything you need on your farm or in garden. All my seeds comply strictly with the laws of our state in regard to purify and germisation. We also grow a general assortment of Fruit and Forest trees, Grape Vines, Berries, Shrubs, and Roses. Low prices. Best quality only. Write today for my Garden Book my Garden Book. BEATRICE, NEB. GERMAN NURSERIES & SEED HOUSE (Carl Sonderegger) 25 German Bldg.

White Plymouth Rocks

Again prove their superiority as egg layers in the National Egg-Laying Contest, one White Rock hen laying 281 eggs; 645 hens competing. I have bred White Rocks exclusively for 20 years and have them as good as anybody. Eggs from three high-scoring pens, \$2.00 per 15; \$5.00 per 45, delivered free by parcel post or express. Safe delivery guaranteed. A limited number of eggs from a specially fine mated pen, \$5.00 per 15. You will get what you order, or money refunded.

THOMAS OWEN.

THOMAS OWEN, Topeka, Kansas. Station B.

PURE BRED POULTRY

RHODE ISLAND REDS

ROSE COMB RED COCKERELS FOR

FOR SALE—RED PULLETS, BOTH combs, \$1.50 each. One R. C. scored cockerel. Q. F. Lambert, Palmer, Neb.

FOR SALE—ROSE COMB R. I. RED cockerels, \$1 each. Eggs in season. Minnie Rexroad, Darlow, Kan.

SINGLE COMB REDS, WINNERS EAST-ern Kansas shows. Twenty quality cocker-els, \$2 to \$4. Wm. Edwards, Westphalia, Kan.

WALKER'S STANDARD STRAIN OF S. C. Reds. Stock and eggs. Quality and prices made attractive. Address Walker Poultry Co., Chillicothe, Mo.

BIG-BONED DEEP RED R. C. REDS— ong back, low tall, red eyes, high scoring. 2,50 and \$5 each. Guaranteed. Highland arm, Hedrick, Iowa.

100 ROSE COMB RHODE ISLAND COCKS and cockerels that have shape, color and size, sired by roosters costing \$10 to \$30, \$1.50, \$3 and \$5 each. Good hens, \$1.50 each. Pens mated for 1914 are the best we ever had. Send in your orders early. W. R. Houston, Americus, Kan.

No. 1 Horse Hides......\$4 each No. 2 Horse Hides.....\$3 each

Honest weights, highest prices, and no commission. Your check sent same day simpment arrives. This company has been highest in favor for 45 years. Ship today or write for free price list and tags.

JAS. C. SMITH HIDE COMPANY 12I THIRD ST., TOPEKA, KAN. Wichita, St. Joseph, Joplin, Grand Island

FREE

NEBRASKA POULTRY COMPANY Clay Center, Neb.

Will send plans and specifications of a pure air poultry house, free. We breed all paying varieties of poultry, and have these houses in practical use. Address W. F. HOLCOMB, Manager.



PFILE'S 65 Varieties

AND and Water Fowls. Farm-raised stock, with edds in season. Send 20 for my valuable illustrated de-scriptive Poultry Book for1914, Write Henry Pfile, Box 634. Freeport, Ill.

43 VARIETIES—Poultry, Pigeons, Ducks, Geese, Water Fowl. Incubators, feed and supplies. Catalog, 4 cents. Missouri Squab Co., Dept. D. R., Kirkwood, Mo.



BABY CHICKS.

BABY CHIX—TEN VARIETIES. ORDER now for March-April delivery. Free circu-lar. Kansas Poultry Co., Norton, Kan.

After the holidays are over and the days begin to lengthen, the poultryman's thoughts turn to the hatching problem. In fact, the breeders of the large varieties of fowls frequently hatch their chicks in January and February.

If there is a poultry show within any reasonable distance of your town, you should attend it by all means, and if you have no thoroughbred poultry you should pick out the fowls you would like to raise and buy a pen to take them home with you.

The best way to prevent loss from disease among the fowls is to keep the birds healthy. It is far better to spend an hour or two doing the things that will prevent sickness than it is to spend three times as long doctoring sick birds. The ounce of prevention is far better than the pound of cure.

If you are planning to have one or more incubators for the work of the coming spring, you had better order now and have them in readiness. It is a poor plan to wait till you are in actual need of an incubator and then write for need of an incubator and then write for immediate shipment. During the spring rush for machines you will have to take your turn. Now you can get a quick shipment and be prepared for the early spring hatching. If you have not yet decided on the kind of incubator you want, send off for the catalogs of the machines advertised in this paper and you will be able to pick out a good one. you will be able to pick out a good one.

Every poultry breeder should have some books on the care and management of poultry. Even though your own efforts are on a small scale, you should know of the best efforts, and what other poultrymen are doing. It is a pretty expensive way to learn the business by nurs expensive. pure experience. To be sure, much must be learned in this way, but many un-profitable ventures might be avoided if you could only read of someone who had tried this particular thing and failed. It would save you time and money. You should have a book devoted to your particular breed of fowls and study it thoroughly. You can not know too much of any business if you would be successful in the state of the

A limited variety of grains will produce eggs at some seasons of the year, but if you want to get eggs in winter you should use as many kinds of grains as possible. In fact, you should feed as great a variety of everything you can get. The green food should be clover or alfalfa, sprouted oats, cabbage, beets, small potatoes, or anything else that will serve for greens for the hens. The birds need to have the winter changed into summer for them, at least so far as the diet is concerned. It is impossible to have the houses as warm as in summer time, nor is it necessary, but the fowls can stand the cold as long as they get the proper food with plenty of

Give the boy a chance. Give him a pen of thoroughbred fowls and let him strike out for himself. It will develop his business ability and keep him away from mischief. Many a boy has started with well-bred chickens and kept at it until he had a good paying business. Many of the advertisers in the poultry columns are boys who have started in with the work in a small way, and having made a success of it, have branched out into a successful fancy poultry business. Make him keep a correct account of all his expenditures and receipts. Make him pay you for the feed you provide for his chickens, and when you kill one for your table, pay him for it. Pay him also for all the eggs you use. This will keep him interested in the business and develop his commercial activities.

The advent of the Indian Runner duck has augmented the business of duck raising wonderfully. They lay so many eggs, in comparison with other ducks, that they have been found very profitable and a welcome addition to the chicken business. They are prolific, they graw rapidly and are excellent table grow rapidly, and are excellent table fowls. They are quite free from ordi-nary diseases and never have roup, diphtheria or catarrh, and are not

troubled with vermin. They have no combs and wattles, and so can withstand the cold better than hens and do not need as careful housing. The young ducklings are hardy and they grow rap-idly from the very first, and are ready for market at from eight to twelve weeks. No elaborate buildings are nec-essary, so that the cost of housing is essary, so that the cost of housing is very small. It is not really essential that they should have a pond or creek, but only enough water for drinking and an occasional bath. During the laying season the ducks should be kept inside their house for a couple of hours after daylight, as they drop their eggs anywhere they happen to be if running at large. But as they lay at night, or early in the morning, there will be plenty of time for them to do all the foraging necessary after they have laid foraging necessary after they have laid their eggs.

One day last week a farmer drove into Garden City, Kan., with 154 grasshopperfed turkeys. They came from the E. K. McCue ranch north of Garden City, and he received \$329.70 for them. They he received \$329.70 for them. They were brought to town dressed, and they filled a lumber wagon with the side-boards. Except for \$24 in corn fed to them during the snow this fall, the turkeys were self-made. They lived on a grasshopper diet during the summer and roamed the fields for their keep this fall. Many turkeys have been raised in fall. Many turkeys have been raised in Finney County this season and a great number shipped out in carload lots for the holiday trade. This is an easy way of making money, for the turkeys, be-sides finding their own feed, rid the fields of the crops' worst enemies, bugs and grasshoppers.

Poultry Houses and Fixtures.

Select a location that has natural drainage away from the building. A dry, porous soil, such as sand or gravelly loam, is preferable to a clay soil. In most localities the building should face the south, as this insures the greatest amount of sunlight during the winter. Allow at least two square feet of floor space per bird. Proper ventilation and space per bird. Proper ventilation and sunlight mean a dry house and healthy birds. The partial open-front house is conceded to be the best type for most sections. The colony plan of housing poultry may be adopted to good advantage on many farms. This system does away with the danger of tainted soil. The roosts should be built on the same level, two feet six inches from the floor. level, two feet six inches from the floor, with a dropping-board about eight inches below them. Good roosts may be made of 2x2 inch material with upper edges rounded. The nests may be placed on the side wells or under the dropping. edges rounded. The nests may be placed on the side walls or under the dropping-boards. It is best to have them darkened, as the hens prefer a secluded place in which to lay. In order to obtain eggs it is necessary to have healthy, vigorous stock, properly fed. A splendid mixture for laying hens is equal parts of cracked corn, oats and wheat, which should be scattered in the litter. Bran or middlings and beef scraps should be kept in receptacles to which the fowls have access at all times. Plenty of exercise inreceptacles to which the lowis have access at all times. Plenty of exercise increases the egg yield. Provide four or five inches of good, clean litter in which to scatter the grain. Cabbage, mangels, potatoes, sprouted oats, etc., make excellent green food. When wet mashes are fed, be sure they are crumbly and not sticky. For the first three days chicks may be fed a mixture of equal parts hard-boiled eggs and stale bread, or stale bread soaked in milk. When bread and milk are used, care should be exercised to squeeze all milk out of the bread. From the third or fourth day until the chicks can eat wheat and cracked corn, commercial chick feed is a good ration. Plenty of pure, fresh water, grit, shell, and green feed should be available from the first day. There is very little danger of over-feeding young stock. Feed the chickens about five times daily, and only what they will clean up in a few minutes, except at night, when they should receive all they want.—Farmers' Bulletin 528, U. S. A.

The practice of getting rid of the poorer cows and replacing them with better ones looks mighty expensive, but it is not nearly so much so as keeping them to drag down the profits of the

GRANGE The

DIRECTORY OF THE KANSAS STATE

All Day Grange Meeting.
Shawnee Grange No. 1503 held an all day meeting and a basket dinner in their

day meeting and a basket dinner in their hall at Watson on New Year's Day. One of the purposes of the meeting was to install the newly-elected officers, but the crowd was so large and there was such an abundance of good things to eat that the installation was postponed until the regular meeting. About 200 were present and greatly enjoyed the dinner.

After dinner a delightful musical program was given, the Tecumseh Band furnishing no small part of the afternoon's pleasure, which was thoroughly enjoyed by all present. Every one agreed that it was the most enjoyable New Years they had spent since the Grange was organized.

was organized. In the evening the hall was cleared and the young people engaged in dancing. About a hundred dancers were present and enjoyed themselves. — GLADYS

Report from Valley Grange No. 736.

Valley Grange No. 736 met in regular session the fourth Friday of November. After the regular business the worthy master, C. M. Cellar, on behalf of Valley Grange, presented our worthy secretary-treasurer, Mrs. Eve Gasche, with a book, "The Granger Movement."

The program that followed was a de bate among the women, "Resolved, that the life of the farmer's wife of today is the sweetest and most delightful that

can fall to the lot of any woman."

The meeting was very interesting and closed in regular order.

At the previous meeting on the after-noon of the second Friday in December noon of the second Friday in December officers were elected as follows: Worthy master, W. J. Duffey; overseer, H. M. Irey; lecturer, Mrs. Eve Gasche; steward, J. H. Howell; assistant steward, W. C. Beall; chaplain, Mrs. J. H. Howell; treasurer, J. H. Arnold; secretary, C. R. Dryden; gate keeper; J. M. Patrick; Ceres, Mrs. N. L. Towne; Pomona, Mrs. W. J. Duffey; Flora, Mrs. R. McGrath; lady assistant steward, Miss Opal Fields; chorister, Mrs. C. M. Cellar. W. B. Cellar was elected delegate to attend the insurance meeting at Olathe, Janu-

the insurance meeting at Olathe, January 7, with J. M. Patrick as alternate.

Our Grange believes every Grange in the state should have sent a delegate to their meeting.—Mrs. Belle Cellar.

The Value of Organization. The Grange has been a mighty power in the land because of its local, state and national organization feature. It and recommendations of the control of the c has a power that makes Congress sit up and take notice. No individual organ-ization of farmers could accomplish such great ends. County clubs that are purely local may accomplish as much in the way of benefit to local members, or the improvement of local conditions, but as a factor in state and national affairs the local club can not hope to have the influence that it would were it officially connected with a national organization

influence that it would were it officially connected with a national organization with a large sum of money back of it.

When the parcel post law was threatened with repeal or change a few months ago the Grange got busy throughout the nation and congressmen "got letters from home." They saw that tinkering would not be tolerated. But the affair was simply postponed. This winter the question will likely come up again and all farmer organizations must keep their eyes open and their pens ready.

Keep your rural organizations alive and doing. Make your power felt both locally and nationally. The way to get better schools, better roads, better government, better everything is to pull together. Lay aside personal interests, church prejudices, political differences, and work with your neighbors in some kind of a farmers' club or organization.

—Successful Farming. -Successful Farming.

Kansas Without Cheese Factory.

We have an inquiry from H. A., one of our Wilson County subscribers, concerning home cheese factories. Our correspondent is interested in securing di-



rect from the producer. As far as we know there is but one cheese factory in operation in Kansas and this one is operation in Ranson a small scale. KANSAS FARMER took up in its columns at one time quite extensively the dis-cussion of cheese making in Kansas. Under the conditions which prevailed it was apparent that the making of cheese

was apparent that the making of cheese commercially in our state was impractical. Some few cheese factories were started but all have given up this method of utilizing the dairy product.

Milk for the production of cheese must be absolutely first class in quality. The getting of this milk to the factory in this condition in large quantities is no small item. The climate of our state is not especially adapted to the proper curing of cheese and it required the use of artificial methods to so ripen cheese curing or cneese and it required the use of artificial methods to so ripen cheese as to be comparable in quality with the cheese of states where climatic conditions were more favorable. It was possible to do this but the expense of the whole business was such that the product could not compare with that of product could not compete with that of other localities. This, combined with other factors concerned in the manu-facturing of milk into cheese, made it impractical to develop the business under conditions as they exist. The dairy products of Kansas can be more profitmade into butter than as cheese.

Those who desire can make cheese

with a fair degree of success on the farm. It would require careful knowl-to all the details of the process.

Turn Your Spare Time Into Cash, Boys.

If you would like to own a fine \$260 1914 model motorcycle and earn good wages while working for it, send your name and address to Contest Manager KANSAS FARMER, Topeka, Kan. The third motorcycle contest is just starting. Five hundred dollars in prizes will be awarded. It costs you nothing and you can turn your spare time into cash while farm work is slack.

Every farmer ought to look up the lighting plant proposition for the farm home and around the stock buildings. nome and around the stock buildings. Safety and efficiency are the two points to keep in mind when installing such a system. Buy none except on the "paywhen-satisfied" plan, and give the system a thorough and satisfactory test before accepting and paying for it.

Motorcycle Free.

If you would like to own one of the new 1914 model two-speed motorcycles, low gear, neutral and high-speed clutch, or one of \$500 in valuable prizes, just send your name and address to Contest Manager Kansas Farmer, Topeka, Kan. Send no money. It costs you nothing to enter this contest.

Kansas Farmer Sells Poultry.

We have shipped all of our turkeys as the result of our ad in Kansas Farmer. We find that our flook was entirely too small to meet the demand. Could sell many more if we had them.—C. F. BEHRENT, Oronoque, Kan.

Munsell On the Job.

Munsell On the Job.

One of the busiest men we know of is Ed Munsell of Herington, Kan. Mr. Munsell owns one of the good Duron Jersey herds in Kansas and is busy making preparations for his big March 7 bred sow sale. Ed says he changed the date in order to be a little nearer the alfalfa season and thereby take the expense of feeding until then himself. The Munsell herd contains some of the best breeding to be found anywhere, and his bred sow offering will be fully up to the standard. The Jersey cattle look fine and are a source of daily revenue, paying well for the silage consumed. Remember Mr. Munsell's date and plan to attend the sale. More will be said about it later.

PURE BRED POULTRY

WYANDOTTES

FINE WHITE WYANDOTTE COCKER-els for sale. J. Benjamin, Cambridge, Kan.

GOOD HEALTHY COCKEBELS AND pullets in Silver Wyandottes. Prices reasonable. H. L. Brunner; Newton, Kan.

BUFF WYANDOTTES—CHOICE BREED-ing stock at all times. A few good cock-erels on hand. Must be taken soon. Wheeler & Wylle, Manhattan, Kan.

SILVER WYANDOTTES, THE KIND that lay. Birds that can win in the show room. Send in your order. M. B. Caldwell, Broughton, Kan.

FOR SALE—EXTRA GOOD GOLDEN Wyandotte cockerels and pullets; also one pen Partridge Rocks. C. E. Florence, El

FOR SALE—A FEW PARTRIDGE WY-andottes. Cockerels, springs, at \$1.50 each; hens and pullets at \$1.25 each, of good qual-ity. H. W. Hudson, Sylvia, Kan.

LEGHORNS

R. C. W. LEGHORN COCKERELS, \$1,50 each. Fred W. Cornell, Wakefield, Kan.

SINGLE COMB WHITE LEGHORNS, \$1.

S. C. WHITE LEGHORN COCKERELS, \$1.50. Mrs. Ennefer, Pleasanton, Kan.

S. C. BROWN LEGHORN COCKERELS, extra quality. Six for \$5. Mrs. L. H. Hastings, Thayer, Kan.

CHOICE S. C. W. LEGHORN COCKER-ls, \$1 and \$2 each. J. H. Vinzant, McPher-on, Kan.

SINGLE COMB WHITE LEGHORN cockerels for sale, \$1 to \$1.50 each; pullets, \$1 each. Q. F. Lambert, Palmer, Neb.

ROSE COMB BROWN LEGHORN COCK-erels, \$1 each. Prize winners. Otto Borth, Plains, Kan.

ROSE COMB BROWN LEGHORNS FROM ize winning stock. Cockerels and pullets, each and better also trios and pens. Mrs. E. Wright, Wilmore, Kan.

FINE SINGLE COMB WHITE LEGHORN cockerels, prize winning stock, \$1 to \$1.50. White Holland Turkeys, hens, \$2; toms, \$4. Mrs. Frank Odle, Wamego, Kan.

LIGHT BRAHMAS, BROWN LEGHORN hens, cheap. Bronze Turkeys, cockerels, several breeds. Emma Ahlstedt, Roxbury, Kan.

EXHIBITION SINGLE COMB WHITE Leghorns, exclusively; 200 grand show cockerels. If you want prize-winners, write for description and prices. Satisfaction guaranteed. W. H. Sanders, Box E275, Edgewater, Colorado.

TURKEYS

WHITE HOLLAND TOMS FROM PRIZE-winning stock. G. D. Willems, Inman, Kan.

FOR SALE—MAMMOTH BRONZE TUR-keys, White Wyandotte cockerels. Alex Thomason, Havana, Kan.

PURE - BRED MAMMOTH BRONZE turkeys for sale. Mrs. Wm. Foster, More-head, Kan.

MAMMOTH BRONZE TURKEYS FROM winners at state show; the best I ever offered for sale. Also registered Scotch Collie pups. I. P. Kohl, Furley, Kan.

DUCKS AND GEESE.

CHOICE INDIAN RUNNERS. — DUCKS, \$1.50; drakes, \$1.25. Mrs. E. M. Jones, Granger, Mo.

LANGSHANS.

BIG-BONED DARK-EYED GREENISH glossy black Langshans, \$2.50 each. Guar-anteed. H. Osterfoss, Hedrick, Iowa.

BLACK LANGSHANS—COCKERELS scored by Rhodes. Pullets cheap. Martha Haynes, Grantville, Kan.

FOR SALE — PURE-BRED WHITE Langshan cockerels, \$2.00 and \$2.50 each. Henry Neidig, Madison, Neb.

MAMMOTH BLACK LANGSHANS—FROM laying strain. A few cockerels for sale at \$3 each. Won't last long. Order now. Lester Luther, Cimarron, Kan.

PURE BRED POULTRY

ANCONAS.

COCKERELS — ANCONAS, REDS, PENciled Drakes, Bourbon Red Turkeys, Mrs. Frank Wallace, Weldon, Iowa.

SEVERAL BREEDS

FIFTEEN VARIETIES OF LAND AND water fowls. Send for catalog. Albert Hill, Route 3, Freeport, Ill.

BUFF ROCKS AND BLACK LANGSHAN ockerels, \$1 each. Raised on separate arms. Mrs. Newton Comman, Rosedale,

PAYING 18C FOR TURKEYS, HEAVY hens 12, springs 12½, stags 11, geese 11, ducks 13. Coops loaned free. Daily remittances. The Copes, Topeka, Kan.

PLYMOUTH ROCKS.

CHOICE QUALITY WHITE ROCK ockerels. F. A. Stever, Effingham, Kan.

BABRED ROCK COCKERELS, PRICES reasonable. Dradle Dunbar, Columbus, Kan.

BARRED ROCK COCKERELS, SHELLA-barger strain, \$2 up. Mrs. P. A. Pettis, Wathena, Kan.

CHOICE BARRED PLYMOUTH ROCK ockerels at \$1.50 to \$3 each. Also eggs. Leighton, Effingham, Kan.

FOR SALE—PURE-BRED WHITE ROCK cockerels, \$1 and \$2 each. Good scoring birds. Mrs. C. J. Hose, Osborne, Kan.

BARRED ROCKS — 68 PREMIUMS. Choice cockerels, \$3 each and up. Mrs. D. M. Gillespie, Clay Center, Kan.

THREE DOZEN BARRED ROCK PUL-lets, early hatched, \$10 per dozen. Not less than one dozen sold to any one person. Margaret O'Keefe, Stilwell, Kan.

BARRED PLYMOUTH ROCKS FOR sale. Cockerels at \$2; pullets and last year's hens at \$1 each. Four male and four female Hampshire pigs for sale. E. S. Tallaferro, Route 3, Russell, Kan.

BARRED ROCK COCKERELS—UTILITY birds for the farm flock, hatched from mated pens. Light colored, \$2.00 each; medium and dark, \$3.00 to \$5.00. C. C. Lindamood, Walton, Kan.

SOME SPLENDID BARRED ROCK cockerels and cockerel-bred pullets, sired by Sensation, first prize cockerel at State Show, 1913. For further information write me. Mrs. R. J. Molyneaux, 523 Baltimore St., Wichite Ker. Mrs. R. J. Moly Wichita, Kan.

BARRED PLYMOUTH ROCKS—A FEW fine cockerels and pullets for sale at right prices. Have won many prizes in state and county shows. No better rocks in Kansas. Eggs after February 1, \$2 per 15. J. C. Hoyt, Barred Rock Specialist, El Dorado, Kan.

CORNISH FOWLS.

GOOD CORNISH COCKERELS, PULLETS from state show winners. Dollar each and upwards. Eggs in season. L. C. Horst, Newton, Kan.

ORPINGTONS.

KELLERSTRASS WHITE ORPINGTONS

Cockerels extra fine for breeding pens at \$3.50 each while they last. Order now. Lester Luther, Cimarron, Kan.

SINGLE COMB WHITE ORPINGTONS
A few cockerels and pullets at \$2 each. I
furnished first hen and second cock at
Washington Avenue show, St. Louis. Eggs
in season, \$2 per 15, \$8 per 100. W. G.
Langehenig, Jackson, Mo.

Lomax Jersey Herd.

Attention is called to the ad of Lomax Jersey Farm. The Lomax and Hurst Jersey Farm the Lomax and Hurst Jersey herd at Leona, Kansas is one of the select herds now assembled. The herd of Jersey cows on the Lomax farm is made up entirely of representatives of the best and most popular families of the breed and they are strictly high class individuals. The herd is headed by the great Jersey bull, Brighton Lad, one of the best bulls of the Jersey breed now in service. He is assited by a grandson of Rolla's Eminent, a splendid young bull and a prospect for a great herd header. They are offering for sale at this time a son of Stockwell's Fern Lad. This bull is a splendid individual and is ready for service. They are also offering bull calves sired by Lanseer Eminent. All of the bulls offered are out of dams that are among the best in the herd and they are pricing them right. Write them at Station D, St. Joseph, Mo.

Registered Holstein Cattle At Auction

At South Omaha, Nebr., Feb., 3, 1914 At the Live Stock Sale Pavilion

Sixty-five Cows and Heifers, milking or soon due, by some of the best sires of the breed, among them several high record A. R. O. cows.

Twenty-five Heifers and Heifer Calves, among them several granddaughters of King of the Pontiacs.

Ten Bulls, all ready for service and with the best of A. R. O. backing.

All animals over six months old are tuberculin tested. For catalog, ready about January 25, address

Henry C. Glissman, Station B, Omaha, Nebr.

BARGAINS LAND

ARKANSAS VALLEY HAY AND STOCK RAN

170 ACRES in fine alfalfa, sweet clover and prairie hay. All well fenced, house of 7 rooms, bearing fruit trees; nice grove, 3 miles town, 7 miles county seat and Division Ranch joins free range. Price, \$50 per a. Can furnish good title and terms. 6% int. Owner must retire on account of old age. Also have a few quarters smooth raw land real cheap. Commission to agents. Write today. BOX 451, SYRACUSE, KANSAS.

BUY or Trade with us—Exchange book free. BERSIE AGENCY, El Dorado, Kan.

CLOUD COUNTY LANDS

160-acre well improved farm for sale. W. C. WHIPP & CO., Concordia, Kan.

VIRGINIA FARMS & HOMES

Free Catalogue of Splendid Bargains. R. B. Chaffin & Co., Inc., Richmond, Va.

80 ACRES, 4 miles McAlester City, \$15,000. All bottom, all tillable, no rock, no overflow; 25 acres in cultivation; fair improvements. No better land in county. Double in value in three years. \$33 per a., terms. SOUTHERN REALTY CO., McAlester, Okla.

230 Acres, Franklin Co., Kan. Six-room house, barn 30x48, splendid water; 5 ml. Pomona. Price, 445 per a., for quick sale. ALLEN MANSFIELD, JB., Ottawa, Kan.

HOME ADJOINING TOWN.

240 acres, 6-room house, plumbed for gas; good barn; 140 acres in cultivation, 40 acres alfaifa, balance meadow and pasture; natural gas on farm; royalty, \$300 per year. Price, \$10,000; one-half cash, balance 5 years at 6 per cent. Also other farms for sale in corn, gas and oil belt of N. E. Oklahoma.

J. A. WETTACK, Newsta, Oklahoma.

EIGHTY ACRES 2 miles from Quenemo, Kan.; 6-room house, large barn, water, 30 acres farm land, balance pasture and meadow. Price \$2,800, terms. 160 ACRES, 4 miles from Quenemo, Kan.; 20 acres pasture, 20, acres alfalfa, balance farm land; new 5-room house, new barn, water. A bargain at \$46 per acre. Terms.

THE EASTERN KANSAS LAND CO.

Quenemo, Kan.

BEST TOWN TO LIVE IN.

If you would like to live in the most beautiful city in the West, with unsurpassed educational, business and religious advantages, in a city clean, progressive, where real estate values are low but steadily advancing, where living expenses are reasonable, a city with natural gas at lowest price, SECRETARY of the COMMERCIAL CLUB, Topeka, Kansas.

FOR SALE—Well improved smooth 80 acres 1½ miles from Garnett, Kansas, 50 acres clover and timothy, 2 acres prairie grass, balance in cultivation. Some fruit, peaches and grapes. Plenty of good water, 600d 6 room house. New barn 32 x 40. Cattle shed 25 x 50. Corn crib 14 x 20 and other outbuildings. Also have a highly improved 40-acre suburban home, which I would trade for unimproved prairie hay land. For particulars, write

W. L. WARE, Garnett, Kansas.

FARMER INVESTOR.—I have in Arkanas, Missouri and Oklahoma, farms of all zes and prices. I have the choice of Benon Co., Ark., fruit farms. Write for prices and terms.
PARRICK, The Land Man, Hiwasse, Ark

130 ACRES, 1¼ miles of fine city of 2,000; high school etc., best wheat, corn, alfalfa land in world; 80 a. in wheat now and you ought to see it, balance in best of timber. Produced better than 40 bu. wheat per a. 1913. In center of oilgas belt. Unleased, can lease any time for cash rental and share. No incumbrance. Will sell at once, \$60 a., and is worth \$100. Come and see—you will buy. Terms. buy. Terms. LOCK BOX 926, Fredonia, Kansas.

Official publications concerning the soils, rainfail and crops of Wisconsin may be had free by writing Wisconsin State Board of Immigration, Madison, Wis. State Capital 556.

Book of 1,000 Farms, etc., everywhere, for exchange. Graham Bros., El Dorado, Ks. 80 A. VALLEY FARM, \$2,500; imp.; list map free. Exchanges. Arthur, Mt. View, Mo.

WE SELL OB TRADE ANYTHING, ANYWHERE, REALTY EXCHANGE CO., NEWTON, KAN.

Greatest bargain within the 7-mile radius of Topeka. 80 acres N. E., nice upland, orchard, alfalfa, clover, prairie meadow; plenty of water; 20 acres in cultivation, 75 can be \$4.500.

be. \$4,500. B. F. ABMYER, Grantville, Kansas 122 ACRES, Franklin County, Kansas; 3 miles of town; all tillable; 15 a. bluegrass pasture, remainder in cultivation; 5-room house, barn 30x40, chicken house, 2 wells. Price, \$62 per acre; terms to suit. Write for list.

MANSFIELD LAND CO., Ottawa, Kansas. THE GRASS THAT FATTENS.

Butler County, Kansas, native bluestem pastures. Note the following: All improved, fenced, permanent water and near railroad, 5,000 acres finest, may be divided; \$25. 3,000 acres, 300 cult., two sets improvements; \$28.50, 948 acres, 150 alfalfa bottom, 250 cultivated; \$35. Other fine mixed alfalfa, grain and native grass stock farms. Ask for descriptions, telling me what you want. V. A. OSBOEN, El Dorado, Kansas.

LOOK \$1,200 cash, terms to suit buyer on balanywhere. "Ask Kirwan & Laird about it," West Plains, Howell Co., Mo.

A BARGAIN IN TRADE.

Splendid business proposition in one of the best small towns in Kansas. Complete line of harness and horse goods. Good business building on corner, fine location; fine 9-room residence, first-class condition, with six lots and outbuildings. Price, \$15,000. Will trade for land of equal value anywhere in central or eastern Kansas, Missouri and Oklahoma.

H. B. BELL LAND COMPANY Room 5 Commerce Bidg., Dodge City, Kan.

TOO LATE TO CLASSIFY

SEVEN SHIRE AND PERCHERON
STALLIONS
Sire and dam of Shires imported. Prices, \$250 to \$650. Farm 4½ miles from Wakefield. Will meet trains if notified in time, JAMES AULD, Wakefield, Clay Co., Kan.

Sixty Head of Registered and High Grade HOLSTEIN COWS AND HEIFERS For sale. Also several registered bull calves. C. W. HIGGINBOTHAM & SONS, Rossville, Kansas.

FIELD NOTES

Mr. H. C. Johns, the well known Jersey breeder of Carthage, Mo., claims May 11 as the date of his Jersey sale. On that date Mr. Johns will sell about 90 head of registered Jerseys, many of them imported.

Attention is called to the card of James Auld of Wakefield, Kan. Mr. Auld is offering seven Shire and Percheron stallions. All of them were sired by imported stallions and are out of imported dams. He is pricing his stock well worth the money. Look up his card and note prices, and write for description, mentioning Kansas Farmer.

W. B. Wallace Sells February 12.

In this issue we claim the sale date for W. B. Wallace of Bunceton, Mo. Mr. Wallace owns one of the good herds of Poland Chinas of Missouri and has two valuable boars at the head of this herd. Please watch for further mention of this sale in Kansas Farmer, and send for a catalog. It will be worth reading.

Erdley's Jerseys.

If you want Jerseys, write H. F. Erdley at Holton, Kan. Mr. Erdley has one of the good Kansas herds. His herd is headed by the imported buil, Castor's Splendid. Choice

Howell Bros., Herkimer, Kan. SELLS

50 DUROC-JERSEY

BRED SOWS AND GILTS

at auction at their farm five miles from Herkimer, on the Grand Island Railroad, and five miles from Marietta, on the Blue Valley Branch, U. P.,

Tuesday, Feb. 3,

The offering is one of unusual merit and will prove one of the best that will be sold in the West this winter.

Fifteen spring and summer yearlings that have farrowed one litter each; five great fall gilts and thirty spring gilts, the tops of fifty-five head, make up the offering. The spring and summer yearlings are by Joe's Pride, Wide Awake Lad and Howell's Model. The spring gilts are mostly by Joe's

The catalog is ready and will be sent upon request by return mail. Address

HOWELL BROS., Herkimer, Kan.

Free transportation from stations to the farm and return. Sale in comfortable quarters.

Auctioneers: R. L. Harriman, Jas. T. McCulloch, F. E. Kenney. Jesse Johnson, Fieldman.

bulls are advertised for sale sired by this bull.

Mott Claims Date.

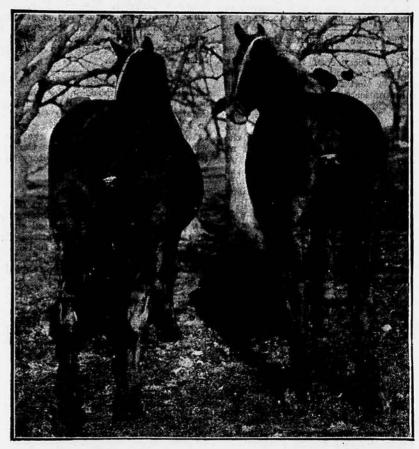
W. H. Mott, Duroc Jersey breeder located at Herington, Kan., authorizes us to claim March 25 as the date for his spring Duroc Jersey bred sow sale. Mr. Mott has unlimited faith in the future of the pure-bred hog business and says he has faith to keep them for the boys until alfalfa comes and trust to them to pay him liberally for feeding them and carrying them through the winter, therefore the late spring date. Mr. Mott has a great bunch headed by perhaps the last son of the noted big Duroc boar, King of Kantbebeat. Bear this important date in mind and watch this paper for further announcement a little later. Mr. Mott also breeds Holstein cattle and maintains a regular dairy, owning what most likely is the best and most modern dairy barn in his part of the state. Mr. A. Seaborn is asso-

clated with Mr. Mott in the breeding business and has personal charge of the herds.

G. C. Roan's Jack Sale.

G. C. Roan's Jack Sale.

On March 9, G. C. Roan of Clover Leaf Valley Jack Farm, La Plata, Mo., will sell one of the best offerings of Jacks and Jennets ever sold in the state. The offering will consist of 25 Jacks and 25 Jennets, the pick of the famous Clover Leaf Valley herd and the tops of Monsees & Sons' herd recently purchased by Mr. Roan. Every jack and Jennet to go in this sale is strictly high-class and the offering will include the great Jack, Missouri King 4388. This jack is rated by many competent judges as the best Jack in Missouri. He has never been defeated when shown with his colts, and has sired many colts that have sold at \$125 to \$175 at weaning time. Watch Kansas Farmer for further announcement of this sale. Write for catalog at once, mentioning Kansas Farmer.



FLORA AND MARCELLENE AS A PAIR WERE FIRST AND SECOND AT ALL THE LEADING FAIRS THIS YEAR — TOPEKA, HUTCHINSON, ST. JOSEPH, SEDALIA, AND AMERICAN ROYAL. ONE OF THEM WAS FIRST AND CHAMPION AT EACH SHOW, THE PAIR WILL BE SOLD IN LEE BROS, SALE AT MANHATTAN, KAN., JANUARY 27.

FIELD NOTES

PURE BEED STOCK SALES. Jan. 27, 1914—Lee Bros., Manhattan, Han. Feb. 17—Joe Dvorak, Marion, Kan. Feb. 25—J. C. Robinson, Towanda, Kan.

Feb. 28 H. J. Hineman & Sons and D. J. Hutchins, Sterling, Kan. March 9—G. C. Rosan, La Plata, Mo.

Shorthorns.
Feb. 17—C. S. Nevius, Chiles, Kan.
Feb. 26—Hoadley & Sigmund, Selden, Kan.
Sale at Norton, Kan.

Helstein Friedans. Feb. 3-4—Henry C. Glissman, Omaha, Neb.

Jersey Cattle.

March 5—Everett Hays, Hiawatha, Kan.

May 11—H. C. Johns, Carthage, Mo.

Poland Chinas.

Feb. 11—H. L. Faulkner, Jamesport, Mo.—
Feb. 12—W. B. Wallace, Bunceton, Mo.
Feb. 17—L. E. Klein, Zeandale, Kan.
Feb. 17.—E. M. Wayde, Burlington, Kan.
Feb. 17.—Dr. John Gildow & Sons, James-

Feb. 17.—E. M. Wayde, Burlington, Kan.
Feb. 17.—Dr. John Gildow & Sons, Jamesport, Mo.
Feb. 18—J. R. Cline, Iola, Kan.
Feb. 18—J. H. Harter, Westmoreland, Kan.
Sale at Manhattan.
Feb. 19—W. Z. Baker, Rich Hill, Mo.
Feb. 19—J. L. Grimths, Riley, Kan.
Feb. 20—W. A. Baker, Butler, Mo.
Feb. 20—W. A. Davidson, Simpson, Kan.
Feb. 28—A. J. Swingle, Leonardville, Kan.
Feb. 28—A. R. Reystaad, Mankato, Kan.
Feb. 28—A. R. Reystaad, Mankato, Kan.
March 3—George Wedd & Son, Spring Hill.
March 4—L. V. O'Keefe, Buoyrus.
March 4—John Kemmerer, Mankato, Kan.
March 10—Joehua Morgan, Hardy, Neb.
March 24—Herman Gronniger & Son, Bendens, Kan.
March 25—W. H. Mott, Herington, Kan.
March 25—W. H. Mott, Herington, Kan.
March 25—W. H. Mott, Herington, Kan.
Oct. 28—George S. Hamaker, Pawnee City,
Neb.

Duroc Jerseys.

Jan. 30—N. B. Price, Mankato, Kan.
Jan. 31—A. M. Rinehart & Son, Smith Center, Kan.
Feb. 6—Leon Carter, Asherville, Kan.
Feb. 7—Horton & Hale, DeKalb, Mo. Sale at Rushville, Mo.
Feb. 3—Howell Bros., Herkimer, Marshah County, Kan.
Feb. 9—E. A. Trump, Formoso, Kan.
Feb. 6—R. W. Murphy, Cosby, Mo.
Feb. 10—Kanssa Agricultural College, Manhattan, Kan.
Feb. 11—Thompson Bros., Garrison, Kan.
Feb. 11—Thompson Bros., Garrison, Kan.
Feb. 12—Jana D. Shuck, Burr Oak, Kan.
March 5—R. P. Wells, Formoso, Kan.
March 5—R. P. Wells, Formoso, Kan.
March 11—W. W. Otey and Sons, Winfield, Kan.
March 12—G. C. Norman, Winfield, Kan.

Kan. March 12—G. C. Norman, Winfield, Kan. March 13—Samuel Drybread, Elk City, Kan.

Berkshires.
Feb. 10—Kansas State Agricultural College,
Manhattan, Kan. Sale in forenoon.

Schulz Shorthorns.

Lovers of the best in Shorthorns should be interested in the advertisement of Robert Schulz, our advertiser at Holton, Kan. This is the Oak Grove herd, headed by the white buil, White Starlight, sired by Searchlight and out of a dam by Choice Goods. Every cow in Oak Grove herd is pure Scotch. Look for this advertisement in the Jackson County section.

Locust Bluff Stock Farm.

Attention is called to the card of John C. Thomas & Son, Harris, Mo., ewners of Locust Bluff Stock Farm. Thomas & Son are among Missourl's leading breeders, and Locust Bluff Stock Farm has long been noted for its high-class jacks, Jennets, Herefords and Holsteins. At present they are offering 12 fine Missourl-bred jacks, sired by None Such 2633, the best son of King of Glants 773. They are big, high-class fellows, and ready for service. Among the bulls offered is one very fine Holstein and one extra Hereford bull ready for service. They also have younger bulls. Thomas & Son are breeders, not speculators. The jacks and bulls offered were bred on Locust Bluff Farm. They guarantee every animal sold to be just as represented, and their guarantee is absolutely good. If you want high-class Jacks or Hereford or Holstein bulls, write them, mentioning Kansas Farmer.

Watsen, Weeds Bros. & Kelly Offer Good Horses.

The well known firm of Watson, Woods Bros. & Kelly Co., have now in their barns in Lincoln, Neb., a new importation of big, high class Percheron, Shire and Belgian stallions. Very reasonable prices are being placed on these horses. A few first class, home-bred stallions are being offered as low as \$600 dollars. Look up their ad which starts in this issue and write to them for a catalog, giving full descriptions. Kindly mention Kansas Farmer when writing.

Lamer Makes Good Sale.

Lamer Makes Good Sale.

C. W. Lamer's sale of Percheron horses and mares held at the Pioneer Stud Farm south of Salima, Kan. January 8, was well attended. The offering of stallions and mares was an excellent one. The following is a list of the principal buyers:

Stella, mare, George Nowles. Glasco, Kan.

Deloris, mare, George Nowles. George Susan Jane, mare, Harris Bros., Great Bend, Kan.

Alta, mare, F. N. Garner, Tulsa, Okla.

Buster, stallion, T. F. Bosler, Leoti, Louis, Mare, F. N. Garner, Tulsa, Okla.

Capper, mare, T. F. Bosler. 625

Etta, mare colt, F. N. Garner, 330

Flossle, mare colt, J. Roman, Olathe, Kan.

Esther, mare, Black, McPherson, Kap. 355 Flossie, mare coit, J. Active Kan.
Esther, mare, Black, McPherson, Kan.
Etta, mare, E. Waters, Lectl, Kan.
Una, mare, E. Waters, Lectl, Kan.
Dora, mare colt, E. F. Scoville, Lectl, 400

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. Your advertisement here reaches over 300,000 readers for 4 cents a ward per week. No "ad" taken for less than 60 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.

HELP WANTED.

MEN WANTED TO LEARN BARBER trade. Term not limited. Tools free. Call or write. Topeka Barber Coffege, \$27 Kansas Ave., Topeka, Kan.

WANTED — RAILWAY MAIL CLERKS, carriers and rural carriers. Examinations soon. I conducted examinations. Trial examination free. Write Oxment, 44-R, St. Louis.

WANTED—MAN WITH WIFE TO WORK on farm in eastern Kansas. Good salary for parties who can manage as well as work. For particulars address 823 N. 4th St., Albuquerque, New Mexico.

SALESMEN WANTED—MEN TO HAN-dle Titus' self-sharpening plow attach-ments; fit any plow. Write today. Well-ington Mfg. Co., Wellington, Kan.

MEN MOR ELECTRIC RAILWAY MOT-ormen and conductors. Fine opportunity; about \$90 monthly. Experience unnecessary. No strikes. State age. Address Box M., care Kansss Farmer.

AGENTS—GET PARTICULARS OF ONE of the best paying propositions ever put on the market. Something no one else sells. Make \$4,000 yearly. Address, E. M. Feltman, sales manager, 6741 Sycamore St., Cincinnati, Ohio.

FREE ILLUSTRATED BOOK TELLS OF about 300,000 protected positions in U. S. service. Thousands of vacancies every year. There is a big chance here for you, sure and generous pay, lifetime employment. Just ask for booklet S-809. No obligation. Earl Hopkins, Washington, D. C.

MEN AND WOMEN WANTED FOR government jobs. \$65 to \$150 month. Vacations, steady work. Parcel Post and Income Tax means many vacancies. Common education sufficient. "Pull" unnecessary. Write immediately for free list of positions now available. Franklin Institute, Dept. C-82, Rochester, N. Y.

REAL ESTATE.

FOR SALE OR TRADE — FINE IM-proved bottom farms close to town; high school free. J. H. King, Cawker City, Kan.

BARGAIN—160 ACRES IMPROVED UPland, 2 miles from Tescott. W. A. Hilands, Owner, Culver, Kan.

FOR SALE—A BARGAIN, 80-ACRE IM-proved far m(no house), % mile of El Do-rado. C. E. Florence, El Dorado, Kan.

IDEAL HOMES IN DELAWARE. LIVE stock, poultry, fruit, general farming. For illustrated booklet write State Board of Agriculture, Dover, Delaware.

LABETTE CO. FARMS. ONE 120, 160 and 240 acre farms sale or trade for live stock. Easy terms. Owner, Joe M. Ware, Route 6, Parsons, Kan.

NEW YEAR BARGAINS IN SUNNY South Missouri. Homes for those erate means. Write for list, free. Stephens, Mansfield, Mo.

OFFICIAL BULLETINS RELATING TO the agricultural opportunities of Wisconsin may be had by addressing Wisconsin State Board of Immigration, Capitol 138, Madison, Wis.

WANTED — IMPROVED FARMS AND wild lands. Best system for quick results. Full particulars and magazine free. Don't pay big commissions. Western Sales Agency, Minneapolis, Minn.

80 ACRES 4 MI. HADDAM, WASHING-ton Co., Kan. All good alfalfa land; 65 a. cult., one field. Balance pasture, fair improvements, plenty of water. Owner must turn this by March 1. Address Owner, Box 256, Ionia, Kan.

FOR SALE—ELEVEN HUNDRED ACRES unimproved Northern Arkansas. Fine white oak timber. Seven hundred acres suitable for cultivation. Will make fine stock farm. Thirteen dollars per acre. Good terms. Box 15, Ozark, Ark.

\$11,765 BUYS 181 ACRES, 30 MILES from Buffalo, 2 from village. Rolling loam soil, no stones, 12 acres timber, abundance fruit, buildings worth \$5,000, including 27 choice Holsteins, 3 horses, 2 hogs, 70 hens, all fodder, sugaring tools, farming tools, latest milking machine. Easy terms. Free list. C. J. Ellis, Springville, N. Y.

FOR SALE—ONE OF THE FINEST ALL modern country homes in Kansas. 57 acres of land, 4 mile from University of Kansas and Lawrence. Finest location and view in state. Fine stock farm, large barns, plenty of water. 45 head registered hogs, 300 chickens. Priced right. C. Edw. Hubach, Route 1, Box 9, Lawrence, Kan.

Noute 1, Box 9, Lawrence, Kan.

VICTORIA, AUSTRALIA, WANTS SETtlers. Special inducements offered by State Government which owns lands, water, railways and free schools. Excellent climate, resembles California; no extreme heat or cold. Small deposit and 31½ years for purchase of lands, adapted to every kind of culture. Citrus fruits, apples and pears; wheat, corn, alfalfa, sugar beets; dairying, hog raising, etc. Ample markets. Exceptional opportunities in irrigated districts. Reduced passages for approved settlers. Free particulars from F. T. A. Fricke, Box 34, 687 Market St., San Francisco.

HONEY.

HONEY — PURE EXTRACTED 60-LB. can, clover, \$6; 2 cans \$11.50; 60-lb. can hartsease, \$5.25; 2 cans, 10. F. O. B. Center Junction. Quality guaranteed. W. S. Paughburn, Center Junction, Iowa.

THE STRAY LIST

H. M. BARRETT, COUNTY CLERK, Sedgwick County. Taken up by John Tecklenburg, Cheney, Kansas, Dec. 8, 1913, one red Jersey sow one year old, weight 250 pounds, appraised value \$15.75, allowanace for keeping \$8.00.

CATTLE.

GRADE HOLSTEIN CALVES, BOTH sexes, for sale. Arnold & Brady, Manhattan, Kan.

FOR SALE — REGISTERED HOLSTEIN bulls. Smith & Hughes, Topeka, Kan., Route 2.

THREE RED POLLED YEARLING bulls, the best of breeding and good individuals. J. B. Davis, Fairview, Kan.

REGISTERED JERSEYS. IF YOU WANT a good Jersey bull calf, write Sable & White Stock Farm, Seward, Kan.

GUERNSEYS—REGISTERED BULL calf, 8 months old, from imported grand dam. Pedigree sent on request. Williams Bros., Marysville, Kan.

HOLSTEINS FOR SALE—LEAVING THE farm. Have for quick sale two young cows in milk, yearling helfer, helfer calf, herd bull. six months bull calf, light service. All registered. Three two-year helfers, freshen soon, grades. Come or write for prices and breeding. W. A. Schreier & Sons, Argonia, Kan.

HORSES AND MULES

FOR SALE — TWO EXTRA young jacks, three and five years. Strong, Moran, Kan.

SHETLAND PONIES FOR SALE, MARES, colts and geldings, all ages and sizes. Write your wants. C. R. Clemmons, Coffeyville, Kan.

FOR SALE—HOLSTEIN BULL CALVES nearly ready for service. All papers furnished. Prices always right. T. M. Ewing, Route 1, Independence, Kan.

TO EXCHANGE—ONE MEDIUM-SIZED jack 8 years old, Kentucky bred, registered, black with white points, sound and guaranteed. Will exchange for road stallion. Must be registered and sound, to weigh 1,200, and gaited. U. A. Towns & Son, Route 5, Bethany, Mo.

HOGS.

PEDIGREED MULEFOOT PIGS FOR ale. J. W. Cox & Son, Arapahoe, Neb.

CLOSING OUT SALE, HAMPSHIRES, all ages. Will Woodruff, Kinsley, Kan.

2-YEAR-OLD JERSEY BOAR FOR sale. A magnificient boar. A good breeder and a show hog. A grandson of Crimson Wonder Again. \$150 for quick sale. Address W. R. Crow, Hutchinson, Kan.

TREES, SEEDS AND PLANTS.

SEED CORN SUITABLE FOR KANSAS oils. John Dunlap, Williamsport, Ohio.

\$6.00 WILL BUY 100 DELICIOUS WHOLE root crown grafts. Send for list, its free. Sunny Slope Nursery, Hannibal, Mo.

WINFIELD RELIABLE TREES, DIRECT to planter at wholesale prices. Fruit book free. Cooper & Rogers, Winfield, Kan.

GREAT WHITE PEARL AND REID'S Yellow Dent seed corn; average test 98. W. F. Davis, South St. Joseph, Mo.

FETERITA, FIRST CLASS, REcleaned; 20 pounds \$1.00; 100 pounds \$4.00. Chas. Clemmons, Anadarko, Okla.

CHOICE RE-CLEANED ALFALFA SEED for sale at \$7.00 per bushel. Send for free sample. C. Markley, Belle Plaine, Kan.

GOOD WHITE BLOOM SWEET CLOVER seed and alfalfa seed for sale. Geo. Bow-man, Logan, Kan.

FOR SALE—FREED SORGO OR WHITE Sorghum, 4c per pound. George Tucker, Colby, Kan.

FETERITA SEED FOR SALE, REcleaned; sacks furnished; prices right; safe for every farmer to try a bushel. Martin H. Anderson, Route 3, Girard, Kan.

BOONE COUNTY (FINE VARIETY) seed corn. Three thousand bushels from 25 acres. Locust Hill Stock Farm, Culpeper, Virginia.

SEED CORN FROM GROWER.—PURE-bred Boone County White, 1912 crop, raised on best Kaw Valley land. Ear corn only, Guaranteed extra fine. \$2.00 per bushel. J. W. Cochran, Route 6, Topeka, Kan.

ALFALFA SEED. DAWES COUNTY, non-irrigated alfalfa seed, cane, millet and sweet clover seeds. Baled alfalfa hay, all cuttings. Prices and samples free. Schwabe Bros., Chadron, Neb.

"101" RANCH SEED CORN—WHITE Wonder, Bloody Butcher, and Improved Indian Squaw Corn—best for the West, thoroughly acclimated, proven drouth-resisters. Seed, \$2.50 per bushel, f. o. b. Bliss, Okla. For free information write Miller Brothers, 101 Ranch, Box 11, Bliss, Okla.

TYPEWRITERS

TYPEWRITERS, ALL MAKES, ALL prices. Guaranteed same as new. Will ship for trial. Crane & Co., Topeka, Kan. "45 years in business." Write for Catalog "G."

WANTED-TO BUY.

I AM IN THE MARKET FOR ABOUT bushels of good clean alfalfa if it can be hight right; also like amount of clover.
J. Anderson, Garnett, Kan.

WANT TO BUY GOOD FARM FROM owner only. Possession now or next spring. Address Jaffert, Box 754, Chicago.

PATENTS

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

FARMERS! STOCKMEN WE ARE GIVING AWAY THIS BIG 42-INCH TELESCOPE

Here is a valuable, practical gift to our farmer and steckmen friends—a powerful five-section telescope, 42 inches long extended, and made by one of the world's best known manufacturers. It is built of the best materials throughout and is brass bound. With each telescope we furnish a solar eye-piece for studying the wonderful sights in the heavens. The cyc-piece is a powerful magnifying glass toe, and can be used to study insects mentioned in crop built-tins, fungus growths on plants, and for a sun glass.

Makes Distant Objects Seem Mear.

Objects Seem Rear.

The lenses in these telescopes are made by experts and are carefully adjusted. Objects can be seen many miles away that are indistinct to the naked eye. Farmers and ranchmen find these telescopes very valuable inwatching stock or people 5 or 10 miles away. By watching the clouds with this telescope some can tell the approach of a storm early and prepare for it.

Our Great Offer.

Our Great Offer.

Our Great Offer.

We will send one of these great telescopes free and prepaid to all who send \$1.50 to pay for one two-year subscription to Kansas Farmer, or for one renewal and ene new subscription each for one year, both for \$1.50. We will refund your money if you are not entirely satisfied. All orders filled promptly. Address

KANSAS FARMER, Topeka, Kansas.



1.1



To reach the well-to-do Farmers of Kansas and surrounding Territory with a Heart-to-Heart Busitess Talk, use our Classified Columns. Ready buyers at a low

DOGS.

COLLIES. AIREDALES, TERRIERS — Send for list. W. R. Watson, Oakland, Iowa.

FOR SALE—TAN COLORED SCOTCH Collie pups. Also some fall and summer Poland China pigs. J. H. Becker, Newton, Kan.

TRAINED BEAGLES, RABBIT HOUNDS, Fox Hounds, broke on fox and rabbits; Coon, Opossum, Skunk Hounds; Bear, Deer, Wolf Hounds; Setters, Pointers, Spanlels. Several hundred ferrets and list. Brown's Kennels, York, Pa.

VIOLINS.

GOOD VIOLIN FOR SALE CHEAP. EX-cellent toned. Could send on trial. Write Miss Bertha W. Mardis, Route 5, Rosedale,

TOBACCO.

TOBACCO—I HAVE THOUSANDS OF pounds of fine old Kentucky chewing or smoking tobacco, 30 cents per pound, postpatd. Chas. T. Daniel, Owensboro, Ky.

MISCELLANEOUS.

LEGAL ADVICE, ANY SUBJECT, \$1.00. The Law Bureau, Box 917-C, Wichita, Kan.

CLEANING, PRESSING, DYEING. WORK uaranteed. Manhattan Cleaners, 609 Jackson, Topeka.

SELLING R. R. OHIO POTATOES AND sweets, \$1; turnips, 75c; honey, \$3.50 case. The Copes, Topeka, Kan. SIKTY-FIVE EGG RELIABLE INCU-bator, almost new, \$5. Clara Doege, Ton-ganozie, Kan.

SHORTHAND—20 LESSONS FREE, INcluding corrections and suggestions. The Dougherty Business College, Topeka.

BUCK'S GOPHER TRAP GETS ALL the gophers. Address Wm. Buck, Paxico, Kan.

GROCERY AND MEAT MARKET DOING 5,000 per month. Best town in Kansas, ash or trade. Lock Box 71, Manhattan,

LADIES—SAVE YOUR EYES AND TIME with our wonderful Self-Threading Needles. Assorted package, 12c postpaid. Satisfaction guaranteed. World's Supply, K1348 Roscoe St., Chicago.

FARMERS WISHING TO SAVE FROM \$1.00 to \$1.50 on end posts in fence building should write E. L. Russ, breeder of big type Polands, Kearney, Mo. Latest thing out in underground bracing.

SITUATION WANTED.

WANTED—A JOB BY THE MONTH ON a farm by a married man. Would board hands if desired. R. L. Hamilton, Virgil, Kan.

WANTED—WORK ON FARM BY YEAR. Colored, married, experienced, 49 years old. Can give reference. T. R. Rigsby, 609 S. Grant, Chanute, Kan.

SITUATED WANTED ON FARM BY year or month. 23 years old; single; stock or dairy farm. Will consider any farm work. Henry Locke, Delphos, Kan.

HOLSTEIN CATTLE.



To promote general prosperity and their own business, bankers in many parts of the country are buying purebred Holsteins by the carload and selling them on time to the farmers of the community.

Every year it becomes clearer that with large yield cows the best of milk and butter production can be brought down to a point that makes dairying profitable.

A herd of pure-bred Holsteins is an investment that combines safety with large dividends.

Send for FREE Hustrated Descriptive Booklets.

Holstein-Friesian Asso., F. L. Houghton, Sec'y, Box 114, Brattleboro, Vt.

Bonnie Brae Holsteins

80 Head of high-grade Holstein heifers and cows from 2 to 6 years of age. A number just fresh. All to freshen this fall and winter. Also a few young bulls, high grade and registered.

IRA ROMIG, Station B, Topeka, Kansas

Sunflower Here Offers

The young sire, Sunflower Sir Hengerveld Walker No. 116779, born March 5, 1918. Ready for light service. Sire, Tirania Lady Aouda 5th King 61250, our senior sire, by King Walker. Dam, Lady Woodcrest Beets, a 19-pound 3-year-old granddaughter of the great Hengerveld DeKol. Write for price and particulars. Other good ones.

F. J. SEARLE, Oskaloosa, Kansas.

M. E. MOORE & CO.

CAMERON, MISSOURI.

Choice for sale.
Also few young bulls. Tuberculin tested.

PURE-BRED SELECTED HOLSTEINS. PURE-BRED SELECTED HOLSTEINS.
We now have about 50 head cows, three
to six years old, mostly springers, some to
freshen soon; 12 head two year old first
calf heifers; a few young bulls. Cows are
high grade and bred to registered bulls.
Edmunds & Young, Council Grove, Kansas.

We will have a car of
HIGH-CLASS HEAVY SPRINGING GRADE
HOLSTEIN COWS
for sale at Manhattan, Kan., during the
week of the Farmers' Short Course at the
Kangas State Agricultural College Kansas State Agricultural College. ARNOLD & BRADY, MANHATTAN, KAN.

HOLSTEINS FOR SALE, Large registered bulls, cows and heifers. Also five carloads of grade cows and heifers, Our herd is state inspected and tuberculin tested.
THE SPRINGDALE STOCK RANCH.
Concordia, Kansas.

Two hundred nicely marked well-bred young cows and heifers, due to freshen within the next three months. Also regis-F. J. HOWARD, Bouckville, N. Y.

HOLSTON'S HOLSTEINS.

Home of Madison Diamond DeKol 94475, one-day milk record 101 pounds 10 ounces. Six bulls for sale, calves to yearlings, grandsons Madison Diamond DeKol. One Pontiac bred bull. CHAS. HOLSTON & SONS, R. 1, bred bull. CI Topeka, Kan.

BUTTER BRED HOLSTEINS.
For Sale—Some choice bull calves. Price very reasonable. Write me your wants day, as these bargains will not last long.
J. P. MAST, Scranton, Kan.

HOLSTEIN BULL CALVES always en hand, and worth the price.
H. B. COWLES. Topeka, Kansas.

ANGUS CATTLE



CHOICE 'REGISTERED ANGUS CATTLE Cows, heifers and young bulls. Nothing

Cows, helfers and young bulls. No but the best. Wire, write or 'phone.

R. S. WILLIAMS, LIBERTY, MO.

Excelsior Springs car line route. On miles from Kansas City. Car every 45 min-utes. Home 'phone 262.

REGISTERED ANGUS BULLS

For Sale—Choice young herd bulls, from best families; also registered Poland China boars and glits of extra quality. Prices reasonable. Write at once.
K. H. BROWN, Bolivar, Polk Co., Missouri.

HEREFORD CATTLE

LANDER'S Brookside Herefords

Herd headed by Gay Lad 14th by the champion Gay Lad 6th and out of Princess 16th. Six yearling bulls and ten bull calves for sale, also seven yearling helfers, the best of breeding and choice individuals. Prices reasonable. Write or call.

WARREN LANDERS, Savannah, Missouri.

Dr. John Gildow & Sons of Jamesport, Mo., claim February 17 as the date of their nanual Poland China bred sow sale. They will offer sixty head of the big, easy feeding, prize winning kind. Send for catalog now and watch Kansas Farmer for further announcement of this sale.

FIELD NOTES

On February 11 at Jamesport, Mo., H. L. Faulkner will sell the best offering of the old original big spotted Polands that breeders have ever had a chance to buy. They are the best lot of big spotted sows that the writer has ever seen. They are not only the big spotted kind but they are the kind with the big spots. This will be the sale event of the season. Don't fail to attend.

Attention is called to the sale advertisement of Lewis J. Cox of Concordia, Kansas. On February 4 Mr. Cox will sell three draft, two standard bred and one coach horse, also six jacks. All of this stock has been handled by Mr. Cox in his breeding barns and is guaranteed to be right in every way. Mr. Cox is closing out on account of failing health. This is an opportunity for breeders wanting high class breeding stock.

Good Demand.

Ed. Nickelson, our Red Poll advertiser living at Leonardville, Riley County, Kan, reports good inquiry and an unusual demand for stock. Mr. Nickelson still has quite a number of young registered bulls that he is offering at very reasonable figures. When writing him please mention this paper. ures. Whe this paper.

Iams' new importation of sixty Percherons and Belgians arrived from Europe a few days ago in the "pink of ccndition." They are the best buch of high clas horses—real drafters—that he has bought in 32 years of successful horse business. They are two to five years old and weigh 1800 to 2200 pounds, blacks and grays. They were bought in November, the month that you buy the cheapest in any country in the world. They were bought for spot cash; that, with Iams' "knowing how" to buy the good ones, makes these horses come much cheaper than ever before to use. These horses were bought to sell. Iams has no pets, and he closes them out every year; if not at his prices, at your prices. He is selling these swell, big, nifty drafters at less price than ever before, or more horses for the money than at any time in 32 years of horse business. Iams has been a successful horse man for 32 years and knows what he is talking about, and sells horses at "hard time" prices in 1914.

Henry C. Glissman, the well known Holstein cattle breeder and dealer of South Omaha, will offer in the sale pavilion of South Omaha, will offer in the sale pavilion of South Omaha, February 3. a splendid offering of Holstein cattle. This offering will comprise 65 cows and heifers, some of them being high record A. R. O. cows. They are sired by some of the best buils of the breed. Among the 25 heifers and heifer calves in this offering will be found a number of grand daughters of that famous sire, King of the Pontiacs. The 10 young buils which are offered have the best A. R. O. backing close up in the pedigree. Everything in this sale over 6 months old have been tuberculin tested. Catalogs for the sale will be ready about January 25. Kansas breeders and dairymen interested in securing first class Holstein cattle will do well to consider this offering carefully before making a purchase. Kindly mention Kansas Farmer when you write.

Duroc Dispersion January 30.

One of the biggest sale events ever pulled off in Jewell County, Kansas will be the dispersion sale to be made at Mankato, Friday, January 30 by N. B. Price of that place. Ned Price has for the past several years been considered one of the very foremost Duroc breeders of his county. It is doubtful if there is any Duroc breeder in his part of the state that has gone out and bought as many outstanding animals and at such long prices. It was his ambition to own the best, but now for business reasons he finds it necessary to disperse his splendid herd. That they will be appreciated by the Duroc breeders of the state there should be no doubt. Included in the sale will be the two great Col boars, Overland Col and Adutate Col. Overland Col was sired by Muncie's Col. a noted son of the grand champion boar Waveland Col. His dam was Lady Bell by Silk Worm. Adutate Col was sired by Graduate Col, a son of the great Price of Cols. His dam was a daughter of Crimson Wonder 3d. This should serve to give the reader something of an idea of the sort that have a place in the Price herd; then there is the noted old sire Boney K. with a lot of fine gilts to his credit and a few sows bred to him. Among the largest sows in the herd that have proven their great value is the big sow Mankato Girl sired by Mankato Col. Model Six bred by R. J. Harding sired by Chief Protection he by Ohio Chief and out of a dam by Harding's King of Cols. Fancy May sired by Grand Master Col 2d, the only Duroc boar that ever won the championship at one state fair four years in succession. Proud Critic sired by Walley Chief Again and out of a dam by Valley Chief Again and out of a dam by Walley Chief Again and out of a dam by Walley Chief Again and out of a dam by Valley Chief Again and out of a dam by Valley Chief Again and out of a dam by Valley Chief Again and out of a dam by Valley Chief Again and out of a dam by Valley Chief Again and out of a dam by Valley Chief Again and out of a dam by Valley Chief Again and out of a dam b Duroc Dispersion January 30.

at Mankato. Rineharts sell next day at Smith Center.

The Best Place to Buy Durocs.

An event that should attract the attention of every breeder of Durocs in Kansas, will be the big bred sow sale to be made at Smith Center, Kan., by A. M. Rinehart & Sons of Smith Center. The date is Saturday, January 31, and the offering of 60 head will be one of the very best that every went through a sale ring in the West. Quite a per cent of the offering will be big tried sows and the glits are the tops from over one hundred heada. Everything will be bred to the herd boars, R. & S. Crimson Wonder, one of the greatest Crimson Wonder boars ever used used in a western herd; others are bred to Model Hero, the great Golden Model boar owned by the firm. A big lot of the gilts were sired by R. & S. Crimson Wonder and these have a world of quality with that width and stretch to be expected when it is remembered that the dam of R. & S. Col was King's Maid by the noted Valley King. A Few are bred to the great young boar out of the sow that topped Leon Carter's last bred sow sale. This sow was by River Bend Col and when bought was bred to Dreamland Col, making the young boar mentioned a very intensely Col-bred pig. Several gilts in the sale are daughters of Rambler's Wonder, a very large, lengthy and richly bred boar. Among the sows included in the sale are daughters of King of Kantbebeat; one extra big valuable daughter of Model H. Prospect Lady by A Crimson Wonder. Another great big mother is a daughter of T. P.'S Col. It is hard to make it clear on paper what a great bunch the Rineharts are going to offer, splendid colors, best of feet and elegant strong backs. This sale follows the N. B. Price sale at Mankato, and both sales can be attended at one expense. Write early for catalog and either attend or send bids to Jesse Johnson in care of Rineharts at Smith Center,

SHORTHORN CATTLE

LOOKABAUGH'S SHORTHORNS.

At private sale. Six or nine months' time if desired. Young heifers and buils, \$100 and up. Two heifers and buils, not related, \$225 for the three. Others higher. High-class herd buils close to imported Scotch dams, sired by such sires as Lavender Lord by Avondale. Nicely bred young heifers from milking strains. Young buils, the farmer's kind. Cows with calf at foot and rebred. Great variety of prize-winning blood. If you want breeding stock, do not miss this opportunity. My foundation Shorthorns carry the blood of the best families and most noted sires of breed. Over 200 head from which to select. If you cannot come, write.

H. C. LOOKABAUGH, Watonga, Blain County, Oklahoma.



JERSEY CATTLE.

WEST VIEW JERSEY FARM

Herd Bulls—Financial Countess Lad, the only national champion whose dam, Financial Countess, was also national butter champion. Ruby's Financial Count, Register of Merit dam with milk record of 55 pounds per day, sire a Register of Merit son of Financial King. Cows in calf to Financial Lad for sale.

J. E. JONES, Proprietor, Nowata, Okia.

Bank's Farm Jerseys

Quality with milk and butter records, One of the best sons of CHAMPION FLYING FOX, imported, at head of herd. Stock for

W. N. BANKS, Independence, Kan.

REGISTER OF MERIT JERSEYS.

Offer a fine young cow in milk and bred to Oakland's Sultan for \$150. Also a grand-daughter of Golden Fern's Lad bred to same bull, \$200. Choice heifers, \$100 up. Bulls from high-testing dams, \$50 to \$150, including a son of Gamboge Knight.
R. J. LINSCOTT, Holton, Kansas.

GREEN HILL JERSEY FARM

For Sale—Several young bulls up to 15 months old, sired by Viola's Majesty. Dams, American and imported cows of choice breeding and individuality.

D. LEE SHAWHAN, Lees Summit, Mo.

Lomax Jersey Farm Herd headed by the great bull, Brighton Lad, a son of Stockwell's Fern Lad, for sale, Ready for service. Also bull calves by Lan-

seer Eminent. LOMAX & HURST, Sta. D, St. Joseph, Mo.

JERSEY CATTLE FOR SALE.
Choice young bulls by Golden Fern's
Lorne out of 45-pound dams. Also eight
choice cows and heifers in milk and springs. All registered.
D. A. KRAMER, Washington, Kansas.

BENFER JERSEY CATTLE.
A few bull calves for sale, sired by Sultan of Comfortholm. Dams of Golden Ladbreeding. Also high scoring S. C. White Leghorn cockerels.
E. L. M. BENFER, Leona. Kansas.

GOLDEN RULE JERSEY FARM Headed by the Island-bred bull, Cicero's Rochette Noble. One choice registered cow bred to him for sale. Johnson & Nordstrom, Clay Center, Kan.

JERSEYS FOR PROFIT AMERICAN JERSEY CATTLE CLUB, 324 W. 23d St., New York.

POLLED DURHAM CATTLE

ROAN HERO THE INTERNATIONAL CHAMPION, AND

ACACIA PRINCE X 8079-338156 the first prize winners, head my herd of Double Standard Polled Durhams. M. P. Ry. 17 miles S. E. of Topeka, Kan. Farms adjoins town. Inspection invited.
D. C. VAN NICE, Richland, Kan.

POLLED DURHAMS

FOR SALE TEN HERD BULLS stred by Roan Choice, the junior champion of 1911. Prices reasonable. Come and see my herd. C. J. WOODS, CHILES, KAN.

Scottish Baron For Sale

Double standard, weight 2,200; extra individual. Also 12 Shorthorn cows in calf to him, and younger bulls. Inspection in-JOSEPH BAXTER, Clay Center, Kansas.

POLLED DURHAMS AND PERCHERONS
FOR SALE,
Young bulls and heifers sired by a son of
Roan Hero. Also some choice young stallions and fillies. Prices right.
D. L. & A. K. SNYDER, Winfield, Kansas.

MULE FOOT HOGS

GRAFF'S MULEFOOT HOGS.

One hundred head, sows, gilts and boars.
Al! ages. Prices reasonable.

ERNEST E. GRAFF, ROSENDALE, MO. and boars.

BERKSHIRE HOGS

BERKSHIRE

Choice pigs, 10 to 16 weeks old, either sex. Sired by Robin Hood, Premier 2d, or Adam, a son of Rival's Lord Premier. Nothing but the very choicest specimens shipped. Price, registered, crated, F. O. B. here, one, \$20; two, \$35; three. \$50. three, \$50. B. Hell, Ozawkie, Kan. W. J. GRIST, Ozawkie, Kan.

40 — BERKSHIRE BOARS — 40 Cholera Proof (Hyper-Immunized) Big and growthy. Ready for service. Prices, \$25 to \$50. SUTTON FARMS, Lawrence, Kansas.

R. W. Murphy of Crosby, Mo., will sell a very select offering of bred sows at Cros-by, February 6. This choice offering from a prize winning herd is one that will inter-est breeders wanting extra high class breed-ing stock. Write for catalog now and watch Kansas Farmer for sale ad.

Pearl Shorthorn Herd

SHORTHORN CATTLE

Yearling bulls all sold. Have 20 bull calves, oldest a March calf. Reds, roans and red with white marks. Some of them from extra heavy milking dams. Some sired by the big roan Scotch bull, Vallant, and some by Highland Chief. Few coming two. Visitors always welcome.

C. W. TAYLOR Abilene, Kansas

TOMSON BROS.' SHORTHORNS

200 HIGH-CLASS CATTLE, 20 leading Scotch families, other standard sorts also. We offer 20 helfers, yearlings and two-year-olds, choice breeding and quality; 10 select bulls of Augusta, Victoria and other Scotch families; breeding stock of all ages. Adverses either farm. Jas. G. Tomson, Carbondale, Kan., R. R. station Wakarusa, on main line Santa Fe, or Jno. R. Tomson, Dover, Kan., R. R. station Willard, on main line Rock Island.

Cedar Lawn SHORTHORNS

For Sale—Six choice young bulls ready for service, in agefrom ten to fourteen months. Good individuals and of the best known Shorthorn families. Also few big-type Poland China boars and gilts. Inspection invited. S. B. AMCOATS, Clay Center, Kan.

MARCH BULL CALF.
Big and beefy, nice red, just right for
few cows next summer. Few cows and
helfers bred to our beeflest bulls. Write or
come and we will shoelest come and we will snow you. JEWELL BROTHERS, Humboldt, Kansas.

SEAL'S MILKING SHORTHORNS.
Eight choice young red coming yearing's bulls, sired by Seal's Gauntlet, grandson of Gifford's Red Gauntlet. Same number of choice young helfers. Attractive prices for a short time. Joseph Seal, Wakefield, Kan.

TWO CHOICE SHORTHORN BULLS Fourteen months old, sire Lord Hastings it of Scotch dams. Prices reasonable. Tite us. J. M. RHODES, Topeka, Kan. oute 1, Box 144.

Dual Shorthorns, Hornless. 5415% pounds butter sold 1911. No calf tasted skim milk. In-fant male calves. J. H. Walker, Lathrop, Mo

RED POLLED CATTLE

AULD BROTHERS Red Polled Cattle

Heifers and young bulls for sale. Prices right. Herd headed by Prince, one of the best sons of Actor. AULD BROS., Frankfort, Kansas.

RED POLLED CATTLE

For Sale—A choice lot of registered cows, bulls and heifers. Several herd headers.

HALLOREN & GAMBILL,

Ottawa, Kansas.

RED POLLED CATTLE A few choice bulls, ready for service, priced reasonable.

I. W. POULTON, Medora, Kan.



PHILLIPS COUNTY HERD OF RED POLLS.

Young bulls ready to ship. Bred cows and heifers, best of breeding. Inspection invited.

Charles Morrison & Son, Phillipsburg, Kan.

RESER & WAGNER'S RED POLLS.
Richly bred herd headed by Wave Manarch. Bulls of serviceable age all so Fresh cows and young bulls for sale spring. Reser & Wagner, Bigelow, Kan.

RILEY COUNTY BREEDING FARM. Registered Red Poll Cattle. Fifty head in and headed by 2,400-pound Commander 1372. Six extra choice coming yearling

bulls for sale.

ED NICKELSON, Leonardville, Kansas.

GUERNSEYS

ONE COMING YEARLING GUERN-SEY BULL. ONE GUERNSEY BULL CAILF 6 WEEKS OLD, ONE GUERN-SEY COW—All for sale reasonable. Dr. E. G. L. Harbour, Baldwin, Kan.

Horton & Hale will sell a choice offering of Duroc bred sows at Rushvill, Mo., February 7. Their offering will consist of sixty head. A large per cent of the offering will be fall yearlings. Watch for further announcement in Kansas Farmer. Send now for catalog. Address E. A. Horton, care Wyeth Hardware Co., St. Joseph, Mo.

John A. Porterfield of Jamesport, Mo., and owner of one fo Missouri's best herds of Duroc hogs, will sell fifty head of very high class bred sows at Jamesport, February 12. This will be one of the good offerings of the season and send for catalog now and don't fail to attend this sale if you need some high class sows.



JACKSON COUNTY BREEDERS' ASSOCIATION

MOST PROGRESSIVE BREEDERS OF JACKSON COUNTY UNDER THIS HEAD



SHORTHORNS.

Oak Grove Shorthorns headed by the great bull "White Starlight" by Searchlight. Dam by Choice Goods. Every cow in herd straight Scotch. ROBT. SCHULZ, Helton, Kansas.

ABERDEEN ANGUS.

"BLACK DUSTER" heads our herd, mated with as richly bred cows as can be found. Choice cows with calves at foot, and re-bred. Also young bulls. Berkshires. George McAdam, Holton, Kan.

POLLED DURHAMS.

"TRUE SULTAN" heads herd. Shown at 9 leading fairs last year, winning 9 firsts and 8 junior championships. We are mating him with cows of equal breeding and merit. Ed. Steglin, Straight Creek, Kan.

HERFORDS.

HEREFORD BULLS. Choice, richly bred individuals, ready for service. Also Duroc Jersey gilts bred for spring farrow. Percherons for inspection.
M. E. GIDEON, Emmett, Kansas.

HOLSTEINS.

SHADY GROVE HERD. For immediate sale, four choice young buils of excellent breeding and out of high record dams. Also three-year-old herd bull. Inspection invited. G. F. MITCHELL, Holton, Kan.

SEGRIST & STEPHENSON.. Breeders of registered working high testing Holsteins. Choice young bulls out of record cows for sale. Farm adjoins town. Holton, Kan.

"BUFFALO AQUEINALDE DODE," son of a 24-lb. cow, heads our Holsteins. Cows are as good as we could find. Young bulls for sale later. Visitors always welcome. DAVID COLEMAN & SONS, Denison, Kan.

HOLSTEINS. Best of breeding and individuality. Registered and unregistered O.
I. C. swine of the best strains. Also White Wyandotte chickens. Stock for sale.
J. M. Chestnut & Sons, Denison, Kansas.

PERCHERONS.

BANNER STOCK FARM. Percherons headed by "Incleus," grand champion at American Royal, 1911; weight 2,240. Big registered jacks and BRUCE SAUNDERS, Holton, Kansas.

PERCHERONS FOR SALE.
A few nice farms for sale. Write
JAS. C. HILL, Holton, Kansas.

JACKS AND JENNETS.



M. H. ROLLER & SON Circleville, Kan.

Breeders of jacks and jennets. Established 1881. All ages for sale. One imported Percheron and one high-grade Belgium stallion.

JERSEY CATTLE.

Linscott Jerseys. The oldest and strongest herd in Kansas. One hundred head, consisting of cows in milk, heifers and young bulls. Reasonable prices. Island breeding. R. J. LINSCOTT, Holton, Kansas.

FOR QUICK SALE—Jersey Herd Buil "Daisy Corona's Champion," an excellent sire of high producing heifers. Can't use him longer to advantage. Will sell cheap. R. A. GILLILAND, Mayetta, Kansas.

SUNFLOWER JERSEYS, headed by Imp.
"Castor's Splendid," mated with real
working cows. Choice young bulls of serviceable age for sale.
H. F. ERDLEY, Holton, Kansas.

SPRING HILL DAIRY FARM
Offers for sale bull dropped June 18, 1913.
Sire, a grandson of Sultan of Oaklands;
dam, first prize Nebraska State Fair.
J. B. PORTER & SON, Mayetta, Kan.

"Fontain's Valentine" Heads our Jer-seys. Unregis-tered cows bred to this bull for sale. Also bull calf. W. R. LINTON, Denison, Kausas.

DUROC JERSEYS.

Pleasant Home Farm. Choice Durocs. Headed by "K's Golden Rule," grandson of Golden Rule, dam of Tatarrax breeding. Prize winning Black Langshans. Stock for sale. George H. Klusmire, Holton, Kan.

OAK GROVE FARM DUROCS. Headed by "Freddie M" 94761, grandson of the noted Collossal. Sows in herd of equal breeding and merit. Visitors welcome. F. M. CLOWE, Circleville, Kansas.

POLAND CHINAS.

ORANGE CHIEF 68739 heads my herd of the big smooth kind. Fall boars and glits sired by Sunny Colossus and Blue Valley Glant 2d, out of sows with both size and quality. WALTER DODSON, Denison, Kan.

HIGHLAND STOCK FARM. Poland Chinas Shorthorns. 15 choice, big bone, spring and summer boars for sale, sired by "Expansive Wonder." Also fall boars. BROWN HEDGE, Whiting, Kansas.

MAHANS BIG POLANDS have both size and quality. Headed by a son of the great Expansive. Sows of unusual size and smoothness. 25 fall pigs, either sex, for sale. J. D. MAHAN, Whiting, Kansas.

COLEMAN'S BIG SMOOTH POLANDS. 150 in herd. Herd boars, Ross Hadley. Hadley C. Expansion, Price We Know, Mastodon and Mogul sows. Herd has tops from many sales. 20 bred gilts and 25 fall rules for sale. Also Jersey cattle pigs for sale. Also Jersey cattle. JOHN COLEMAN, Denison, Kan.

P. E. McFADDEN, HOLTON, KANSAS. Live stock and AUCTIONEER



ROBISON'S **PERCHERONS**

Stud headed by the champion, Casino 27830 (45462). Stallions and mares of all ages for sale. Come and see the largest pure-bred herd in the West before buying. One hundred and fifty head for sale.

J. C. ROBISON

Towanda - - - Kansas.

BREEDERS' SALE

400 REGISTERED HORSES 400 IN COLISEUM, BLOOMINGTON, ILLINOIS, JANUARY 27, 28, 29 and 30, 1914. 100 Head of Imported Stallions and Mares that will land by sale day.

100 Head of Imported Stallions and Mares that will land by sale day.

100 Head of Imported Stallions and Mares that have been here a year.

100 Head of Imported Stallions and Mares that have been here a year.

100 Head of Imported Stallions and Mares that ever went into an auction ring.

50 Head of Imported Fillies, one and two years old.

100 Reg. Stallions of the very choicest breeding and individuality.

100 Reg. Trotters GRADE DRAFT, Stallions and Mares.

100 Head Ponies Imp. and Native Bred Registered Shetland and Welsh.

D. AUGSTIN

C. W. HURT, MGR., Arrowsmith, Illinois. Catalogue Ready January 12, 1914.

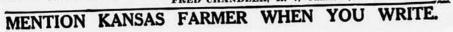
Percheron Stallions

We have 54 as good stallions as can be found in any herd, from coming 2's to 5-year-olds. We can sell a better and a bigger stallion for the money than any firm in the business. We fully guarantee every stallion. Write us what you want. BISHOP BROTHERS, Towanda, Kansas.



AMERICA'S FAMED HORSE DISTRICTS

This particular district, famed for Percherons. The Chandler herd is known draftiness, substance and bone. Big bunch reg. studs for sale, yearlings to fours, with weight and finish equal to the French. From imported ancestry on both sides and well grown. Grown here simply means surest foal-getters and both sides and well grown. Grown here simply means surest foal-getters and farmers' prices. Trains direct from K. C. and St. Joe.



NK

Ikey Buyer: Be a "Wise Guy." Buy "Show Horses" of Isms, who has crossed the ocean 50 times for horses and sold 5505 Registered Horses, Iams' 32 years of success in the Horse Business make him a Safe Man to do business with at Special Hard Time Prices. Guarantee backed by "Million Dollars."

Importation Horses are the "Big Noise" The "Big Black Boys" and "Hard Time Prices" make "Ikey Buy-ers" "Sit Up and Take Notice" and Buy Horses of Iams.

The "Peaches and Cream" Horse Importer is "up to the minute," an Expert Judge and a "Close Buy-er." His 1914 Importa-tion and his Home Bred

Percherons and Belgians are the Classiest Bunch of big-boned, real drafters of quality and fin-ish Iams has imported or bred, and will be sold Democratic "Let Live Pri-ces." Owing to war scare, poor crops in Europe, "Iams' Cash," and bought in November and December when Prices are Lowest, Iams made a "Killing" and bought a top bunch of Show

and Business Horses at Bargain Prices. Ikey, shy your "Progressive" Hat into the ring, buy a ticket to Iams' Horse town, and see Only Big Drafters. No Culls. IAMS' PROGRESSIVE PRICES

and Paris and Belgian winners are the "Town Talk." Iams' "Swell Horses" and "Hard Time" prices are "business propositions" that make the "electric wheels" work fast under a "wise buyer's hat.". Ikey, why worry? "Iams' selling clothes" fit all buyers. Iams has

60 - PERCHERON AND BELGIAN

Stallions and Mares, 2 to 6 years old, weight 1,700 to 2,300 pounds. All registered, approved, stamped and inspected by Governments of France and U. S., and Certificates "Stamped O. K." All sound, "Bell Ringers," "lams Kind" need no State Law to make "them sound." lams sells "winners."

IMPORTED AND HOME BRED AT \$1000 and \$1400 (Few higher.) Registered mares, \$700 and \$1,000. Terms, cash or one year's time at 8%. One year's time and security at 6%. \$100 less price for cash than time. Iams pays freight and buyer's fare. Gives 60% breeding guarantee. Backed by "Million Dollars." Can place \$1,500 Insurance. Iams' \$1,500 Show stallions are better than those sold elsewhere at \$5,000 to \$10,000. Iams backs up ads with a \$500 guarantee that you find horses as represented and at less price for "Toppers" than elsewhere. Never were such "big show horses" offered at such bargain prices. Write for "Eye Opener" and Horse Catalog. It has a \$1,000 bargain on every page. Feferences: First Natl., Omaha Natl. Bank, Omaha, and Citizens State Bank, St. Paul, Neb.

MORGAN STALLIONS AT BARGAIN PRICES

On Account of other business must sacrifice This High Class Stock to Close out Quick

BISHOP MONOMORE—A 15½ hands 1,000-pound chestnut, a real show horse with several ribbons to his credit. Bred for a great sire and is one. Price, \$500.00.

MAJOR MONOMORE 5897—A chestnut, 15½ hands, 1,000 pounds, good gaited Morgan that will make the breed popular wherever he stands. Sires the type the market demands. Price, \$400.00.

STORM CLOUD 6860—Chestnut, 15½ hands, will weigh 1,100 pounds when matured. A brother to Gov. Nimbus that won nine blue ribbons in nine shows. He is a well bred Morgan and a prospect for a great sire. Price, \$400.00.

Also the great mule jack, BARNEY 2D, black, 13½ hands with lots of weight. Sires large mules with plenty of style and bone. Breeders will find this stock priced far below its actual worth.

CHESTERFIELD, MO. CHAS. J. BECK,

125 HEAD STALLIONS and MARES PERCHERONS, BELGIANS AND SHIRES.

More actual ton stallions to be seen in Wiley's barns at Emporia than any other place in the West. If you need a stallion, come and see for yourself. I am going to make special prices for the month of January in order to make room for new consignment to arrive February 7. These stallions and mares are selected with an eye single to the wants of the most critical American buyer. I will save you from \$100 to \$200 on your horse. Write for prices and descriptions, or come and see me. Will meet all trains. Telephone 837. Barns close to A. T. & S. F. depot.

L. R. WILEY, Emporia, Kan. Importer and Breeder





BLUE VALLEY STOCK FARM

Largest importers of high-class Belgian Draft Horses in the West. Prize winners in Europe and America. Sound, acclimated and ready for service. Our American-bred stock goes back to the blood of Brin d'Or or his descendants.

Lowest prices and safest guarantee of any firm in the business. Also a few extra good Percheron stallions. Come and see us, or write.

W. H. BAYLESS & CO., Blue Mound, Linn County, Kansas.

POLAND CHINAS



ADVANCE 60548

The mammoth 2-year-old grandson of the great Expansion is the sire of the great line of fall pigs I am offering for sale at weaning time. Either sex. The dams of these pigs are a splendid bunch of brood sows of the Black Mammoth breeding. None better in big-type Polands. Priced to sell quick Book your order early and secure choice, mentioning Kansas Farmer.

PAUL E. HAWORTH, Lawrence, Kansas.

Spotted Poland Chinas

FOR SALE—A magnificent daughter of Budweiser, three years old, due to farrow February 25 to The Spotted Hero. Has always farrowed large litters. Price, \$100. Could not be bought in a Faulkner sale for \$200. Other bred sows, gilts and fall boars

THE ENNIS FARM, Horine Station, Mo. (30 Miles South of St. Louis.)

ERHART BIG TYPE POLAND CHINAS head of strictly big type Poland China pigs for sale at reduced prices for 30 days. Herd header and herd sows prospects. Sired by Major B. Hadley the Grand Champion, American Royal, 1911. Young Hadley—Glant Wonder—by A Wonder. Write today. We want to sell guick. to sell quick. A. J. ERHART & SON, Beeler, Kansas.

BIG ORANGE AGAIN BOARS. Extra good March and April boars, sired by "Big Orange Again," and "Gritter's Surprise." Dams—By "A Wonder," "Miller's Chief Price," and Podendorf's "Chief Price Again," Immuned. Price dright. A. J. SWINGLE, Leonardville, Kan.

BIG POLAND CHINAS.
Six spring boars sired by Missouri Metal out of Big Logan Ex. Sows, ten fall-pigs, five glits and five boars out of same sows; sired by Chief Mogul. Prices reasonable. Write us. J. M. RHODES, Topeka, Kan. Route 1, Box 144.

TWO GOOD POLAND CHINA SPRING BOARS
Sired by U Wonder and out of Mogul sows. A few spring glits by U Wonder and Orange Lad by Big Orange. Ninety fall pigs, will sell pairs or trios. Write us today.

THURSTON & WOOD, Elmdale, Kan.

CLAY JUMBO POLAND CHINAS
Headed by the only Clay Jumbo, assisted
by Big Joe, an A Wonder boar. Six choice
fall and twelve selected spring boars at bed
rock prices. Also glits.
JAS. W. ANDERSON, Leonardville, Kan.

HARTER OFFERS POLAND BOARS

No fall sale. Twinty choice spring boars, tops of 35, best of breeding, \$20 each. Also five fall boars, good ones, \$25 each. Nothing but the best shipped.

J. H. HARTER, Westmoreland, Kan.

BIG POLAND CHINA SPRING PIGS Sired by Peter Mouw boars. Here is where you can get big-type pigs at a low price Never before was there such a bargain of fered. Write me your wants. Ben Bademacher, Box 13, Mulberry Grove, Illinois.

CLOSING OUT BIG POLANDS.

Herd boar Melbourne Jumbo, two tried sows daughters of Gold Metal, two July gilts by herd boar, and 20 choice fall pigs. Low prices for quick sale.

R. B. DAVIS, Hiawatha, Kansas.

POLAND CHINA BRED SOWS For sale, bred to a good son of Big Ben. The sows are granddaughters of Gold Metal and other big boars. Also select fall boars. AUSTIN SMITH, Dwight, Kansas;

TWO HERD BOARS FOR SALE—One 3-year-old, a grandson of Big Hadley; one fall yearling sired by Mastiff by King Mas-tiff. Priced to sell. Geo. Haas, Lyons, Kan.

BIG TYPE POLAND CHINA GILTS.
Fall yearlings and tried sows, bred to
"Mollie's Jumbo," 74 in. long, 36 in. in,
and has 10-in. bone. Glits \$20 and up; fall
glits and tried sows \$30 each. They are
out of big dams. V. E. Carlson, Formoso,
(Jewell Co.) Kansas.

FOLEY'S EXTRA CHOICE POLANDS

Five spring boars, good ones: ten extra choice spring gilts bred for spring; also a few tried sows bred. Reasonable prices. J. F. Foley, Oronoque, (Norton Co.) Kan.

Immune Poland China Boars and Gilts. Ten big strong spring boars, \$20 each if sold soon. Thirty spring gilts, bred, \$25 each until January 1, or while they last. until January .1, or while they last.

Hubert J. Griffiths, Clay Center, Kansas.

Merten's Big Smooth Poland Chinas Headed by King Hadley 3d and Kansas Wonder, mated with daughters of Old Ex-pansion, What's Ex, and Grand Look Jr.

Stock for sale. E. E. MERTEN, Clay Center, Kansas.

BRED SOWS FOR SALE.

I will sell a few choice Poland China brood sows, sired by Missouri Governor and bred to a son of Kansas Hadley by Big Hadley. A few extra good spring boars for sale. Write me. L. R. WILEY, SR., Elmdale, Kan.

Faulkner's Famous SPOTTED POLANDS.
We are not the originator, but the preserver, of the
Old Original Big-Boned Spoted Polands.

Write your wants. Address
H. L. FAULKNER, Box K, Jamesport, Mo.

ARKELL'S BIG SMOOTH POLANDS.
Eight good big smooth spring boars still for sale, mostly by First Quality, others by Pan Look, out of our big sows. Popular prices. Jas. Arkell, Junction City, Kansas.

FIFTY IMMUNE POLAND FALL PIGS
Extra choice, either sex, sired by the great
King of Kansas, and out of mighty big
sows. Attractive prices.
J. L. GRIFFITHS, Riley, Kansas.

SPOTTED POLAND CHINAS.
June and October Boar Pigs for Sale.
A. S. ALEXANDER, Burlington, Kan.

POLAND CHINAS

PECKHAM'S IMMUNE BIG POLANDS.
Six fall and spring boars; 25 tried sows; fall yearlings and spring glits. Big and smooth. Want to sell half of them. Take your choice. All tried sows bred to the great "Blue Valley Gold Dust;" glits sired by him. Inspection invited.
R. J. PECKHAM, Pawnee City, Nebraska.

WONDER POLAND CHINA HERD
Headed by Model Wonder, assisted by a son
of Blue Valley. Mated to as big sows as
can be found. We offer spring glits by first
named boar and bred to the other one at reasonable prices.
O. R. STRAUSS, Milford, Kan.

CLARK'S EXTRA BIG SMOOTH POLANDS.
Choice spring boars for sale by a grandson of the noted A Wonder. Also bred gilts son of the notes and fall pigs.
L. C. CLARK, Meriden, Kansas

HAMPSHIRE HOGS

HIGH QUALITY HAMPSHIRES. Spring Boars and Gilta, sired by prize-winner, T. R. Fancy. Will sell Mollie 5th, one of my best sows, due to farrow October 12.

S. E. SMITH, Lyons, Kansas.



ECLIPSE FARM HAMPSHIRES. Bred sows, spring and summer pigs for sale. A. M. BEAR, Medora, Kansas.



HAMPSHIRE HOGS.
Bred sows, spring pigs,
pairs or trios not akin.
Pat Malloy and General
Allen blood lines. Prices
reasonable. F. C. Wittora, Medora. Kan.

OHIO IMPROVED CHESTERS

Crystal Herd O. I. C's

Headed by Frost's Buster 29745 by Thea 30442. A few choice boars by this great sire, \$25 while they last. Will weigh 225 pounds and up. Bred gilts, March farrow, \$35 to \$50. Gilts bred to Frost's Buster, Expectation, and Illustration. They are the kind that win the ribbons.

DAN WILCOX, Cameron, Mo.

FROST'S O. I. C's

FOR SALE—Ten good spring gilts, 70 fall pigs in pairs or trios not akin. All sired by prize winners. Address S. D. & B. H. FROST, Kingston, Mo.

WOLFE'S O. I. C. SWINE, Large, prolific kind, March and April boars. Glits bred or open. Fall pigs. Prices low. Pedigrees free. Write your wants. D. W. WOLFE, Route 2, Carrollton, Mo.

O. I. C. SWINE Harry W. Haynes, Meriden, Kansas,

AUCTIONEERS.

Be an Auctioneer

Travel over the country and make big money. No other profession can be learned so quickly that will pay as big wages. Write today for big free catalog of Home Study Course, as well as the Actual Practice School, which opens January 5, 1914.

MISSOURI AUCTION SCHOOL
Largest in the World. W. B. Carpenter, Pres., 1400-1404 Grand Ave., Kansas City, Me.

Col. Jas. T. McCulloch General Auction-Clay Center, Kansas. eer. Ten years of tice selling for some of the best breeders.

R. L. HARRIMAN LIVE STOCK AUCTIONEER

Bunceton, Missouri.

Col. Will Myers Live Stock, Real Estate and General Auctioneer.

LAFE BURGER

LIVE STOCK AND REAL ESTATE AUCTIONEER Wellington

Kansas. W. C. CURPHEY Pure-Bred Stock and Blg Farm Sales. Salina, Kansas.

Col. N. E. Leonard Live Stock and General Auction-eer. Use up-to-date methods. Pawnee City, Nebraska.

COL. FLOYD CONDRAY Stockdale, Kansas

Col. Frank Regan Live Stock and Gen-Esbon, Jewell County, Kansas.

Col. C. A. HAWK Live Stock and General Auctioneer.

L.R.BRADY Fine Stock Auctioneer. Ask those for whom I have sold.

Manhattan, Kansas.

Col. Jesse Howell Live Stock and General Muctioneer. Up-to-date methods. Herkimer, Kan.

DUROC JERSEYS

GOLDEN RULE DUROC JERSEYS.
Twenty spring boars, tops of entire crop.
Sired by Dreamland Col. and River Bend
Col., out of big mature sows. Priced to sell.
LEON CARTER, Asherville, Kan.

IMMUNE DUROCS—Fifty big-type sows and gilts, fall boars and spring pigs. Choice breeding and guaranteed immune from cholera. Inspection invited.

P. J. NELSON, Assaria, Saline Co., Kan.

DISPERSION SALE OF

Percheron Horses

Seven Young Stallions. Thirteen Mares and Fillies. JANUARY 29, 1914

Twelve head in this offering are grandsons and daughters of Casino 2783 (45762) and all are excellently bred. They will be sold in just good breeding condition, and are a good, clean lot, with plenty of quality and size. Send for catalog.

SNYDER & STALONS - - - OSKALOOSA, KAN.

STALLION and JACK SALE

AT CONCORDIA, KANSAS, FEBRUARY 4, 1914.
THREE DRAFT, TWO STANDARD-BRED, ONE COACH HORSE, AND SIX
GOOD SOUND JACKS
The kind that size the high priced males

The kind that sire the high-priced mules. All guaranteed sure foal getters and quiet workers. I have handled this stock myself and know them to be money-makers. I am knocked out with rheumatism is reason for selling.

Terms cash, 18 months time, approved note, 8 per cent interest. Write

Auctioneers—Col. G. B. VanLandingham, Concordia, Kan.; Col. William Godley, Blackwell, Okla.

LEWIS J. COX -:- -:- -:- CONCORDIA, KANSAS.

HORSES AND MULES.

LOCUST BLUFF STOCK FARM

Jacks, Jennets, Herefords and Holsteins.
Twelve fine Missouri-bred jacks for sale, sired by None Such, the best son of King of Giants. Also extra fine Holstein bull and one extra Hereford bull ready for service. We also have younger bulls. We are breeders, not speculators. All stock guaranteed as represented.

JOHN G. THOMAS & SON, Harris, Mo.

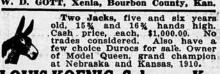
Kentucky Jack and Percheron Farms.

Big bone Kentucky mammoth jacks; Percheron stallions, mares, saddlers. Special prices in half car or carload lots. Write for catalogs. Cook & Brown, Lexington, Ky.

OSAGE VALLEY JACK FARM.

Sixteen jacks, from 4 months to
3 years old. Yearlings up to 15
hands, standard. One jack just
turned 3 years old, weight 1,050.
Forty jennets in herd, second to
none, some for sale. Twenty
years a breeder.

W. D. GOTT, Xenia, Bourbon County, Kan.



LOUIS KOENIG, Solomon, Ks.

DUROC JERSEYS

TATARRAX HERD DUROCS

Some choice glits by Tatarrax and G. M.'s Tat Col., bred for late: April and early May litters, at reasonable prices. HAMMOND & BUSKIRK, Newton, Kansas.

HILLSIDE DUROCS. 20 March boars sired by Dandy Model by Dandy Lad—Dandy Model's litter brothers won first and second at Kansas and Oklahoma State Fairs last year. Priced reasonable.

W. A. WOOD & SON, Elmdale, Kan. GOOD ENUFF AGAIN KING

Sensational grand champion, and Crimson Wonder 4th, second prize at Kansas Fair, 1913. Fifty head great sows and gilts sired by and bred to these two great boars.

W. W. OTEY & SONS, WINFIELD, KAN.

"The Men With the Guarantee."

DUROCS OF SIZE and QUALITY Herd headed by a son of B. & C.'s Col. Immune spring boars and gilts of Tatarrax, Col., Ohio Chief and Neb. Wonder breeding at farmers' prices.
JOHN A. REED. Route 2. Lyons, Kansas.

MODEL AGAIN Duroc Boars, \$15, Bred Gilts, \$25, R. W. BALDWIN, Conway, Kansas.

BELLAIRE DUROC JERSEY HERD.
Immune boars for sale. Orders for immune glits to be bred December and January to my two best herd boars. Also September pigs, all immunized, double treatment. N. D. SIMPSON, Bellaire, Kan.

CLEAR CREEK DUROCS

Headed by Clear Creek Col., grandson of Dreamland Col. No stock for sale at present time.

J. R. JACKSON, Kanapolis, Kan.

Summer and Fall Boars Durocs—Best breeding. Also a fine herd boar, cheap.
R. P. WELLS, Formoso, Kansas.

QUIVERA HERD DUROCS.

Have a few choice spring and summer boars for sale at prices that will please you. Gilts reserved for my March 7 sale.

E. G. MUNSELL, Route 4, Herington, Kan.

SHUCK'S RICHLY BRED DUROCS.
Fifty Fall Pigs, both sexes, sired by Model
Chief and other noted sires. Thrifty and
richly bred. Low prices for quick sale.
DANA D. SHUCK, Burr Oak, Kan.

DUROC JERSEY BOARS of early spring farrow, sired by Joe's Price 118467, a son of Joe, the prize boar at the World's Fair, out of large mature dams. Will ship on approval. Prices very moderate.

HOWELL BROS., Herkimer, Kan.

HORSES AND MULES

IMPORTED MARES AND STALLIONS



Importation arrived October 1, 1913. I have personally selected the best young stallions and mares I could buy in France and Belgium, two and three years old. They all have good breeding quality, sound and good colors, and will make ton horses. Every horse absolutely guaranteed. If you are looking for a first-class stallion or a good pair of mares, come and see me. I mean business. My barns three blocks from Santa Fe depot.

W. H. RICHARDS Emporia, Kansas

PERCHERONS SHIRES BELGIANS

We now have in our barns a new importation of extra big high-class stallions. We are pricing these horses very reasonably and also have a few first-class home-bred stallions which we will sell at from \$200 to \$600.

It will pay you to come to Lincoln and see these horses or send for our free catalog.

Watson, Woods Bres., & Kelly Co.

LINCOLN, NEB. Box 29



JACKS AND JENNETS

20 Large Mammoth Black
Jacks for sale, ages from
2 to 6 years; large, heavyboned, broken to mares and
prompt servers. A few good
jennets for sale. Come and
see me.
PHIL WALKER,
Moline, Elk Co., Kansas.



JACKS AND JENNETS.

Elighty large-boned black mammoth Jacks, 15 t ol6 hands standard, guaranteed and priced to sell. The kind all are looking for. Also good young Percheron stallions. Reference, banks of Lawrence. Forty miles west of Kansas City, on Santa Fe and U. P. Rallroads. AL E. SMITH, Lawrence, Kansas.

When writing advertisers, please mention KANSAS FARMER.

The Greatest Percheron Sale of the West

MANHATTAN, KANSAS, JANUARY, 27, 1914

At The Kansas State Agricultural College, Sale Pavilion

40 - Percherons Imported and Stallions, Mares, Colts - 40

Including our entire show herd 1913 champions.

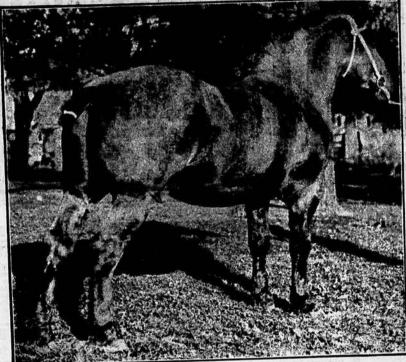
Twenty-two Mares

Bred to the champion, Scipion 27123 (43677), champion of France and America and made champion of Kansas State Fair, 1913, at the age of sixteen. Also colts sired by Scipion.

Fifteen Stallions

Including two of our 2-year-old 1913 show stallions, weighing over 2,100 pounds each.

The mares Marcellene and Flora were placed first and second in every show, also undefeated harness pair.



REINHARD—A TWO-YEAR-OLD PERCHERON STALLION THAT WAS FIRST AT KANSAS AND MISSOURI STATE FAIRS, AND FIRST AT AMER-ICAN ROYAL, THREE TIMES RESERVE CHAMPION STALLION OF 1918, WILL BE SOLD IN SALE.

Madeline and Moneta were first and second in each show in yearling classes. Neta is our undefeated under-a-year filley by Scipion.

Reinhard, the reserve champion of four shows, no doubt the greatest two-year-old stallion that will go through the sale ring in the United States in 1914.

Our Show Record

Thirty-two Champions and Reserve Champion out of a possible 44 chances. One-hundred-thirty First or Blue Ribbons out of a possible 145 chances.

Harveyville, Kansas For catalog or other information address LEE BROTHERS.

Auctioneers: Harriman, Snyder, Brady and Crews. EVERY DUROC JERSEY BREEDER SHOULD ATTEND THESE SALES

PRICE'S DISPERSION | RINEHART'S IMMUNE of Immune Durocs

MANKATO, KAN. FRIDAY, JAN., 30

Ten Tried Sows, Twenty-two Fall Yearling and Spring Gilts Three Great Herd Boars

Tried sows include all of my great herd matrons that I have been buying at top prices. Females bred to the herd boars listed and many of the gilts sired by them.

Attractions.

Overland Col. 126249. Graduate Col. 147535. Gilt by Grandmaster Col. 2d. One by Chief Protection. One by Valley Chief Again. Two by Defender Col.

Others by the great old boar, Bonny K., with their sire included. This is a select offering. All but the tops have gone to Kansas City. Write for catalog.

N. B. PRICE, MANKATO, KANSAS

Auctioneer, John Brennen.

Duroc Sow Offering

SMITH CENTER, KAN. SATURDAY, JAN., 31



Sixty-five Head of Strictly Tops

Tried sows and spring gilts. Very large, thrifty and growthy. Gilts topped from 100 head. Sired by Model Hero, R. & S. Crimson Wonder and Rambler's Wonder, out of as big sows as the breed affords. We include daughters of King of Kant Be Beat, I Am A Crimson Wonder, River Bend Col. Splendid colors. Not a bad foot. Broad arched backs and wide short heads. Among the attractions will be a couple of gilts and a boar out of Muncie Col., the great sow that topped the Leon Carter sale last year. Some of the sows are bred to this young boar. The offering is a great one, and if any breeder is disappointed after seeing it we will pay his fare home. Write early for catalog, and try and come. Sale held at fair grounds.

A. M. RINEHART & SON, Smith Center, Kan.

Auctioneers-John Brennen, N. B. Price.

Jesse Johnson will attend these sales. If interested and unable to come, send him sealed bids in care of party holding sale.

Our Great 1914 Offer!! HEING ROOFING **Money Down**

Here is the Greatest Sale ever advertised—the opportunity you have long sought for—a chance to buy staple lumber and building material—ReoSang. Wire, Feacing, Furniture and Household Goods of every kind and description, in fact, Merchandles of every nature, at unbeard of low prices.

We are determined that the Spring of 1914, will be the most successful in the history of this Great Company, and the Wise man will take early advantage of the great bargains shown in this advertisement.

rill care early seventage of the gentlement of pullding material from us, schuding everything you need to construct and equip and we will hip it to you, without one cent cash in advance.

All we want to know is that the money will be paid us as soon as the material is received, unloaded and checked up.

Lumber Prices S-m-a-s-h-e-d

Yes, we mean smashed. Absolutely busted to pieces. That's our polky, We quote prices on lumber that will positively save you big money. If you will send your lumber bill we will send you a freight paid price that will mean a saving to you of from 30% to 50%. Every stick is absolutely first class, brand new and fully up-to-grade such as you would buy from any reputable house in the United States.

We have determined that the year of 1914 is groung to be the Banner year in our great lumber department. We have as head 20,000,000 oct of high-grade lumber suitable for the construction of Buildings, no matter for what purpose intended comes to our great spads in Chicage and let us show you the stuff acquainty door for the price. This is only one of our many special bargains. Our grand Building Material Catalog and Bargain Shoets will show a full line of insade Milliwork and the construction of Buildings and Bargain Shoets will show a full line of insade Milliwork Building Material Catalog and Bargain in Millwork, Building Material of Bargains in M

Shingles At Big Saving

We have a special los for 1,000,000 8 to 2 los inch Clear Shingles on which we are making an exceptionally low price of \$3.80.

Order by Lot No. M9-40.



A 200-page Book of Bargains in Millwork, Build-ing material of all kinds, includ-

all kinds, includ-ing Paints, Flumbing, Heat-ing, Structural Iron, Metal and Composition Roofing, Hard-

MATERIAL

CHICAGO HOUSE WRECKING CO

Now operated under the name of

HARRIS BROTHERS COMPANY

OR 22 years the CHICAGO HOUSE WRECKING COM-PANY has been well and favorably known to the public. Dur-ing all these years the four Harris Brothers have been the execu-tive officers and owners and for that reason have finally decided persate under the name of HARRIS BROTHERS COMPANY.

There is no change in our business, except that in the future the four Harris Brothers will advertise and sell their goods, heretofore advertised and sold under the name of the CHICAGO HOUSE-WRECKING COMPANY, under the name of HARRIS BROTHERS COMPANY.

Why We Are Called the Great Price Wreckers

Consider what becomes of the stock of goods, when a manufacturer or big retail merchant goes bankrupt or "busted" as the saying goes. It is estimated that about ten thousand merchants annually meet with business disaster—this is why our company exists. If the stocks are sumdently large and the goods are new and desirable, they find their natural way to our great forty sore plant for distribution at a small added profit, to our thousands of customers, who in this way got the benefit of wonderful bargains. In many cases our prices do not even represent the original cost of production, we stand foremost in our line. We recognize no competition, That's why we are called "THE GREAT PRICE WRECKERS."

Our Binding Guarantee

We guarantee absolute and complete satisfaction. There is no half way about this guarantee. Every purchase you make from us will be exactly as represented and you will be extinded in every way, or we will make such just amends as are within our power. We will take back any unsatisfactory article at our freight expense both ways and refund your purchase price. We refer as to our responsibility to the publisher of this or any other publication or any bank or express company and to the public at large.

We Sell Practically Everything

Our stock includes practically "everything under the sun." It's in truth, from a needle to a locomotive. No matter what your vocation, or what position in life you occupy, or what your business, or how great a merchant you are, you have use for us, and we have the goods that you can buy from us to a decided advantage. The quicker you learn to recognize this fact, the sooner you will be "putting money in your pocket."

Our stock includes Building Matterial

money in your pocket."

Our stock includes Building Material, Lumber, Roofing, Sash, Doors, Millwork, Wire and Fencing, Hardware, Plumbing Material, Hesting Apparatus and Supplies, Furniture, Household Goods, Rugs, Stoves and everything needed to furnish or equip your home, your club or hotel. It includes Groceries, Clothing, Dry Goods, Boots and Shoes, Furnishing Goods and every single article to clothe a man, woman or child. It includes Sporting Goods, Fishing Tackle, Hunting Outflut, Tents, Guns, Harness and Vehicles, Jewelry, Sewing Machines, Clocks; also structural iron needed in construction of buildings, bridges, etc. Machinery, gasoline, gas and electric power outflut. In fact you cannot think of a single manufactured article that we cannot supply you at a maving in price. Let us convince you—it means but little effort on your part to prove the truth of all we say. Write us today for our Catalogue and literature. Fill in the coupon shown below.

THE GREAT PRICE WRECKERS

A THOUSAND PAGES OF BARGAINS

Write us today for a copy of our Greet Big Spring
Price Wrecker now off the press. It is the most
stupendous Book of Bargains ever produced. It
contains a thousand pages of matter true to life
and describes the merchandise we are offering for
sale so plain and correct that you will experience
sale so plain and correct that you will experience
as trouble in making your selections.

It is a wonderful book of Bargains and can be
used every day of your Buying Life. You need it
whether you are a customer of ours or not.

WRITE US TODAY.

WRITE US TODAY.

\$759 Buys the Material to Build This House

This is Our House, No. GA
A beautiful up-to-date full 2 story, 7
coms and bath, home. The biggest
argain in the world. Oppied and inited all ever the U.S., but our price and maited all ever the U.S., but our price and maited all ever the U.S., but our price as only 35
0 0per cent below local depley prices. because be equation to be a property of the pr

Original Methods

We are the originators of a system of selling practically complete House direct to the consumer, at a great saving.

We eliminate all in-between profits. We sell and ship direct to you from our own stocks. Great care and study has been given all our Flans. Economy is the watch-word both in materials and construction.

No Worry No Loss

No Waste

Our Binding Guarantee
both as to quality and quantity goes with every sale.
Write us for letters from
people in your vicinity who
have bought from us. We
have thousands of unsolicited
testimonials.

SPECIAL INFORMATION

If you intend building, you will lose, noney if you don't write us at once. Tell us what you want. We will answer you promptly and give you valuable information regarding building. Send rough pendi sketch showing the kind of house you want. We will make you a freight paid price that will save you big money on materials. If you intend to make improvements, write us what they are, and we will help you to save money on your purchases.

Our FREE BOOK OF PLANS

Our Book of Plans contains 130 pages of different kinds of buildings. Everything from a 2 room Portable House for \$147.50 to the finest kind of a residence. Houses are completely illustrated showing the floor plans, prices, etc, and it's free.



Wire and Fence Prices Smashed!

Barb Wire Less Than 20 Per Rod

New Galvanisod, heavy weight barbwire, put up on reels about 100 lbs. to the reel. Lot 2-OD-50 per 100 bs. \$1.95. Galvanized barb wire, Light.weight, bestgrade, best made. Fut up grantly 60 rods to reel, 2-point barbs. Lot 2-OD-22, per reel, \$.140.



WIRE NAILS, Per Keg, \$1,28

5,000 kegs, put up 100 lbs. to the keg mixed, all kinds together, regular nails, such as made by nail factories. Lot

5.000 kegs, put up 100 lbs. to the keg mixed, all kinds together, regular nails, such as made by nail factories. Lot 2-CD 33, price per keg, \$1.28. 1,000 kegs of 10 penny-weight regular new wire nails, 100 lbs. to the keg, while they last, per keg, \$1.85. Write for our free Wire and Fence Catalogue, Gives valuable information to any land owner. Fill in the coupon below.

Smooth Galvanized Wire Per 100 Lbs. It is suitable for fences, stay wires, grape vines or for any or. \$1.13 wires, grape vines or for any or. \$1.13. This galvanised wire; is tregular in length—it ranges any where from 50 to 250 ft.51.13 is our

15c per Rod Buys Heavy Hog Fencing

Here is an remarkable remarkable bargains. A good heavy fence, bought from Ohlo flooded factory, perfected faring purposes, 26 in. high, square mesh, put up in Suitable size rolls. Lot 2-CD-31, price per rod 15c. Other heights in proportion. Staples, 100 lbs., \$1.75.

PREMIER, MICHAELSON READY House PAINT

Our paint department is under the personal supervision of Mr. v. Michaelson, for 30 years the foremost paint man in America. His picture has appeared on over 8,000,000 cans, and his name is known from ocean to ocean. Paint of quality is his specialty. Every gallon has our strongest guarantee. Our Ready Mixed Barn Paint at 66e a gallon will dutlast any similar paint produced. If you want quality paint, write us or write to Mr. Michaelson if you prafer. Finest, most valuable paint book ever published sent PREE. Sand coupon.

This is a white enameled, cast iron, one-piece, heavy roll rim bathtub; fitted with the latest style, nicket the latest style, nicket production of the prod BROTHERS CO. 35th and Iron Sts. Chicago

ROOFING PRICES SMASHED!

Calvanized Steel Roofing is Fire, Water and Lightning Proof

We bought 20,000 squares of this Corrugated Iron Roofing, which we offer at this remarkably low price. It is new, perfect, and first-class, but light weight. The sheets are 22 x 24 in. x 14 in corrugated. Our price of \$1.25 per sq. is 1,0 b. car Chicago. When ordering this item, specify Lot No. CD-700. This is not palvanised, but black steel roofing. Write us today for our special FREIGHT PREPAID PRICES on new palvanised roofing. We are offering prices lower than ever before offered a the roofing business. Galvanised roofing at \$2.75 per square and up. isk for free samples. We can furnish anything needed in Roofing, Siding or Ceiling.

620 Per 108 Square Feet Buys Beet Rubber
Surfaced "Ajax" Roofing
Here again we show the lowest price ever
known for roofing of quality. This smooth
surfaced roofing we are offering is our one-ply
"Ajax" brand, and the price includes necesary cement and caps to lay it; this price is
£. o, b. Chicago; at 85c per square, we pay the
freight in full to any point East of Kansas
and Nebraska and North of the Ohio River,
provided your order is for at least 3 squares. and Nebraska and North of the Ohio River, provided your order is for at least 3 squares. Prices to other points on application.

Roofing is guaranteed to wear as long and give as good service as any Ready Rubber Surfaced Roofing on the market. It is out up is rolle of 108 square feet and contains 2 to 4 pieces to the roll. We have other grades of Eacly Roofing, which we offer at a prices easily 30 per and heavy regular coventions. Write today for free samples and secting Catalogs. Fill is the ocupon.

Fill in This Coupon

HARRIS BROTHERS CO., Dept. C. D. 49 Chicago Send me free of cost the following catalogs. (Place an X mark in square opposite the catalogs you wish)

Catalog of Building 50,000 Bargains Material Plan Book of Roofing, Siding and Celling Wire and Plumbing Paint

My Address is.....

LETTERS FROM CUSTOMERS

\$1,000.00 Saved

Everything arrived in good condition. I saved me the building: also heating plant and bath.

Some 10 or 12 years ago, I bought quite a bill of Rhad of the building: also heating plant and bath. on the building; also heating plant and bath-room outfit about \$1000.00 as this kind of lumber would be very dear here. Signed (LEWIS YOUNG, Pennsylvania.

\$700.00 Saved

I am perfectly satisfied. Don't be backward in referring to me, for you have done more than you agreed to. I saved \$700.00 and also got better material. and a better house.

(Signed) JOHN J. DUNN, Ohio.

Satisfied With Furnace

The furnace I got from you is perfect in every way. I would not be without it one winter for double its price. If farmers only knew how easy it is to install it, they would not be without it.

(Signed) HENRY D. CHARTER, Canada.

Black Corrugated Roofing from you, and only padded it wice since I laid it, and it is in just as good outlined to the laid it, and it is in just as good outlined from your catalog, as I expect to put up a barn next Spring and am looking for something for a roof as good as that bought from you last time. (Signed) W. W. STODDARD Ohio.

will Order More

Am pleased to say the roofing all here and in splendid shape. Allow me to congratulate you on prompt delivery. You will receive more orders from me. (Signed) D. DUCELLO.

Recommends Our Paint

I have used your Premier Paint in this salt at
mosphere for the past four years and find it better
for this climate than any paint I can buy, no matter what the price. (Signed) W.A. WEIDE, Florida.



Hot Water Heating Plants

We are headquarters for ateam,
by the water and warm air heating plants. They are pultable either for install one of these plants in your old building. For this great Fail Sale of ourse war offering a warm air heating plant large enough for the ordinary from plants in the ordinary from the ordinary for mem for a first ordinary from the ordinary

AXMINSTER RUGS at 75c

We bought at New York Auction an enormous stock of high grade, brand new rugs and floor coverings. This is a sample of our money-saving bargains. Write for complete Free Rug Catalog, showing actual colors.

. FURNITURE We are the World's Barrain Headquarters for the Outhi-ting of your bome, club, lodge or hotes, from the very latest for the world of the con-ting such as will be found in no other institution in the land. Write for free copy of our Fur-niture and Household Goods Catalog.