VOL. XXXX NO. 49.

# TOPEKA, KANSAS, THURSDAY, DECEMBER 4, 1902.

ESTABLISHED IN 1868 \$1.00 A YEAR

## KANSAS FARMER.

Established in 1863.

Published every Thursday by the KANSAS FARMER CO., - - TOPEKA, KANSA

E. B. COWGILL Presiden
J. B. MOAFRE Vice Presiden
D. C. NELLIS Secretary and Treasures

SUBSCRIPTION PRICE: \$1.00 A YEAR

E. B. COWGILL. Editor
I. D. GRAHAM. Associate Editor
H. A. HEATH. Advertising Manager

Entered at the Topeka, Kansas, postoffice as second class matter.



### ADVERTISING RATES.

ADVERTISING RATES.

Display advertising, 15 cents per line, agate (fourteen lines to the inch). Continuous orders, run of the paper, \$1.54 per inch per week.

Special reading notices, 25 cents per line.

Business cards or miscellaneous advertisements will be received from reliable advertisers at the rate of \$5.00 per agate line for one year.

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Special Want Column advertisements, 10 cents per line of seven words per week. Cash with the order.

Electros must have metal base.

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To insure prompt publication of an advertisement, send cash with the order; however, monthly or quarterly payments may be arranged by parties who are well known to the publishers, or when acceptable references are given.

All advertising intended for the current week should

well known to the publishers, or when acceptable ref-erences are given.
All advertising intended for the current week should reach this office not later than Monday.

Every advertiser will receive a copy of the paper free, during the publication of the advertisement.

Address all orders:

KANSAS FARMER CO. 116 West Sixth Ave., Topeka, Kans.

#### BLOCKS OF TWO.

The regular subscription price for the KANSAS FARMER is one dollar a year. That it is worth the money is attested by the fact that thousands have for many years been paying the price and found it profitable. But the publishers have determined to make it possible to secure the paper at half price. While found it profitable. But the publishers have determined to make it possible to secure the paper at half price. While the subscription price will remain at one dollar a year, every old subscriber is authorized to send his own renewal for one year and one new subscription for one year with one dollar to pay for the publishers of infrequently they are unknown to the persons most interested. With those who fail may very well be considered those who make only a very moderate success. In another class are those whose success is phenomenal while their industry is recognizable as real and valuable service to their fellow beings for one year with one dollar to pay for both. In like manner two new subscribers will be entered, both for one year, for one dollar. Address, Kansas Farmer Company. Topeka, Kans.

There is a big poultry show in progress at the Kansas State Agricultural College this week. Prizes aggregating over \$600 are offered and competition is strong.

The Oak Grange farmers' institute of Shawnee County will hold its opening session on the evening of December 11, and will continue all day December 12. A general invitation is extended to the public. Baskets will also be welcomed.

On the sitting of Congress, last Monday, several measures for the regulation of trusts were introduced. Some have thought a constitutional amendment nec-Those who have introduced essary. Those who have introduced making a moderate success able to give bills are, apparently, not willing to wait the strenuous, continuous attention to the slow process of amending the nabis vocation that is given by the man of tional constitution before attempting phenomenal success? It is not always some remedial legislation under author-

A diligent application of the present powers of Congress will, if made, probably be found sufficient to eliminate the harmful tendencies of the trusts. Of course, nobody wants to cripple their power to add to the general welfare.

An international convention of wireless telegraph people is to be held in Berlin, Germany, next March. Are we presently to speak so as to be heard around on the other side of the world by some system—to be—of wireless telephone? It is claimed that the wireless phone? It is claimed that the wireless sending and receiving instruments can be attuned in pairs so that every in-strument is silent to all but its mate.

The contest for the selection of a U.S. Senator from Kansas has taken a queer turn. On the one side the friends of the candidate speak in the highest or the candidate speak in the highest terms of the opposing candidates but wage a vigorous war on their supporters. On another side there is some criticism of a candiadte but only expressions of cordiality towards his supporters. The bone of contention appears just now to be not the Senatorship but the speakership of the Kansas but the speakership of the Kansas House of Representatives. What will be the outcome, the Kansas Farmer is not, just now, in the business of predicting.

Swine advertisers are doing the greatest volume of business ever known in the West. The liberal advertisers are getting phenomenal returns, showing that the demand for pure-bred swine is greater than ever before. One of our advertisers reports that he has sold \$933 worth at private sales this fall. Another advertiser states that he has sold out all boars and returned between 30 and 40 orders which he could not fill. All this is significant, and indicates that owners of first-class pure-bred stock of all kinds can with much assurance reach the buyers by advertising in the KAN-SAS FARMER.

#### THE METHODIZER.

The percentage of manufacturers, merchants, and traders who fail is surprisingly large. In many cases the causes of failure are not clearly apparent. Not industry is recognizable as real and val-uable service to their fellow beings.

The percentage of failures among

farmers is much smaller than among merchants; the percentage of the moderately successful is very large, while the percentage of phenomenally successful is even smaller among farmers than among those engaged in manufacturing and mercantile pursuits.

The lot of the moderately successful farmer has been often pointed out as that most desirable to attain. But as is the case with the moderately success ful merchant, the moderately successful farmer is never willing to join the failures below him and is more than willing to be transferred to the class of the phenomenally successful above him.

In a notable case in which a mother sought peculiar prominence for her two sons, they were asked, "Are ye able?"
The inquiry is as pertinent today as
1900 years ago. Is the man who is making a moderate success able to give not usually—a mere question of manual

mere dreaming about one's work that brings success, but systematic thought applied to the details and organization and execution of the work.

In the business world there is an at-

the business world there is an attempt now to find and apply a science of business. Just when or where it originated or by whom first conceived may never be known. Those who teach it do not call it science but mathed and it do not call it science but method, and instead of calling themselves professors they prefer to be known as methodizers. The man whose business is just jogging along and who is not keeping pace with his neighbor receives a call from a methodizer.

"A methodizer," says a writer in the Saturday Evening Post, "acts as a physician to commercial patients, makes a searching examination of a business, desearching examination of a business, demands of its proprietors their fullest confidence in giving him a clear view of its conditions, and then prescribes a series of changes in the system by which the business is conducted. This generally implies the installation of a new system of office or factory accounting, but it may equally well apply to the arrangement of floor space in a shipping room or of desk space in an office—in room or of desk space in a shipping fact, to the minutest mechanical details."

Some instances of the beneficial work of the methodizer are given. A methodizer was called to a great factory. odizer was called to a great factory. He went over the accounts and found that the shop expenses were out of proper proportion. He looked around for awhile and then one day called the officials of the company to meet him at the gate through which the hands must pass when their labor was over. He made each man take off his coat and He made each man take off his coat and open his supposedly empty dinner buck-

The result was that more than \$2,000 worth of tools and material, stolen from the shop, were exposed to the astonished officials. For lack of a system in checking up each night, the fac-tory was losing more than half a million a year.

What the methodizer most often finds is a clinging to old and antiquated ways. He naturally first examines the books of the concern. These may show what is the matter or they may be so kept as to fail to show conditions which must be known before the cause of the lack of success can be discovered. The methodizer's remedy for this case is not hard to guess. It is a modern keeping of accounts. This requires less work in many cases than was devoted to the antiquated system which had failed to disclose the sources of losses or of lack of profits.

If the methodizer does his client any good he does it by getting him out of the ruts in which in the majority of cases he has been traveling, shows him where to apply the strenuous effort; how to use his energies and his resources according to modern methods.

Possibly the professional methodizer will not immediately receive calls from farmers. But the fact that these shrewd detectives of the causes of lack of success in business and manufacturing are able to rejuvenate almost dead concerns and put them in the way of rendering valuable services to mankind for which mankind is willing to award them abundant prosperity, this fact ought to suggest to the farmer who has made only a moderate success that a careful examination of his methods, conducted by himself and wife with the assistance of of some "home remedies" with good renently successful man in any other line sults. In a majority of cases the farm of endeavor. The farmer whose alertity already granted by the constitution, labor, but success depends rather upon er who wishes he were in the class of

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the eminently successful will find that he has neglected entirely the important matter of keeping books. Now, keeping books consists not merely in making a books consists not merely in making a rigid account of household expenses. Important as this is, it may much better be omitted than may those accounts which show how much a product costs to produce it and market it and how much was received for it. Such a record will necessarily show the dates of all that is done on the farm. This record of dates is in itself most valuable.

To turn one's gaze upon mistakes a c. s. n. rs k. ty d. ct ng to ngh and

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To turn one's gaze upon mistakes made is not pleasant; neither is it necessary nor is it wise to continually look at one's mistakes or failures. They should be among the things left behind, while one presses forward along the line of his successes. If anything "costs more than it comes to" and there is no way of reducing cost of production, produce something which the accounts show to be profitable.

The farmer may well be his own methodizer. It is the man who knows how his interests are progressing, knows where his profits and losses oc cur, knows their amounts in detail, knows when and how he is going to do things; it is this man who is able to stop the losses, to increase the profits, to reduce his cost of production, and to

increase his returns for his products. Farming, having to be done out of doors and being subject to interruptions on account of the weather, would probably seem like an unsolvable puzzle to the business methodizer. To make farming a pronounced success requires the highest order of talent, the readiest power of adaptation to changing and unforeseen conditions and the same strenuous the older children, may point to the use activity that characterizes the preemiof endeavor. The farmer whose alert-

(Continued on page 1191.)

#### THE HESSIAN FLY.

EDITOR KANSAS FARMER:-Will you please describe the Hessian fly that lays the egg in the wheat? A. T. T. Winfield, Cowley County.

accompanying illustrations should enable our correspondent to recognize the Hessian fly, especially when in the so-called "flaxseed" stage of its

The eggs of the fall brood are probably all laid before the first of October in most parts of Kansas. These are minute, slender, pale red to brownish, and are usually laid in rows of three to five or more on the upper surface of the



The Hessian Fly (Cecidomyia destructor, Say.) 4, Fly of natural size; h, the same, magnified; j, k, Maggots, magnified; l, the "flaxseed" state, enlarged.

leaves of the young wheat plant. In the leaf on one of the lower joints of the A single female may lay 100

to 150 eggs. Very small greenish-white maggots hatch in three to five days. These crawl down the leaf to the base of the sheath embedding themselves between the sheath and the stem. They draw their substance from the stem. This causes more or less distortion and enlargement of the stem at the point where the maggot lives. In the fall the maggots work close to or beneath the surface of the In the spring brood the maggots usually establish themselves just above the first or sometimes the second joint, but they are occasionally found just at the surface of the ground as in the case of the fall brood.

The maggots feed on the juices of the wheat stem for about twenty days when they contract and their outer skin forms a hard brown sheath. From its resemblance to flaxseed this state is called the flaxseed state of the Hessian fly. In this state the fly is easily found just under the lower sheathes of the wheat,

## I Will Cure You of Rheumatism VACCINATION OF CATTLE AGAINST

Else No Money Is Wanted.

After 2,000 experiments, I have learned how to cure Rheumatism. Not to turn bony joints into flesh again; that is impossible. But I can cure the disease always, at any stage, and forever.

I ask for no money. Simply write me a postal and I will send you an order on your nearest druggist for six bottles Dr Shoop's Rhematic Cure, for every druggist keeps it. Use it for a month and, if it succeeds, the cost is only \$5.50. If it fails, I will pay your druggist my-

no samples because my medicine that can affect Rheumatism quickly must be drugged to the verge of danger. I use no such drugs, and it is folly to take them. You must get the disease out of the blood.

My remedy does that, even in the most difficult, obstinate cases. No mat-ter how impossible this seems to you, I know it and I take the risk. I have cured tens of thousands of cases in this way, and my records show that 39 out of 40 who get those six bottles pay gladly. I have learned that people in general are honest with a physician who cures them. That is all I ask. If I fail I don't expect a penny from you.

Simply write me a postal card or letter. I will send you my book about Rheumatism, and an order for the medicine. Take it for a month, as it won't harm you anyway. If it fails, it is free

and I leave the decision with you. Address Dr. Shoop, Box 529, Racine, Wis.

Mild cases, not chronic, are often cured by one or two bottles. At all

if present in considerable numbers. Usually this flaxseed state is reached before zero weather occurs. The fly passes the winter in this state.

The spring brood of flies come out from these "flaxseeds" with the return of warm weather in May, probably in April in southern Kansas. These lay eggs from which the spring generation of maggots develop to turn to "flax-seeds" and, later, to flies.

Some think there is an intermediate brood between those from eggs laid in the spring and those from eggs laid in the fall. In any case, when flies pre-vail there are plenty of them in September to lay the eggs which shall transform to flies the next spring.

From the illustrations and these de-

scriptions our correspondent ought to be able to recognize the fly if his wheat is seriously infested. Reports indicate that considerable damage has been done. This can not now be helped. The question as to whether the yet more serious injury likely to be done by the spring brood can be guarded against is now the important one.

Some farmers have reported good results from pasturing fly-infested wheat. From the foregoing description, it will be seen that unless the wheat be grazed down to the roots the parts of the plants in which the flies now live will not be eaten by the animals. The suggestion that the maggots are liable to be crushed under the feet of the ani-mal is scouted by some and believed by others. Many writers advise the use of commercial fertilizers to stimulate a vigorous growth of the fly-weakened

wheat plants.
With this as with many other pests the only really effective measures are those of preventive character. If the fall brood can be trapped and destroyed case of the spring brood they are some. fall brood can be trapped and destroyed times thrust beneath the sheath of a their share of the damage will be avoided and there will be no spring brood. It is possible to trap the fall brood. It has been observed that where files abound volunteer wheat is certain to be infested. Early-sown wheat is more liable to attack than late-sown. Wheat sown in October is rarely affected unless there be volunteer wheat in the field. Observation has - shown that where wheat is sown early the flies lay their eggs early and die. Deprived of the opportunity to deposit their eggs they live to a later date.

These facts have led to the trial of the plan of sowing narrow strips throughout the field very early. flies lay their eggs in these and die. The strips may be pastured closely and plowed and again sown to a late crop or planted to some other crop in the spring. Of course the remainder of the field must be kept free from volunteer wheat, otherwise the decoy strips will have been used in vain.

If all wheat sowing could be deferred until after the death of the flies and all volunteer wheat were kept down there would soon be an end of the Hessian fly. But the advantages of fairly early sowing may be had with fair immunity from the pest by the use and sacrifice of the very early decoy strips.

## TUBERCULOSIS.

There are those who object to vaccination as a preventive of smallpox. Most of the objectors admit the general efficiency of the prevention, but are op-posed to its use because afraid of the introduction of some other dissease with the vaccine.

It was long after the use of vaccination against smallpox had become quite general before it was found that its efficiency in preventing the disease was only one instance among many. Vaccination, or inoculation, is now used in combatting very many of the ailments of men and animals. The malignant blackleg in cattle is, in general, powerless for harm in animals which have been recently vaccinated with a good blackleg vaccine. The bite of the mad-dog is combatted in a similar way. The disease which has received most

attention of late on account of its de struction of both human and animal subjects is tuberculosis, or consumption. For several years it was held that this disease in man and beast resulted from identical bacteria and might be communicated from man to beast or from beast to man. Recently Dr. Koch, the discoverer of the bacillus which causes consumption, raised a storm in medical circles by claiming that the tuberculosis of cattle is different from the tubercuiosis of man and that they are not inter-communicable. A discovery recently announced by von Behring, of the Uni-versity of Magdeburg, lends confirmation to Koch's claim, and is, at the same time, of immense importance to the cattle industry. In writing of this recent discovery in the Breeder's Gazette, E. V. cient growth should be left on the sod

Wilcox, of the United States Depart-

ment of Agriculture, says:

"For five years Behring has been carrying on experiments at the University of Marburg in vaccinating, or as he calls it, 'jennerizing' cattle.

"The method may be described as fol-lows: One milligram of tubercle bacilli obtained from the sputum of consump tive of human beings is injected under the skin or into a vein of cattle preferably about 5 to 7 months of age. This inoculation causes a mild attack of the disease, from which the animals recover within a week or ten days. After a period of four weeks a second much larger inoculation is given. The animal quickly recovers from this injection and is then perfectly immune to tuber-culosis. Von Behring and his associates have treated a large number of cattle in this manner. After such treatment the cattle are not affected even by inoculation of enormous quantities of virulent tubercle bacilli which kill other unvaccinated animals within two weeks. Van Behring subjected his vaccinated ani-mals to natural infection by association with cattle in the last stages of tuberculosis. No case of infection has oc-curred, although some of the animals have been exposed for two or three

"This method of immunizing cattle against tuberculosis is considered by von Behring as strictly analogous to vaccination against smallpox in man. The modest announcement of the method in a small pamphlet gives little hint of its immense value to cattle-raisers and dairymen. While it may be some time before the method is so perfected as to be safe in the hands of the stockraiser it can readily be applied by veterinarians. The matter should be immediately tested by American veterinar-ians. When von Behring's method comes into general use tuberculosis of cattle will be placed in the same category as a disease preventable by vaccination."

The November Kansas Issue, just out, tells how the late election is likely to affect the enforcement of the prohibi-tory law in the State. An investigation by the State Temperance Union reveals that in thirty-six out of eighty-two counties reporting, the enforcement of the prohibitory law was more or less an issue in the campaign, while in forty-six it was not an issue. Of the eighty-twocounties, thirty-two are likely to have a better enforcement of the law under the new than has been had under the outgoing officers. In six counties the conditions are expected to be worse. In forty counties they will be about the same. In some of these forty counties the law is now well enforced, in some poorly enforced, and in some enforced hardly at all. The Issue says that temperance people ought to be encouraged by this report, as five times more coun ties reported a better than a worse outlook. But it also suggests that the report should spur the friends of prohibition to renewed and united effort, inasmuch as in many localities the law is but feebly enforced.

Corn thrown into a well-bred pig is cash. The hog is a patented machine, fully capable of taking care of all the raw material set before it. It is selfregulating, and self-oiling, never gives out and is perfectly reliable. The ma-chine can take ten bushels of corn and put them into the room that the bushel will require. Take a good hog and fill him with corn and fatten him. Seven pounds of corn will make one pound of fat, and that pound worth many times seven pounds of corn. The hog is a condenser of freight rates. Ship him to England and the freight on him would be much less than on the corn it took to fatten him, and he will bring several

#### Farm Notes.

N. J. SHEPHERD, ELDON, MO.

Young and growing animals are the most prolific.

Unless manure is under shelter, the sooner it is spread upon the fields the better.

No class of grains will bear pasturing closer than rye. The best method of making the farm

profitable is to make it productive. The good farm horse is of medium size, well muscled, active, and of a good

disposition. It is not what is eaten, but what is digested that furnishes the strength and

muscle. Most farmers can raise young colts

and develop them into mature and thor oughly broken horses. Send the corn to market by way of

the fat hog or steer.
In the management of pastures suffi-



In Olden Days

men were broken on the wheel, now they buy

Electric Steel Wheels,
and save money. They fit any
wagon. Made with either staggered or straight spokes. Let us
tell you how to make a low down
wagon with any size wheel, any
width tire. Catalog tells. It's free. Electric Wheel Co., Box 48, Quincy, M.

to protect the roots from the action of frost and the scorching sun rays.

The advantage of soaking or grinding grain is that it is more easily masti-

Give the stock all the salt they will eat before turning them into the stalk fields, and all the day plenty of water. It is very essential that calves dropped in the fall should have a warm shelter during the winter.

Cleanliness is a specific preventive of many diseases to which animals on the farm are liable.

Oats contain the greater proportion of flesh-forming elements, and corn the greater proportion of fat-forming elements.

During the winter is a good time to clear up the old fence rows, and corners that have been allowed to grow up in veeds.

Three table spoonfuls of sweet spirits of niter and laudanum in a pint of hot water is one of the best remedies for colic in a horse.

Growing animals especially like a variety and do better thus than to be fed on one kind of grain.

It is very essential to milk clean, as retention of milk in the udder injures it and tends to decrease the yield.

Manure adds to the productiveness of the land as soon as it is applied, but all the substance is not used up in one season.

The time to shape the heads of trees is while they are young. Then the tops can be easily trained in almost any shape desired.

In profitable farming the farm products must be put in form in which they will command the most money and yet leave the farm in the most productive condition.

In a Missouri town there are two John Smiths; one is long and thin, and the other is short and stout. Until lately they have been very friendly, but now they are foes. It appears that a greengoods letter came to town, addressed to John Smith, and was delivered to the fat John. After reading it, he sent it to the thin John, with the words "Opened by mistake," written on the envelope. Then the thin John walloped the fat John for the supposed insult.

TO CURE A COLD IN ONE DAY Take Laxative Bromo Quinine Tablets. All druggists refund the money if it falls to cure. E. W. Grove's signature is on each box. 25 cts.

#### KANSAS FARMER'S NEW WALL AT-LAS.

The Kansas Farmer has arranged with the leading publisher of maps and atlases to prepare especially for us a New Wall Atlas, showing colored reference maps of Kansas, Oklahoma, Indian Territory, the United States, and the world, with the census of 1900. The size of the New Wall Atlas is 22 by 28 inches and it is decorated on the outer cover with a handsome design composed of the flags of all nations.

Tables showing products of the United States and the world, with their val-ues, the growth of our country for the last three decades, and a complete map of the greater United States are given. This is an excellent educational work and should be in every home. The retail price of this New Wall Atlas is \$1.

Every one of our old subscribers who will send us \$1 for two new trial subscriptions for one year will receive as a resent a copy of this splendid Nev Wall Atlas postpaid, free.

Any one not now a subscriber who will send us 50 cents at once will receive the KANSAS FARMER for five months and will be given a copy of our New Wall Atlas free and postpaid.

Wouldn't you like one of those dollar magazines like Munsey's, McClure's, Everybody's or the Cosmopolitan for the next year? Send us \$1.75 and we will send the Kansas Farmer and your choice of them.

### The Nickel Plate Road

will afford its patrons an opportunity to take advantage of low rates for Christmas and New Year holidays, by selling tickets at a fare and a third for the round trip to all points on their line, December 24, 25, 31, 1902, and January 1, 1903. Return limit including January 2, 1903. Through service to New York City, Boston, and other Eastern points. Chicago passenger station, Harrison Street and Fifth Avenue. For further information address John Y. Calahan, General Agent, 113 Adams St., Chicago. (66)

### One Step Nearer Cost Our New General Catalogue No. 71 brings our 2,000,000 customers nearer than they have ever been before to the actual manufacturing cost of everything they eat, wear or use. Our Catalogue costs us nearly a dollar each We buy in largest quantities for spot cash, besides having many factories of our own, and sell direct to our customers, saving them the profits of the jobber, wholesaler and retailer that's the secret. to print and forward. We charge 15 cents for it to prevent a wasteful distribution to people who would not use it. You can save ten times 15 cts. on your first order. CHRISTMAS BUYING has already begun. Retailers are advancing their prices for the holiday trade. Our prices are never advanced, our goods are of the very latest style and best quality, and our customers save one-fourth to one-half on the orders they send us. Our catalogue pictures and describes different grades of anything you want, to suit all tastes **AVOID DISAPPOINTMENT** Send for Catalogue TODAY and get ahead of the Christmas rush. Montgomery Ward & Co., Chicago. Enclosed find 15 cents, for which please send me Catalogue No. 71. and purses. Every article we offer is reliable, and you can have your money back willingly and cheerfully if you are not satisfied. Hadn't you better send for our Write very plain. catalogue today? Fill out the slip to the left and send to us with 15c and the catalogue is yours. Montgomery Ward & Co., Chicago

## Agricultural Matters.

Notes on Alfalfa.

EDITOR KANSAS FARMER:-The alfalfa yield reported in the FARMER of a few issues back is explained as follows: The amount of hay harvested from eight acres was seventy-two loads in four cut-The first cutting was twentyeigh loads harvested from the 19th to the 31st of May, and thoroughly drenched with several rains. The second cutting, July 1 to 4, was seventeen loads, well cured and harvested without rain. The third cutting, July 30 to August 1, was ten loads, well cured and stacked without rain. The fourth cutting, September 1 to 4, was seventeen loads, not completely cured, but stacked without rain. In addition three acres was mown October 16 and put into the mow October 18, yielding three and onemow October 18, yielding three and one-

In considering the yield per acre of hay in the absence of scales, we have the ever-present element of uncertainty in farm operations. I believe, however, the hay weighed on an average a ton to the load as it went into the stack.

The hay was cured largely in the winrows by turning it back and forth with a horse rake.

The first cutting was thoroughly wet before it was wilted, and following this was repeatedly wet and aired during a ten-days spell, after which it was stacked with the leaves intact and the color me-The stack settled very low but did not heat much. The second and third cuttings were cured in the wind and sun. The hay did not settle so much and is in good shape. The fourth cutting was not thoroughly cured, owing to the humid condition of the atmosphere. It handled gummy and heavy, heated considerably in the stack, but at present is in good shape as far into the stack as one can reach.

Wind and intermittent turning cures the best hay. Horse power airs it cheaply and effectively, and in these days of scarcity of labor, horses must load it and haul it away.

However well stacked too much hay is wasted. It should be housed.

This yield of hay narrated above is due to the soil formation on which it traces of the timber growth that has occupied the ground. The subsoil is a loamy clay underlaid, at a depth of twenty-three feet, with a bed of gravel

This soil will yield good paying crops of grain. But what other crop will yield in the aggregate what is here recorded for alfalfa, be it seven or nine tons to the acre?

At present the cattle are grazing the sixth growth of alfalfa following the five cuttings of hay, and we find but little danger from bloat.

If hogs are shifted year for year, they do not injure the growth except such plants as they dig out. In the fall of the year breeding hogs crave the roots and if unrung will root them out inquantities.

On subsoil, we find a spring seeding of fifteen to twenty pounds of seed to the acre on growing wheat quite satisfactory. Three acres of the above eight

were seeded in this manner on the 12th of April, 1900, the seed was sown. In June thirty bushels of wheat with heavy straw were harvested, and September 1 two and one-half loads of stubble and hay to the acre were stacked. Alfalfa hay is essential in fattening cattle economically.

The hay is a great conditioner for for stock and breeding cattle.

The fifth cutting is cleaned up greedily by stock and breeding hogs. However, I experienced trouble last winter with sows that were eating the hay. Farm horses do well on the hay with corn, but fall off on the hay with wheat.

It does not produce bloat as with cattle. Milch cows pastured on alfalfa during the summer must have corn to do well. Alfalfa pasture is usually overrated for hogs. They require corn to make the best gains. They will devour the hay greedily while running on the green pasture

Nothing except horses that have been highly grained are satisfied on the green grass alone. The ration is altogether onesided.

A man would not be satisfied on an exclusive diet of eggs. The two rations are much alike.

The farmer who is toiling onward and upward without alfalfa should mend his ways. If your soil will not grow this crop profitably, get soil that will; for Farmer Smith is quite right when he

says:
"Alfalfa! the first thing up in the spring morning, the last to go to rest in the winter evening. Oh! alfalfa, thou art the whole thing!"

WALTER J. BURTIS. Fredonia, Wilson County.

Princely Farming in Illinois.

The farms of the Funk family are among the largest in the State of Illiamong the largest in the State of Illinois. There are eight of them, and in the aggregate they cover 48 square miles of territory. All this land belonged originally to one family. In that family were seven sons and one daughter. The daughter married L. H. Kerrick well known as a year successful. grows. Two years ago large partially decayed walnut stumps were pulled farmer and stock breeder. In time the from the alfalfa sod, removing the last one immense farm of 48 square miles was divided up into eight, approximately equal, though the eldest son was given 1,000 acres extra by the heirs out of consideration for his hard work for the estate while the other children were yet small. At the present time these farms each comprise between 3,000 and 4,000 acres. This means about six square miles on the average for each farm. When eight of these farms are in one group they form almost a principality. The present owners of these farms are sturdy men of sterling character, looked up to by those with whom they come in contact. Some of them have been well known in public capacities of various kinds for a generation. One of them, Lafayette Funk, served on the Illinois State board of agriculture for many years, and, after a short rest, has been again made a member of the board. Mr. Kerrick is one of the trustees of cattle. For the most part they roamed Wesleyan University, and has just been at will over the blue grass pastures. It

nois. He has made his record as a farmer, as a stock-feeder, as a stockbreeder, and best of all, as a man.

Over 100 persons in attendance at the recent Illinois Stock Breeders' Convention at Bloomington, accepted the invitation of the Funk Brothers to visit their farms. A special train was ready at the Bloomington depot at 8:30 a. m. A run of several miles brought them to the first of the Funk farms. This is owned by J. Dwight Funk, a man about 24 years of age, graduate of a noted university. The guests were taken in carriages, of which there were forty or fifty in waiting, and were started on their journey over the farm. Over the beautiful rolling land they were driven, past the homestead surrounded by trees and shrubbery and into an immense field of Boone county white corn. This was of Boone county white corn. This was one of the test plots. Each row had been planted with a single ear of corn, to test the individuality and the prepotency of the ears. This difference was found to be very great. One row yielded at the rate of 47 bushels per acre, and another row at the rate of 132 bushels per acre. This was a revelation; no one would have suggested that the no one would have suspected that two ears looking alike and of the same size would have had such difference in potency. It shows how much depends on the seed. We have believed that a bushel of corn, if its germinating power had not been impaired, was as good as any other bushel of corn, but this test seems to show that the prepotency of corn (its power to reproduce like) is a thing that must be considered. The farmers that take this lesson to heart will no longer shovel the seed out of their bins. They will wisely use good selected seed. It is cheaper to pay \$2 per bushel for seed that will yield 132 bushels to the acre than to get for nothing seed that will yield 47 bushels per

One of the ways of illustrating the differing yields was by having the crops from certain adjacent rows stored in crates by themselves and piled one above the other. Thus in one case a row had yielded three crates of corn while an adjacent row had yielded six crates. These were grown from apparently identical seed, on the same kind of soil, and under like conditions. The ob-

jeot lesson was a very striking one. On the farm of Eugene Funk the visittaken into an immense field of alfalfa and the carriages were bunched in the middle of it. A part of the alfalfa that had been passed over was light in stand and apparently poor in vitality. The place in which the carriages were brought to a standstill was covered with a thrifty growth of the plants. The difference was explained as resulting from the inoculating of the soil with soil brought from alfalfa fields where the nodule bacteria were known to be at work. It was thus demonstrated to the visitors that the soil needs to be inoculated with these bacteria. The failure of many fields of alfalfa in Illinois is attributed to this lack of bacteria suited to development on the roots of the alfalfa.

One of the treats of the day was a sight of the live stock on the farm of L. H. Kerrick. Here was seen at pasture and in the feeding lots 535 Angus

very tame. As the procession of carriages approached, the animals, instead of running away, showed a keen interest in their visitors. Some of the younger animals acted like boys watching an incoming circus. They stopped feeding picked up their ears, bellowed to each other and trotted up to get a closer view of the procession. Some of them trotted of the procession. Some of them trotted up to get a closer view of the procession. Some of them trotted along with the visitors as far as the men on horseback would allow. Not an animal displayed sign of fear. This shows the excellent methods in vogue on the farm of Mr. Kerrick. Mr. Kerrick permits no swearing nor rough methods in the men that take care of his cattle. The great that take care of his cattle. The great glossy black "doddles" were as tame as kittens. They seemed to enjoy being looked at. Many of the visitors got out of the carriages and handled and stroked their black bodies. Mr. Kerrick has a bunch of blacks that he is extended has a bunch of blacks that he is fitting for the International. Before coming to the field in which those animals were being fed the visitors were requested by the horsemen not to get out of their carriages, as it might excite the animals, and they would not get over that excitement for two weeks. As they were on high feed and preparing for the In-ternational any excitement would mean derangement of appetite and that would mean ceasing to gain in weight and plumpness. Yet when the bunch was reached the animals of their own will stopped feeding and seemed to be anxious as any others had to entertain their visitors.

At another field the visitors were sep-At another field the visitors were separated from a lot of feeding cattle by a fence. On the approach of the carriages, the animals stopped feeding, walked to the fence and ranged themselves along it, gazing at the passers with their large gentle eyes, and pricking forward their ears to catch every sound. A guest laughingly remarked, "We are their live stock show."

On one of the farms is a most perfect

On one of the farms is a most perfect arrangement for the storing and drying arrangement for the storing and drying of seed corn. It is a building constructed for that purpose. Cracks a foot apart were left in the floor, and these extend the length of the building. This is to permit the air to pass upward through the floor, through the racks of corn and the floor, through the racks of corn and out of the ventilators at the top of the barn. The owner said his building would hold 3,000 bushels of seed corn when all racks were filled. The work of putting in the selected seed corn had just begun, but when it is finished almost the entire interior will be full of corn racks and corn. Mr. Frank Funk said that motionless air would never dry corn. To do that the air must be in motion, and this storehouse was built to attain that end.

The Funks will feed, this year, a great deal more corn than they will sell for seed. Some of their fields will go over 100 bushels of corn to the acre. But the selection of seed corn is to be made under most exacting rules. From some of these acres not more than five or ten bushels of corn will be chosen for seed. The rest will be fed to cattle. And here lies the advantage of feeding cattle and raising seed corn. There will be a ready market for all the corn rejected as seed. Moreover, there will thus be no temptation to sell for seed, corn that should be fed to cattle. In elected trustee of the University of Illi- was remarked that the animals were connection with the seed storage houses

was given the advice not to buy seed corn shelled, as it is impossible with such seed corn to know the kind of ear from which the seed comes. Farmers will do well, no matter where they get their seed, to buy it on the ear, thus making sure that they do not get seed from "nubbins" and very imperfect ears.

The drive over the farms extended for twelve miles and lasted five hours. Several of the farms were not visited for lack of time. The carriage journey came to an end at the main warehouse, where a lunch had been spread. The meat for this lunch came from one of Mr. Kerrick's Angus steers, he having taken one to Bloomington and had it slaughtered for the occasion. After the lunch speeches were in order. The guests were so enthusiastic at what they had seen that some time was spent in speechmaking and in favorable comments on the work being done by the Funk brothers. Professor Henry compared the work being inaugurated here as similar to the work that had been carried on for 200 years by the Valmorin family of France, which has resulted in so greatly improving the sugar beet. He predicted that what the Valmorins had done with the sugar beet the Funks would do with corn.

From the warehouse a special train took the guests to the city. All were well pleased with their trip. It is confidently expected that the breeding of indently expected that the breeding of the corn plant by the Funk brothers and others will assume great propor-tions. The credit for the inaugurating of this work lies with the University of Illinois, and principally with Professor Hopkins. That gentleman was one of the guests and received much praise from the Funk brothers and others for from the Funk brothers and others for the good work he had done.

Methods of Cultivating Corn. PROF. A. D. SHAMEL, ILLINOIS EXPERIMENT STATION.

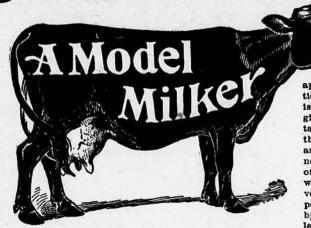
A test of a few of the different methods of cultivation in use at present resulted as follows:

Bu. per acre inches deep cultivation, small shovels... six inches deep cultivation, small

The conclusions from this experiment were that the weeds must be destroyed at any cost. A loose mulch, made by stirring the surface of the soil, was very important in a dry season. Injury to the roots by deep cultivation reduced the yield per acre. To demonstrate the effect of root injury an experiment was carried on for three years with the pruning or cutting off the roots of the corn plants. The roots were cut off at different depths in different rows, about six inches from the hill (on all sides of the hill) three times during the season. The entire field was cultivated with a weeder in order that the cultivation would not interfere with the experiment. One row was pruned and one row not pruned throughout the field alternately, so that a close and accurate comparison might he made of the effects of root injury. The results of an average of the three years work are as follows:

Bu. per acre 

At the past winter's farmers' institutes the question was frequently asked: "Would deep early cultivation injure the plant?" A young plant taken surface soil is a help rather than an injury to the field was frequently asked: "Would deep early cultivation injure the plant?" A young plant taken surface soil is a help rather than an injury to the field was a standard to the ways present, but the loosening of the surface soil is a help rather than an injury twenty-one days after planting had the root system washed out. At this time the roots spread from one side of the row to the other room the room to the surface soil is a help rather than an injury to the field, unless the alfalfa plants are very young. The mole is almost entirely insectivorous and destroys the room to the surface soil is a help rather than an injury to the field, unless the alfalfa plants are very young. the row to the other near the surface of the soil. The root development of the mature plant similarly washed out shows that there is a perfect network of roots in the surface soil. In fact, these surface roots largely supply the plants with the plant food from the soil. The deep roots anchor the plants and hold them in an upright position. Deep cul-



Proper feeding will improve any milch cow, and will often make a model milker of an unprofitable cow. The greater part of a cow's feed goes to keep the physical condition of the animal to a proper standard; food assimilated above these requirements brings returns in milk. The greater the ability of a cow to

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their conditions. However, in Illinois the majority of farmers will get better results from shallow and frequent cultivation. If the seed bed has been properly handled, disked, plowed, harrowed, and planted, there will be few weeds to eradicate in the field. It will not be necessary under these circumstances to cultivate deep. The shellow cultivation cultivate deep. The shallow cultivation, stirring the surface, will destroy the small weeds and conserve soil moisture, the two principle objects of corn cultivation.

#### Moles.

A correspondent sent to the Kansas FARMER the following inquiry:

'Do you know of any way to success fully destroy the moles that are so destructive to alfalfa fields? I have been trying to trap them, but have had no success whatever. Please inform me what is the best way to exterminate them.

This inquiry was sent to Prof. D. E. Lantz, of the Kansas Experiment Station in the hope that an answer might be received in time for last week's pa-per. The reply did not arrive in time, however, and the editor answered the inquiry. After last week's FARMER had gone to press, the following was re-ceived from Professor Lantz. It agrees in all essential points with the answer given last week. Professor Lantz says:

"Your correspondent is probably mis-taken in the name of the animal. It is, without doubt, the pocket gopher that is doing the mischief. We have some complaint of damage by the mole in lawns and meadows. This animal heaves up the sod by burrowing near the surface in lawns; and in dry weather the lossened grass withers and dies. In the cornfield the runways of the mole furnish convenient shelter for mice. In the alfalfa fields, the mole is nearly allarge numbers of larvae that are destructive to growing crops. Efforts to poison the mole have not been very successful because suitable bait is difficult to find. Aside from the injury to lawns, it does no damage that is not fully compensated by its destruction of insects. For the best means for combatting the pocket gopher, Press Bulletin No. 109,

rows twenty inches apart. The crop is usually cultivated about three times with a one-horse cultivator, and little or no hand work is required. The yield is from twenty-five to thirty bushels per acre and is ready to pasture the latter part of August.

Four or five acres of artichokes are raised each year and furnish a splendid food for the hogs through the fall and winter months. The hogs do their own harvesting and are benefited by the exercise required to root out the artichokes.

The fourth year corn is rised following the soy-beans. It is not surprising to find in these fields, which have grown several successive leguminous crops and been pastured summer and winter with hundreds of hogs, corn of the highest type and quality yielding seventy to ninety-five bushels per acre. A pure-A purebred variety of corn is raised.

### Experience With Alfalfa.

EDITOR KANSAS FARMER:-In the fall of 1901 I sowed about seven and a half acres of alfalfa. The ground was plowed in July and harrowed a number of times. I sowed the seed about September 15. It came up and made what I thought was a pretty good stand. But the dry, hard freeze in December killed it. This spring I double disked it and harrowed and sowed to seed on May 1. The seed came and up and made a good stand. I mowed the weeds and alfalfa when the alfalfa was about six or seven inches high. Then I raked and hauled it off the field. In the latter part of July it was cut again, cured, and stacked, being a little more alfalfa than weeds. It was cut again between October 8 and 12, it being about twelve to fourteen inches high and almost free from weeds. I averaged a ton per acre. G. W. STAATZ.

Woodbine, Dickinson County.

### Imports or Sugar.

The imports of sugar into the United keep up the price.
States from foreign countries for thenine months ending September 30, were 1, 425,000 short tons, as against 1,517,000 short tons the same date the year before. The import value of this sugar per short ton was \$32.36 [or \$1.12 per 100 pounds] for the year ending September 30, 1902, against \$44.16 at the same date the year before.

Of these sugars 769,000 short tons

they would eat 15,000 insects a day. At this rate, with two or three coveys on each farm, it would not take long to rid the fields of the insects and insure us a good crop af grain, says Isaac W. Brown, of Rochester, Ind.

The total value of the farm products of the United States in 1900 was \$3,764,-177,706, of which \$835,858,123 shipped to foreign lands. In 1880 the product of our farms were valued at \$2,212,440,927, and we exported in that year \$685,961,091 worth of farm products. In the meantime the output has increased by \$1,551,636,779, while our exports of farm products have been enlarged only \$149,897,032.

If it takes twenty bushels of corn to the acre to pay the expenses of raising a crop and we raise but twenty bushels per acre, we are not making any profit. But every bushel we raise above the twenty bushels per acre is that much more to be added to the profit side of the account. And there is where the farmer must do his best thinking and use his best efforts to increase his crop yield, above and beyond the point of expense.

It is easily seen, says "Uncle John," that the twentieth century farmer, the farmer who shall meet the demands of these progressive times, and do his part in the work of increasing the acres by increasing their production (and that is the problem before us), must have eyes and ears as well as feet and hands, nerve and brain, as well as pluck and muscle,—a cultivated mind as well as cultivated hands.

The prospect is that the corn crop will be sent to market much less rapidly than usual. The empty cribs, the shortage of cars, the tendency to hold back the crop, and the growing disposition of farmers to feed instead of selling the grain will likely act as a lever to

An idea written with but a single drop of ink may make you rich. You get many ideas in the Kansas Farmer.

Mohammedans do not wear silk. As it is the product of a worm, they consider it unclean.

#### \$100 Reward \$100

them in an upright position. Deep cultivation would doubtless cut off and destroy many of these important roots. I have seen men pull out bunches of corn roots from the cultivator shank at the end of the row. The amount of damage from such injury will vary with the season. In a dry season the injury will be very great. In a wet season it will be less because the remaining roots will be able to supply the necessary moisture for plant growth.

Some of the letters indicate that the writers have secured better results with deep cultivation than shallow cultivation. If this is the case then it is the best system for them to follow under the first of the Kansas Experiment Station, gives our for the Kansas Experiment Station, gives our the found to more and that is Catarrh. Hall's Catarrh Cure is the only positive quail we would not have to spray our orchards when they are in bloom in orthards when they are in bloom in orthards would eat and drive away the insects. From observation I have learned that a quail we would not have to spray our orchards when

## The Stock Interest.

#### THOROUGHBRED STOCK SALES.

Dates claimed only for sales which are advertised or are to be advertised in this paper.

or are to be advertised in this paper.

December 39, 1902—J. E. Logan and Benton Gabbert & Sons, Kansas City, Mo., Herefords.

December 18, 1903—Gifford Bros., Manhattan, Kans., Shorthorns.

December 19, 1902—Hanna & Co., Howard, Kans., Percheron horses, at Kansas City.

January 13, 1903—L. B. & A. M. Thompson, Nashua, Mo., Galloways, at Kansas City.

January 12-17, 1903—C. W. Armour and Jas. A. Funkhouser. Herefords, at Kansas City, Mo.

January 22 and 23, 1903—Combination sale pure bred Hereford cattle at South Omaha. W. M. Rogers, McCOOA, Neb.

no spots or horns, which is a big item. They are easy feeders, have good disposition, and as to size, they will weigh with any of the breeds. I have a calf which at 5 months old weighed 535 pounds, and have seen them at a year old weigh 1,235 pounds. They are low-down and blocky. I have been a Kansas farmer for twenty-two years, and have experienced some of the ups and downs of a farmer's life, and find that dairying and stock-raising pays better than raising grain for the market.

CHARLES MORRISON. Phillipsburg, Phillips County.

January 22 and 23, 1903—Combination sale pure bred Hereford cattle at South Omaha. W. M. Rogers, McCook, Neb.

January 23, 1903—Breeders' State Combination Berkshire Sale, Topeka.

January 25, 299, 1903—C. A. Jamison, Peoria, Ill., Shorthorns, at Chicago.

February 3, 4, and 5, 1903—Combination Sale, Wichitas, Kans., Percherons, Shorthorns, and Poland-Chinass. J. W. & J. C. Robison, Snyder Bros., and others.

February 5 1903—Thompson Bros.' sale of Poland-Chinas bred sows and gilts, at Marysville, Kans.

February 10, 11 and 12, 1903—J. F. Stodder, George Bothwell and others, Shorthorns; also C. A. Stannard and others, Herfords; Okiahoma City, Okiahoma.

February 17, 1903—Geo. F. Kellerman, Shorthorns Kansas City, Mo.

February 20, 1903—S. S. Spangler, Milan, Mo., Percheron horses.

March 3 1903—L. M. Monsees & Son, Smithton, Mo., Isaks, Jennets, saddle horses and Poland-China swine.

March 3 1903—L. M. Monsees & Son, Smithton, Mo., Isaks, Jennets, saddle horses and Poland-China swine.

March 3 1903—L. M. Garner and M. A. Judy, Aberdeen-Angus cattle, Chicago.

pondent of the London Farm and Home gives us some interesting prices in England in the olden times when horse-breeding first began along industrial lines, and prices are now ten times higher than then.

Very interesting is the light thrown upon the manners and customs of our forefathers, their habits, occupation, and style of living and the prices ruling for agricultural produce, by the diaries kept by sundry clergymen, country gentlemen, yeomen, and tradesmen, par-ticulars of which are contained in that most interesting work which has just come in my way, entitled "Glimpses of Our Ancestors in Sussex." The range of these diaries is from 1655, before



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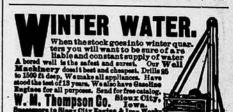


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to bury him in his skin and not to flog him or abuse him in any way.

By a later entry it appears that this old horse did not long enjoy his pension, for he died in the following May and was buried in the saw pit in Laines Wood. His age when he died was supposed to be 35 years. It would have been interesting to know what he cost.



### **MARMOTTE** (44058),

The 2,400-lb. black Percheron stallion imported by M. L. Ayres, Shenandoah, Ia. One hundred registered Percherons in his stables to-day.

#### The Dual-purpose Cow.

EDITOR KANSAS FARMER: -In your issue of November 13, Farmer inquires about what breed to use as dairy cat-tle. As I am a breeder of Red Polled cattle, which he says he prefers, I will try and give him some information about them as dairy cattle. The Red Polled cow, Mayflower 2d, stood second at the Buffalo test of all the breeds. My Red Polled cows give milk within tive to six weeks of calving. They give a good quantity of rich milk. If Farmer will send his name I will send him reports of different milk tests and facts and figures of Red Polls, as it would take up too much space in the Kansas FARMER. I have tried registered Short-horns and Holsteins, and finally settled on Red Polls as the best dual-purpose cattle for the farmer, as they are good for milk and beef. Will quote him a few lines from V. T. Hill's catalogue: "When you find a cow that gives 7,000 pounds of milk, which makes over 300 pounds of butter in twelve months or less, we consider her a good dairy cow. When we find a cow that produces a calf, that having been made a steer, weighs over 700 pounds when 9 months old, we call that cow a beef-producer. When we find these results combined in the same individual what shall we call her but a dual-purpose cow?"

I have been breeding Red Polls eight years and find them hardier than the Shorthorns or Holsteins. By using a

and every eight inches put in a parti-tion, nailing secure to board in center and side pieces of the trough. This makes a trough the hogs can not get into and every hog must eat in his own department. On the top of board in the center you can build a hopper where shelled corn can be put, leaving the space below large enough for the corn to pass through to the trough below. If a cover is placed on this hopper it will keep all kinds of stock from eating the feed in the hopper; also serve as a pro-tection from storm and dirt. This trough has many advantages over any others I have seen or known, and I will mention a few of these: Being made of inch lumber, it is light and convenand a sixteen-foot trough weighs only about forty or fifty pounds, and forty-eight hogs can all feed at the same time out of this kind of a trough. As the hog can not get his feet into this trough, little or no mud or filth is carried into the feed, and the partitions keep the hog in his own department. This is the ideal hog-trough for the farmer, as it is a money-saver and certainly an agreeable surprise to the hog.

### Ancient Prices of Horses.

The progress of horse-breeding throughout the world is well illustrated by comparing the low prices 200 to 250 years ago, and it clearly shows that years and find them hardier than the Shorthorns or Holsteins. By using a Red Polled bull you get a solid red calf, prices continue to advance. A corres-

Again, in 1739, "Bought a black mare for John Stapley to ride; she cost 5 pounds," with saddle and bridle in. In 1740, "Bought a mare of John Daulton for which I gave him 5 pounds." Sometimes, however, a higher figure was reached, or horses got "dear," for in 1741 he "bought a mare of John Linfield, of Dean House, for which I paid to pounds The Stapleys sportsmen, and kept hounds, so that they they doubtless kept good horses, but not much could be got now for the prices mentioned, especially if buyers of yeomanry remounts were in the market. "Paid to William Ashford, for two beagles to make my cry complete, 4 pounds, 15 shillings," suggests that the breeding of dogs was more profitable than the breeding of horses; and "I had a mad dog in my kennels and was obliged to kill all my hounds," indicates that 170 years ago the "stamping out" method of dealing with rabies was in vogue, even if they had no "muzzling order" and no Minister of Agriculture to abuse. Mr. Stapley evidently had some regard for his dumb servants; and did not, as so many "gentlemen" do now, sell them for "what they will fetch" or consign them to the kennels or the Continent. Here is an example, "1735, October 9, James Mathews had my old white horse away, which I gave him to keep with a pair of scissors. See our "Blocks as long as he shall live, and when dead of Two" proposition.

fancy any modern groom being satisfied

with any such sum out of a "deal."

### Cottonseed or Cottonseed-Meal.

There is much difference of opinion and consequent discussion among farmers who grow cotton as to the manner of feeding and relative value of cottonseed-meal. The tendency always is to utilize for feed the products of the farm and this is generally a safe and a desirable practice.

Cottonseed-meal is one of the products resulting from the manufacture of oil from cottonseed. Oil, hulls and linters are the other prod-ucts. The short cotton that sticks to the seed is first removed, then the hull is separated and the resulting hulled seed is ground, heated, and pressed. After all of the oil obtainable by heavy pressure is secured, the cakes from the presses are ground into the product known as cottonseed-meal. It is not cottonseed-meal in the same sense that ground corn is corn meal or ground Kafir-corn is Kafir meal. The cottonseed-meal produced by the oil mills differs greatly from ground cottonseed and this fact should be kept in mind when discussing the uses which may be made of this feed. The only difference between corn and corn-meal is that of digestibility. The chemical composition of each, if from the same lot of corn, is the same. But cottonseed and cottonseed-meal are entirely different in composition. Cottonseed contains, in each hundred pounds, twelve and one-half pounds of protein and nearly sixty-nine pounds of carbohydrates and fat and has a nutritive ratio of 1:5.2. Cottonseedmeal contains, in each hundred pounds, thirty-seven pounds of protein and forty-four pounds of carbohydrates and fat and has a nutritive ratio of 1:1.2. The term, nutritive ratio, means the proportion existing between the protein and the carbohydrates and fat in a feed or ration. For general purposes, the grain ration which is fed should have a nutritive ratio somewhere between one to six and one to

Thus, neither cottonseed nor cot-tonseed-meal is suitable to feed as an exclusive grain ration but should be fed mixed with some grain richer in carbohydrates, such as corn, Kafir-corn, or wheat. If cottonseed is fed, at least an equal amount of one of these other feeds should be mixed with it. Both of the feeds will then be utilized to better advantage than either alone. Cotton-seed-meal should never be fed alone except possibly to stock cattle that have plenty of roughage and are not receiving other grain. In general, cottonseed-meal should be mixed and fed with about three to five times as much corn, Kafir-corn or wheat.

Whether to feed cottonseed or cottonseed-meal depends on market prices of each and of corn, Kafir-corn, wheat. of corn, Kafir-corn, wheat, and rough feed. These prices vary so greatly in different localities that no general statement which will apply in all cases can be made. The tendency appears to be toward feeding cottonseed without inquiring into the possible advantages of selling the seed and buy-ing cottonseed-meal. Pound for pound, when fed in connection with other grains, cottonseed-meal possesses far greater feeding value than cottonseed and can be used to advantage where cottonseed can not.—Oklahoma Experiment Station.

### General Purpose Cattle-Brown Swiss.

EDITOR KANSAS FARMER:-I noticed in last week's issue an inquiry from er, Pomona, Franklin County, for the experience of the farmers of Kansas in dairying, also what he should head his herd with, whether Jersey, Holstein, etc. I have been dairy farming in Kansas for several years. I first tried grade Shorthorns, but they did not give milk Shorthorns are all right for beef but they are a failure as dairy cattle. I then tried Jerseys, and for milk and butter they can not be equalled, but I hardly think it will pay a farmer to keep a cow for milk and butter alone and get no beef. I am now trying Brown Swiss cattle which I find are nearly as good as Jerseys for milk and butter and are also excellent beef cattle. A herd of cows in milking condition will average about 1,400 pounds, and make about 500 pounds of butter per head per year. The Brown Swiss cow Brienz made the highest record at the World's Fair at Chicago, of any cow away from home, giving ten gallons of milk per day for three days, which made thirty-eight pounds of butter.



"Tama Jim," 2,540 Pounds, One of lams' "Wide-as-wagon Kind."

Our illustration is from the "Home of the winners," the largest importing horse establishment of Nebraska; that of Frank Iams, St. Paul, Nebraska. "Tama Jim" 20810 is a 4-year-old home-bred black Percheron, weight 2,540 pounds. Mr. Iams says, "He is the largest well-finished stallion in the United States. He is of the "wide-as-the-wagon kind," with two good ends and a middle; has fourteen inch bone. He is a flash actor, a bold mover and a real cyclone in motion. He is royally bred, being one of 'Iams' select 400.' Is an outstanding winner in any show. Has never been defeated. This horse and his companion are the largest pair of finished up-to-date Percherons owned by one man in the United States. The pair weighs 5,100 pounds and are worth going 1,000 miles to see."

Mr. Iams guarantees them to be as good as the picture if not he will pay your fare to see them. He has many other black Percherons just as well made and finished, weighing 1,600 to 2,500 pounds. He has a number of Belgian horses, bays and blacks, and his flash going coachers are a veritable sensation. Mr. Iams has just imported 63 horses and has on hand 117 head of full blood imported and home bred horses which he is selling at from \$1,000 to \$1,400. Mr. Iams agrees to satisfy buyers of horses as to prices and quality or refund the fare paid to see them.

I think for general purpose cattle, the Brown Swiss is the best breed we have. J. W. Cool.

Columbus, Cherokee County.

#### Staked Plains Shorthorn Sale.

The annual sale of Bates-bred Shorthorn cattle from the Staked Plains herd of B. B. H. T. Groom, of Groom, Carson County, Texas, will be held at the stock yards, Wichita, Kans., on Friday, December 12, 1902. Several sales, the produce of this herd, have been held at Kansas City, and buyers have always had very satisfactory results from such purchases and are sure to be on hand for the Wichita sale.

It is a well known fact that grass alone will not make as quick maturity as when a grain ration is added but in the absence of heavy grain feeding the organs of reproduction are much more vigorous, more hearty and cows more regular breeders. These Staked Plains cattle are money makers for their owners, being great breeders, and we hope to have those attend this sale who want the best blood that has been handled as near nature's way as possible, thus securing strong, vigorous breeding cattle. sible, thus securing strong, vigorous breed-

been handled as near nature's way as possible, thus securing strong, vigorous breeding cattle.

It is this superior blood that has made them the winners of the championship prize for 2 year olds in car lots for the last two years. At the Chicago stock show, the reports coming from females sold from our Staked Plains herd at Groom, Carson County, Texas, has confirmed our assertions that grass grown cattle were more satisfactory breeders than cattle fed heavily on grain or other concentrated feeds. The draft of 70 head, running in age from yearling to 6 year old cows, to be sold at at stock yards at Wichita, Kans., on December 12, have been grown on open grass ranges and will prove to be exceptionally valuable as breeders. They are rich reds, with a few red and white and roan. They are from old established families and trace back through lines of the best Bates blood to the oldest and most successful American herds. They come under the hammer in thrifty condition but not fat, having been fed but little grain and that only since being haltered up preparing for the sale of December 12. This will afford an opportunity of securing some of the best Bates blood in the country, blood that has given any other strain of Shorthorns.

### Sales of Pure-bred Cattle for 1901.

The total number of Shorthorn cattle sold during the year 1901 was 4,045, bring ng an average price of \$280.91, or a grand total sum of \$1,136,290.95. The highest price paid for a bull of this breed was \$5,100 for Imported Lord Banff. The imported cow, Missie 153d, sold for \$6,000, being the highest prices realized for individual animals of any of the breeds of cattle, as well as the best average price. The Herefords came next in point of numbers sold, there being 1,888; they also came next in point of price for an individual of the breed, the cow Dolly 2d selling for \$5,000; but their general average was only \$240.80. There was only \$94 Angus cattle sold, at an average of \$277.43, and the highest priced individual of this breed was the cow Imported Krivinia at \$1,700. The average price for Red Polls cold was \$230.50; Polled Durhams,

\$215.56; Galloways, \$207.57. The highest price paid for a Galloway was \$2,000 for imported McDougall. The highest priced Polled Durham and Red Poll was each \$1,005; leaving the Shorthorns still in the lead in point of numbers sold, average price and highest price.

#### Joe Young's Sale of Poland-Chinas.

24. H. W. Turney.
25. A. E. Schooley.
27. Harry Evans, Pleasanton,
Kans 44. M. L. Fullenwider, Eldorado,
Kans.
45. E. E. Axline.
46. Jas. Mains...
47. E. E. Axline...
48. A. E. Schooley...
49. H. W. Turney...
50. T. N. Langan & Co...
51. Dietrich & Spaulding...
52. Ross Bros., Otterville, Mo...
53. J. C. Patterson, Marshall, Mo...

#### Gossip About Stock.

On Monday, Dec. 22, 1902, the entire herd of thoroughbred Hereford cattle belonging to the estate of Geo. A. Carpenter will be sold at the farm of Mr. J. A. Carpenter near Carbondale, Kans. The herd consists of torty cows, seven bulls, and twenty-three calves, all registered and in fine condition for breeding. Mr. Carpenter was a well known breeder and there will be some very choice animals offered at this sale. The advertisement will appear next week.

The combination sale of Shorthorns by F. M. Marshall, of Blackwater, Mo., S. W. Roberts, of Pleasant Green, Mo., and W. P. Harned, of Vermont, Mo., at Kansas City, last Friday and Saturday was not well attended and consequently the prices realized were below the values of the offerings. The large numbers of calves sold brought the average down. Following is a summary:

11 bulls brought.....\$1,235 av...\$112.27

74 females brought.....\$455 av...\$9.92

see 85 head brought...... 8,485 av.... 99.92
to
Geo. W. Berry, manager of Spring Brook Farm, North Topeka, writes us Mr. as follows: "We have sold the Berkto shire boar, Berryton Duke, to James Qurollo, of Independence, Mo., who, after attending the American Royal Swine Show and seeing a number of other herds, visited us. After inspecting Berryton Duke, he unhesitatingly pronounced him the best young boar he had seen. Mr. Qurollo is an experienced breeder, and it will be remembered it was he who developed and brought out the noted King Lee 2d. Berryton Duke was got by our herd boar, Black Ropinhood, and out of Duchess 221st. It is in shortness and dish of head with the finest of ears he excels, with great length and evenness of body, standing low down on neat, strong legs and feet. In the transfer of Berryton Duke Kansas loses one of the most promising Berkshire pigs ever bred in the State while Missouri is the gainer. However, before leaving Spring Brook Farm, he will be put in service to some of the choice gilts."

Dietrich & Spaulding, with W. S. Hanna, will hold a Poland-China brood sow sale



at Ottawa, Kans., on December 19. Watch for the advertisement in next week's Kan-sas Farmer.

The W. E. Robinson sale of Shorthorns at South Omaha proved fairly successful in spite of the fact that the owner lost 13 head in shipping. The remaining 52 head brought \$5,790; average, \$111.34. Forty-three females averaged \$115.41, and nine bulls averaged \$92.22.

On November 19, L. C. Hodgson, Luverne, Minn., closed out his herd of Percherons to good advantage. The offering consisted of eighteen females which sold for \$5,565; average \$309, and five stallions which brought \$2,695, average \$538. The general average for the twenty-three head was \$360.

At West Liberty, Iowa, S. H. Thompson's Sons, of Iowa City, and Cookson Bros., of West Branch, sold forty-two head of Scotch Shorthorns for \$12,025, or an average of \$286.31. Of this number thirty-three were females which brought an average price of 285.45, while the nine bulls averaged \$287.11.

We have received an order for advertising Ridgway's New Scientific Discovery for immuning hogs against cholera and insuring that pigs will be born cholera proof. This process has stood the test of experiment and has the endorsement of many experienced swine breeders. Full information will be sent by Mr. Ridgway on request.

Oak Grove Herd of Poland-China swine offers for sale some of its finest animals. Gus. Aaron, the proprietor, has given many years of careful breeding to bring his herd up to its present excellent condition. Write him for descriptions and prices of his stock, or call on him and see his herd. Direct all letters to him at Leavenworth, Kans., Rural Free Delivery No. 5.

The Shorthorn sale of Thos. Anderson & Son, Cambridge, Neb., on November 11, resulted in a general average of \$155.90 on the nineteen head of cattle sold. The Clydesdale horses offered at the same time averaged about \$300 for the eight head sold. The top of the horse sale was brought by the 2-year-old stallion, Prince of Cambridge, who went for \$700.

At a sale held at the Oberfelder ranch at Lodge Pole, Neb., on November 11, Amos Mecker, of Lewellyn, Neb., purchased the celebrated Poland-China boar, Bob Baxter, for \$500. This is the highest price ever paid in Western Nebraska for a male pig. At the same sale, Walter Clark, of Lewellyn, bought the well-known Poland-China boar, General Price, paying \$250.

Purdy Bros., Harris, Mo., held a sale of Shorthorn cattle from their famous herd on November 13 at their home town. Everything considered the sale was a great success. Cows bred to their great herd bull, Lord Loyell, were in great demand. The results of the sale are shown in the following summary:

35 females sold for \$4,335; average...\$123.57

14 bulls sold for... 1,335; average... \$1.55

49 animals sold for. 5,670; average... 115.71

Shorthorns at Allertown, Iowa, sale, held by J. W. Smith & Son, resulted in the disposal of fifty-seven head for \$28,780, an average of \$504.04. The top of the sale was brought by the 4-year-old Scotch cow, Missie May 2d, who brought \$2,000, and went to Brown, Randolph, Igo, of Indianola, Iowa. The top of the bull sale was \$550, paid for Royal Dudding 177892. About 1,500 people were present and the bidding was spirited,

H. G. McMillan's fourth annual sale of Percheron horses at Rock Rapids, Iowa, on November 20, was a good one. Much of the offering was quite young and consisted of twenty-one stallions and twenty-one mares, which aggregated \$18,880, or an average of \$449,50. The stallions averaged \$630.70 and the mares \$267.40. Henry Avery & Son, Wakefield, Kans., were the purchasers of Illustre 20489 and Banshee 28947 at good, long prices.

R. J. Stone, Stonington, Ill., the greatest winner of any Oxford breeder in American, failed to get elected county treasurer at the last election on the Republican ticket, but he made a mighty fine race record. In a recent letter he says: "I have been in the sheep business twenty-seven years, and I have sold more sheep this fall than ever before up to this time. Am getting ready to ship to the International Live Stock Exposition. Come and see the best it."

Over on page 1197 will be found an advertisement of W. E. Mason's dispersion sale of Duroc-Jerseys. A change of residence makes this sale necessary, and any man who admires this breed of swine should see to it that he is present with his check book. This will be a chance for young farmers who wish to become breeders of this remarkably prolific breed of hogs. We venture the assertion that no such sale as this will occur again in the immediate future and we predict a big crowd at Haddam on the day of the sale. Write to W. E. Mason, Haddam, Kans., for a catalogue. Better yet, get on the train and go there.

The South Omaha Hereford sale which was held on November 15, was fairly good although no regular breeders were present who were buying. The small breeders and the farmers had it all their own way. The cattle were contributed by the Stanton Breeding Farm Co., of Madison, Neb.; Minier Bros., Craig, Neb.; W. W. Wheeler, Harlan Jowa; B. & W. George, Aurora, Ill. Summary:

Summary: 40 cows brought \$5,500; average.....\$148.00 7 bulls brought 1,126; average.....100.71 47 head brought \$7,045; average......\$149.79

"Kine" is a familiar word. Makes one think of cattle at once. It ought to be for "Kine" is said to be a sure preventive and cure for the so-called corn-stalk disease, a real and dangerous disease to which all cattle are subject. It is well some times

# HAVE YOU SEEN YOUR NEIGH-BOR'S NEW SEWING MA-CHINE?

A number of finest Five-Drawer, Drop Head Cabinet Sewing Machines have recently been shipped to families in every town in the United States on three months free trial. The prices are \$8.95, \$10.45, \$11.95, and \$12.85, according to make and style of machine.

free trial. The prices are \$8.95, \$10.49, \$11.30, and \$12.85, according to make and style of machine.

If you will mention the name of this paper, cut this notice out and mail to us, no matter where you live, what State, city, town, or country, we will immediately write you, giving you the names of a number of people in your neighborhood who are using our machines, so you can see and examine them and convince yourself there are no better machines made at any price. We will also mail you, free, our new special sewing machine catalogue, showing handsome illustrations, descriptions and prices of an immense line of machines at \$5 to \$12.85, special three months free trial offer and most liberal sewing machine proposition ever heard of.

A sewing machine trust is said to be forming for the purpose of cutting off our supply and if accomplished you will no doubt be compelled to pay \$25 to \$40 for machines we can now furnish you at \$8.95 to \$15.20. Our stock is now complete and for catalogue, all offers and particulars you should cut this notice out and mail to us to-day. Sears, Roebuck & Co., Chicago.

to be conservative but you can carry it too far occasionally. E. E. Bruce & Co., proprietors of "Kine," are one of the most reliable firms in the country and a letter to them will bring their personal statement regarding "Kine" as a cure for cornstalk disease. They say it will cure. In view of the dangerous character of this disease, it would be good policy to write them at once. Address E. E. Bruce& Co., Omaha, Neb.

Address E. E. Bruce& Co., Omaha, Neb.

C. W. Freelow, of Clyde, Kans., held the first public sale of pure-bred Tamworth swine ever held in the State on November 25. It was quite an experiment and required considerable nerve on the part of Mr. Freelow. The crowd was too small for the number of hogs advertised. So after selling seventeen head, most of which were late summer pigs at an average of \$12.30, every one appeared to be supplied, and the sale was stopped. In view of the fact that Kansas people are not accustomed to the ungainly looking Tamworth, this was a very good sale, and Mr. Freelow expressed himself as being well pleased and says he will have a better sale and better hogs next year. Col. Gregg, of Clyde, and Col. Albright, of Waterville, conducted the sale in a very satisfactory manner.

On December 17, at Wellington, Kans., Snyder Bros. will offer at public sale a select draft from their herd of 400 Poland-China swine, consisting of twenty sows and gilts, twenty boars and ten choice pigs, all of which are sired by either Broadgauge Chief or Simply O. K., their International and State fair winning boars. The sows will be bred to the above-named boars or to Priceless Black U. S. by Heyle's Black U. S. and out of a sister to Chief Perfection 2d, or to Columbia Chief by Chief Tecumseh 3d, out of Columbia 2d. Snyder Bros. have been having excellent trade during the past few months, but are making this sale in order to reduce their large herd to make room for their fall litters which are now filling up their pen room. They report these newcomers as the very best lot of pigs they ever had farrowed on their ranch. Poland-China breeders will have a splendid chance at this sale to get the very best of stock at reasonable prices. Write Snyder Bros. for catalogue, catalogue.

The dispersion sale of registered Percherone and high class jacks advertised by Hanna & Co., of Howard, Kans., to be held at the Stock Yards Horse Pavilion at Kansas City, Mo., December 19, is perhaps one of the most desirable offerings of first-class horses ever made in the West and parties needing anything in this line should not overlook the fact. Of this offering Mr. Hanna says:

"It is a dispersion sale and will include our entire herd without reserve, except possibly one or two old mares, and the young foals not of suitable age to sell to advantage. There will be eight stallions and twenty-four mares catalogued, and also five extra good young jacks. The stallions will be in every way a superior lot, and the mares will be of a size, quality and breeding to enrich any herd in America. There will be but one stallion offered over five years old, and but three mares over nine years old. Some of the mares will weigh a ton, and nearly all will be safely in foal. The five jacks are from the largest stock, well grown, and proved breeders. At least three of them would be classed as extraordinary in size, bone and quality."

The cattlemen of the West are not only alive to their own interests as such in the breeding barns and feeding lots but in politics as well. The recent election returns show that two prominent members of this fraternity have been placed in the gubernatorial chairs of their several States. Mr. W. J. Bailey has long been known in Kansas for his active interest in live stock and agriculture generally, and the people of this State have decided that he is the best man within her borders to occupy ...e governor's office in the State house for the ensuing two years. That the people of Kansas think they are right in their selection is shown not only by the record Mr. Bailey has already made in political life and his pronounced ability as a cattleman, but by the fact that he was elected to the State by the largest majority received by any governor for many years.

Out in Nevada the people realize the importance of the cattle industry and propose to see that it is properly fostered. One step towards this object has been the election of Mr. John Sparks, a noted cattleman, to the office of governor by a hand-

some majority.

The ninety head of Herefords to be sold at Kansas City next Monday and Tuesday, December 8 and 9, from an offering that should interest the Hereford breeding fraternity ot large. It will be of especial interest to the large class of breeders and cattle growers who naturally look to Kansas City at their base of supply, for with the exception of the sale made during the

American Royal, it is the first offering of Herefords to be made at that point since last May. The kind of Herefords included in this offering of Benton Gabbert & Son's Columbus Herefords and Dr. J. E. Logan's Sunset Herefords are none too numerous. Sixty head of cows and helfers from 1 to 7 years old, and about thirty 1- and 2-year-old bulls, representing as these do the oest blood of England and America, and not offered to the bidders at every sale. But they are the kind of cattle that every bidder should buy for the purpose of maintaining, and in most instances improving, the quality of his herd. They are the kind of cattle every beginner must buy if he desires to establish a herd of uniform high quality. They are the kind of cattle that proves their present owners to be successful breeders, and they are the kind that will do their part toward earning for their new owners the same kind of success. Of the bulls offered there is a sufficiently large number of individuals of the right stamp for herd bulls. There is the Earl of Sunset Farm and others offered by Dr. Logan, and the Columbus bulls, offered by the Gabberts, that are beyond question the very kind that are needed in the majority of our pure-bred herds. And there will be enough of this kind offered to afford the buyer a wide range for selection. The unusually large number of females included that have calves at foot or will drop calves shortly make this an excellent opportunity for the new breeder, or the small breeder who desires to increase his herd, to get just what he wants. The imported females, and females by imported bulls in Dr. Logan's consignment, are the kind that are too scarce in most public offerings. The thick-fleshed chunky, curly-coated Columbus and Hesiod lith females, offered from the Gabbert farm, are the kind that make grand matrons—the dams of the best kind of Herefords. Following the International so closely, moderate prices are bound to prevail. The entire offering is one of unusually good quality, and instead of prospective pur

One thousand dollars in cash prizes were paid the successful exhibitors of Berkshires at the American Royal at Kansas City. October 20-25, 1902, as follows:

G. G. Council, Williamsville, III....\$381.00
Harris & McMahan, La Mine, Mo... 216.00
Geo, W. Jessup, Rockville, Ind.... 187.00
Etzler & Moses, Convoy, Ohio... 128.00
James Houk, Urich, Mo... 32.00
James T. Pollard, Fulton, Mo... 28 00
J. H. Blodgett, Beatrice, Neb... 17.00
W. D. McTavish, Coggon, Iowa... 8.00
N. H. Gentry, Sedalla, Mo... 5.00

#### The Gifford Shorthorns.

There are some heifers calatogued for the Gifford Bros.' Shorthorn sale at Manhattan on December 16 that are beauties and they are mighty well bred too, as they are sired by Red Knight 120752 which is a sufficient guaranty of their quality. Miss Mary Knight and her dam Mary R by Waterloo Regent 117669 are both splendid Young Mary cows and will be sold. Others of special merit are Marvel out of Mary Earl by Waterloo Earl 39880; Janice out of Jean by Waterloo Earl 39880; Janice out of Jean by Waterloo Regent; Music out of Musette by Waterloo Regent; Ruby of Elmwood out of 7th Moss Rose of Walnut Grove by Scottish Hero 110139; Highland Beauty out of Iowa Beauty 4th by 17th Scottish Lord 113726. While these are but a few of the many good things named in the catalogue it must not be forgotten that they are all the get of that wonderful sire, Red Knight, who reproduces his type so remarkably. The entire offerig of Red Knight's get is so remarkably even in its superior quality as to make it stand out as the most uniform lot that will be offered at auction this fall. All the females are bred to Red Gauntlet 3d 149507. Write for a catalogue and mark Rose Duke 155031, if you want a herd header. Address Gifford Bros., Milford, Kans. ford, Kans.

### M. L. Ayres' Percherons.

M. L. Ayres' Percherons.

The old Shenandoah horseman, Mr. M. L. Ayres, is "sawing wood" at the old stand again, and he reports trade good, and prospects excellent. Mr. Ayres is something of an optimist; he has faith in everything that is good, but more especially in good draft horses. Good horses make better men, and better men want still better horses, and so the wheel goes round, and the world moves. Mr. Ayres has a larger number of big clean, heavy boned drafters in his Shenandoah barns now than may be seen at any other western establishment. There are more than one hundred registered Percherons here. The buyer is sure of finding the horse here that will sult him. With early buyers Mr. Ayres will make attractive terms. He does not want all profits to himself. He asks that you come to see the horses. Good horses ought to be seen to be appreciated. A fair specimen of one of his low-down young black Percherons is represented in the sketch made by Mr. Dave Risk, and presented on another page. See the M. L. Ayres advertisement and write mentioning the Kansas Farmer.



#### The Center of the Breeding Industry.

Our contention that the so-called Kansas City territory is the breeding center of the United States has been well demonstrated by the record both in the sale and show rings at the American Royal of 1992. A total of 308 head of pure-bred animals belonging to the Angus, Galloway, Hereford and Shorthorn breeds—the only ones on exhibition—were sold at the American Royal of this number Kansas took 106 head, while Kansas and Missouri together took 191 head, or almost two-thirds of the total offerings. Below is a table showing the purchases of the different breeds by States:

	Angus.	Here- fords.	Short- horns,	Gallo- ways, To	al
Missouri	23	34	26		86
Kansas	26	21	32		.05
Iowa	31	8	6	6	51
Illinois		9		8 .	27
Indiana	5	13	1		19
Texas	3	10		1	6
Nebraska		10			10
Wisconsin			1	1000	1
Minnesota				1 2	1
Colorado				2	., 2
		_	-	-	-
Total	98	97	66	47	<b>908</b>

The distribution of these pure-bred animals by breeds is shown in the following tables which only serve to emphasize the fact that our western breeders are alive to the best interests of their location and the breeds they represent:

### SHORTHORNS.

C	ows.	Bulls.	Total.	price paid
Missouri		3	26	\$271.34
Kansas		9	32	197.65
Iowa			6	354.16
Indiana		••	1	325.00
Wisconsin	1		1	500.00
Total	54	12	66	\$247.42
HE	REF	ORDS.		
C	lows.	Bulls.	Total.	Average price paid

FILE	LEF	OLDS.		
Co	ws.	Bulls,	Total.	Average price paid
Misseuri	26	8	34	\$271.61
Kansas		10	21 13 10	238.23
Indiana			13	391.15
Nebraska	5 .	 5	10	301.50
Illinois	8	1	9	472.22
Texas	2 5		2 8	472.50
Iowa	5	3	. 8	289.28
	_	_	_	
Total	70	27	97	\$304.74
ADDDT	-	N ANG	DITIE	

ABEI	RDEEL	N-ANG	US.	
•	Cows.	Bulls.	Total.	Average price paid
Iowa	17 14 9	7 6 12 1	31 23 26 10 5	\$160.00 151.08 161.53 340.00 155.00 145.00

	Cows.	Bulls.	Total.	Average purchase price.
Kansas	4	22	26	\$108.07
Iowa	5	1	6	103 66
Illinois	5	3	8	260.00
Missouri	2	1	. 3	183.33
Texas			1	*****
Minnesota Colorado		ż	2	180.00



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## Borticulture.

Kansas State Horticultural Society.

Following is the program of thirtysixth annual meeting of the Kansas States Horticultural Society, to be held at the rooms of the society in the State Capitol at Topeka, December 29, 30, and 31, 1902:

FIRST DAY, MONDAY, DECEMBER 29. Trustees meet promptly at 11 o'clock,

Trustees meet promptly at 11 o'clock, a. m.

Call to order by President Wellhouse at 1.30 o'clock.

Prayer by F. L. Kenoyer, Independence.
1. Annual Report of Trustees, by congressional districts, on Horticultural Conditions and Progress. First district, E. J. Holman, Leavenworth; Second district, B. F. Smith, Lawrence; Third district, E. L. Kenoyer, Independence; Fourth district, Geo. M. Munger, Eureka; Fifth district, William Cutter, Junction City; Sixth district, Geo. W. Bailey, Wellington.

2. "Orchard Treatment," James Sharp, Morris County; E. E. Yaggy, Reno County.

Appointment of Committees on Credentials of Delegates, Program, Membership, Exhibits, Audit, Obituary, and Final Resolutions.

Evening Session.

3. "Bitter Rot in Apples," John H. Stinson, Mountain Grove, Mo.

4. "Replanting Fruit-trees," H. L. Ferris,
Osage City.

5. "Orchard Success in Kansas," Carl
Miller, Shawnee County.

6. "Better Legislation for Bird Protection," D. E. Lantz, Riley County.

7. "Report on Entomology," E. A. Popenoe, Kansas State Agricultural College.

Music During Interludes.

SECOND DAY, TUESDAY, DECEMBER 30.

Call to order by President Wellhouse. Prayer. 8. Officers' Reports. President, F. Wellhouse, Topeka; Vice-president, J. W. Robison, Eldorado; Treasurer, F. Holsinger, Rosedale; Secretary, William H. Barnes, Topeka.

9. Amendments to Constitution.

10. Amendments to By-laws.

11. Legislation Report, A. L. Brocke, Shawnee County; J. W. Robison, Butler County.

Afternoon Session.

Afternoon Session.

12. Report of Committee on Credentials.
13. Election of Officers. President, Vice-president, Treasurer, Secretary, One Trustee for each Congressional District.
14. "Pears and Pear Culture," T. W. Harrison, Shawnee County.
15. "Handling Fruits," A. F. Yaggy, Reno County; Geo. A. Blair, Sumner County; Geo. C. Richardson, Leavenworth County.
16. "Cherry and Plum," J. J. Alexander, Norton County.
17. "Peaches," Peter Voorhees, Douglas County. County:
18. "Stone Fruits," Geo. Holsinger,
Wyandotte County: C. A. Chandler,
Shaw's Garden, St. Louis, Mo.
19. "Handling Stone Fruits," Miss E.
Geyer, Leavenworth County.
20. "Taste as Pertaining to Fruits," B. F. 20. "Taste as Pertaining to Fruits," B. F.
Smith, Lawrence.
21. "Small Fruits," M. Chandler, Wyandotte County; Clarence Holsinger, Wyandotte County.
22. "Handling Small Fruits," F. W. Dixon, Jackson County.
23. "New Fruits and Nomenclature,"
William Cutter, Geary County.
24. Report of Committee on Exhibits.

Evening Session. 25. "Home Adornment," Mrs. C. W. Bullard, Leavenworth County; Mrs. Lizzie K. Maffet, Douglas County.
26. "Some Present Day Theories of Plantbreeding," H. F. Roberts, Kansas State Agricultural College.
27. "Plant-breeding," Phillip Lux, Shawnee County. 27. "Plant-Breeding, Time Donne County.
28. "Romance of Horticulture" (with stereopticon), S. J. Hunter, Kansas State University.

Music During Interludes.

THIRD DAY, WEDNESDAY, DECEMBER 31.

Doned by new President.

"Dopened by new President.

"Pay Prayer.

"Prayer.

"Bept of Committee on Obituaries.

"Report of Auditing Committee.

"B. \*Pept of Auditing Committee.

One hundred dollars has been set apart for awards on exhibits of fruit. The exhibition is not competitive, and every exhibit of merit will receive an award. Uniformity will require that five (no more, no less) specimens shall constitute a plate of apples, pears, peaches, or quinces; nine specimens of crabs and plums; grapes, one pound. Several plates of same variety may be exhibited by same person.

Displays by counties, societies, or individuals may include all not duplicates which they exhibit, whether already awarded a premium or not.

All fruit should be correctly named. Preserved and dried fruits, or prepara tions of fruit, will receive the attention and consideration of the committee.

New varieties will be specially classed es for two dollars and fifty cents.

and distinctly and separately reported upon.

New fruits of value, noted varieties, or those of peculiar excellence, from anywhere, will receive awards of "Special Merit," or "Honorable Mention."

We anticipate that this will be the largest and most elegant display ever

made at a meeting of this society. will be made on each side of the entrance to the society's rooms in the newly finished, marble-floored, electric-lighted north corridor, on the ground floor of the State capitol.

Bear in mind, this is a State exhibit, and should be superior in every way. Elegant lettered premium ribbons,

thus: "Highest Award," "Excellence,"
"Special Merit," "Honorable Mention,"
will go with the awards.
Fruit carefully packed can be sent by

express, in care of the secretary, about December 26, or brought in your bag-

All railroads will give round-trip tickets for a straight one-way fare.

### Manuring Fruit Trees.

The advantages of manuring fruit trees are not always appreciated. Even when enjoying good Kansas soil a young apple tree can be made to greatly increase its rate of development by the liberal use of manure. By judiciously regulating the application of the manure the fruiting of the tree may be hastened. The plan is to manure liberally for about three years after the tree is planted, then cease the applications. As the stimulating effects of the manure become less pronounced the effect is the same as a check upon the growth and the tree begins the bearing profusely. Having attained a good size it is able to pro-duce liberal crops of fruit. Trees treated in this way should not be allowed to impoverish the soil to the extent of impairing the quality or reducing the

THE WONDERFUL RECOVERY OF A MINNESOTA MAN.

His Lower Limbs Had Become Useless and He Dragged Himself Around Like A Snake.

While the story of the wonderful re-covery of John Hunter in the little town of Chico, Calif., from paralysis and locomotor ataxia is still fresh in the mind of every one, an account of another equally remarkable and somewhat similar case comes from Minnesota.

Near Northfield, Minn., lives P. A O'Brien, known to everybody round about the town. In the fall of 1900 he was obliged to give up work because of a disease which one of the physicians who attended him called locomotor ataxia and another paralysis. He suffered for more than three years and, for part of the time, lay in a harness by the doctor's direction. He grew worse and the physicians pronounced him incura-ble. But at last, like a miracle, came his cure. Let him tell the story:

It had been coming on slowly for eight years," he says. "A cold numbness commenced in my feet and worked upwards. It grew worse, and, in No- of lead in same proportion as on May vember, 1900, I had to quit work. The 10 and 15. The spraying of July 9 was

My kidneys also became affected and

caused me much pain.
"Didn't the doctors help you?" was

asked. "No. One of them had me on my bed in a harness for several months, but that did me no good. They tried various things and, at last, said I could not be cured.

"I began taking Dr. Williams' Pink Pile for Pale People. The first box stopped my pain so I could sleep good. It was a week before I could move my feet the least bit, but from that on I gained pretty fast. I will never stop praising Dr. Williams' Pink Pills, for they have made a new man of me.

At all druggists, or direct from Dr. Williams Medicine Company, Schenectady, N. Y., fifty cents per box; six box-



### The Old Reliable Anti-Friction Four-Burr Mogul Mills

No gearing; no friction. Thousands in use. Four-horse mill grinds 60 se 80 bushels per hour; two-horse mill grinds 30 to 50 bushels per hour. We make a full line of FEED MILLS, best eversold, including the famous Iowa Grinder No. 2 for 812.50. .\*. Send for free Catalogue.

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## KENTUCKY BLUE GRASS SEED.

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KANSAS CITY, MO. GRASS SEEDS.

CLOVERS TIMOTHY

size of the fruit. After a few crops have

been produced the use of manure may be resumed with advantage.

When to apply the manure as well as other considerations in the same connection, the National Stockman and Farmer advises a correspondent that for stable manure "fall rather than spring is to be preferred, spreading the manure over the whole surface, but not allowing it to come closer than fifteen or twenty inches to the stems of the trees. there should be considerable straw or cornstalks in the manure, the ground mice might find a lodgement there and destroy some of the trees by gnawing the bark. In order to prevent this, it would be well to raise a small mound of earth (a foot high and eighteen inches wide at the base) around each tree; the mound to be leveled down in spring. This is a perfect protection against the mice which often do great injury in young orchards. And it may be well not to apply a great deal of manure in one season—a reasonable portion every year—particularly as the orchard is too young to bear. With an orchard in full bearing, and with such productive va-rieties as Rome Beauty, York Imperial, and Ben Davis, there is but little danger from too much manure; as heavy crops of large fruit make imperative demands on the soil."

### Successful Spraying in 1902.

Lowell Roudebush, of Clermont County, Ohio, reports to the National Stockman and Farmer the following results

of spraying for the codlin moth:
"After reading of the good results from spraying apples with arsenate of lead for the codlin moth we decided to make some experiments to test its value as compared with Paris green. When the time came to spray we changed our mind as we thought we already knew the value of Paris green, and instead of using it would omit spraying four Ben Davis trees. On May 10 and 15 we sprayed our trees, using arsenate of lead at rate of two and one-half pounds to fifty gallons of water, in combination with Bordeaux mixture No. 2. On May 10 the wind was strong and we feared that we had not covered the trees as they should be for good results. The weather continued unfavorable until the 15th, when we sprayed the opposite side and in fact all of the tree. On July 9 we sprayed again, using only arsenate

equally as good last year, and Prof. F. M. Webster also, though the latter through an accident could not give exact results. We learn that Nelson Cox, of Bradrick, Ohio, the famous grower of Rome Beauty apples, and Wm. Miller, of Gypsum, Ohio, president of the Ohio State Hriticultural Society, had good results from its use for both broods the present year. A. P. Roudebush, of Owensville, Ohio, sprayed for the sec-ond brood August 15 and reports about 5 per cent of his Rome Beauty apples wormy. I am of the opinion that the codlin moth prefers the Ben Davis above most varieties. We found in our inspection work that certain varieties of strawberries were more susceptible to attacks of the rust, red raspberries of life worth living. Subscribe for the the gall, apples and peaches of the San Kansas Farmer and get both.

TARK TREES best by Test—78 Years
LARGEST Nursery.
FRUIT BOOK free. We PAY CASH
WANT MORE SALESMEN PAY Weekly
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Hart Pioneer Nurseries, Fort Scott, -

For information as to Fruit and Truck-ing Lands, Grazing Lands, Soil, and Climate in Virginia, North and South Carolina, Georgia, Ala-bama, and Florida, along the

## ATLANTIC COAST LINE RAILROAD,

WILBUR MOCOY, Agricultural and immigration Agt., Jacksonville, Fla.

Jose scale. Why not the Ben Davis be preferred by the codlin moth? Where arsenate of soda and Paris green were used and trees not sprayed for the second brood the perecntage of wormy apples has in my observation ranged from 40 to 60 per cent for the Ben Dayis. We have noted for years that varieties of apples that grow in clusters are badly infested with the larvae of the codlin moth, the egg being deposited where two or more apples touch instead of at the blossom end as with the first brood. We shall use arsenate of lead in preference to any other arsenate because it does not burn the foliage and sticks, though the cost for a single spraying may be greater than with arsenate of soda. We expect to make a fight against the second brood of the codlin moth, the apple-grower's worst enemy.'

### Aphis.

EDITOR KANSAS FARMER:-I find on my young apple trees a small green louse or fly that seems to get its living from the tree. Will you please let me known through the Kansas Farmer what it is and if it is an enemy of the orchard?

W. J. REARDON.

Liberty, Montgomery County.

Diligent inspection of the sample enclosed fails to reveal any specimens that can be identified, they either escaped or evaporated. The insect is probably the apple aphis, Aphis mali, which is frequently found upon apple trees and stock in nurseries, but is rarely present in sufficient numbers to inflict any serious or permanent injury. It may be controlled by strong tobacco water or thorough spraying with kero-

### Birds and Grapes in McPherson County.

EDITOR KANSAS FARMER:-I was much interested in reading on article written by E. S. Tucker, in the issue of November 20. I give my experience with fruit and birds here in McPherson County. I have been here thirty years. I find that grapes are the surest fruit we can raise. They bear every year but I do not expect any unless I stand over them with a shot gun from the time they begin to color until they are all gone and we have to gather them before they are ripe to get any at all, because I can not watch them all the time. I will have to give up grapes unless the brown thrushes, cat birds, and orioles are killed off. We have not many robins or many mocking birds. The orioles are the most numerous and worst.

B. REICHART. McPherson, Kans.

Cash makes friends. Friends make

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Conducted by Ruth Cowgill.

### THE PAPER KITE.

Once on a time a Paper Kite
Had mounted to a wondrous height,
Where, giddy with its elevation,
It thus expressed self-admiration:
"See how yon crowds of gaping people
Admire my flight above the steeple;
How would they wonder if they knew
All that a Kite like me could do!
Were I but free I'd take a flight,
And pierce the clouds beyond their sight;
But ah! like a poor prisoner bound,
My string confines me near the ground,
I'd brave the eagle's towering wing,
I'd brave the eagle's towering wing,
Might I but fly without a string."
Might I but fly without a string."
It tugged and pulled, while thus it spoke,
To break the string—at last it broke;
Deprived at once of all its stay,
In vain it tried to soar away;
Unable its own weight to bear,
It fluttered downward through the air;
Unable its own course to guide,
The winds soon plunged it in the tide.
Oh, foolish Kite; thou hadst no wing;
How couldst thou fly without a string?
My Heart replied, "O Lord, I see
How much the Kite resembles me,
Forgetful that by Thee I stand;
How oft I've wished to break the lines
Thy wisdom for my lot assigns!
How oft indulged a vain desire
For something more or something higher;
And but for grace and love divine,
A fall thus dreadful had been mine."
—Aesop's Fables.

### The School for Hustlers.

It is true so many men are saying that our American ideal of success is often not the highest one. We bow down to the successful man, taking no down to the successful man, taking no account of the way in which he attained his success. The man who "gets there" is our hero, whether he got it by bluster or speculation, or more honorable methods. The Saturday Evening Post has a striking editorial on the subject:

We have no peerage in this country it says, but there are men who dominate it just now as the nobles did France before the days of the Jacquerie.
We call them, fondly, "Hustlers." We applaud them; we brag of them; we urge our boys to imitate them.

Let us stop to take breath in our shouting. Is that really the highest type of man? What will happen if all Americans bécome hustlers?

The hustler begins his victories in school. "That boy, Tom," his proud father says, "has jumped a class, as usual. He works in vacation. When he graduates he will have crammed two years of the course into one. His mind, one might say, is equipped with seven-leagued boots."

The curriculum at most American schools is planned to help Tom in his career of cramming. The textbooks are mere digests of every science and branch of knowledge which he commits branch of knowledge, which he commits

His brother Bob, who can not remember a word which he does not understand, has been two years in the second class. He is a stout, low-voiced, gentle boy, and as he is honorable and kind, with no self-consciousness, he has the finest of good breeding. Bob has the finest of good breeding. Bob has an enormous following of friends. He will develop into a quiet citizen who cares nothing for wealth or notoriety; he will do his daily stent of work faithne will do his daily stent of work faithfully, and when it is done, forget it, and turn to some wholesome hobby. He will bequeath a sound body and sane mind to his children, but very little

But, in or out of school, this dull, slow-going Bob is now at an enormous disadvantage in this country. The chances, the applause, are all for Tom. As a boy, he is chairman of the school clubs, he edits the magazine, he mandages the games, the debates, the balls, ages the games, the debates, the balls, whose stories thrill with the beauty and heroic action, with a lean, sharp-faced lad with a twitch is a lean, sharp-faced lad with a lean with a twitch is a lean, sharp-faced lad with a lean with a le

or chorea in his upper hip. My motto, he tells everybody, "is—get there!"

The boys know well that he does not care what he tramples down on his

Out of school we find him in every way there. Out of school we find him in every trade and business—working, pushing, speculating. He means to be a Morgan. No lower success contents him. He is the leader of his town whether that be a hamlet or New York. He usually dies,

a namet or New York. He usually dies, worn out, under sixty.

Now, why has the country lately taken this human steam engine as its one great type of man? His quiet, reasonable brother is thrust out of sight with contamnt.

It is the fault of the Bobs, after all. They are enormously in the majority. Why are they dumb? Why do they not remind the straining, maddened crowd remind the straining, maddened crowd that after all "push" is not the first of that after all "push" is not the first of cardinal virtues: that leizure and calm

and honorable, happy days really count for more in the man's assets than his name blazoned in the papers, or automobiles, or millions in bank? Bob is the oldest son and heir to the best things in life. Let him claim his place and take it.

Two Dogs and Some Geese.

Our Four-footed Friends contains a story which seems to indicate that geese are not such "geese" as their reputation names them. Here is the story. It may serve as a starter for others of equal interest from our own contributors.

contributors:
"A goose is no fool, and still less is a gander. He will remember a kindness and revenge an injury; he is courage ous; he has an immense sense of hu-mor, although it chiefly shows itself in a rather deplorable fondness for prac-

"We had at the ranch a little dog,
Roxy by name, very round and fat, and
unfortunately very near-sighted. He
used to be called to his supper about
the time the geese are called to theirs.
He had to go through the garden gate
to get his supper, while the geese take to get his supper, while the geese take

"Now the gander, a most observant theirs outside. bird, was not long in noticing the fact with his own, and at once proceeded to with his own, and at once proceeded to the traces, while his patient mate strove the traces, while his patient mate strove the traces, while his patient mate strove the traces. harem in two lines on each side of the gate and leading thereto.

"Not dreaming of harm, the trustful Roxy trotted briskly between the lines, and there made his fatal error. The first goose nipped him as only a goose first goose nipped him as only a goose can, then the opposite goose, and so on alternately. The unhappy dog ran a regular Indian gauntlet, getting finally through the gate and howling with anguish. Then the geese gave vent to shrieks of demoniac laughter, long and loud. The toke was too good for words. loud. The joke was too good for words.

Three times did the wretched Roxy fall a victim to the wiles of his enemy, till finally he would stop short, raise one paw, regard his tormentors more in one paw, regard his tormentors more in tess, where the poor horse at last driven into the sorrow than in anger, and run around to the other side of the garden, where a friendly hole in the fence gave him entrance.

"Roxy died full of years and experiences and was succeeded by a pug who length and

iences, and was succeeded by a pug who thought his chief duty in life was to rush upon the geese unexpectedly, and drive them from their supper. He was an immense success till his fate overtook him. One ever-to-be-remembered afternoon he tackled the gander and seized him by the tail.

"The gander immediately made for the pond, half-running and half-flying, but with such speed that the astonisned pug did not dare to let go. The feathers were strong, and the dog performed most of the transit in the air. When the pond was reached, the gander, with undiminished speed, reached the middle, where the pug got a chance to let go and struck out for the shore.

The avenger of blood was behind him, and before he reached land he was the recipient of the most scientific, broadminded, and colossal thrashing an of-fending erecture ever endured. A sad little dog reached the shore, where he sat down and lifted up his voice and wept. He has not thought it for his interest to meddle with the geese since."

### "Realism" in Life.

There is a certain class of people rep-There is a certain class of people represented by novelists who lay claim to the name of "realists," because, they assert, they picture "real life," by which they mean life as they see it, in its commonplaceness, its sordidness, its littleness, in counterdistinction to those whose stories thrill with romance, beauty and heroic action, or shudder with exaggerated horrors.

d yet, the question is frequently raised, Is the name rightly chosen? it fair to say that life is really only the matter-of-fact business that is to be seen by the practical eye, or is there something deeper, richer, and—yes— truer, than appears to the realist?

Last Sunday I noticed what was to

me a rather striking coincidence. heard two great preachers, Dr. Sheldon, the world-beloved author-preacher, and Graham Taylor, the noted slum-worker, and leader of the social settlement work in Chicago and each said in his own characteristic way, the same thing, which was something like this: We must learn to look at every human being with respect, no matter how degrad-It is as it a mother should elect to feed her family on brandy snaps and mustard, leaving homely sweet bread wholly out of the bill-of-fare.

It is the fault of the Bobs, after all. It is the fault of the majority. It is the fault of the majority.

and beauty which we think we see, and behold the common unbeautiful humanity which is really there.

The fact is, people do not see alike.

Ask any number of persons how big the moon looks, and they will give you answers varying from a dime to a washtub. You may see a common man, dirty, abject, of low desires and senseless fears. To me there is no "common man." I see the object of somebody's love capable of high endeavor and no love, capable of high endeavor and no-ble achievement. That he may not accomplish his vast capabilities, that he never manifested the faintest evidence of human dignity is no business of mine at this moment. The unseen and perhaps undeveloped better man is the real man just as truly as the apparent failure before us.

Amateur Philosophy.

I was watching a team of horses doing some heavy work in plowing and grading. They worked with the dogged patience of overworked beasts, accept patience of overworked beasts, accepting the blows and oaths of their brutal drivers with philosophical calm, until striking a particularly hard piece of ground one of them balked.

"That is right," I said to myself. "I should not do it, either. It is too hard."

The creature's revolt was rewarded with cruel kicks and blows, whereupon it began to back and tried to kick over

wearily to move the unbudging load.
"I should kill that cruel man with a blow of my hoof," I said growing coldblooded toward man in my sympathy for the beast. Then I began to mora-ize. "It is just like some people's fate. They are set some hard and thankless task, too heavy for their frail strength. It is a wonder they do not rebel, but instead they pull dully and wretchedly at their heavy load watthet beavy load. at their heavy load, until they drop in their tracks. I should strike boldly for liberty, as does my friend the horse, and let other people look out that they do not come in the way of my heels."

I was growing quite excited and reckless, when I looked out again and saw the poor horse at last driven into the path of duty once more treatments.

tries to get out of it, he gets only additional hardships for his pains, and not one whit less work, while the patient worker at his side has only so much the harder time. Yes, it is just as well to submit first as last."

## Send in Your 100-word Article.

We want to hear from a great many of our young people upon their observa-tions of the wonderful intelligence of the lower animals. We propose to pay for each one with a year's subscription to the KANSAS FARMER and to choose the best from among them for a prize of one dollar. While we shall be glad for some degree of care in the preparation of these articles, still no one need be deterred from contributing for need be deterred from contributing for fear his article will not be fit for publication, for every article that comes to us is always carefully read and corrected, from the standpoint of grammar, punctrom the standpoint of grammar, punctuation, spelling, and construction. The prize will be given to the one who sends the best story, regardless of the minor details we have mentioned. We hope to hear from a very great many.

She-"Oh, Fred, dear, you are so no ble, so generous, so handsome, so chivalrous, so much the superior of every man I meet I can't help loving you. Now, what can you see in plain little me to admire?

He—"Oh, I don't know, dear; but you certainly have very good juagment." Tit-Bits.



## FOR THE LITTLE ONES

DOLLS' SLUMBER SONG.

Hushaby, my bables, now the day is closthe tired little birds are drowsing in

the nest; but upon the lake the lilies are reposing, but upon the lake the lilies are reposing, and so must you, my little ones, upon youh mamma's breast, sink to sleep—Si-le-e-p, sleep, sink, sink to sleep—Claribel and Muriel, Polly and Bo-peep.

Hushaby, my dearies, now-the dew is fall-

Over on the meadow evening shadows creep.
On the edge of Slumberland hear your mamma calling, "Come, my little family, it's time to go to sleep."
Selector, sleep, sink, sink to sleep—

S-l-e-e-p, sleep, sink, sink to sleep— Claribel and Muriel, Polly and Bo-peep, Ethelwyn Wetherald, in Youth's Com-panion.

#### The New Cow.

When father bought the new cow, Lucy and Jack thought at first, that it would be ever so much fun to take her to pasture. But they did not know what a queer creature this cow was; so they started out boldly next morning to take here. Lack held the rope because he her. Jack held the rope because he considered himself much stronger than Lucy, because she was only a girl, though she was two years older than he

"Now, Lucy, he said as they started,
"You go behind with a little stick and
when she stops and won't go, just you
give her a little hit."

So they started. But as soon as they were outside the gate, instead of stopping as Jack had expected, she kicked up her heels and began to run. Jack hung on bravely and Lucy caught on the long rope which was dragging on the ground. The cow went faster and faster. She did not stop to turn corners nor to go around gardens, but went right through, leaving a trail of trampled gardens and ruined flower beds. Lucy after a while let go of the rope, Lucy after a while let go of the rope, for it was hurting her hands and she really couldn't run any farther, but Jack still held on, though he never had run so fast before and did not know it, who that he could.

that he could.

Finally when they were in sight of men of the pasture gate the cow spied Mr. to \$3 Brown's cane-field and made straight for it. She dashed in and then suddenly than it. She dashed in and then suddenly

forgot her haste, and began making after-good meal of the cane, and Jack could not make her move. He wished for Lucy and her little stick, and finally she came. She was out of breath and billows She was out of breath and niloma looked frightened.

"Oh, Jack," she cried, "Mr. Brown is best coming and he looked dreadful cross, es as

What shall we do?"
"Why, we'll tell him we didn't come here on purpose, and we couldn't help coming here, and we're sorry we spoiled his cane, and we think we'll sell the cow, and—"

cow, and-Before Jack could finish, in tramped Mr. Brown, looking as cross as Lucy had said.

"Here, you young scamps," he said, What do you mean by letting your cow

"What do you mean by letting your coweat my cane?"

"Oh, dear," said Lucy, "We're not letting her, she is just doing it." And some letting her, she is just doing it." And some letting her, she is just doing it." And some letting her, she is just doing it." And some letting her, she is just doing it." And see did not know she would act. For "And we did not know she would act. For "And we did not know she would act. For "Oh, that is it, is it?" said Mr. Brown, I we'll drive her out and then you

"Well, we'll drive her out and then you must see that you keep her out. Now," he continued, when they were out of the cane and Jack and Lucy both were holding the rope tightly, "now, here's an apple apiece, and sometime you may visit me in my house instead of my cane-

"He wasn't so cross, was he?" said Lucy as they were talking it over, after having got the cow safely within the having got

pasture.
"No," answered Jack, "But I hope old Boss won't get into his field again, just the same.'

And Lucy quite agreed.

Mrs. Highmind—"I think it's a great pity that one can't find a newspaper that isn't filled with all sorts of horrible crimes. We ought to have an organi zation to prevent such matter from being printed."

Philosopher—' Would it not be better to have an organization to prevent such crimes from being committed?"

FOR OVER SIXTY YEARS An old and Well-Tried Remedy. Mrs. Wit Soothing Syrup has been used for over Sixty Ye Millions of Mothers for their Children while Tee with Perfect Success. It soothes the Child. I the Gums, allways all Pain; cures Wind Colic, an best remedy for Diarrhoes. Sold by druggist in part of the world. Be sure and ask for Mrs. Wind Boothing Syrup, and take no other kind.

Twentys Sive Cents a Betsles.

The Some Circle,

KING TOIL.

Where the gleam of rare gems is known

Cotto Ther ion al I am the monarch who rules on the land, And the monarch who rules on the sea; ton as My will is iron, my laws demand ing an That all men shall bow to me. The empire under the hills is mine, Black coal, hard iron, my throne; I reign where the bright red gold doth shine, to utili the far

safe an Cotto rings, where the hammer throbs and rings, where the sickle flashes its steel; hulls at I laugh in the song the mariner sings, ucts. And I fashion the flying keel. to the I reign where the church rears bold its the hul

spire
To the arch of the bending sky;
Where the voice of the bell's fierce clang
cries "Fire!"
And the uniformed men dash by. ing hul tainable are grc

Where the cartman holds his reins;
as cott
Where the gentle nurses tend the sick,
tonseed

Where the merchant counts his gains, ground I reign where the lungs of the furnace breathe, breathe, where the lifeboats breast the wave; where friends a bridal garland wreathe, where the sexton digs a grave. cottons kept if I reign where the woodman fells the tree, where the millwheel stately turns; where the huntsman ranges bronzed and feed.

tibility I reign in the halls where the judges grave of eac Interpret the laws of the land; corn, i In every clime I'm the friend of the brave, and cot And I hold to all my hand.

—Selected. contain twelve a story of India, by Lieut.-col. A. F. Mockler-Ferryman, in the Balticarboh tritive meal

Never did three conspirators meet tein ar with more pent-up expectancy; and as hydrat Gillmore laid the packet before him on tive rathe table the others stood round him to tritive assist in the reading. It proved no easy existing matter. The writing was in parts barethe cally legible, the English was faulty and or rathow and again failed altogether, the the graviter passing into Hindustani and Pall. have With the latter he seemed most familbetwellar, and here the Wuzir came to the seven front, translating the passages readily. Thu bad been deciphered and converted into tonsee English, Keane carefully writing it an excount and finally reading it slowly and er in alloud:

Kafir-the White Lama's communication to is fed His countrymen. tein ar with more pent-up expectancy; and as

HIS COUNTRYMEN.

corn at Where the forge-fire smokily burns.

Finding of the White Lama.

MORE SUN.

(Continued from last week.)

"I, Sariputra, Priest of Buddha, Spirmixed tual Head of Tscho Pangi gompa, know will that Head of Isens Pangi gompt, have will the that I am about to pass hence to my vanta next rebirth—whether in this world or seed in another planet no man can tell—deexcep lire to make known the story of this have have worldly passage which is just closing. receively should I have this strange desire? cotton it is because of a vision that has apand beared to me. By reading my sometimes what strange history the people of wheat whom I was born may be drawn toward White heavited religion which has brought

whea whom I was born may be drawn toward whe beautiful religion which has brought or chowledge, calm and peace to one who mark formerly was ignorant, sinful and without merit. The way of the Noble Eightrough old Path is long and accompanied with indless trials and vicissitudes; but generated the lies beyond it the acquirement of all cahe knowledge of the Four Noble Truths. all cane knowledge of the Four Noble Truths seed lumber of re-births can be reduced and advante attainment of Nirvana hastened. ing clusten, O ye men of the outer world! to when when he words of Sariputra, once living in grain he downward course, but now dying to great inter in a more meritorious existence. isten and take heed; live apart and cotto neditate, so that the knowledge of the ment niseries of your existence may be given

Gener Let me begin at the beginning. I Edittain my object I must be clear last virtual my object I must be clear er, Phroughout; but they must remember periety, for my brethren would never permit dairyh, for my brethren would never permit dairyhe communication. I have devised a herd dan for placing my story in the hands herd lan for placing my story in the hands I have fithe outside world. Whether it will sever ucceed I can not say; but if it does horn ucceed, and if these writings be read, enoughen shall I have made an endeavor to beef rouse the world to a sense of its sinand

I THE MAN WHO WAS THOUGHT DEAD.

to ke "The name by which I was known for and he first 30 years of my life was Harold Browsreakspear—how strange it sounds! near ly father was an Indian general and combutts. butten anded a brigade in the Sikh war, tle. where I myself was his aide-de-camp. subsequently I entered the Bengal Cav and lry, and for several years lived solely per o enjoy myself, being devoted to what vas called 'sport.' When a young cap-ain of thirty I visited this country on a

of m mad

shooting expedition. and through thoughtlessness committed a crime which led to the commission of a second crime, for both of which I was swiftly condemned to pay the penalty.

THE GOLDEN GAUTAMA.

"The first crime, as I have said, was committed thoughtlessly, yet it was nevertheless theft and sacrilege. I was traveling into the valley of Changchemno river and camped for the night in the fields beneath the gompa of Chimray, close to several chortens containing the bones of sainted lamas. In a niche in one of these I observed a tiny image of Siddartha Gautama, studded with precious stones; and in an evil hour I set my heart on adding it to my collection of curiosities. In the stillness of the night I crept silently to the chorten, and after some difficulty managed to find my prize, which I bore back in triumph to my tent. Closer inspection told me it my tent. Closer inspection told me it was of great value, since it was composed of solid gold, in which were imbedded what were undoubtedly the richest gems, though rudely cut. The theft troubled me little, as I had frequently taken part in the looting of temples in Indian warfare, and, packing the image away at the bottom of a kilta, which I kept locked. I forgot the whole incident kept locked, I forgot the whole incident.

"Three months passed, and the time came for my return to the wilds. I camped again at Chimray, and visited the chortens in hopes of further booty, but without success. Then I traveled through Leh toward Srinugger. At Leh I repacked my bag again, taking care to replace the precious image at the bottom of the kilta containing my books and private papers. Two days later the kilta was stolen from my tent; but, disgusted as I was, I was afraid to make a commotion in the village. The recovery of the stolen property would have dis-closed my own theft; and under the circumstances I thought it best to let the matter drop. On arriving at Basgo I was visited by a Bhoti shikari, who talked much of shooting and who assured me that he would show me good sport if I would accompany him next day across the river. This I agreed to do, and shortly after daybreak we were making the best of our way up a stony ravine on the far side of the river. Then we descended into another ravine, at the bottom of which four lamas suddenly appeared from behind a rock; at the same time my shikari turned to me with a grim smile and said: "These men a grim smile and said: "These men have come to take you for stealing the Golden Gautama of Chimray.' Seeing that I had been entrapped, I placed my back against a rock, and raising my loaded musket told them that I would shoot the first man who approached. Nothing daunted, my shikari seized a large stone, hurled it and rushed in on In self-defense I shot him dead. The four lamas saw their opportunity, and before I could reload overpowered me and quickly bound me with cords.

"We were then some miles from the monastery, to which it was evidently not intended to convey me until night-fall, for I was carried by two of the men to a cave about half a mile distant, whither also the corpse of the shikari was brought, and laid by my side. Here I lay, bound hand and foot, all day; and at dusk the four lamas formed a solemn procession, two carrying myself and the others carrying the corpse. I asked to be allowed to walk; but, evidently fearing to unbind my feet, they refused my request, and it was some hours before we reached the gate of the lamasery. Up a never-ending flight of steps, through labyrinths of long passages dimly lighted with flickering oil wicks, now passing along galleries half-

open to the night air, up further steps and down again into more passages, my jailers bore me weary and worn out. At length we arrived at a solid door in the side of the rock. The heavy iron bars and bolts were raised and my aching body was put down on the floor of the dungeon. A small portion of food and water was placed in the corner of the cell, my cords were unloosed, and to my horror, the corpse was set down by my side. The lamas withdrew after lighting a lamp, and I heard the bars of the door fall into their strong sockets. Was this to be forever, I wondered, or would the morrow bring release or fresh hor-

"Whether I slept or fell into a state of stupor I can not say; but after a lapse of what must have been many hours I was aroused by the clanging of the bars and the door opened to admit two men with drawn swords. I was informed that I was summoned to my trial, and forthwith was conveyed through a suc-cession of long, dark corridors to a large hall, where I found assembled the

chagzot and a number of high lamas.
"The trial lasted for several hours, and I need only say that I was found guilty of sacrilege and murder and sentenced to be tied to the corpse and to be burned with it. The stolen image was produced at the trial, as well as all my books and the remainder of the contents of my kilta.

MUST NOT RETURN EVIL FOR EVIL.

"I was taken back to my cell, but later was reconveyed to the hall of trial, where I was informed that my sentence had been reconsidered; that the teach-ing of Buddha, as set forth in the Dhamma-pada, forbade returning evil for evil; that I had sinned grievously, but that it had been decided that I should live to be taught the knowledge which alone led to salvation. To remind me of my sin the Golden Gautama was to remain always in my presence, and several lamas were appointed as my teachers. The chagzot read from the holy books a lengthy exhortation and admonished me that although the death sentence had been remitted, I would have to pass through many trying ordeals, lasting throughout a period of many years; that I might abandon forever the thought of escape or communication with the outer world; but that, if I proved myself studious and desirous of atonement, I had before me in the remote future a life of peace and spiritual

"I was scourged before the assembly with sharp-cutting thongs of rawhide and then handed over to my guru to com-mence my novitiate, which, though it lasted a space of time covering fourteen annual festivals, remains in my mem-ory not so much by reason of the hardships I underwent as for the eventual knowledge that I acquired. I passed through the ordeal of fire and the ordeal of water. I practiced, for months at a time, hathayoga, bhaktiyoga, pranayam and the like; I spent nights in the bottomless pit. I studied deeply of the Pitakas and became proficient in Pali and Sanskrit; and all this time I was daily scourged in the presence of the stolen image. I received much praise from my teachers and was eventually permitted to take my place as a working lama within the precincts of the monastery. After a while I obtained leave to practice dhyana and became renowned in miracle-working, or lokothra. So great a power did I develop that the chagzot assembled his lamas and initiated me into the priesthood.

ONLY ONCE TEMPTED.

secluded spot where I might be able to devote myself entirely to study and con-templation. I said that all desire to return to the world had been abandoned: yet this is not quite the truth, for during my novitiate I once took part in the Dance of Death at Himis, whereat an Englishman was present and I was sorely tempted to disclose my identity and seek his aid. But the temptation passed; and, from fear that I might be again exposed to its influence, I was ever anxious to retire into the more in-accessible parts of the country. My opportunity soon came, and after lengthy negotiations with Lhasa I was moved across the border into Chinese Tibet, where I was received into the yellow priesthood as a minor lama of the Tscho

Pangi gompa. "That was nearly twenty-five years ago, and from that day to this I have resided within the walls of the island lamasery. My story went with me to Tscho Pangi, as did the Golden Gauta-ma, which I had long since come to regard as my savior. It lived before my eyes to remind me of the past, and is still ever present in my mind; by day it rests in its niche in the wall, by night it lies clasped in my hand. There is little more to say. I acquired grace and knowledge, and I rose in the priesthood until I became the head of my holy brethren. The expiation of my crime was complete and the pardon of the Delai Lama was conveyed to me by a special deputation of the highest lamas om Lhasa. I have begged and been granted one request—that when after my death my body is consumed in the image resembling that of the Golden Gautama of Chimray. Om Mani Padmi Hum. Oh! the jewel in the Lotus. Amen." fire, my ashes shall be inclosed in an

THE GOLDEN GAUTAMA AGAIN.

It was midnight when the Wuzir retired from the Englishmen's room; but an hour later he returned, looking wor-ried and excited. Keane was asleep, but Gillmore still sat smoking; and the Wuzir on entering noticed that a great change had come over him; he was pal-er than usual and his eyes wore a strange, hunted expression.

"Why didn't you tell us that you had taken it?" asked the Wuzir, coming to

the point at once.
"Taken what?" demanded Gillmore, roughly.

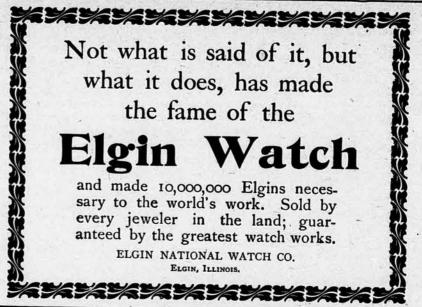
"The Golden Gautama of Chimray."
Gillmore grew livid and, trembling violently, said in a whisper, "For heaven's sake don't speak so loud! How did you find out?"

"In this way," slowly answered the Wuzir. "I have spent the last hour with ree men from cuse you of stealing the Golden Gautama from the monastery. They demanded that you should be sent back to Leh for trial. I have, however, arranged with them that you shall return the image and pay 5000 rupees to the mon-

astery as compensation."
"All right," said Gillmore, thrusting his hand into the front of his coat and withdrawing a small packet; there's the beastly image; but I haven't got enough

money to pay the fine."
"I will lend you that, and you can send it to me when you get back to India."

"Thanks, you good old Wuzir; you have seen me through a very bad business, and I shall be ever grateful. Honestly, I could not help taking it; it looked so tempting lying on the ground at my feet when the white lama died: and, of course, I did not know its his-"All desire to return to the world and my former life had long since left me, and I begged to be transferred to some and I begged to be





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#### Expedition of the Insect Collectors. Dr. F. H. Snow and Party on a Trip to Southwestern Kansas.--Camp Life and incidents.

EDITOR KANSAS FARMER:—The return of Dr. Francis H. Snow to the chair of natural history, his favorite field of labor previous to his election as chancellor of the University of Kansas, which office was resigned in the last year on account of his health, marked the beside of the second of the s ginning of a new period of activity in the department of entomology, there taking up the work which he had dropped twelve years before. His health had been so completely restored after a period of recuperation that in January of the present year he assumed charge of the insect collections as curator, besides continuing to act as director of the natural history museums at large.
"I am glad to get back to my old work,"
he has said a number of times to friends he has said a number of times to friends and visitors who in calling usually found him busily occupied among "the bugs." Alone at his work he often en-livens the seculsion with a short song, or hums a tune, since the relief from executive duties brings a bright and cheering effect. His ambition to real-ize a cherished plan—to increase the ize a cherished plan—to increase the collections so that they will exceed any other collection of insects in the United States—leads him to direct his energies with renewed vigor. In fact at the present time, only one university in our country can claim any better collections in this branch of science. Much of his success in past and present efforts can be traced to the stimulation of a curious motive, with which an interesting story is connected. Many years ago, on a trip in New Mexico, he and his party were surrounded by Apache Indians on were surrounded by Apache indians on a raid, but by prompt action for de-fense, an attack was prevented. In the midst of the danger imperiling his life, he vowed that if he should escape safe-ly he would make the best collection of insects in the United States. And, while the report was telegraphed and published that he and his party were scalped, all reached home in safety, and though his executive work and ill health have delayed him somewhat, he is now pushing operations with an increasing force of assistants.

### HOW THE COLLECTIONS ARE BUILT UP.

From the different kinds of insects collected at home and on expeditions, a collected at home and on expeditions, a surplus number, called duplicates, are used for exchange with scientists and collectors in other parts of our country, and even in foreign countries, who return specimens from their own localities, as may be desired. By this system of trading specimens can be obtained of trading, specimens can be obtained from nearly every part of the world, and each addition thus gained helps to build up a great collection of diversified forms. Dr. Snow began again to make exchanges, which practice had been nearly neglected during the twelve years he passed in the chancellor's of fice. He soon found that more material was needed to continue exchanges, as well as to work up a better representa-tion at home. Then he planned a col-lecting expedition for the summer vacation, with a party of students, such as he had conducted many times in pre-

### START OF THE EXPEDITION.

This expedition adds another note worthy event in the history of scientific field collecting for the University of Kansas. The time was chosen for early summer, particularly June, as no pre-vious collecting had ever been done in western Kansas, where he intended to go, at this time of year.

Five members composed the party, in cluding Dr. Snow and his son, Frank, his regular museum assistant, E. S. Tucker, and two students, Roy and Will H. Bailey. On the day of de parture, the university teamster carried the outfit to the depot, accompanied by the three latter members, while the Doctor and his son followed, bringing a bicycle which proved very useful on the trip. The outfit consisted of tents, provisions, camp utensils, blankets and col-lecting equipment, all packed in wooden chests securely bound with ropes, be sides such articles as were carried by hand, principally guns, insect nets, a case of eggs, and a large street lamp with a gigantic funnel attachment for trapping insects at night. A truck load of baggage awaited the train, and each member of the party had his hands full besides in boarding a west-bound pas-

#### FIRST INCIDENTS OF CAMP LIFE.

last station westward on the Santa Fe a bait composed of beer and molasses Railway in Kansas, a dray hauled the party and outfit two miles down the Ar-spots were examined at intervals by a confort the trip. Precautions as to sufficient supplies together with a keg for last station westward on the Santa Fe a bait composed of beer and molasses were made for a rough time ahead. A driver was engaged with team and wagner and outfit two miles down the Ar-spots were examined at intervals by a confort the trip. Precautions as to sufficient supplies together with a keg for Upon arrival at Coolidge, the very last station westward on the Santa Fe

timber offered a shady spot for camp-

Real out-door life began on the evening of May 30. Tents were pitched and provisions laid out for supper. In unpacking, Dr. Snow found his new red blankets smeared with syrup which had burst from a gallon can during the jour-Here was a "sweet mess," very inviting to sleep in, so after dili-gent scraping and wiping with a wet cloth, the objectionable parts were folded inside to await further treatment on the morrow, and the clean side laid out for bed. The cooking was done on a sheet-iron camp-stove, and the meal consisted of fried eggs, coffee, crackers, and cold boiled ham brought ready prepared. But what was the reason the fire the new campatone falled to draw in the new camp-stove failed to draw properly, and smoked at every point except where it should—from the pipe? The cause was explained a day or two afterwards when search was made for a ball of twine until one of the party remembered that in packing for the start he had stuffed it into the chimney hole of the stove, and no wonder the draft was choked until the obstruction burned

Early fiext morning, each person ap peared in old clothes. One member brought water, another wood, and another took charge of the cooking which was afterwards transferred in regular daily turns to each one, excepting the Doctor, whose program every morning consisted in baking gems. He stirred about, fresh and happy, singing songs while he mixed dough and baked the gems in the little oven of the campstove. His fame as a gem-baker can be confirmed by members of this or previous expeditions. In face, some years ago at a camp in Colorado, one fellow made a record of eating over seven hundred of these delicious biscuits.

The crack of guns resounded and some pigeons and other birds were added to the bill-of-fare. Near by, numbers of prairie dogs whistled in defiance. Some one in the party said their meat was good to eat, and that the prejudice against these animals on account of their name was wrong, since they had no relation to dogs whatever, but belonged to the squirrel family. One was shot and cooked for a trial; only one member objected to the taste of the meat, yet the one experience satisfied meat, yet the one experience satisfied the party, for the meat was rather tough, besides all Western people know how difficult it is to shoot the animals away from their holes. Probably very few of the inhabitants ever attempted to eat prairie dog, but the campers can claim this distinction and almost on their first day in the country!

#### GETTING DOWN TO BUSINESS.

By the time breakfast was finished, the sun blazed high in the sky. The boy remarked how early it rose, and how much earlier daylight appeared and awakened them from sleep, though in a few days they became accustomed to the light and were not always willing to leave their beds at that time of the morning. The businesss of the day began in earnest directly after the morning meal, when the members, except one to keep camp, scattered out with nets and bottles to scour the country for insects. At noon they reappeared, strag-gling in from various directions, hot, thirsty, and hungry. After refresh-ments, each one began to pin his specimens and compare his catch of the morning with the others. Red tiger-beetles (Cicindela pulchra and formosa)) attracted the Doctor's fancy, and on the following days each collector tried to outdo his comrades in an effort to catch the greatest number.

These beetles were detected on account of their bright red color as they rested on the sandy soil. To capture one, the collector approaches cautious.

Then, as Dr. David Jordan once said, ly, else it will fly away, and when within reaching distance, he claps his net over the insect and presses it to the ground to prevent the prisoner from crawling out under the edge and escaping, then he gathers the beetle into a fold of the net and forces it into a poison bottle Only after the bottle with the insect in it has been corked can a collector be sure of a specimen. The majority of other insects were captured by sweeping a net through weeds and foliage especially with flowers.

On the second or third day, a student brought in the rattles of the first rattlesnake to be killed, but about camp only harmless snakes were found.

After ten days of collecting a splendid show of specimens was made. ing" at night had been tried in timber near the camp without much success This is a method of attracting moths by

Means Something throat, diphtheria, etc., it is a God-send.

Worth Its Weight in Geld.

Worth Its Weight in Geld.

Red Lake, Minn., June 5, 1901.

One time last summer I got very sick with cholers and thought sure we would have to send for the doctor, but after taking 3 doses of Watkins' Vegetable Anodyne Liniment I feit as well asever. Since then I use it every day and and find it the best family medicine in the market to-day; it is worth its weight in gold. JOSEPH DUCHARME.

Thousands of good people have written in the same vein.

FOR ANIMALS it cures colic, diarrhoes, sprains, the summand of good people have written in the same vein.

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FOR ANIMALS with the summand of good people have written in the same vein.

FOR ANIMALS with the same vein.

ing insects were captured. Also, every night, the large lantern was lighted, and the big funnel hung underneath to trap the insects which fell into it. The light from the lantern served to illuminate the samp finely, though only on one night did it pay as an attraction for insects, but at this time its returns were immense, probably due to a lull and change of wind which afforded the right condition for insects to fly. Moths and beetles appeared in continuous swarms and fluttered in the circle of light, numbers of them falling into the funnel or onto the ground, and the Doctor hastily called out all hands to capture them. Care must be exercised always to prevent injury in catching the delicate creatures, but here the great number of beauties which fluttered in sight near-ly drove the Doctor to distraction tor fear their perfect condition would be marred by beating their wings against sides of the funnel or on the ground as they endeavored to regain their flight. He groaned aloud as if the sight of so many prizes gave him a pain, being unable to catch every one that he wanted. Really the party presented a comic as well as an animated scene; the effect of the members in prancing around the light, whirling nets frantically in the air, or in searching the ground for choicest specimens of the fallen hosts, amid a din of excited exclamations mingled with the Doctor's groans, would have afforded quite an entertainment for an audience. All efforts were fully repaid at last, for the poison bottles became crammed to the limits with the catches, and the whole party was thoroughly tired before the supply showed signs of failing.

### DR. SNOW'S POLICY TOWARDS STUDENTS.

All students who accompany Dr. Snow on a trip must be prepared with at least an elementary knowledge of entomology. Each retains one-third of his collections in the field, as the Doctor believes in stimulating a personal interest to arouse the best efforts, although he pays all expenses of the trip. Besides he supplies plenty to eat in abundant variety, for he himself likes a good bill-of-fare as far as possible. Living together in the freedom of camp is entirely different from the formality of home Here a person's disposition soon re veals his true nature and development of character, and the Doctor warned each one of the party in advance, during the journey on the train, to guard himself, for the test of sharing in discomforts as well as in pleasures, always in harmony with his companions, aids

Then, as Dr. David Jordan once said, it is a great privilege for a student to have an opportunity of becoming inti-mately acquainted with Dr. Snow.

#### HEADED FOR MORTON COUNTY.

As the plan had been made before leaving home to go into Morton County, in the extreme southwestern corner of the State, the Doctor resolved to carry out his trip in spite of all difficulties which lay before him. On the map he laid out the journey for sixty miles directly south from Coolidge, but by actual travel over the crooked trails, the distance was extended to nearly seventy-five miles.

On Monday morning, June 9, tents were struck at the first camp, and the entire outfit was moved into Coolidge. Here the specimens and surplus baggage containing the best clothes of the members were stored, and preparations

carrying water were duly appreciated before the return. At the start an extra team was used in fording the Arkansas River, as the bridge had been partially carried away by flood a short time before, and in crossing the sand hills extending four miles beyond. From this point the bicycle proved handy as turns were taken by different members in riding ahead, while those left with the wagon often preferred to walk, to obtain relief from the tedious riding, and at the same time, improve the opportunity for collecting on the way.

A new interest arose in the study of insect life on the open plains, far away from the limits of cultivation. The Docfrom the limits of cultivation. tor intently examined everything that was caught, and directed attention from one thing to another which he wanted. His keen eyes detected a moth resting on a flower by the roadside, which he suddenly pointed out to a student, who fortunately captured it with a sweep of his net and disclosed a specimen of Lepisesia gaurae, valued at \$2.75 to \$3 each by specimen dealers. With all of the sharp watch possible, not more than six of these moths were obtained after-

Another desirable insect, a rather large black beetle known as Moniloma annulatum, was found on cactus plants. One student in particular made the best record in finding them, sometimes as many as fifteen or twenty per day. He



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would walk miles at a stretch, kicking and tearing the cacti, while at nearly every capture he would shout, "I've got another Monilema."

The progress of the party was provokingly slow on account of a heavy load and a small team of horses which never could be urged to travel faster than a walk. A halt at noon to eat a lunch of canned goods, directly exposed to the fierce heat of the sun, did not comfare favorably with the former comfort of being in a shady camp. No opportunity for obtaining fresh water was found until sixteen miles from Coolidge, anr this was about an average distance between watering places during the journey. Pushing on till darkness over-took the travelers, the night was passed on the open prairie, except for a tent which was pitched for the Doctor. Early next morning after breakfast had been dispatched, the party resumed its journey. Such was the progress for three days, being exposed to the parching rays of the sun while the flickering waves of heat wighly howard along the waves of heat visibly hovered along the water which tasted strongly of vinegar, as the keg had formely contained pickles, served only for brief periods in relieving thirst. Much of the time no sign of civilization appeared; as far as could be seen, merely a level stretch of the fresh green plains faded away into the delusive mirage on the horison. Scarcly an object broke the monotony of the scene, though a relief was sometimes afforded when an antelope or two suddenly attracted the eye as they fled from view in the distance, or jack-rabbit presented a mark for the gunners, or the curlews flew within range of a shot.

A welcome sight cheered the travelers whenever a ranch house appeared ahead, for there a windmill whirled its fans in the breeze and a cool stream of fresh water ran from the pump to re-fresh the men and horses, though as the party approached the place the farther it seemed away, thus taxing their pa-tience by failing to judge correctly of distances, until at last the relief was at

At one stopping place the Doctor was asked what business he was on, and he s snake much like a rattler in markings, replied in his characteristic way, "just but without rattles, and brought it to after bugs." The questioner, a young man, then surveyed the Doctor from head to foot, besides noticing the cur-lous looking net which he carried, and if it had not been for the accompanying members who explained the object of their journey more fully, the fellow might have concluded that an escaped member of some institution, other than the University of Kansas, had wandered

Judging from personal appearances, it is no wonder that mistaken impressions result, as in this case not one in the party presented a very complimentary appearance as might be expected for students of science. If friends at home only had a chance to see Dr. Snow after a week or so in the field, they would not blame the woman who once ran from her house to a neighbor's on seeing the Doctor approach, although he merely stopped to ask for a drink of

However, the people in the country stowed many favors on the travelers, kindly directing them on their route, and supplying fresh milk when it could tor expected, particularly bees and has appared in some instances refusing to wasps. Both the doctor and his as-However, the people in the country greating be spared, in some instances refusing to accept payment for it.

advan The second night found the party ing Ci across the State line in Colorado before they were aware of the fact. On the third day the trail led back into Kansas, grain and Dr. Snow resolved to reach the Cimarron River for camp that night. As darkness came on, storm clouds began to gather in the west, and to add to their anxiety, the party found they were following a wrong trail which narrowed Gene

into a winding cow path. However, the Ent. tired horses were urged along while the last hrwhole party lightened the load of their er, Phaweight and walked. At last a furious perity, wind arose and the storm broke into dair herain, causing an immediate halt. While herdlathe driver picketed his team, all hands I ha f hurriedly dragged a tent over the open seve ucwagon to cover the goods from the wet, horn used then the young folks huddled on the enothiground underneath the wagon for shelbeef ir ter. Tired and hungry, the prospect of tle. uinassing a gloomy night in this impro and but Toresently, between the howling blasts, to k "he strains of a song in the Doctor's and he oice were heard, as he sat beside the Bro revagon, there screened from the wind neally ind rain, and rehearsed familiar tunes, buttanust as if he were pleasantly located in tle. vheamp. The cheering effect soon dis-tionsubelled the gloom of the discomforted

can have griddle cakes for supper." So the poor cook started to work by the light of a lantern and, with generous assistance, produced a meal, while a second and harder fall of rain interfered considerably with the cooking, to be served in the tent with resulting praise, for appetites could not be spoiled by trifles. Then the weary campers spread out their bedding, trusting to the shel-ter of the tent, which fortunately held secure through another and stronger wind while nearly all slept undisturbed. After midnight, when the storm ceased, the howl of coyotes was heard. Morning broke calm and dry as if no storm had lately passed, and behold! the promised valley of the Cimarron appeared before their view.

CAMPING IN MORTON COUNTY.

The camp in Morton County was located near the ranch houses, in which a postoffice was kept, called Point of Rocks, on the property of an extensive cattle company owning twenty-five miles of land and 20,000 head of cattle. ground. Frequent resorts to the keg of In front of the camp flowed the Cimarron River, while behind rose a bluff of rocks, a feature of the country which gave the place its name.

While nearing this place, one of the students nearly stepped on a huge rat-tle-snake which lay in the trail. This student happened to be walking behind the wagon at the time, when Dr. Snow who rode with the driver shouted, "Look out behind! There's a big rattle-snake in the road!" Then the student jumped to one side just in time, for the horses and wagon had passed over the snake without touching it. Probably there is nothing better for catching snakes than an insect net, so this reptile was captured and soon confined in an empty syrup can with a tight fitting cover and thus it was brought home alive to be afterwards preserved among the collec-

tions of snakes in the university.
In speaking of snakes, Dr. Snow's fondness for handling them once resulted in a bite from a rattler, consequently a person would think that he never would care to handle another snake of any kind. Not so, however, for on the road a student captured in his net a Doctor, who fearlessly dragged it the out into view with his hand, only to find it a harmless Texas rooter, notwithstanding the fact that there is a species of rattle-snake without rattles for which the honor of discovery belongs to him alone. Yet they have never been found in Kansas. One day he appeared in camp with a blue racer dangling from his hand, but it resented all attempts to be petted and finally bit the Doctor's hand severely enough to draw blood, when he released it with the remark that he never saw a snake so refractory. He believes in treating snakes friends, not as enemies.

There is some similarity in the buzzing of a rattler to the singing of a cicada insect, though the insect continues longer and in a shriller About fifteen rattle-snakes were killed altogether, mostly along the trails where they might have passed unnoticed had they not sounded their alarms. collecting resulted in Four days'

sistant worked continually at pinning the insects as fast as the three boys could catch and bring them into camp. Towards the last day all of the specimen boxes became filled, but fortunately, some empty cigar boxes were obtained from a ranchman and prepared for use so that the work went on without in-terruption. Very few insects appeared at night about the lantern, and their absence rather disappointed the doctor who longed for the abundance of day flyers consoled him

The increasing hot weather culminated on Saturday when a thermometer at one of the houses registered 114° in the shade of a porch During the night a strong wind strained on the tents together with a rigging consisting of a "fly" stretched across the space between the two tents when the light sleepers aroused themselves and fastened extra guys. However, the fly became loosened and flapped loudly until lowered while underneath the driver lay asleep on the ground, neither disturbed nor awakened till morning, when he crawled out from under the sheet of canvass and discovered a centipede in his blanket.

Feature Editions While every week's comifig is looked forward to eagerly, the "feature editions" issued about once a month are a great feast for every reader of TWENTIETH CENTURY **FARMER** In these "feature editions" considerable space is given over to a timely subject and written about by men, who have been picked out, because they are known the country over as the men who know most about the question. Each of these numbers is especially illustrated to make it handsome and interesting. Among some of the subjects of the "feature editions" are

Swine Breeder's Edition, Home Seeker's Edition, Cattle Breeder's Number (International Live Stock Show Edition). Thanksgiving Number, Horse Number, Christmas Number, Poultry Edition, Hortleulture, Farm implements. Educational Number, Dairy Number, Easter Number.

24 to 48 pages weekly. \$1.00 per year. 24 to 48 pages weekly. \$1.00 per year. Write for Free Sample Copy and Booklet. TWENTIETH CENTURY FARMER, 1735 Farnam St., Omaha, Neb. Agents Wanted at Every Post Office.

tions curiously, until the doctor kindly near the road where he applied for shelexplained his mission as an undertaking for the benefit of science and that this region was selected because no scientist had visited it before; consequently, many interesting and valuable forms should be found, possibly entirely new to scientific knowledge.

THE RETURN.

Early on Monday morning, a start was taken for the return to Coolidge, following the same route as in coming. After enduring all the discomforts experienced thus far, the further inconveniences of passing two nights on the road in disagreeable weather were met with the best of good humor, for each day's journey brought the party near the end of the trip and towards home Rain began falling on the first night just after the doctor's tent had been raised, and the cook prepared supper under cover of an umbrella. A ranchman's barn near at hand offered shelter for the younger members who carried their bedding inside and prepared to take lodgings for the night, appropriately calling the place "Hotel de Bum." Here, they obtained more accomoda-tions than they paid for: the best room was selected on the "ground floor, ing electric lighted though somewhat irregularly (by the lightning flashes), besides having shower baths in connection (rain dripping from holes in the roof) while a free entertainment was provided for the guests in the way of a grand ball (bawl by the calves' band), which lasted until a late hour.

But on the following night, as another storm threatened, the young folks would not trust to the barn again, but sought refuge in a house where they were quartered on the floor, while the doctor and his son in their tent braved a storm of dust and sand instead of rain.

With a lighter load, the progress of the party on this return trip was con-siderably faster than in entering the country, so that on the third day about noon, the river was reached opposite Coolidge. However, in the region of the sand hills, all of the party walked in order to lighten the load on the team. In fact many had been walking for some time previous to keep warm, since the morning broke cold with dull clouds and a misty rain. Overcoats were then appreciated by the fortunate ones who ther in contrast to the preceeding hot weather. The doctor, his son and a student reached the river some distance ahead of the wagon, and the student being anxious to get to the post office, doubtless expecting to find a letter awaiting him from his best girl at home, immediately waded the river, and accompanied by Frank Snow, hurried into town; only to meet with dis appointment which plainly showed in his face when overtaken by the rear members.

DR. SNOW MISTAKEN FOR A TRAMP.

After three weeks of rough camp life, the appearance of each one in the party presented a sad change: sun-burn, tan and dusty old clothes were the common nished the largest specimen of its kind possession of all. The students had Address T. L. KING, Agent, Topeka. shaved in camp but the doctor had not, shaved in camp but the doctor had not, seen on the entire trip.

What object the party had in coming so he could hardly be recognized as the wind. "Now," the Doctor said, "we the ranch people, who viewed the collection in the face of the ranch people, who viewed the collection in the face of the ranch people, who viewed the collection is shaved in camp but the doctor had not, seen on the entire trip.

What object the party had in coming so he could hardly be recognized as the trim neat professor at home. While so many "horrid bugs" seemed to puzzle waiting at the ford for the wagon to the ranch people, who viewed the collection.

ter from the rain.

In answer to his knock at the door, a woman appeared. Dr. Snow stated that he would like to get out of the wet. The woman looked him over and said he could rest behind a corner of the house where the wind could not reach him. This was poor satisfaction to the doctor who said he was afraid of catching cold "Well," the woman replied, "you might go to the chicken house." "No, I would rather walk hound and wait for my wagon to come," returned the doctor. The woman then began to question: "Where did you come from, any way?"
When told, she continued, "What have
you been after?" "Collecting bugs," answered the doctor. "Collecting bugs!" she repeated with interest. "Have you got any with you?" Hereon the doctor untied a cigar-box from his waist and opened the box to show some specimens The woman looked closely and spied the printed labels bearing the name of "F. H. Snow." With wide open eyes, she exclaimed, "Is this Professor Snow?" The doctor nodded. "Come right in," she said. "Is there anything more I can do for you?" After the doctor seated himself, his hostess entertiated him reviving the history of tained him in reviewing the history of her life in Western Kansas, until he was forced to depart on seeing the wagon arrive.

The two boys in town had notified the driver's father of the approach of the wagon, and he started out to meet it with an extra team to assist in fording the river. Soon all the goods were unloaded at the depot, and the members presented themselves in respectable clothes again, in readiness for the next train home. But the greatest change ap peared in the doctor after he had visited a barber shop.

As a result of the trip, fully 10,000 valuable insect specimens have been added to the stock of the University museum in Snow Hall of Natural History. E. S. TUCKER.

Museum Assistant, Dept. of Entomology, University of Kansas.

# Titan of nasms

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SANTA FE.

#### THE METHODIZER.

(Continued from page 1179.) ness turns the unforeseen change of conditions into a means of profit, who makes the unexpected fit into his method and his program, and who keeps an intelligent grasp upon every detail of his occupation is the man who succeeds, who prospers whether his operations be small or large. But there is a valuable hint to every man, be he farmer, manufacturer, or merchant, in the methodizing of business by the professional meth-

### THE BIG SHOW AT CHICAGO.

The International Live Stock Exposition at Chicago opened last Monday. Secretary Wilson characterized it as the most magnificent expression of progressive breeding and feeding that there ever has been in the history of the world." The Secretary remarked fur-

"The most important feature of this exposition to me is the presence here of the students from the agricultural college.

He then paid a high tribute to the value of the work being done by those institutions and went on to say:

"I propose to ask Congress to be generous with us and authorize me to cooperate with the colleges at the experiment stations throughout the land along

the lines of breeding.
"We want to produce what we need in the United States. I think we have the healthiest animals in the world in the United States. Canada, perhaps, has as healthy animals as we have here. When you go to the continent of Europe you find diseases there all the time, for the reason that jurisdiction is so cut up into small countries that no one central power can stamp out the diseases as we can here, or as the British can. We are compelled to shut out every-thing from continental Europe. We are compelled to shut out everything from Asia. We have to shut out about every-thing from the Philippines."

Look for a full report of the entire show in next week's Kansas Farmer.

### The National Live Stock Association.

EDITOR KANSAS FARMER: -Complying with the orders of the executive comthat the sixth annual convention of the National Live Stock Association will convene in the Century Theater, Kansas City, Mo., January 13, 1903, and continue through as many sessions as the business may require.

Delegates will be admitted according to the provisions of the constitution, as follows:

Each State, Territorial, county, or local range association of cattle-, sheep-, horse-, or swine-breeders may appoint one delegate for every 10,000 head of stock or part thereof, represented by the members of such organization.

The Governors of each State and Territory may appoint three delegates-atlarge.

Each feeders' and breeders' association may appoint one delegate-at large and one for every twenty-five members or part thereof.

In counties where there is no regular live stock organization, the county com-missioners may oppoint one delegate from among the stockmen of said

county. Each State or Territorial live stock sanitary board may appoint three dele-

Each State board of agriculture or agricultural college may appoint one dele-

Each live stock commission merchants' exchange may appoint one delegate-at-large and one for each twenty-

five members thereor. Each stock yards company may ap-

point one delegate.

Each railway and transportation com-pany may appoint one delegate. Each chamber of commerce may oppoint one delegate for every 100 mem-

Each dairymen's association may ap point one delegate.

Each State irrigation organization may appoint one delegate. Any bona fide stockman engaged in

breeding, feeding, trading, or handling live stock may become a member of this association by the payment of an initiation fee of \$10 and an annual due of \$10.

Delegates may be appointed from Can-ada and the Republic of Mexico, but in all cases, except those from State and county, the requirements regarding membership must be complied with.

Among the subjects which will come before the convention are:

The consideration of, and the adop-

of a majority of the packing plants of the nation into one gigantic trust, which we have every reason to believe is contemplated. No greater calamity could befall the live stock industry than a combination of this kind to control the meat supply of our country.

CONTRACT SAID OF THE SAID OF THE SAID OF

To take such decisive action as will induce the present Congress to pass the following measures which we have caused to be introduced:

H. R. 14,488, known as the Grosvenor Anti-Shoddy Bill, which is now before the Committee of Ways and Means of the house. The bill provides for the federal inspection and tagging of woolen goods, so as to prevent the sale of shoddy and waste as pure wool. This is not only a protection to the producer of wool but to the consumer as well. H. R. 14,643, introduced by Congress-

man Hopkins, and providing for a classified census of live stock and agricultural statistics.

H. R. 12,002, introduced by Congress man Stephens, and amending the shipping laws by extending the limit for unloading live stock from twenty-eight to forty hours. The bill has been favorably recommended by the Committee on Interstate and Foreign Commerce.

H. R. 2,588, introduced by Congressman Penrose, providing for the improvement in breeding of horses for generalpurpose use. This bill has received the endorsement of both the War Department and Department of Agriculture.

The amended Elkin's Bill to amend

the Interstate Commerce Act, so as to give the commission power to enforce its orders and decrees.



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his assistance. The cost in maintaining a national organization is insignificent ,the assessment being one cent for every twenty head of stock. If the reader or his local association are not members of the National Association, they are earnestly requested to make application immediately, in order to be represented at the Kansas City meeting. Blanks for this purpose, and all infor-mation may be had by addressing the secretary at Kansas City, care Coates

All associations, governors and county commissioners are requested to send the names and postoffice addresses of their delegates to the secretary as soon as named, in order that the roll may be promptly and properly arranged.

The National Wool-Growers' Association will hold their annual meeting here on Saturday, January 17, the day following the adjournment of our convention, so that it will be possible for delegates to attend both conventions during the same week.

The citizens of Kansas City have subscribed \$20,000 and are arranging to entertain all delegates and visitors in a most generous manner, and an excursion to New Orleans via Memphis, after To take steps to prevent the removal the meeting, is contemplated. In fact,

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### Our 'Xmas Present to You:

A dainty Dolly and Handkerchief, nice enough for anybody, arrive is a tual cost, 48 cents postpaid.

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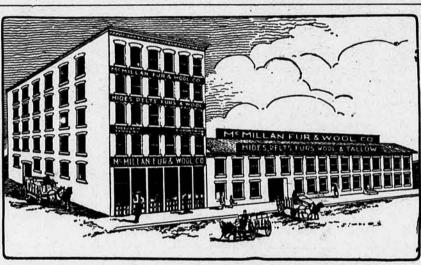
were so nervous about milk why they ignored the question of butter, in which all such bacilli were in myriads. He averred that boiling milk did not exterminate the bacilli of tuberculosis, and that sterilizing impaired its quality. If infection by bovine tuberculosis was frequent from milk, positive proof ought to be obtainable. But it was not. The danger of phthisical persons acting as milkers and handlers of milk is immeasureably greater than it gets credit for.

During a lull in a cabinet meeting at Washington some time ago one of the cabinet members spoke of driving cows to pasture, when the question was asked: "How many of us in our boyhood days drove cows to pasture?" It was developed that every one of the President's official family had performed that service in his youth.

The Nor-West Farmer says that the high price of beef and the scarcity of labor is causing some farmers in rio to turn to beef raising more than to dairying. This is most noticeable in dis-tricts that have always been inclined towards beef raising.

Measures are now being then in England to organize a large trading company which will open stores at all likely places in Great Britain for the sale of Canadian produce. The proposed capital is \$2,750,000.

One knock on the nail head will notdrive it. Continuous hammering drives nails. A good hammer is necessary. Get the Kansas Farmer and hammer



Warehouses of McMillan Furniture & Wool Co., Minneapolis, Minn.

The above is an illustration of the five-story and basement brick and two-story and basement frame warehouses of this company, located at 200-212 list Ave. No., Minneapolis, Minn. with a total floor space of over an acre which is several times as large as any other establishment in this business in the West. This gives them every facility for taking care of the great quantities of furs, hides, pelts, wool, etc., which they handle every year. In addition they have a sheep-skin tannery on Hennepin Island, Minneapolis, with a capacity of 3,000 pelts per day. This concern has been building up its business for twenty-five years and as may be assumed it has grown to very large proportions. High prices, fair treatment and quick cash returns explain their success. Their circular is furnished free upon application,

To discuss what Congress might do to improve existing laws governing the public lands and forest reserves.

The practicability of cooperation in

marketing live stock.

The advisability of some change in our financial system so as to give elasticity to the currency, thereby benefiting the stockman and farmer.

To secure the enactment of a law providing for a classified assessment of

To consider the present policy of State live stock sanitary boards in demanding a re-inspection and imposing fees, on interstate shipments of live stock after said stock has been inspected by a federal official. This case is now before the Supreme Court of the tional Live Stock Convention January expected about time this convention convenes.

Also all matters pertaining to sanitation, markets, transportation, feeding, breeding, etc., in which any member is interested and which may be brought before the meeting.

Any member of the association interested in any subject of a general nature is respectfully requested to place it in the form of a resolution and send it to the secretary at once, so it may be brought before the first meeting of the executive committee, and thus receive early consideration by the convention.

For mutual protection it has become the policy of all industries to organ-ize. It must be conceded that in a national organization the live stock industry of the nation can accomplish more in its interest than by individual efforts. The history of this organization will demonstrate this fact. This work which is in the stockman's interest can tion of some plan to oppose the merging not be carried on successfully without

of the tariff on wool, cattle, meats, and everything possible will be done for your entertainment, but you are asked to attend to the business of the convention first.

Immediately on arriving in Kansas City the member should register with the secretary at headquarters, Coates House, or the Theatre, when he will be provided with badges admitting him to Convention Hall, and coupon tickets for all entertainments given by the citizens.

Nearly all railways have granted a rate of one fare plus two dollars for the round trip, while the remainder have reduced their rates. The return coupon is limited to January 16, but by the payment of 50 cents additional to the joint agent in Kansas City, the time will

full information as to dates of sale, etc., write to the secretary of the Associa-JNO. W. SPRINGER, tion.

President. CHAS. F. MARTIN, Secretary. Kansas City, Mo., Dec. 2, 1902.

At the International Conference on Tuberculosis at Berlin, on October 25, Professor Koch reaffirmed, with added proof, his previous dictum that infection from cattle was almost, if not entirely, impossible. He also poured contempt on those faddists who advocate the boiling of milk as a preventive of the danger of transmission of tubercle bacilli from cows to man. He asked those who success out of your farm.

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We send FREE and postpaid a 200 page treatise on Piles, Fistula and Diseases of the
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# In the Dairy.

Conducted by Ed. H. Webster, Professor of Dairy Husbandry, Kansas Experiment Station, Manhattan Kans., to whom all correspondence with this depart-ment should be addressed.

#### What to Feed the Dairy Cow.

This question is one of frequent discussion at the farmers' institutes this time of the year. The conditions that surround the individual case are so varied that practically each herd requires different treatment, and it would be folly to say feed this and that unless all the conditions were known.

There are a few general directions that will be well to follow in every instance. To the beginner or any one who has not made a study of this bit of important work connected with the dairy, his first lessons should be from nature. The object of keeping a cow usually is to secure a large flow of milk at as lit-tle cost as possible. The period of the year at which this comes naturally is the early summer. We often speak of June conditions being the best. are a number of reasons for this, all of which should be carefully considered in view of feeding and caring for our herd through the rest of the year. What are some of the June conditions which make the flow of milk so large at that time? The factor of comfort is so closely associated with that of feed that it will be well to discuss these things to-gether. At this time of the year the conditions of comfort are at their maximum. It is neither too cold nor too hot, too wet nor too dry. The feed is just right to be palatable, it is most nutritious. The flies are not yet a source of annoyance. In fact the cow feels good all over, and whether she was fresh in the fall or in the spring she can not help giving milk if she would. Even the beefy type of cow will do well for a time.

Sometimes, and in some things, man has been able to improve on nature, but in the matter of handling dairy cows nature as it is exemplified in the warm June days has not even been approached when all things are considered.

Early summer stands as a model we might well study. At this season of the year, the last week in November, the condition of comfort and feed are quite

different in the spring.

Some farmers are running their cows in stalk fields, and are not any too well pleased with the fact that they are drying off very rapidly when the creameries are paying from 23 cents to 26 cents per pound for butter-fat. But look at the condition of feed in the stalk fields and contrast them with those of last May and June. The stalk field furnishes everything in converse. The stalk field furnishes extremely dry feed, the grass of June one that is succulent, the one is high in carbonaceous material or that which tends to make fat or heat, the other is rich in protein, the you see fit in regard to the test. substance necessary to make milk. The corn stalk is unpalatable, the June grasses are very paltable. The stock field produces constituation, consequently a diminished ability to produce milk, the early pastures are from the succu lence and high protein loosening, and

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and everyone who knows me says I'm the best of the whole separator tribe. I'm simple, easy to turn and easy to clean. I'm handsome and my beauty and usefulness last indefinitely.

Let me send you a book telling what I do for folks.

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formerly U. S. Butter Extractor Co.)

so on. Every condition that is found in spring is lacking in the stalk field.

The farmer that grows only corn and prairie grasses has a problem to solve, for the stalks by day and the prairie hay by night will dry his cows up just as sure as can be, if they make up the ration. When it comes to this his only safe way to a profitable winter in dairying is to buy the right kind of feeds, and the question is, what will come the near-est to restoring June conditions?

For convenience of the reader the following list of feeds are given: Loosening feeds: alfalfa, sorghum hay, ensilage, roots, bran, soy-bean-meal, linseedmeal, gluten-meal. Constipating feeds: corn fodder, timothy hay, Kafir-corn grain, corn (in light feeds), cottonseedmeal.

Loosening feeds will in a measure make up for the lack of succulence found in the winter feeds which are all practically dry feeds with the exception of roots and ensilage, neither of which in one thousand Kansas farmers has provided himself with.

The first principle of feeding should be to study June conditions. The feeds are given in the above list. Combine them in such a way as to furnish the necessary variety, loosening qualities, and required food elements.

Get the cows out of the stalk fields, furnish them with the proper conditions, and they will make you glad by a handsome return each month in cash divi-E. H. W.

#### A Letter to Creamerymen.

The following letter has been sent to Kansas creamerymen and may be of interest to the public in general. Any creameryman not receiving this letter may consider this as personally direct-

To the Kansas Creamerymen and But ter-makers:

A Monthly Educational Test for Kan sas Butter-makers: It has been sug gested to me by a number of butter makers that such a test be made the coming year. It is not likely that the United States Department of Agriculture will be in shape to take up the work as carried on the past summer. If it should, but a very few from Kansas would take advantage of the opportun ity as seen from last year's work. It is believed by those who have given the matter much thought, that a home test would be of more benefit and that a great many more would take advantage

The matter has been brought before the Experiment Station Council to secure the cooperation of the Experiment Station in the enterprise. The dairy department is authorized to go ahead with the work and make it the most complete of any work of its kind now being attempted. This at once opens up a great opportunity for the improvement of butter in Kansas.

#### SUGGESTIONS WANTED.

While you will see below a plan more or less complete for the test the dairy department wants all the suggestions that you may offer. You know your own peculiar difficulties and may want a line of work which would throw some light on the subject from your standpoint. A dozen other creameries may have the same difficulties. Therefore be perfectly free to write to the dairy department and make any suggestions

The following will give you, in a brief way, something of the line of work we wish to carry out:

#### NUMBER OF TESTS.

One test will be made each month beginning with January, 1903, and contin-uing until January, 1904. The March test will be made from the butter that is sent to the State Dairy Association Convention at the Agricultural College. The butter for the next October test is to be taken from the same churning as that which goes to the National Butter-Makers' Association Convention. All other tests to be taken from the butter on hand the day the call for butter is received. Butter to be shipped in twenty-pound tubs preferably.

#### NATURE OF TESTS.

The butter will be scored on arrival at the college. A sample will be taken for chemical and one for bacteriological analysis. The butter will then be held in the refrigerator for two to three weeks and again scored and sampled for bacterial content.

Some of the butter will be placed in cold storage and held for a longer time and the same tests made.

#### CHEMICAL TESTS.

This test will show the amount of

water, fat, casein, and salt in the butter on arrival. The second test will be made to determine the changes that have taken place as old, rancid, or other off flavors are developed in the butter.

#### BACTERIAL TEST.

This test will be made when the butter arrives and after it has been held for two or three weeks to determine the kinds and number of bacteria present and to determine their connection with the deterioration of the butter.

The butter will be scored on arrival and again at the completion of the test The score will be given on the merits of the butter at the time of scoring. The same standard will be used throughout and the results will be such that comparisons can be made one scoring with another and different lots with another

#### EXPENSES OF THE TEST.

Considerable expense will necessarily be connected with this test. The expenses must be met from two sourcesthe creameries entering the test, and the Experiment Station.

#### EXPENSE TO CREAMERIES.

Owing to the fact that the college has no funds for doing outside work there is a portion of this expense that must be met by the participants in the test Express or freight charges and drayage incidental

**CREAM SEPARATORS** 375,000 Now in Daily Use. 810.-

butter before remitting to the participant.

74 CORTLANDT S

The butter will in some cases suffer loss from keeping. The participant must stand whatever reduction in price may occur from this source.

#### EXPENSE TO EXPERIMENT STATION.

All the expense incidental to analysis dental to getting the butter of butter and scoring of same and pub-the college and to the sale lishing final report will be paid by the the butter will be deduct-from the selling price of the siderable amount as a great deal of time

## Creamery Butter 20 Cents!

This is the New York top quotation for creamery butter and is the highest November quotation on that market for ten years. The market will continue high through the season and now is the time to get a winter's good profit from the Dairy.

### Our Price 26 1-2 Cents!

Every pound of butter-fat we buy is paid for on a basis of 2 1-2 cents below New York's highest quotation for creamery butter. This basis takes the setting of the price entirely out of our hands and quotes the price in advance of the delivery of the product. Compare our price for butter-fat with the prices your merchants are paying for country butter.

## Our Price the Highest.

No other purchasers of butter-fat have equalled our prices under the above basis which went into effect January, 1902. Our net price to the farmer at his shipping point is 2 1.2 cents below New York. We furnish everything and pay the cost of transportation. For butter-fat in milk we pay on the same basis, less the cost of separating and handling the milk at the station, which varies from one to three and a half cents per pound fat. Our skimming station prices are as high as any of our competitors and our direct shipper's price is higher than paid by any other creamery.

## This is Important.

We are the first to buy butter-fat on this basis, and the system has many imitators. We always lead; others attempt to follow.

## If You Want a Hand Separator

Don't experiment with inferior machines. We sell the De Laval on monthly payments. It is the most durable separator on the market. Our guarantee is behind it.

These facts coming from the Old Reliable are worthy of your careful consideration.

THE CONTINENTAL CREAMERY CO.,

TOPEKA, KANSAS.

# MORE GOOD NEWS.

#### November, the Best of All

The list continues to grow. The largest number of checks is being sent out to our patrons of any previous month. Our price for butter-fat is higher than ever for this season of the year, being 28 cents. This is the time to begin or to increase your herd. Write for particulars.

"Economy in operating and a high price for butter-fat" is our motto.

If you are hunting the best market, take your can of

cream to the Depot and mark the tag

"BLUE VALLEY CREAMERY CO., St. Joseph, Mo." **FEERERERERERERERERERERERERERERE** 

lastittain er, Ihrough perihat I w dairy, for I herche con I halan for sever the c horrucceed eno ucceed beethen sh tle. rouse and ulness. but to h THE M and "The L Brohe first nea 3reakspe but My father tle. nanded tiorvhere I andlubseque per lry, and cowo enjoy the vas calle

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will be required to make the tests. The expense of publishing monthly reports to the participants will be met by the dairy department.

REPORTS OF THE TESTS.

At the completion of each test there will be mailed to each participant a report of the score and analysis of his butter. At the completion of the series of tests a final complete report will be published by the station.

#### DATA REQUIRED.

Blanks will be furnished each participant which he shall fill out giving all he available data in regard to the making of the butter. This will be necessary for a complete study of the butter and report on same.

#### OBJECT OF THIS TEST.

This is twofold—to give immediate information to the butter-maker as to what his faults are and to suggest remedies for same and to study the deteri-oration of butter from a scientific standpoint to determine if possible why and how such changes take place.

It will be an education of great value to the participant if he will take hold of the matter and push for all he can

#### A SPECIAL OPPORTUNITY.

In connection with this work we want to offer a proposition that should interest every butter-maker of the State who wants to take a step forward. Last year we offered a ten days' course in starters and flavors to old butter-mak-ers. We plan now to so arrange the work that at every monthly test, the school will be open to special students who want to make a study of the butter from the different creameries in connection with the score card and makers' report and to add to this some special work in starters and flavors. This will offer a rare opportunity for this kind of study and every Kansas buttermaker should be intensely interested in it.

#### IN CONCLUSION.

I wish to hear from every butter-maker or creamery manager interested in the above, at your very earliest con-venience. I feel that this is of too much importance to you from the standpoint of improving our Kansas butter for you to miss this opportunity. Offer any criticism on the outline mat you may see fit, suggesting any change that you think would be advantageous to your

Hoping that you will at once fall in with this work, I am Yours truly,
ED. H. WEBSTER,

Professor of Dairying.

Manhattan, Kans.

# The Apiary.

Conducted by A. H. Duff, Larned, Kans., to whom all inquiries concerning this department should be addressed.

### Something New in Swarming Bees.

A. H. DUFF, LARNED.

There has always been rather a difficult problem in controlling increase of bees, and also in making artificial swarms or colonies by any method that will give as good returns as natural swarms. A method that has been recently practiced to quite an extent, seems to have come near the desired effect, and swarms made on this plan have as a general thing given as good results as natural swarms. The honey-producer as a rule does not want swarms or increase of colonies, for increase thus is always at the expense of the honey crop. But owing to very close attention it takes to keep down swarming, which the apiarist has not always the time to give, especially when he is running several apiaries at different locations, it turns out that he loses many good swarms of bees in his absence, which means a heavy loss to the honey crop. If he could arrange to have all his colonies to swarm on one and the same day, he would not object so strongly to swarms. The plan hit upon is about the same thing; perhaps it is a little ahead. It is called "shook swarms." When the hives become strong and nearing the swarming point, the apiarist opens them up and takes out the frames and the bees are shaken off into a new hive, and enough only are left in the old hive to take care of the young brood in the combs. The new hive is prepared to receive the bees as a hive would be to receive any swarm. The bees are well smoked before shaking, so that they are well filled with honey as in natural swarming, and the colony thus formed is composed of classes of bees the same

gin work anew, and they do it with as much vigor, and in the same business-like manner as natural swarms. This satisfies the bees in the line of swarming seemingly, the same as in natural swarming.

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#### Honey Statistics.

A. H. DUFF, LABNED.

Ernest Root, editor of Gleanings and secretary of the National Beekeepers' Union, gives us some figures on the total output of honey in the United States and Cuba. This estimate was made of the year 1899 and seems to be a very close one. He figures the output of comb honey at 50,000,000 pounds and extracted honey at 100,000,000 pounds, or all told 150,000,000 pounds and places the actual value at \$10,000,000. Putting this in car load lots he says would make 7,000 car loads. The United States census report would make 6,667 car loads, only 333 less than his esti-

The United States honey report of 1899 shows that California produces 170 cars of honey, Texas 220 cars, New York 160 cars, Missouri 140 cars, Iowa 120 cars, Kentucky 180 cars, Illinois 135 cars, Ohio 85 cars, Colorado 81 cars, Arkansas 65 cars, figuring the cars at 22,-

000 pounds to the car. Every beekeeper has his eye turned on Cuba at present, which promises to be the greatest honey field ever yet discovered. Mr. Root says, "It will be in-teresting to know that Cuba is now turning out something like 200 carloads of honey every year, notwithstanding only a very small portion of its bee locations are utilized, especially by modern beekeepers. We learn from official sources that we consider reliable that the annual product of honey in Cube is the annual product of honey in Cuba is as stated above. What Cuba could do easily if its territory were taken up with modern beekeeping, with its long seasons of honey flow, no one can esti-mate. It is not too much to suppose that it could produce in the neighborhood of 500 carloads. California has put out in one season an amount equal to this. But probably Cuba has better and more extended honey resources than any other province, State, or island on this hemisphere; and I should not be at all surprised if her annual product in ten years hence-well, I dare not estimate."

#### Winter Management.

A. H. DUFF, LARNED.

It is costly negligence to allow the bees to remain upon their summer stands in the same condition as they were summered. It is but a very easy matter, and also very inexpensive, to give them in some form or another some extra protection. A windbreak on the north and west is of itself a great pro-tection to all the hives, but a better plan is to protect each hive to itself, in addition to a general protection of the windbreaks. The hives should sit close to the ground, but not directly on the ground so as to draw dampness. When thus set down they can be made and arranged more easily in a better and warmer condition, and is not so exposed to storms as when sitting high up on benches.

When we do not have a proper cellar to winter the bees in, we can add to their comfort to a great extent by using boxes large enough to cover each hive. These boxes should be good, tight ones. without cracks, and deep enough to come down over the hive and rest on the ground all round the same. The ground should be banked up a little about them, thus turning water away. We must be very careful to make a convenient entrance out through the outside box so that the bees can readily pass out and in at any time the weather is fine enough for them to fly. Entrances should face the south if possible. The bottom boards of the hive proper, if standard made hives, are about two inches longer than the hive projecting in front, and to use these winter cases every bottom should be thus, so that when the outside box is put over the hive, it is pushed up against the front of bottom board, and the entrance out through the case may be a hole from one to two inches in di-bees to come to the outside without inconvenience. These boxes can readily be obtained at the grocery or drygoods stores and need not cost but a trifle. If not all of the same size they will answer as well.

Farming has become a science and the best text-book for the Kansas farmer is the Kansas Farmer.

### True Philanthropy.

as a natural swarm, being field-workers, comb-builders, and nurse bees. They are thus left to the old stand to be-

# The J. P. Baden Produce Co.

Winfield, Kansas.

We will bind reelves to buy your Separator Oream from any Centrifugal Separator on present basis for

five years.

### How Does This Proposition Impress You?

We will bind ourselves to buy your cream for five years on our present offer and give you the privilege of stopping at any time you desire. We will pay for Butter-fat in cream as shown by the Babcock test, on basis of quotation of Extra Separator Creamery Butter in New York, as follows:

Mark your cans, deliver to your express agent, we do the rest. We will pay all express charges and return cans free of charge.

We want your Cream; but you can stop shipping at any ime it suits your interest, or convenience, If you send us only one can a month, we will thank you and use you right.

When you commence doing business with us once you will have no reason to quit. Our manner of doing business, and our attractive inducements are bound to please.

The enormous business which we have established, and which is increasing every day in the face of strong competition, is evidence that we have the very best outlet and procure the highest market values for our finished products. This of course enables us to pay you more money for your cream and produce than others. Write us or call on us for further information.

THE J. P. BADEN PRODUCE OO., Winfield, Kans.



# Davis Cream Separator Co.

BEST IN THE WORLD EASIEST CLEANED MOST DURABLE CLOSEST SKIMMER

CATALOGUES

Davis Cream Separator Co., 54 TO 64 N. CLINTON ST., - CHICAGO, ILL.

Save time and freight by ordering from

PIONEER IMPLEMENT CO., COUNCIL BLUFFS, IA.



The New Way of Smoking Meat

No fire, fuel or smoke-house. Apply WRIGHT'S CONDENSED SMOKE with a brush giving meat two coats a week apart. Will smoke Hams Bacon, Dried Beef, Sausage, or Fish, with no shrink, or loss by fire or thieves, A liquid made from hickery wood, Penetrates meat thor-ughly smokes it perfectly, gives it fine flavor, and protects it from insects. Can be used in kitchen or garret. No experiment. Sold for 6 years all over U. S. and Canada. FREE SAM-PLE. Send names of 5 who cure meat and we will mail you sample. A 75c bottle smokes a barrel of meat cheaper, better, and quicker than the old way Get the genuine. Fuily guaranteed. Sold only in square quart bottles with metal cap. Never in bulk. At druggists 75c. Sent prepaid \$1,00 or for 50c if you pay express. Write for PREE BOOK on curing meats Be sure to get WRIGHT'S CONDENSED SMOKS. Made only by

E. H. WRIGHT & CO., 915 Mulberry Street. Kansas City, Mo.

PILES Fistula, Fissures, all Rectal Diseases radically and permanently without the knife, cutting, ligature, or caustics, and without pain or detension from business. Particulars of our treatment and sample mailed free.

Mr. M. McCoy, Goganac, Kans., Captain Company A, Fifteenth Indiana Infantry, writes: "Hermit Remedy Company, Dear Sirs:—I have doctored for piles since the Civil War—thirty-six years—and am now glad to report that after using your treatment for a few weeks I am completely cured. I believe you can cure any one, for a man could not be in a much worse condition than I was and live, and I am duly grateful to you. Respectfully.

We have hundreds of similar testimonials of cures in desperate cases from grateful patients who have tried many cure-alls, doctors' treatments, and different methods of operation without relief.

Ninety per cent of the people we treat come to us from one telling the other. You can have a trial sample mailed free by writing us full particulars of your case. Address, HERMIT REMEDY COMPANY, Suite 736, Adams Express Building, Chicago, Ill.

Reduced Rates for Christmas and New

#### Reduced Rates for Christmas and New Year Holldays.

Year Holidays.

The Nickel Plate Road will sell tickets December 24, 25, and 31, 1992, and January 1, 1993, at rate of a fare and a third for the round trip, to any point located in Central Passenger Association territory, good returning to and including January 2, 1993. Pullman service on all trains. Individual club meals, ranging in price from 35 cents to \$1 served in dining-cars. Address John Y. Calahan, General Agent, 113 Adams St., Chicago, for particulars. Chicago city ticket office, 111 Adams St.; Depot, Harrison Street and Fifth Avenue. (65)

Stock breeding is a failure without stock feeding. Get the Kansas Farmer and learn how to feed.



ZAH SAH MOO. 樂石馬有限公司 MERCHANT IN CHINESE CURIOS.

and sample her shousha

NO MACHINE ADVERTISED EQUALS THIS. **90 DAYS' FREE** Sewing Machines\$725to We can furnish you almost ANY KIND OR STYLE of a machine at a SAVING of \$10 to \$45 by avoiding

\$4 DAY to man with rig to represent us in the country, End stamp for particulars, PashLESS CO. Kannas City, Mo

## The Poultry Hard.

Winter Care of Hens.

Any old hen in any old place if she has her freedom will produce during spring and early summer months her full complement of eggs. It is the production of fresh-laid eggs during early fall and winter months that is the question of the hour. All hen-men and others are continually striving to have hens better calculated to produce the larger yearly yield and to have winter eggs from them, and greater progress has been made in breeding than has been reached in their management, says The Feather.

The simple little demands for success seem to be the most neglected. One tells us the hens are too fat to lay; others tell us they are not fed enough, while ethers cry for the balanced ration. All may be true or not and still no winter eggs. At one time we felt assured that fat hens would not lay; again, that too little food was the trouble, or the ration was not right for the producing of eggs. Now we know that all of these count for or against a winter egg-yield to a greater or less extent, at the same time we are convinced that all may be present and if properly guarded against they will not prevent at least a partial egg-yield.

There is one feature that we all seem to lose sight of, and that is the amount of green food consumed by the hen during the spring and summer. The same is true of the milk-yield of a cow. When she has given a medium supply during the winter, the amount is almost or quite doubled when she goes on pasture in the spring. As soon as spring comes the hen begins to lay. Long before the bugs come she will eat the new green food and prosper. It is quite evident that this has been overlooked. It is quite true that cabbage is hung up for them to eat and it to freeze, but will chickens prefer cabbage to grass or clover in summer when they can have both or either? We should say not. They eat cabbage or beets or turnips when they have no other kind of green

There is no possible doubt but that the proper quality and amount of this kind of food is quite as necessary as is any of the grain foods. Even meat in winter is not of more importance than is the proper kind of green food. Of all these grass and clover are the best. If we can not have growing rye or some winter grain of this kind the very best substitute is clover-hay, and the best way to feed it is to have it cut into short lengths in a cutting-box and put plenty of it in their houses for them to scratch among and eat all they want; this with some cabbage and other vegetables will do very well.

THE VALUE OF CLOVER.

The use of clover-hay [and alfalfa clover is the best] as part of the ration for hens has become quite general. Almost every one who pays attention to a winter egg-yield feeds more or less clover. Ground clover is used as a part of the mixture for the mash. In some cases too much is given in this way, in other instances not enough. When the amount thus made use of is out of proporiton it makes a mash that is not enjoyed by the hens, and for this reason it is best to limit the use of ground clover or clover-meal to that amount that seems most attractive to the hens. Have the mixture in the mash so that the hens will enjoy it and eat it up readily and in addition to this give them cut cloverhay to pick and scratch among so they will eat all the clover leaves they need. The hay should be cut quite small in a cutting-box and thrown among the straw for them to help themselves. Clover is admitted to be most useful as ar egg-producing food, at the same time it is only a portion of a desirable ration. It is quite possible to give them too much of it, but not probable; more frequently they have too little of such food, and for this reason we urge a plentiful supply of cut clover-hay as above stated.

Such coarse or heavy foods demand a full supply of both water and grit for their consumption. At all times a full supply of grit, shells, and broken charcoal should be at hand for their use, and water is an absolute necessity.

ANIMAL FOOD.

No other food will take the place of meat of some kind. During the warmer portion of the year the fowls that have their freedom gain at least one half of their food supply from insects, worms, and green growth of all kinds. Having called attention to the best method of providing the green food, provision must be made for the animal

food. Nothing is better than green cut bone, but in many localities this is difficult to get, while in others it is quite expensive. When it can be had at a cent a pound or less, if the labor of cut-ting is not included, it is the cheapest and the best. Following this is a good quality of meat-scraps. It always pays to have a good quality of meat-scraps when that is used. Some of this preparation as sold has too large a per cent of bone in it and for this reason is nelther the most economical nor beneficial.

Meat-meal is good, but always when making use of it test it by scalding. Pour boiling-hot water over it, stir it well, cover it with a cloth for a few moments, then lift the cloth and take a whiff; if it smells bad, like spoiled meat or slaughter-house cleanings, it is not good for the fowls, and in addition to this its use will spoil the flavor of the eggs that are laid by the hens that eat it. If fresh and sweet nothing is better than a good quality of meat-meal. Always be sure of its good quality when it is used. About one-tenth of the entire winter ration of laying hens should be meat of some kind. If they have a little more than this it will increase the egg-yield if joined with the other good grain ration and clover as described.

A little bit of meat now and then is only an aid to existence. If a better egg-yield is desired the hens must have regular supply of same, within reason. All these foods must be calculated as to cost so as not to go beyond the value of the possible egg-yield. When plenty of clover and meat are given then feed but little oats or barley, for the clover gives all the husk or rough food they are capable of handling so as to work it into vital power, body sustenance, and eggs Good common sense should be used in feeding, so as not to have too much rough food for grinding. The value of the mash food is its easy and quick passage through the crop and gizzard for assimilation in the body.

THE MASH FOOD.

Mash food is the most expensive of all that are used because more of it can be made use of in the same time than of any other food. It passes more quickly into the intestine and is used in the manufacturing department much faster than are other and harder foods. The most benefit comes from cooked food, because so little of its value is wasted

An Ideal Woman's Medicine.

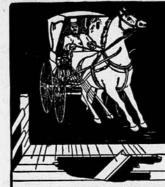


So says Mrs. Josie Irwin, of 325 So. College St., Nashville, Tenn., of Lydia E. Pinkham's Vegetable Compound.

Never in the history of medicine has the demand for one particular remedy for female diseases equalled that attained by Lydia E. Pinkham's Vegetable Compound, and never during the lifetime of this wonderful medicine has the demand for it been so great as it is to-day.

From the Atlantic to the Pacific, and throughout the length and breadth of this great continent come the glad tidings of woman's sufferings relieved by it, and thousands upon thousands of letters are pouring in from grateful women saying that it will and positively does cure the worst forms of female complaints.

Mrs. Pinkham invites all women who are puzzled about their health to write her at Lynn, Mass., for advice. Such correspondence is seen by women only, and no charge is made.



## Do You Ever Drive at Night 7

Well, it's dangerous work if you are without a light of some kind. The only really satis-factory light for night driving is our

## **Driving Lamp**

It throws all the light straight ahead 200 or 300 feet, far enough to warn you of any approaching danger. Like all "Dietz" Lamps or Lanterns, it gives a clear, white light. Neither dampness nor wind can affect it, and it can never shake out from driving. It makes night driving perfectly safe. Write for catalog and special offer on this lamp. R. E. Dietz Company, 95 Laight St., New York. Established 1840.

as it passes through the body. The real value of the mash food is the benefit derived from its use. Hens that produce a large number of eggs could not consume an equivalent in hard grains. It would not be possible for them to grind enough hard grain to provide all that is needed to sustain their bodies, keep them warm in winter, and produce the

For these reasons the mash is made use of to aid in the continuous grinding of the food supply and for the same reason it is good for the growing fowls. It helps them to grow bone, body and feather faster than they could on a grain diet alone. The more quickly the food can be handled, and the more of it they can consume properly and com-pletely, the faster will the young grow and the more eggs will the hen produce if properly handled. The best mixture for mash food is ground oats, ground corn, bran, middlings, some clover-meal and meat-scraps. We should use a part each by measure of the grain and clovermeal and enough meat-scrap to make one-tenth at least of the whole day's ration for each hen. Would feed the mash at noon and feed it warm, not hot. If cooked, so much the better. When cooked all the vegetables and scraps of same should be cooked in with the mash. Cut the vegetables small and mix well into the mash. Feed all they will eat

of this once a day. MORNING AND EVENING MEALS. During the winter months the morning and evening meals should be of whole grain. This should always be thrown into the litter of straw for them to dig and hunt and scratch for. Wheat, oats, and millet-seed are splendid for the morning meal. This gives them a lot of small grains to hunt and dig after and will keep them busy till noon, when the mash should be given. About three or four o'clock throw in a full feed of broken corn or whole corn, barley, and wheat into the straw for them to hunt and dig after. This will keep them busy till dark if the litter is plenty and deep. More benefit comes from the exercise than one would think. It is the exercise that imparts health and vigor and this is the real secret of winter egg-production. Those who have this kind of labor for their hens to perform to earn their living get plenty of winter eggs; those who neglect it do not and it is far better to have a foot and a half of straw for them to dig in than a thin covering of straw that does not call for much labor to find the grain. It is the hard, constant labor of digging all day that imparts the health and vigor that have so much to do with the egg-yield.

weak heart affects all other organs of the body by depriving them of nourishment, thus the stomach, lungs, kidneys, or ment, thus the stomach, lungs, kindeys.cor other parts may be so affected as to lead the sufferer and his physician to mistake the symptoms for the disease. Sharp, piercing, cutting pains in the left side or shoulder; palpitation or fluttering, beating and pounding of the heart; choking or smothering sensations; gasping for breath, a feeling that death is near, these are some of the agonies that heart disease inflicts upon its victims.

Wasting diseases come from weak heart

upon its victims.

Wasting diseases come from weak heart action, retarded circulation, imperfect digestion and impoverishment of the blood. The thin, pale blood can no longer nourish the body, the nerve force is exhausted and the strength fails.

The blood affects the condition of the nerves and brain as well as the muscles and tissue. If it be deficient in quality or lacking in quantity it can not sustain these parts. Rich, red vitalizing blood is absolutely essential to good health. Are you losing that snap and vigor that are the mark of endurance? Then stop the excessive waste of the system, add strength and tone to the exhausted nerves and rebuild the worn-out tissues with Dr. Miles' Heart Cure. It is the great heart and blood tonic.

Dr. Miles' New Heart Cure is the great body builder. It stimulates the action of the stomach and digestive organs to get all the nourishment out of the food you eat. It makes pure, rich, red blood. It strengthens, regulates, and controls the heart's action, giving it fresh power to send the new blood coursing through your veins on its health-giving mission. It acts on the nervous system which controls all the processes of the body, toning it up to a sound and vigorous action.

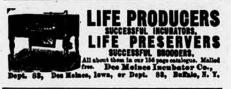
Br. Miles' Heart Cure brings quick relief,

POULTRY BREEDERS' DIRECTORY.

SCOTCH COLLIE PUPPIES—Pedigreed, and for sale cheap, on immediate orders; also some young Partridge Cochins of choice breeding for sale. O A. Rhoads, Columbus, Kans.

WANTED—A few dozen February or March pullets, B. P. Rocks and S. C. W. Leghorns. S. K. Emery, corner Colfax and South 5th streets, Denver, Col.

HAVE some very fine pedigreed Scotch Collie pups for immediate shipment. I also have some ex-tra fine B. P. Rock hens and young cockerels will sell at a bargain if taken soon, as I need the room. Can furnish pairs, tries or pens headed by a male no kin w. B. WILLIAMS, Stella, Neb.







### KLONDIKE INCUBATORS

No incubator is so sure as the Klendike. It is simple, has no delicate parts, is a perfect self-regulator, is automatic in all its actions and can be depended upon at all times. For free catalogue and poultry guide, address Klondike Incubator Company, Box 978, Des Moines, Ia.



Barred Plymouth
Rocks, White Plymouth Rocks, Bid
Cochins, Light Brahmas, Black Langshans, Silver Wyandottes, White Wyandottes, Silver Spangled Hamburgs,
Brown Leghorns, and Belgian Hares.
First-class Standard Stock of Superior
Quality, Stock For Sale. Eggs in Season.
Write Your Wants. Circular Free.

A. H. DUFF, Larned, Kans. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*



WANTED OPOSSUM SKINS and other imilLion OPOSSUM SKINS and other for export. Will pay extremely high prices. Address, A. E. BURKHARDT. Main & Snd, Cincinnatt, C.

Its success has demonstrated that heart disease is curable. Try it at our risk. Like all of Dr. Miles' Remedies it is sold on a positive guarantee that the first bottle will benefit or money will be refunded. Write for free Book on Diseases of the Heart and Nerves.

Dr. Miles' Medical Co., Elkhart, Ind.

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## Brange Department.

"For the good of our order, our country, and

Conducted by E. W. Westgate, Master Kansas State Grange, Manhattan, Kans., to whom all correspondence for this department should be addressed. News from Kansas Granges is especially solicited.

#### NATIONAL GRANGE.

Aaron Jones, South Bend, Indicturer. N. J. Bachelder, Concord, N. H. Gretary. John Trimble, 514 F St., Washington, D. C

KANSAS STATE GRANGE. Master. E. W. Westgate, Manhattan. Lecturer A. P. Reardon, McLouth. Secretary Geo. Black, Olathe.

The National Grange—Worthy Master Aaron Jones's Annual Address.

Officers anr Members of the National Grange:-

We are assembled in the capital of one of the great agricultural States of the Union, as representatives of the basic industry of this country, and the largest and most influential organization of farmers in the world.

Our purpose is to consider measures that will advance the interest of our order, promote a more profitable agriculture, and advance the cause of good government to urge upon State and National government; the enactment and enforcement of just laws that will secure to agriculture to labor and capital cure to agriculture, to labor and capital, a fair and just distribution of the earning of labor and capital in the varied industrial pursuits of our matchless country.

#### CONDITION OF THE ORDER.

The order has enjoyed a wonderful degree of prosperity during the past year. This is true whatever view you take of it. More new granges have been organized, more granges reorganized, more members initiated in existing granges, better ritual and literary work done, meetings held oftener and better attended, and greater interest taken and more inquiry by those outside our gates. The financial condition is solvent and satisfactory, and more grange halls have been built and tastefully furnished and equipped for the uses and purposes of the order. In securing legislation, State and National, the order has been meas-ureably successful. The work of the order is more generally commended than ever before by all the people of our

I, therefore, congratulate the order on the efficient work of the membership throughout the country, withs its gratifying and splendid results. The work of the past year, the growth of the order, its increasing popularity, influence, and power demonstrate beyond dispute or question that farmers can, and will, maintain a farmers' organization, to promote agriculture. The grange is one of the permanent institutions of our country try, whose influence is, and will con-tinue to be, one of the potent factors to better social, fraternal and educational conditions, and to promote cooperation among the farming population, refining and elevating the standard of American citizenship.

#### EXTENSION OF THE ORDER.

A constantly increasing demand for information of the objects, purposes, and benefits of the Order of Patrons of Husbandry indicate that the National Grange should provide an ample supply of good grange literature fully explaining the organization, that all farmers may be fully advised of its benefits and advantages, and how they can secure membership, either in existing granges or new organizations.

I recommend that the extension and lecture fund be continued, and that the National Grange Quarterly Bulletin, the official organ of the order, be also continued, and the issue increased and a copy sent to each officer of subordinate pomona, State and National Granges; and that the subscription price to all others be fixed at cost. If a copy of this excellent publication could be in the home of every member of our order, the officers of the National Grange could speak to each member in the United States, keeping all advised of the work being done. The advantages and benefits of this means of communication must be apparent to all. It will advance the interest of the order and greatly benefit the membership. Placing this publication in the home of every patron will in no wise injure any grange paper published by individual or cooperative association. Nor will it take the place of agricultural or local papers, with or without grange departments. The care-

ful reading and thoughtful study of the various matters and measures published in the Quarterly Bulletin will increase

the demand for other publications. The wonderful growth, good reputation and increasing influence of the order is due

**Veterinary Department of Our Book** 

COMPARATIVE TEST.

International Stock Food Co., Minneapolis, Minn.

Gentlemen:—While called to see a sick cow, the owner, Mr. Hersh, called my attention to 60 shoats and pigs of all sizes and ages and among them were 13 which seemed to have catarrhal affections and general unthriftiness. I advised him to separate them and give dry quarters and plenty of "international Stock Food," which he did with remarkable results. He wrote me a letter in two months asking me to call and see them, and stated that they were far ahead of the ones he did not feed "International Stock Food." I have ordered "International Stock Food" to be used in neglected cases of distemper, chronic indigestion, etc., in horses with good results. I strongly endorse "international Stock Food" for the use of all farmers and stockmen. Respectfully yours,

C. H. HETRICK, Veterinary Surgeon.

We will Fay you \$1.000 CASH to Frove that our Testimonials are not Genuine.

We will Pay you \$1,000 CASH to Prove that our Testimonials are not Genuin Seeds and Barks and we paid \$40,000 in "war tax" because it was a high class meen's that they did not use any medicinal ingredients and did not claim any It is a grest aid in Growing or fattening stock because it increases the appetit

CONTAINS 183 LARGE ENGRAVINGS OF HORSES CATTLE SHEEP HOGS POULTRY



over is a Beautiful Live Stock Picture 33" Printed in SinfBrilliant Colors. It cost us \$2000 to have our Artists and Engravers make the This International Stock Book contains a Finely Illustrated Veterinary Department that will save you Hundreds of Dellars. It on Diseases, etc., and tells how to treat them. This illustrated Stock Book also give Description, Illistory and Illustrations of the act Horses, Cattle, Sheep, Goats, Hogs and Poultry. It also contains Life Engravings of many very noted Horses, Cattle, Sheep The Editor of Tale Paper Will Tell You That You Ough To Have Our Stock Book in Your Library For Reference.

WE WILL GIVE YOU \$14.00 IN "INTERNATIONAL STOCK FOOD" IF BOOK IS NOT AS STATED.

This Book Mailed Free, Postage Prepaid, If You Write Us (letter or postal) and Answer These 3 Questions:

2 1st—Name this paper. 2d—How much stock have you? 2d—Did you ever use "INTERNATIONAL STOCK FOOD"

International Stock Food Co., MINNEAPOLIS

to the high character of its membership, to its conservative and consistent course in standing above partisan, sectional or sectarian bias; and always standing solidly and unwaveringly for the right, fairness, equity, and honesty in the ex-change of commodities of farm, factory, and in all business, legislative, or other The order recognizes merit, matters. culture, refinement, and Christian character as of far greater value than wealth or official position. Good men and women, observing its work and the fraternal spirit which characterizes its members have, and are, seeking admission to membership. The future growth and permanency of the order is assured.

The field meetings of the order have been more generally attended this year than ever before, and this method of educating the people as to the work being done and the benefit of the order to the membership and the country is apparent to all. At these meetings needed legislation can be fully discussed and the farmers fully advised as to the advantages to come to agriculture by having such laws enacted by states and the national government as will give all equal advantages, absolutely prevent special privileges, and secure equitable taxation. These meetings can be made still more profitable and less expensive by systematic arrangements as to time and place of meetings, by those having them in charge, giving a little more time and care to securing the attendance of the best men and women in a radius of twenty or more miles of each field meeting, and at as early a date as possible, securing speakers and arranging the details of the program. The social feature should not be omitted or neglected. It will be understood that at any meeting of the Patrons of Husbandry, all matters of a partisan nature must be excluded.

I fraternally suggest that field meetings be held in all portions of our counas a permanent feature of our order, and that all arrangements be made as to time and place of meetings, not later than March 1 of each year.

To increase the interests and benefits of the order, I fraternally suggest that all subordinate granges should meet once each week and that all members, who possibly can, be prompt in their attendance, and assist in all the work of the grange, and that they should strive to give, as well as receive, information that will increase the profits of agriculture, lessen the labors on the farm or in the home, or add to their attractiveness. This suggestion implies thought, study, and work on the part of every member, all of which is self remunerative, as it broadens and qualifies us for the discharge of the duties of the farm, home and citizenship. Some may urge that It is a part, and an important part, of farmers have not the time to attend a the work of our order, to make this ingrange meeting each week, and give the necessary thought to preparatory work. This can be done in many ways—I will and buy, will became the servants of the Farmers must not forget that success refer to only two of them. It is our one who fixes the prices. The farmers on the farm is not always attained by duty to cheapen production by better of the United States must change their

physical labor alone. Success comes from manual labor directed by intelligence and culture. The sooner farmers recognize this fact, the sooner will ag riculture take its rightful position as an occupation requiring much scientific knowledge and broad, commercial infor-

I fraternally urge every member to read understandingly the constitution, by-laws, rules and regulations of sub-ordinate, pomona, State and National granges. Every official should be re-quired to qualify himself to acceptably discharge all official duties, to observe all the forms, and teach the beautiful, impressive and instructive lessons of the order (without the use of manual), impressing the membership with the spirit of fraternity as well as the beauties of agriculture, as taught by our order. Promptess, system and all the laws of the order, and the rules governing de-liberative assemblies should be rigidly enforced, and fraternal courtesies always observed.

The literary work will give profitable employment to members, making them thinkers, writers, and ready speakers, understanding parliamentary law and usages. Especially is this feature of inestimable value to the younger members.

#### THE FARMER AND BUSINESS.

The farmers of the United States furnish food and clothing to its 80,000,000 inhabitants, and annually send abroad from \$600,000,000 to \$1,000,000,000 worth of agricultural products. The wealth produced each year by the farmers of the United States is greater than that produced by any nation of the world, and the amount of our productions is annually increasing to a degree not realized by our people. Hon. O. P. Austin, chief of the bureau of statistics, treasury department, says, "In the brief period since 1870 the production of corn has grown from 1,000,000,000 bushels to 2.000.000.000 bushels per annum; wheat from 235,000,000 bushels to 535,-000,000; of cotton from about 3,000,000 bales to over 10,000,000 bales; the number of animals from 102,000,000 to 213, 000,000, and the value of farm products from \$2,447,000,000 to \$4,739,000,000." In the year 1901 the aggregate value is placed at \$5,360,000,000; in that year, on account of drought, the corn crop was reduced to 1,500,000,000 bushels. In the current year the corn crop is estimated at 2,400,000,000 bushels, or about 90 per cent of all the corn grown in the world.

The brief recital of the annual productions of the farms of the United States, ought to impress us with the vast responsibility resting on our order, as it is the only national organization representing this most important industry. It is a part, and an important part, of dustry more important and profitable.

and more intelligent culture, conserving fertility, lessening labor, and by increas-ing the product of our farms, by improving stock, and by more scientific feeding. Time will not admit of fully discussing this important matter. I will only say that, in my opinion, production can be cheapened 10 or 25 per cent, and the aggregate production of the farms in the United States increased from 50 to 100 per cent by the application of the best methods. This is the privilege, it is the duty of the Order of Patrons of Husbandry—and it will perform that duty, of teaching its members along the lines of these better methods. Every farmer and every citizen is interested in the application of these better meth-Along this line of our work, we have the good will and hearty cooperation of every good citizen of our coun-

We, as farmers, are interested in finding a more profitable market for the sale of the products of the farm. In the past, the average farmer spent 99 per cent of his thought and energy in production, and only a small per cent of thought and effort in the profitable sale of what his labor and farm produced. This practice has resulted in the farmers producing annually a vast aggregate of wealth, but realizing but a small amount for their labor and use of capital. The profits were absorbed by those engaged in commerce. Some of these exactions have been excessive to a degree that left but a very small per cent of profit to the producer. It devolves on the farmer to correct all these methods, and to secure equity in the exchange of the commodities of the farm, factory, professional and official services of the people of this country. The best interest of all, when broadly considered is advanced by such equitable conditions in prices. The farmer should see that what his labor and his farm produces In short, to introduce the best business methods in the distribution and sale of the products of his farm. He must depend upon himself and upon farmers in this work. He can not expect others to aid him, even by suggestions. He must adopt and apply the same business methods used, and so successfully ap-plied, in other lines of successful manufacture and business. To successfully accomplish this, organization, thought, energy, knowledge, and business quali-fication, must be all wisely applied. In the past farmers have allowed others to organize busines methods, and do the thinking for them. So long as this practice is continued, the farmer will fail to realize his just share of what the harvest yields.

Any people or any business that permits or allows those with whom they deal to fix the prices of what they sell, tor

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present system or financial disaster will are all friendly to the grange, and en-

CHANGES IN WEALTH AND ITS OWNERSHIP.

The logic of events, and the history of our country proves the correctness of this position. In 1850 the wealth of the United States, as shown by statistics, was \$7,135,780,228, of which amount the farmers owned \$3,967,343,580, or 55.59 per cent; in 1900 the wealth of the nation was \$44,000,000 cm. tion was \$94,000,000,000, of which the farmers owned \$20,000,000,000, or 21.27 per cent. In the production of wealth all these years, the farmers produced more than all other interests combined. Why, then have farmers fallen from 55.59 per cent of the wealth of the nation, which they had 52 years ago, to only 21.27 per cent at this time? Farmers must seek the causes and remove them. They are many. They will be found in excessive charges and discriminations in transportation, in exorbitant storage, large commissions, shortages, unequal taxation, both local and national, dealing in op-tions of boards of trade, combinations and corporations commonly called trusts, adulterations of food products, inequality of prices of farm products and other commodities, official and professional services, and many other causes. Many of these causes are fostered and protected by legislative enactments; but at this time we are only considering the one cause, that of the sale of the products of the farm. Farmers should provide for the sale of their products in such manner as will secure to them what justly belongs to them. To do this, the farmer should never lose control of his property until needed for consumption.

If farmers will store their grain on their own farms until needed for con-sumption, it will cure the evils incident to board of trade practices of gambling in options and futures and farmers will realize 5 to 10 per cent higher prices than they now realize under the present system.

#### COOPERATIVE ASSOCIATIONS.

Individual members may form cooperative or stock associations, such as mutual fire and life insurance companies, savings banks, trust and loan associations, building and loan companies, elevator associations, cold storage plants, warehouses, feed stations, stock exchange and sale yards, butter and cheese and condensed milk factories, and such other business arrangements as may be found necessary to facilitate the speedy and economical sale, or purchase, of the products and supplies of the farm. All business associations should be established on sound business principles, and managed by honest men with large experience and qualifications, and all transactions should be conducted on the cash system. Under no circumstances should the credit system be encouraged. The Order of the Patrons of Husbandry, subordinate, pomona, State, or National granges, should not be in volved as an organization in any of these business enterprises.

### NATIONAL LECTURER.

The work of the national lecturer has been of great value to the order. Wherever he has spoken a higher appreciation of the order obtains. The literature prepared and the Quarterly Bulletin edited by him, have furnished food for thought to all classes of American citizens, and have been of such character as to inspire our members to greater devotion to the order, and impress all others that the order of Patrons of Husbandry is doing a grand work in bettering agricultural conditions and improving the citizenship of our country.

### OTHER ASSOCIATIONS.

The departments of agriculture in the rai States and wasnington and all the agricultural colleges, without exception, are in full sympathy with and are aiding the order to improve agricultural conditions. The grange press, the agricultural press and practically all the local press of the country are friendly to the principles and purposes of our order, and have and are rendering valuable aid in our work. Other farmers' organizations, clubs, institutes, agricultural and horticultural societies, dairy and live stock associations, and all fraternal organizations that have among their purposes the elevation and improvement of society and the establishment of fraternal ties among the people,

### Twentieth Century Medicine

Cascarets Candy Cathartic are as far ahead of ancient pill poisons and liquid physic as the electric light of the tallow candle. Genuine stamped C. C. C. Never sold in bulk. All druggists, roc.

courage and aid us in our work. These friendly aids are valuable to us, and I trust the time will never come when any one of these will have occasion to regret their action. I also trust that every member of this fraternity will aid, to the extent of his ability, any and all of these associations that have for their purposes the bettering of society and the welfare of the people.

(To be continued.)

Trains for the State Grange.—Sugges tions to the Committee of Arrangements.

EDITOR KANSAS FARMER: -As this will be one of the most important sessions of the Kansas State Grange held in our State and a large attendance is expected, would it not be well for the committee of arrangements at Lyndon to announce the time of the incoming and outgoing trains when they leave Topeka, Osage, and Kansas City, so, that all persons interested may know how to avoid delays. We trust that delegates will come prepared for three days' earnest work for the good of the order in Kansas, as the signs of the times indicate that many accessions will be made to our order if the preper methods are an inquiry for cheaper insurance, for more sociability, and for an organization that will bring our people nearer together.

A. P. REARDON. McLouth, Jefferson County.

### Publisher's Paragraphs.

Klondike Incubator Company, of Des Moines, Iowa, start their advertisement for this season in this issue of Farmer. Any one desiring to invest in a reliable and ex-cellently made incubator, will do well to write this firm for catalogue and prices.

Make your pump work easily and your windmill will turn with much less wind. The Acme Pump Governor will do it. The cost is so low and any one can attach it in a few minutes. Write Pump Governor Mfg. Co., 40 Dearborn St., Chleago, for particulars. Agents wanted. Exclusive right to territory.

WANTED—Faithful person to travel for well established house in a few counties, calling on retail merchants and agents. Local territory. Salary \$1.024 a year year and expenses, payable \$19.70 a week in cash and expenses advanced. Position permanent. Business successful and rushing. Standard House, 334 Dearborn St., Chicago.

The Smithfield hams have long been famous as the most delicious that have been prepared for human consumption. A good home-cured ham is a delicacy that only the farmer can possess. The only reason why the average farmer does not enjoy this lux-



ury more frequently is because of the trouble necessary in properly curing them. It is necessary to build a smoke-house and to devote skillfull attention for many days in order to be successful. E. H. Wright & Co., Station A, Kansas City, Mo., have invented a process whereby the smoke from hickory wood is converted into a liquid and in that form applied directly to the meat. In this manner it is thoroughly smoked and ready for consumption without the use of smoke-house, fire or fuel, and you have a Smithfield ham. This process is equally applicable to the curing of bacon, dried beef, sausages, bologna and fish. This new process has gained wonderfully in popular favor so that the writer during his last visit to the manufactory saw them ship out 300 dozen quart bottles to Atchison, Kans., and the same number to Wichita, Kans., in one day. When it is remembered that a smoke-house will cost from \$20 to \$25 and on the other hand that a person can smoke the meat from two hogs each year for ten years for less than five dollars with this liquid smoke, something of the advantage of using Wright's Condensed Smoke will be understood. A seventy-five cent bottle holds a quart of the condensed smoke and this is a sufficient quantity to thoroughly cure from 250 to 300 pounds of meat. The writer saw a ham hanging in the manufactory office that had been hanging there for 18 months without being touched by insects and which was of fine flavor when cooked. Write to E. H. Wright & Co., 915 Mulvane Street, Kansas City, Mo., for a little book describing this process.

### Building a Reputation.

For nearly a quarter of a century past the Cash Buyers' Union of Chicago has been talking to the public through the medium of advertising, exploiung the product of their factories—building a reputation. The publisher of this paper is always interested in the success of the business organizations whose advertising appears in these columns, and care is taken to investigate the integrity of an advertiser and the truthfulness of the promises he is



# Wing Fire-Proof Paint

The Only Absolutely Fire and Weather Paints in the World. Will Stand in Any Climate. Ready Mixed. Guaranteed. Write for Estimates and Testimonials from Heaviest Users.

WING FIRE-PROOF PAINT CO., ST. LOUIS, MO ....

### Cornstalk Disease Can Be Prevented

It is killing many cattle all over the Corn Belt. Hundreds of people who have had the nerve to try our remedy are rejoicing at the results. We are making hundreds of actual tests with our remedy and all are succes-ful. Do not get it into your head that stock can not be protected. We protect your stock or no pay. Give us the opportunity and we will save your stock. Price \$10.00 a pail, which will protect 60 head if fed with salt. Address

National Cornstalk Remedy Co., Ramge Bldg., Omaha, Nebraska.



The Wabash passes through Forest Park, sight of the World's Fair Grounds in full view of all the magnificent buildings now being erected. The only line that does it. Wabash Fast Mail No. 8, leaving Kansas City 6.15 p. m., saves a day's travel to East-

Wabash Ticket Office, 9th and Delaware Sts., Hansas City.

making before the advertisement is permitted to appear. This is for the double protection of our readers and ourselves. During all the yars past we have carefully watched the results of advertising of the Cash Buyers Union and we know that they have always given just what they represented to give, and in no case have we ever heard a complaint from a purchaser.

they represented to give, and in no case have we ever heard a complaint from a purchaser.

The Cash Buyers' Uniin has been making a specialty of selling high grade sewing machines direct from their factory at a price that is less than half what it would cost to purchase similar standard machines on the old plan. They sold nearly 300,000 machines in this way and have established a reputation for integrity and square dealing—always keeping every promise they make—that is an asset worth more to them than ten times the narrow margin of profit they have allowed themselves. They are distinguished from similar houses by this strong adherence to the principle of never listing anything in their catalogues which falls below a first grade quality mark.

They make a specialty of fine hand-made harness, high grade planos and organs—noted for sweetness of tone and lasting qualities; vehicles of every description; bicycles; fine blue steel, full weight ranges and stoves; crockery and glassware of the most famous make; cameras, jewelry, tailoring, cloaks, shirts, waists, women's suits to attic and at an immense saving.

### Smoking Meat With a Brush.

Smoking Meat With a Brush.

In all parts of the country, among progressive, enterprising people, the smokehouse, with its risks, annoyances, and expense, is going rapidly out of use. Its place is taken, and more than filled, by Krauser's Liquid Extract of Smoke.

Messrs. E. Krauser & Bro., of Milton, Pa., have succeeded in liquifying hickory wood smoke, so that all meats formerly smoked by fire—an operation occupying days—can now be smoked at home, in a few hours. Krauser's Liquid Extract of Smoke is applied with a brush or sponge, and has all the ingredients that preserve meat smoked by the old way. It gives hams, sausages, beef, bacon, fish, and whatever is cured by its use, a finer, sweeter flavor; keeps them from contamination by insects and mould, and is entirely wholesome. It is much cheaper and cleaner than the old smoke-house method, and permits of each piece of meat being treated to suit its own conditions—given a thick or a thin coat, as may be needed. It is so simple to apply that any one can do it and the meat can then be hung in a garret, safe from smoke-house thieves, and no loss by fire.

For further information concerning this inexpensive but valuable liquid, write to the makers, E. Krauser & Bro., Milton, Pa.

Low Sleeping Car Rates to St. Paul and

#### Low Sleeping Car Rates to St. Paul and Minneapolis.

The Chicago Great Western Railway has three tourist Sleeping Cars per week to St. Paul and Minneapolis. Rate for double berth only \$1.50. For particulars inquire of any Chicago Great Western agent, or J. P. Ellmer, G. P. A., Chicago, Ill.

When writing advertisers, please mention Kansas Farmer.

### Fall Berkshire Boars

#### For Sale, Quick, At A Reasonable Price



We have for sale a few choice yearlings, sired by Baron Duke 30th 50017, he by Baron Lee 4th 83446, and out of Duchess C 35th 33683. The dams of these boars are of the most desirable strains.

Inspection or correspondence desired. Address

ACHENBACH BROS., Washington, Kans. Breeders of Berkshire Swine. Double Standard Polled Durham Cattle, W. P. Rock Chickens.

#### OAK GROVE HERD OF PURE-BRED

## POLAND-CHINAS

For Sale—A few choice Boars and 50 Gilts, some bred for early spring farrow. Write, or come and see....

GUS AARON, R. F. D. 5, Leavenworth, Kas

### FOR SALE INDIAN LANDS.

6,000 ACRES OF INHERITED LAND

Located in the Indian Territory, for which titles can pass. Consisting of 80-, 160-, and 200-acre tracts convenient to railroads. Good farm-ing land—some in cultivation. Prices from \$11 to \$20 per acre. Address

WILLIAM HIGGINS, VINITA, INDIAN TERRITORY

### Cancer and Tumor Cured Without the Use

of a Knife.

### ECZEMA. SCROFULA, ASTHMA,

and all forms of Skin and Blood Diseases Positively Cured. The experience of one Topeka lady as told by herself:

TOPEKA, KANS., Nov. 10, 1902. This is to certify that I had cancer of the nose for three years, and after being given up by all the doctors to die, I was cured by the Home Remedy Co. I can cheerfully recommend the treatment.

MRS. NELLIE ALLEN.
Between Seventh and Eighth, on Locust Street. For full particulars, testimonials, and ad-rice, enclose a stamp and address HOME REMEDY CO., Topeka, Kans

AGENTS 44 to \$7 a day selling ideal 25c.—
Inhaler. Cures Catarrh, Colds,
Headache, Neuraigia, etc. Sella by letting people try it. Sample 10c. IDEAL SPECIALTY
CO., 120 South 14th Street, OMAHA, NEBR.

#### THE MARKETS.

#### Kansas City Live Stock and Grain Markets.

Kansas City, Mo. December 1, 1802.

There was a good run of Western cattle here the past week, considering the lateness of the season, but the proportion of killing steers among the arrivals was light and packers were thus enabled to devote their energies to corn cattle. This resulted in a general advance of 25., 35c on good beeves during the week. The best price in some time was realized for tops last week, John O'Malley, of Wabaunsee County, Kans, securing .6.15 for a bunch of 1,518-pound natives. Receipts of cattle aggregound natives. Receipts of cattle aggregound natives. Receipts of cattle aggregound of 16,000 head from a year ago. Now that the big run of Westerns is shut off with a certainty, the trade may figure on more stability to the market for corn-fed beeves. Although the supply of the latter may be larger than normal, the packers can not become too bearish when they have no Westerns to fall back upon, for the reason that the marketable supply of native-fed stoc. can be restricted at the pleasure of the shippers. Best steers are now bringing \$560.50.

The big end of the Western receipts consisted of canning cows and bulls and these sold dult to lower. The close was a good 10c off from last week's closing figures and several droves were hed over. Traders look for some improvement during the coming week. Stockers and feeders were a quiet sale, owing to the Thanksg.ving holiasy interfering with trade somewnat. Hog receipts were light, amounting all told to only 34,000 head, yet in spite of this the packers kept prices well jammed down and prevented a reactionary movement after the previous week's big sump. The market closed strong, however, and traders feel confident of an improvement, if receipts continue moderate this week. Freer runs, however, mean no more than steauy prices, for the packers seem to have the market closed of the week soling around \$6.154.2.0, with a good end at \$6.10.

The cheep market showed slightly increased supplies, the week's total aggregating soling the week whether sold for

#### South St. Joseph Live Stock Markets.

South St. Joseph Live Stock Markets.

So. St. Joseph Live Stock Markets.
South St. Joseph, Mo., December 1, 1902.
There was an excellent demand for beeves, all last week, which, combined with reduced supplies, enabled sellers to make a 25@35c gain of the recent losses. Cows and helfers also met with ready sale and values ruled 15@35c higher. Stockers and feeders were in good request and the movement to the country was good with prices up 15@20c.

The trend of hog prices was lower the greater part of last week, with the demand good at the lower range of values. The general quality averaged good with medium and heavy weights the rule. Prices to-day ranged from \$6.05@6.20 with the bulk selling at \$6.10@6.15.

The sheep market was fairly well supplied with offerings predominated by Western range sheep and lambs mixed, while fed-stock was in lighter quota than for the past few weeks. The general quality was of much better average than of late. The demand ruled vigorous and prices generally advanced 25c. Feeding sheep were in reduced supply and the market showed no material change.

### Lawrence Seed Markets.

Lawrence, Kans., December 1, 1902. We give you to-day's buying prices in our market. Outside prices are for best

grades.	Per 100 lbs.
Alfalfa	\$7.50@9.00
Red clover	8.00@9.00
Timothy	2.50@3.00
English blue-grass	2.50@3.50
Millet	70@ .80
Cane	60@ .70
Kafir-corn	DEG & CO

### **HotelOxford** And Restaurant Frank Long, Proprietor.

European and American Plans. 804-6 Kansas Avenue, Topeka, Kansas.

The hotel has moved into new quarters and every-thing is modern and first-class in all its appointments. Rates: American Plan, \$1.25 to \$1.50 Per Day, European, 75c to \$1 Per Day.

## Special Mant Column.

"Wanted," "For Sale," "For Exchange," and small or special advertisement for short time will be in-serted in this column, without display for 10 cents per line of seven words ar less, per week. Initials or a number counted as one word. Cash with the order. It will pay. Try it.

#### CATTLE.

FOR SALE-Fine thoroughbred Jersey bull calf cheap. F. M. McKinney, Rush Center, Kans.

FOR SALE—Twenty-three A. J. C. C. Jerseys—15 cows and helfers. 5 helfer calves. A son of Golden Blyth Imported, heads herd. They are high-class dairy cattle. Will trade for Rambouillet ewes bred. F. A. Lonner, Webster, Iowa.

HEREFORD MALES—Three 2-year-olds, two year-lings, seven calves, \$75 to \$125, sired by Socrates 75813; two unredistered calves, \$35 and \$40; ten male calves, high-grade, \$25 to \$35 A. few Polanu-China males, registered, 150 grade cows in calf by registered Here-ford, \$25 to \$35. R. J. Simonson, Manager, Cun-ningham, Kan.

FOR SALE—One solid red, registered Shorthorn bull calf, 8 months old; also a few choice Poland-China pigs, eligible for register. P. H. McKittrick, McCracken, Kaus.

FOR SALE—Twenty-five registered Shorthorn bulls, 1 to 2 years old, well bred, good individuals, good colors, prices right. Call on or address B. J. Hobbs & Co., Wnitehead, Okla.

FOR SALE—A few choice Shorthorn helfers and coung bulls. M. C. Hemenway, Hope, Kans.

FOR SALE—Ten young Hereford bulls from the Ever reen Farm herd, headed by Lee 121232. Address rearl I. Gill, Great Bend; Kans.

FOR SALE—Registered Red Polled buil, dark red weight 1,650 pounds, \$75. F. P. Evans, Mont Ida, An-derson Co., Kans.

FOR SALE—My herd bull, Baron Knight 184948, got by Gallar: Knight 124468, four years old, dark red weight 2,200 p unds, also four Sectish-topped bulls from eight to twelve months old; all red. I also hav-few cows and heliers for sale, and a fine lot of Ligh-Brahum cockerels. J. P. Engle, Alden, Rice Co., Kans

FOR SALE—Guernsey builts from best registered took. J. W. Perkins, 423 Altman Building, Kansality, Mo.

FIVE HEREFORD BULLS FOR SALE—Never ised in a herd, they are in fine fix, at a bargain for cownen. O. L. Thistler, Chapman, Kans.

FOR SALE—Six good Shorthorn bulls, four of them straight Uruick-marks; prices reasonable; now is your chance to get a good individual. H. W McAfee, Topeka, Kaus.

#### SWINE.

FOR SALE—One 2-year old sow, sired by Nine Hundred Fine. She is recorded by Vick as No. 68387 S, and four of her glits sired by Chief Fortune, one sow sired by Goiden Model 2843, his dam Black Rose 66388. Also one yearling moar, sired by Perfection Chip 25915. I bought this stock for a new here, but I have now sold my ia m and want to sell all my hogs, which are of the prollific type. J. S. reland, La Cygne, Kans.

YEARLING Poland-China herd boar for sale, Grand Chief by Grand Chief 2d 55525. He will make a remark-able sire for some good breeder. Address L. W. Ham-liton, Kearney, Neb.

FOR SALE—A few fine Duroc-Jersey boars, old enough f. r service; they are "top-notchers." If you want a herd-header, write me for description and prices. Also a few B. P. Rock chickens. J. C. Leach, Carbondale, Kans.

FOR SALE—Twenty head of Duroc-Jersey males \$10 to \$20 each. Young glits bred, \$15 to \$20. All eligible to record. M. H. Alberty, Cherokee, Kans.

FOR SALE—Berkshire boars, by son of Imported commander. O. P. Updegraff, Topeka, Kans.

FOR SALE—A fine lot of pedigreed Duroc-Jersey boars, old enough for service; also my two herd boars. Onward 7249 and Jumbo Breaker 2d 1497. A few extra fine gills. H. A. J. Copplus, Eldorado, Kans.

SWINE—Duroc-Jersey breeding stock, pure-breand registered, for sale at \$8 to \$20, each, owing to age Burton & Burton, East Seward Ave., Topeka, Kans

PUBLIC SALE at Topeka, Dec. 11, 1902.
V. B. Howey of Topeka, will sell 50 head of pure-bred
Poland-China and Duroc-Jersey swine. A number
of Jersey cattle and Shire-bred mares and
horses.

A BARGAIN—Three fall Poland-China boars, 40 spring pigs; popular breeding, extra feet, legs, hams, backs. heads, and ears, slick, straight, black coats. G. W. Harman, Ridge, Kans.

#### HORSES AND MULES.

FOR SALE—Thirty head of 2-year-old mules—must all go together. W. V. Jackson Coldwater, Kans.

FOR SALE—Two jacks, coming 3 years old, and one jennet with jack colt at her side. This stock is all black. Also one Mammoth jack, 7 years old. For particulars, address F. L. Rice or O E. Madinger, Wathena, Kans.

PROSPECT FARM—CLYDESDALESTALLIONS, HORTHORN CATTLE and POLAND-CHINA HOGS. Write for prices of i of finest animals in Kansas

### SHEEP.

FOR SALE—Nine (9) choice Shropshire rams, all registered, 6 to 8 months old. Anderson & Findlay, B. R. 2, Iola, Allen Co., Kans.

FOR SALE—Registered Shropshire rams and young ewes of choice quality and the best of breeding. E. S. Kirkpatrick & Son Wellsville, Kans.

### POULTRY.

EMBODEN GEESE—Pure white \$4 per pair. White Guineas \$2 per pair. A few tine Rose Comb White Leghorn cocke els left. \$1 to \$3 apie.e Mrs. Winnie Chambers, Onaga, Kans. Snowflake Poultry Farm.

DREGISTERED Scotch Collie pups for sale. I will pay expressage on all pups sold in the next two weeks. M. Finiey, Lyons, Kans.

SCOTCH COLLIES—Some fine females, from resistered stock. for \$4. A. P. Chacey, R. R. 1, North Topeka, Kans.

The Finest Restaurant in Kansas.

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Office, 267-268-269 Second Floor Exchange Bldg. OVER INTERSTATE STOCK YARDS, KANSAS CITY, U. S. A. References—Inter-State National Bank and Cattlemen Generally.

# Duroc Dispersion

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Entire herd of 40 Gilts, 10 Yearling Sows, and a few young Boars not akin, to be closed out, at my farm, near

### HADDAM, KANSAS, DECEMBER 10, 1902.

The entire offering bred from the Gilbert Van Patten and other brize-winning herds. Free transportation from Railroad, and free lunch at farm. For Catalogue, address

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W. E. MASON, Haddam, Kans.

#### FARMS AND RANCHES.

JOHN G. HOWARD—Dealer in farms, ranches, and pasture lands. Always the rest bargains in Real Estate. Write me what you want to buy or sell. My commission is only 2½ per cent. Emporia, Kans.

FOR SALE—Fine stock farm of 320 acres, 140 in cultivation, balance parture and mradow, good buildings. Price is right. Aiso 320 joining above, splendid pasture land fenced. Just the thing for a good ranch. Write for price and full description. John G. Howard, Emporta, Kans.

FOR SALE—In the famous Arkansas River Valley, Hamilton Co., Kans. only 1½ miles to railroad depot, 1,040 acres; 300 of this is the finest kind of alfalfa land, and when well set in grass will yield an annual net return of \$20 an acre. And we can sell this tract now for the astonishingly low price of \$20 per acre, one-fourth cash, balance long time 6 per cent annual interest. A few more bargatins like this. This valley is like a gold mine. L. C. Teed, Syracuse, Kans.

JEWEL COUNTY farm for sale. Write D. W. Bowman, Burr Oak, Kans.

FOR BALE—Thirty-nine acres Topeka suburban land, good soil, timber, and water, small house, fine surroundings. F. J. Brown, 17 Columbian Bldg., To-peka, Kans.

DO YOU WANT well-improved 320 acres, ever foot alfalfa land; 125 acres in cultivation. 15 alfalfa, at \$15 per acre. Jas. Stephenson, Clements, Kans.

FOR NALE—160 acres, two miles east of postoffice, Salina, Kansas. Best stock and dairy farm, about 50 acres bottom, 12 acres orchard, rest truck patches and pastures; good 11-room house, cow and horse barn, milk house, well, and 2 cisterns. Price \$6,000. Also 160 acres cornering with above, good corn, wheat, or alfalfa land. 8-acre peach orchard. 4-room house, barn, 2 wells, all fenced, about half in cultivation, rest in pasture. Will sell to close estate. Price \$5,000. Catherine E. Anderson, Admix., Drawer N., Zlon City, Ill.

FOR SALE —480 acres of wheat and cattle farm land 160 acres of it in wheat, 10 acres in airmia. No build ings. Sure to water. Good neighborhood. Price \$2,400 Write me at Jetmore, Kans., for particulars. A. T. Eakin.

FOR SALE—320 acres fine pasture land in Wabaun see County, 2 miles from Halifax, good grass and never-failing water. H. R. Rice, Tecumseh, Kans.

FOR SALE—160-acre farm, extra good corn, wheat and grass land, good improvements. A. E. Cornet Rural Route 4, Lawrence, Kans.

#### SEEDS AND PLANTS.

GREENHOUSE PLANTS—A full assortment of all kinds, strong and well-rooted plants, samples assorted dozen by mail (satisfaction and safe arrival assured), for 29 cents. Coleus, carnations, roses, fuchias, fever-few, heliotropes, verbenias, salvias, geraniums, very best sorts and colors, single, double, silver bronzed and scented; ever, thing in plant line; lists free. Tyra Montgomery, box 188, Larned, Kans.

FOR SALE, ALFALFA SEED—A limited amoun of orders filled promptly. Correspondence and order solicited. O'Laughlin & Weber, Lakin, Kans.

#### MISCELLANEOUS.

RAW FURS—I pay highest prices. Write for price list. J. I. Gleed, East Aurora, N. Y.

FOR SALE—A four-burr, four-horse Mogul corn and cob grinder, almost as good as new. Have ground 43% bushels of meal in 30 minutes. Price \$30 on board cars. W.m. Ram-ey, Solomon, Kans.

BEEKEEPERS' SUPPLIES for winter delivery at a liberal discount. Send at once for price list. Topeka Bee supply House, Topeka, Kans.

WANTED—Men to learn barber trade. New Method, big demand for graduates. Board provided toos presented, wages Saturdays, write nearest branch Moser System Barbers Colleges, Chicago, Ills. St. Louis, Mo., New Orleans, La, Minneapolis, Minn Omaha, Nebr.

AT A BARGAIN—One and one-half horse power gasoline engine, cheapest known power for farm and shop use. Strictly new, never taken out of shipping case. Price and circulars on application. N. O. Waymire, Garfield, Kans.

FARM HELP WANTED—Man and wife to work on farm. No. 1 chance for right parties. References required. Mrs. Sarah F. Harris, three miles west of Lecompton, Kans.

FOR SALE—Guaranteed Formula for best horse, cattle, sheep, and swine conditioner and health producer and preserver. Money refunded if not satisfied, \$1.00 per copy for individual use. County rights for sale E. S. Shockey, 274 Live Stock Exchange, Kan sas City, Mo.

FOR SALE CHEAP—Pedigreed Scotch Collie pups. W. H. Richards, V. S., Emporia. Kans.

#### PATENTS.

J. A. ROSEN, Patent Attorney, 418 Kansas Avenue, Topeka, Kansas,

## The Stray List

Week Ending November 20.

Cherokee County—S. W. Swinney, Clerk. HOG—Taken up by Melvin Pickens, in Cherokee tp., November 8, 1902, one black male hog, weight 300 or 400 pounds, no ears; valued at \$20.

Cowley County—Geo. W. Sloan, Clerk.

MARE—Taken up by W. T. Edwards, in Windsor
tp., (P. O. Cambridge), one grey mare.

COLT—Taken up by G. W. Gray, in South Salem tp., one black colt, 3 years old, white speck on fore-head. Greenwood County.

Elk County-G. J. Sharp, Clerk. STEER-Taken up by T. Chadwick, in Painter-hood tp., (P. O. Busby). Oc. ober 15, 1904, one red and white spotted yearling steer, crop off right ear; valued t \$18.

#### Week Ending November 27.

Bourbon County—Lydia Barton, Clerk. STEER—Taken up by Wm. H. Levi, 2 miles east of Walkertown, one roan steer, 2 years old, crop off right ear and sit in left ear.

Woodson County-J. P. Kelley, Clerk. HEIFER—Taken up by John Newell, in Everett, Nov. 8, 1902, one strawberry roan helfer, about 3 years old; value 1 at \$.0.

Jackson County—J. W. Atwater, Clerk.

STEER—Taken up by Frederick Schultz, in Franklin tp., (P. O. Hotton), Nov. 5, 1902, one roan steer,
past 2 years old, about 8.0 pounds, end of right ear off,
left ear split, slit in brisket, and without horns; valued
at \$30.

### Week Ending December 4.

Marion County-Ira S. Sterling, Clerk. COW-Taken up by J. W. Moore at his ranch in Moore tp., (P. O. Marion), November 18, 1902, one red cow.

Graham County-R. B. Garnett, Clerk. MARE—Taken up by C. Saunders, (P. O. Happy), August 9, 1902, one light bay mare, weight 900 pounds, white spot on forehead; valued at \$25.

Elk County-G. J. Sharp, Clerk.

STEERS—Taken up by T. M. Carter, in Howard tp.. (P. O. Howard), November 15, 1902, one 2-year-old brindle steer, under crop off right ear; valued at \$20. Also one 2-year-old red steer, letter L or T on left hip, spots and crop off right ear; valued at \$20. Wabaunsee County-B. Buckli, Clerk.

COW-Taken up by Geo. Ketterman, in Alma tp., (P. O. Alma). November 15, 1902, one dark red cow, swallow fork in right ear and siit in left, dehorned; valued at \$35.

If You Are a Buyer for a Ranch or Farm,

W. A. Willis & Co., Emporia, Kans. stating just what you want.

They have a large number of choice ranches in the best grazing best of Kansas, and farms of all sizes, and have on their lists the best bargains to be had.

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in nearly every county in the U.S. We are represented by 10,000 Real Estate Agents \$50,000,000 worth of property. The largest Real Estate list in the world. A Gigantic Combination—not a trust. What do you want to buy? We can save you money and time. If you want to sell or buy write us and d-scribe what you want and where you want it.

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In stock, fruit, and grain farms I have the best bargains in the world—Western Michigan—Famous fruit belt, peaches, plums, pears, apples, cherries. Excellent corn land. Clover and grass. Water the best. Better climate than in Kans-s; government reports prove it. Unimproved, \$10 to \$12 an acre. Finely improved, \$25 to \$45. First-class markets, schools, churches, railroads, and towns abundant. Every up-to-date advantage. Write for list and book that tells all about it. Easy terms.

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We have in central and western Kansas, all kinds of farm and ranch property, large and small, improved and unimproved, for sale. In many cases we can make a desirable exchange. State what you nave for sale or what you wish to buy, and we can accommodate and the same of the sale of

CUBA, REPUBLIC COUNTY, KANSAS.

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D. TROTT ABILENS, KANS., famous Du-roc-Jerseys and Poland-Chinas

Registered Stock, DUROC-JERSEYS, contains breeders of the leading strains. N. B. SAWYER, - - Cherryvale, Kansas

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DUROC-JERSEYS. 100 head for this year's trade; all eligible to recor

MAPLE AVENUE HERD J. U. HOWE, DUROC - JERSEYS. Wichita, Kansas. Farm 2 miles west of city on Maple Avenue

FAIRVIEW HERD DUROO-JERSEYS Watch for our Brood Sow Sale in February J. B. DAVIS, FAIRVIEW, BROWN CO., KAMS.

DUROC-JERSEYS.

DUROC JERSEYS FOR SALE—Choice July, Aug.
and September pigs for sale, both sexes; also 4 1901 bred
sows. Prices reasonable. Newton Bros., Whiting, Kas

WALNUT HILL HERD DUROC-JERSEY SWINE. H. A. J. COPPINS, County Clerk, Eldorado, Kans Stock of both sexes for sale.

Duroc-Jerseys For Sale.

Sixteen choice, vigorous males of spring farrow, and 25 head of extra good gilts, either bred or open; best of breeding. Come and see them, or write your wants. Prices reasonable. J. F. CHANDLER, Frankfort, Kas

MAY'S DUROC - JERSEYS. Higgin's Hero 11889 at head of herd. Choice spring plgs of both sexes for sale.

Wm. A. MAY, Blue Hill, Nebraska.

ROSE HILL HERD OF DUROC-JERSEY HOGS

A choice lot of boars ready for service, and gilts ready to breed. Also August pigs now ready to wean. All from large, prolific old sows.

S. Y. THORNTON, Blackwater, Misseari.

Standard Herd of Registered **Duroc-Jerseys, Red Polled Cattle** and Angora Goats.

Swine herd headed by Big Joe 7863 and Ohio Chief Cattle herd headed by Kansas 8303. Young stock for sale in season. PETER RLOCHER. RICHLAND, SHAWNEE COUNTY, KANSAS.

Golden Rod Herd of Prize-winning **Duroc - Jerseys** 

Van's Perfection 11571, sweepstakes boar at all State Fairs of 02, at head. Both fall and spring pigs of both exes and of his get for sale. GILBERT VAN PATTEN, Sutton, Neb.

POLAND-CHINA SWINE.

V. B. HOWEY, R. F. D. 5, Topeka, Kas BREEDER AND SHIPPER OF POLAND-CHINA HOGS, JERSEY CATTLE S. L. WYANDOTTE CHICKENS, Eggs in season

Dietrich & Spaulding, Richmond, Kans. FOR SALE: 20 boars ready for service; sows bred or open. 100 spring pigs.

Our POLAND-CHINAS are at the Top.

Kansas Herd of Poland-Chinas Has some extra fine gilts bred; also some fall boars. Will sell Son, I Know, he by Perfect I Know.

Hutchinson, Kansas F. P. MAGUIRE,

High-Class Poland-China Hogs

Jno D. Marshall, Walton, Harvey Co., Kans Breeds large-sized and growthy hogs with good bone and fine finish and style.

**POLAND-CHINAS** 

I keep constantly on hand all sizes and ages of high class Poland China pigs. Quality high, prices low Write for description and price to

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CLOSING OUT

TWO GREAT HERD BOARS FOR SALE. TWO GREAT HERD BOARD FOR SALE.

One son of Chief Perfection 2d, one son of Perfect
Perfection; both good. Will sell cheap to deliver December 1st or after. Have just weaned 5 splendid litters of September pigs, grandly bred and all O. K. Will
sell 3 for \$25; not akin if wanted. Ten aged sows all
tried and found good ENOUGH. Sixteen spring glits, 4
spring boars, 1 yearling boar, all at bargain prices Address HARRY EVANS, PLEASANTON, KANS. Big-boned only.

WAMEGO HERD

-of-

POLAND-CHINAS

With Black Tecumseh 25116 at head, he by Big Tecumseh 24429, a grand individual, and sire of large strong, growthy fellows, nearly perfect in color, coat, and markings. Large M. B. turkeys and B. P. chickens for sale. Correspond with me at Wamego, Kansas, Fottawatomic County. C. J. HUGGINS.

POLAND-CHINA SWINE.

FOR SALE Poland-China Hogs, Hol-sex. Best strains represented. H. N. Holderman, sex. Best strains represented Rural Route 2, Girard, Kans.

A. B. DILLE & SON, Edgerton, Kans. HAVE A FINE LOT OF YOUNG

Poland-Chinas of the best blood, both sows and boars, at reasonable prices. Sows bred if desired.

VERDIGRIS VALLEY HERD OF POLAND-CHINAS

FOR SALE: Six 8 and 10 months old boars, every one a show boar and as good as I ever bought to use in my herd. Also 150 spring pigs that are immense E. E. WAIT, Altoona, Kans.

SHADY LANE STOOK FARM

HARRY E. LUNT, Proprietor, Burden, Cowley Co., Kans.

A few choicely bred Poland-China Bears for sale, some choice open gilts and bred sows.

Elmdale Herd of High-Class Poland-Chinas

W. L. REID, Prop. R. F. D. 1, North Topeka. Kans. Shawnee Chief 28502 at head of herd. Have for sale shoice boars and gilts at living prices. Will have sowed ored to Shawnee Chief or a son of Chief Perfection 2d.

**THOROUGHBRED** Poland - China Hogs.

Special price for next 20 days on 10 bred gilts, to far-row in April and May; they weigh from 200 to 276 pounds, and most of them are bred to Black Perfection 27132, the best breeder I ever owned. Also 20 fail pigs. and 4 boars large enough for service. 100 head in herd. Write for anything you want in Poland-China hogs. JOHN BOLLIN, R. F. D. No. 5, Leavenworth, Kans.

PECAN HERD OF POLAND-CHINAS Having sold our farm here, we will make close prices on our

**Poland-China BOARS AND GILTS** 

Have a very fine lot to select from. Sired by Model Tecumseh, J. L. Best, and U. S. Wilkes.

J. N. WOODS & SONS, OTTAWA, KAS.

OOD FARM HERD

IG BONED ROAD BACKED ERKSHIRES . .

A few fancy young boars ready for service Orders booked for spring pigs. E. W. Molville, Eudora, Hamsas. PRAIRIE DALE HERD OF

POLAND-CHINAS 150 choice spring pigs, stred by five first-class boars, for sale; a son of Chief Tecumseh 3d at head of herd. Parties wishing to visit herd will be met at Abliene, if notice be given. Farm 2% miles northeast of Abliene.

C. M. GARVER & SON, R. F. D. No. 1, Abilene, Kansas

CHOICEST STRAINS ....OF....

Poland-China Hogs.

400 head in herd. Fashionably bred sows and glits bred to Broad Guage Chief 25733, first prize winner International Show 1900, and Simply O. K. 24290, first prize winner Missouri State Fair 1901. 200 winter and spring pigs in special offer. Bargains in Registered Stallions and Mammoth Jacks. Also SHORTHORN AND POLLED DURHAM CATTLE.

SNYDER BROS., Winfield, Kas.

CHESTER WHITE SWINE.



D. L. BUTTON, North Topeka, Kas IMPROVED CHESTER WHITES is two miles northwest of Reform School.

CHAMPION HERD ..IMPROVED..

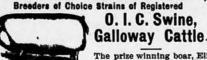
Chester White Swine

Perfection 11705, sweepstakes boar, 1901, and Pan America 11943, first prize, New York State Fair, first, Michigan State Fair, and first in class at Pan-Ameri-can Exposition, at head of the herd. The champion herd, Nebraska State Fair, 1902. Choloe spring pigs of both sexes for sale.

BLODGETT BROS. BEATRICE, NEB.

CHESTER WHITE SWINE.

MAPLE CITY BREEDING FARM, Breeders of Choice Strains of Registered



The prize winning boar, Ell 4049, at head of herd. The best in Chester Whites for sale in select young boars and glits.

Maple City, Cowley County, Kansas

THE CRESCENT HERD O. I. C. The World's Best Swine.

JOHN W. ROAT & CO., CENTRAL CITY. NEBRASKA

BERKSHIRE SWINE.

Large English Berkshires.

Boars and Gilts for sale at prices to suit. Write quick and get our prices. Also a few good yearling boars.

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Berkshire Boars.

Possessing rare quality, substance and finish, of April farrow. Also, October pigs for sale.

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*BERKSHIRES* 

Of the Leading Familles Herd numbers 150 head. All classes of stock for sale. Satisfaction guaranteed. Shipping station, Poio, on C., M. & St. P. R. R. Write for prices and full particulars.

D. T. MAYES, Knoxville, Mo. EAST LYNN HERD OF

LARGE ENGLISH BERKSHIRES Herd headed by Premier 4th 55577 assisted by Rutger Judge 2d 61106.

ONLY THE BEST. Imp. Elma Lady 4th 44668, the highest priced Berk-shire eyer sold in Kansas City, is in our herd and there are others like her. Inspection invited six days in the week.

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CATTLE.

COBURN HERD OF RED POLLED CATTLE. Bee. Breenmiller & Sen, Centropolis, Franklin Co., Kans

D. P. NORTON'S Breeder of Pure Bred SHORTHORNS SHORTHORN CATTLE Duniap, Morris Co., Kans. SHORTHORN CATTLE Herd Bull. Imported British Lien 133699.

Registered Herefords.

THOS. EVANS, Breeder,

Hertford, Lyon County, Kansas. Special Offerings: Young cows and helfers, and tew pails for said.

Abert sen-Angus. EVERGREEN STOCK FARM.

Have 15 registered buils—7 to 21 months old, sired t Niel of Lakeside 25545; also registered cows and helfer highly bred. Will sell in lots to suit. Call or addre BEO. DRUMMOND, Elmdale, Chase County, Kansas

North Elm Creek Herd Pure-bred Shorthorns and Poland - Chinas

tch-topped Young Mary females with 9th Knight of Elmwood 161607 at head. Call on, or write. W. J. Smith, Oketo, Kas

SCOTCH-TOPPED SHORTHORN CATTLE. **FASHIONABLE** 

POLAND-CHINA SWINE REGISTERED BULLS FOR SALE.

A. MEAD, Carbondale, Kansas

SUNFLOWER HERD OF Scotch and Scotch-topped



Eskridge,

SHORTHORN CATTLE and POLAND-CHINA SWINE

Two Scotch bulls in service. Representative stock for sale. Address Andrew Pringle, County, Kansas. Wahaunsee

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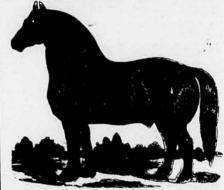
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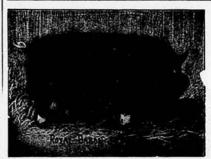
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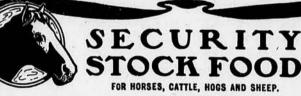
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